
**User's
Manual**

**DL9000 Series
Digital Oscilloscope
Serial Bus Signal Analysis Function**
(The analysis features of I²C bus signal, CAN bus signal, LIN bus signal, SPI bus signal, and UART signal)

Foreword

Thank you for purchasing a YOKOGAWA Digital Oscilloscope¹ with the Serial Bus Signal Analysis Function. This user's manual describes the serial bus signal analysis feature.²

- 1 One of the following DL9000 Series digital oscilloscopes.

DL9040/DL9140/DL9240 Series Digital Oscilloscopes	DL9040, DL9040L, DL9140, DL9140L, DL9240, and DL9240L
DL9500/DL9700 Series Digital Oscilloscopes	DL9050L, DL9510L, DL9705L, and DL9710L

- 2 Analyzable signal types vary depending on the installed options.

/F5 option	I ² C bus signals, SPI bus signals, and UART signals
/F7 option	CAN bus signals, LIN bus signals, SPI bus signals, and UART signals
/F8 option	I ² C bus signals, CAN bus signals, LIN bus signals, SPI bus signals, and UART signals

For information about other features, operating procedures, and handling precautions of the DL9000 Series, see the following manuals.

Manual Title	Manual No.	Description
DL9040/DL9140/DL9240 Series Digital Oscilloscope User's Manual	IM 701310-01E	Explains all features and procedures of the DL9040/DL9140/DL9240 Series excluding the communication features.
DL9500/DL9700 Series Digital Oscilloscope User's Manual	IM 701331-01E	Explains all features and procedures of the DL9500/DL9700 Series excluding the communication features.
DL9040/DL9140/DL9240 Series Digital Oscilloscope Communication Interface User's Manual (in CD)	IM 701310-17E	Explains the communication interface features of the DL9040/DL9140/DL9240 Series.
DL9500/DL9700 Series Digital Oscilloscope Communication Interface User's Manual (in CD)	IM 701331-17E	Explains the communication interface features of the DL9500/DL9700 Series.
DL9000 Series Digital Oscilloscope/SB5000 Series Vehicle Serial Bus Analyzer Power Supply Analysis Function User's Manual	IM701310-61E	Explains the operating procedures of the optional power supply analysis feature.

Notes

- **This manual, IM 701310-51E 7th Edition, applies to DL9000 Series digital oscilloscope with firmware version 4.40 or later.**

If the most recent firmware version is not running on your DL9000 Series, not all of the features described in this manual can be used.

You can check the firmware version of your DL9000 Series on the overview screen.

For instructions on how to open the overview screen, see section 18.4 in the *User's Manual IM 701310-01E* or *IM 701331-01E*.

To upgrade to the latest firmware version, go to the following Web page, and then browse to the download page.

<http://tmi.yokogawa.com/service-support/downloads/>

- The contents of this manual are subject to change without prior notice as a result of continuing improvements to the instrument's performance and features. The figures given in this manual may differ from the actual screen.
- Every effort has been made in the preparation of this manual to ensure the accuracy of its contents. However, should you have any questions or find any errors, please contact your nearest YOKOGAWA dealer.
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Revisions

- 1st Edition: September 2005
- 2nd Edition: March 2006
- 3rd Edition: December 2006
- 4th Edition: March 2007
- 5th Edition: August 2007
- 6th Edition: June 2008
- 7th Edition: April 2009

Symbols and Notations Used in This Manual

Safety Markings

The following markings are used in this manual.

Note Calls attention to information that is important for proper operation of the instrument.

Notation Used in the Procedural Explanations

On pages that describe the operating procedures in chapters 2 through 4, the following notations are used to distinguish the procedures from their explanations.

Procedure Carry out the procedure according to the step numbers. All procedures are written with inexperienced users in mind; experienced users may not need to carry out all the steps.

Explanation This section describes the setup items and the limitations regarding the procedures.

Notation of User Controls

Panel/Soft Key Names and Menu Items Set in Boldface

Boldface type indicates the names of user-controlled panel keys, and soft key items and menu items displayed on screen.

SHIFT+Panel Key

The SHIFT+Panel key means you will press the SHIFT key to turn ON the indicator of SHIFT key and then press the panel key. The menu marked in purple above the pressed key appears on the screen.

Rotary knob and SET

Rotary knob and SET key indicates selecting or setting parameters and entering values using the rotary knob, the SET key, and other keys. For details on the procedure, see section 4.1 and 4.2 in the *User's Manual IM701310-01E* or *IM701331-01E*.

Unit

k: Denotes "1000."	Example: 100 kS/s (sample rate)
K: Denotes "1024."	Example: 720 KB (file data size)

Contents

Symbols and Notations Used in This Manual	iii
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Chapter 1 Overview of the Serial Bus Signal Analysis

1.1 I ² C Bus Signal	1-1
1.2 CAN Bus Signal.....	1-2
1.3 LIN Bus Signal.....	1-4
1.4 SPI Bus Signal	1-5
1.5 UART Signal.....	1-7

Chapter 2 Serial Bus Setup

2.1 Executing Serial Bus Signal Auto Setup.....	2-1
2.2 Sharing of the Serial Bus Signal's Trigger, Analysis, Search Settings	2-7

Chapter 3 Triggering

3.1 Triggering on an I ² C Bus Signal	3-1
3.2 Triggering on a CAN Bus Signal.....	3-11
3.3 Triggering on a LIN Bus Signal.....	3-21
3.4 Triggering on a SPI Bus Signal	3-23
3.5 Triggering on a UART Signal.....	3-27

Chapter 4 Analysis

4.1 Selecting the Serial Bus Signal and Displaying and Saving Analysis Results	4-1
4.2 Analyzing an I ² C Signal.....	4-11
4.3 Analyzing a CAN Bus Signal and Performing Stuff Bit Computation	4-13
4.4 Analyzing a LIN Bus Signal.....	4-18
4.5 Analyzing a SPI Bus Signal.....	4-20
4.6 Analyzing an UART Signal	4-24

Chapter 5 Search

5.1 Selecting the Serial Bus Signal and Skip Mode, Executing the Search, and Displaying the Results.....	5-1
5.2 Searching I ² C Bus Signals	5-4
5.3 Searching CAN Bus Signals.....	5-11
5.4 Searching LIN Bus Signals.....	5-18
5.5 Searching SPI Bus Signals	5-26
5.6 Searching UART Signals.....	5-31

Chapter 6 Messages

6.1 Messages.....	6-1
-------------------	-----

Chapter 7 Commands

7.1 List of Commands	7-1
7.2 ANALysis Group.....	7-24
7.3 MATH Group.....	7-43
7.4 SEARch Group.....	7-44
7.5 SERialbus Group.....	7-79
7.6 TRIGger Group.....	7-85

Chapter 8 Specifications

8.1	I ² C Bus Signal Analysis	8-1
8.2	CAN Bus Signal Analysis	8-2
8.3	LIN Bus Signal Analysis	8-3
8.4	SPI Bus Signal Analysis	8-4
8.5	UART Signal Analysis.....	8-5

Index

1
2
3
4
5
6
7
8
Index

1.1 I²C Bus Signal

I²C Bus is an abbreviation for Integrated Circuit Bus. It is a bidirectional bus for connecting ICs. By using this feature, you will be able to analyze data while displaying I²C Bus signal waveforms. The I²C bus signal analysis feature consists of the following three main features.

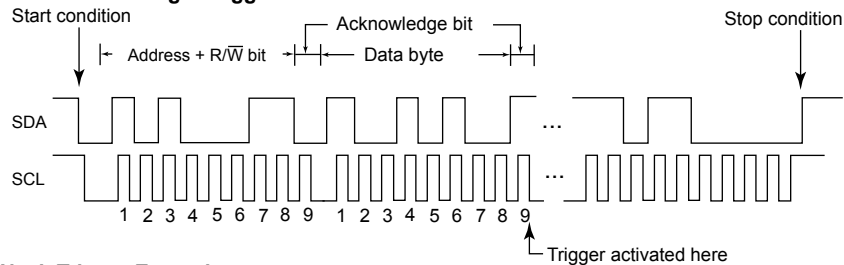
Trigger ▶ For the procedure, see section 3.1

A trigger can be activated under the following conditions.

- When a start condition is detected.
- When a Nack is detected.
- When the specified address pattern (7-bit address, 7-bit address + sub address, or 10-bit address) is met.
- When the data pattern is met or not met.
- When a specified general call address is detected.

Address & Data Trigger Example

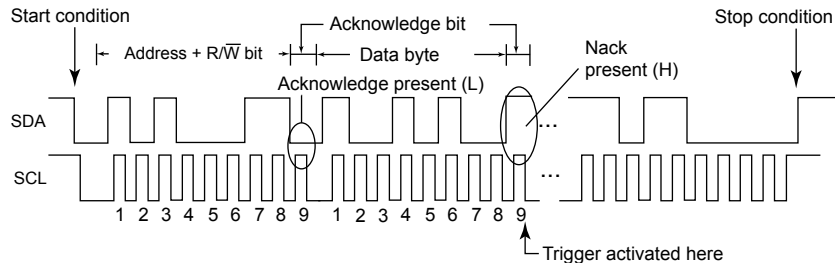
• **When Activating a Trigger on the Start Condition or Address Pattern/Data Pattern**



Nack Trigger Example

• **When Activating a Trigger When the Acknowledge Bit Is Not Present**

(When the SDA Signal is high)



A trigger can be activated on the combination of the trigger conditions of the I²C bus signal and analog signal (event interval trigger). For details on the event interval trigger, see section 6.20 in the *User's Manual IM701310-01E* or *IM701331-01E*.

Analysis ▶ For the procedure, see section 4.2

This feature analyzes the I²C bus signal data and shows a list of the analysis results.

There are two types of analysis result lists: simple and detail. The simple list displays the analysis number, start and stop conditions, analysis data, address and data types, read/write signal, and the status of the Acknowledge bit for each byte. The detail list displays the time from the trigger position and data information in addition to the items displayed by the simple list. The data of the detail list can be saved to an arbitrary storage medium in CSV format. In addition, you can select an arbitrary byte in the analysis result list and move the zoom position (the center of the zoom box) to the head of that byte.

Search ▶ For the procedure, see section 5.2

This feature searches for data that matches a specific address pattern, data pattern, or Acknowledge bit status in the I²C bus signal data. When the search is executed, the zoom box (ZOOM1 or ZOOM2) moves to the data position where the conditions are met, and the data is displayed expanded in the zoom window.

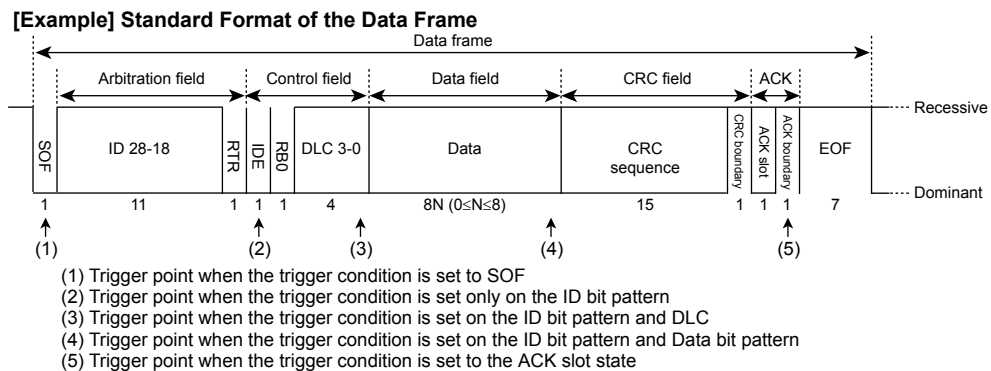
1.2 CAN Bus Signal

CAN stands for Controller Area Network. It is a serial communication protocol standardized internationally by the ISO (International Organization for Standardization). By using this feature, you will be able to analyze data while displaying signal waveforms on the CAN bus as analog waveforms.

This CAN bus signal analysis feature consists of the following four main features.

Trigger ► For the procedure, see section 3.2

By setting the ID bit pattern, DLC, Data, and ACK slot status of the CAN bus, a trigger can be activated on a specific data frame or remote frame. Up to four ID/Data conditions can be specified allowing triggers to be activated on their OR conditions. In addition, the SOF (Start of Frame) or error frame can be used as a trigger condition.



A trigger can be activated on the combination of the trigger conditions of the CAN bus signal and analog signal (event interval trigger). For details on the event interval trigger, see section 6.20 in the *User's Manual IM701310-01E or IM701331-01E*.

Analysis ► For the procedure, see section 4.3

This feature analyzes the CAN bus signal data and shows a list of the analysis results. There are two types of analysis result lists: simple and detail. The simple list displays the analysis number, the type of analyzed frame, ID, Data, ACK slot status for each frame. The detail list displays the time from the trigger position, DLC, and CRC sequence in addition to the items displayed by the simple list. The data of the analysis result can be saved to an arbitrary storage medium in CSV format.

You can select an arbitrary frame in the analysis results list and automatically display the CAN bus signal for that frame (zoom link). The zoom position (the center of the zoom box) can be moved to the head of a specified field of the frame (field jump).

Stuff Bit Computation ► For the procedure, see section 4.3

Stuff bits within the CAN bus signals can be detected, and stuff bit waveforms can be displayed as math waveforms (stuff bit computation).

Search ► For the procedure, see section 5.3

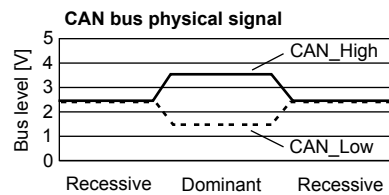
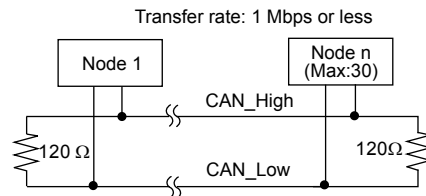
A specific frame or field can be searched on the CAN bus signal data. When the search is executed, the zoom box moves to the data position where the conditions are met, and the data is displayed expanded in the zoom window (Zoom1 or Zoom2).

High-speed CAN (ISO11898) and Low-speed CAN (ISO11519-2)

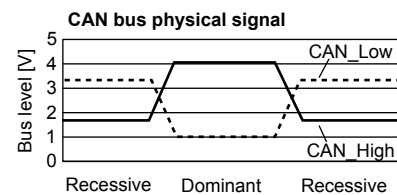
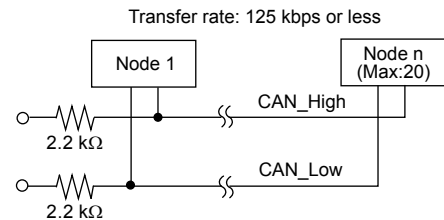
Representative standards for the CAN physical layer are High-speed CAN (ISO 11898) and Low-speed CAN (ISO 11519-2).

As shown in the following figure, the bus level is determined by the potential difference between two buses, CAN_High and CAN_Low, in either standard.

High speed CAN (ISO11898)



Low speed CAN (ISO11519-2)



Connecting the Probe

Probe to Be Used

A differential probe is used when measuring CAN bus signals.

Compatible differential probes: 701920, 701922, and 701924 by Yokogawa

When displaying the recessive voltage level higher than the dominant voltage level (Recessive: H)

- **For a two wire system (differential)**
Connect the differential probe negative (–) to CAN_High, and the probe positive (+) to CAN_Low.
- **For a one wire system (single-ended)**
Connect the differential probe negative (–) to CAN_High, and probe positive (+) to GND (ground potential).

When displaying the recessive voltage level less than the dominant voltage level (Recessive: L)

- **For a two wire system (differential)**
Connect the differential probe negative (–) to CAN_Low, and the probe positive (+) to CAN_High.
- **For a one wire system (single-ended)***
Connect the differential probe negative (–) to GND (ground potential), and probe positive (+) to CAN_High.

* In this case, the passive probe (model 701943) can be connected to CAN_High.

1.3 LIN Bus Signal

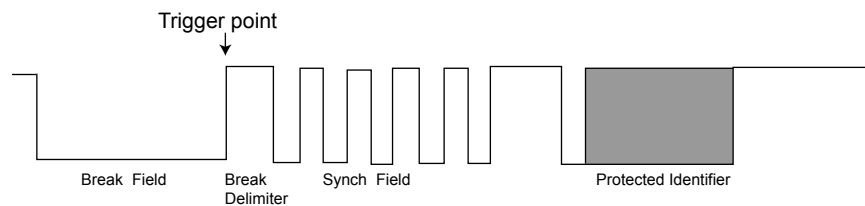
LIN stands for Local Interconnect Network. It is a serial communication protocol used mainly for automobiles and other vehicles.

By using this feature, you will be able to analyze data while displaying signal waveforms on the LIN bus as analog waveforms.

The LIN bus signal analysis feature consists of the following three main features.

Trigger ► For the procedure, see section 3.3

The trigger activates on the rising edge of the break delimiter. One of the following can be selected for the bit rate: 19200 bps, 9600 bps, 4800 bps, 2400 bps, 1200 bps, or User.



A trigger can be activated on the combination of the trigger conditions of the LIN bus signal and CAN bus signal, or of the LIN bus signal and analog signal (event interval trigger). For details on the event interval trigger, see section 6.20 in the *User's Manual IM701310-01E* or *IM701331-01E*.

Analysis ► For the procedure, see section 4.4

This feature analyzes the LIN bus signal data and shows a list of the analysis results. There are two types of analysis result lists: simple and detail. The simple list displays the analysis number, ID, Data, and Checksum status. The detail list displays the time from the trigger position, ID field, ID parity error, and Checksum error in addition to the items displayed by the simple list. The data of the analysis result can be saved to an arbitrary storage medium in CSV format. You can select an arbitrary field in the analysis results list and automatically display the LIN bus signal for that field (zoom link).

Search ► For the procedure, see section 5.4

You can search for a specific field on the LIN bus signal data. When the search is executed, the zoom box moves to the data position where the conditions are met, and the data is expanded in the zoom window (Zoom1 or Zoom2).

1.4 SPI Bus Signal

The SPI (Serial Peripheral Interface) Bus is a synchronized serial bus that is widely used for inter-IC communications and data communications.

By using this feature, you will be able to analyze data while displaying the SPI Bus signal waveform.

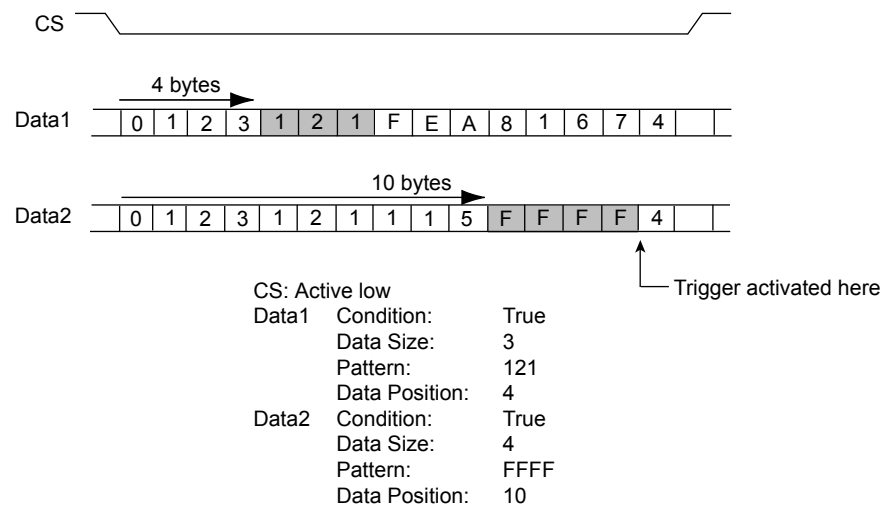
The SPI Bus signal analysis feature consists of the following three main features.

Trigger ► For the procedure, see section 3.4

Acquires SPI Bus signals by comparing the specified conditions with the input signals at the byte level (8 bits).

The data position to be compared can be specified in terms of the number of bytes from the assertion of the chip select signal (CS). You can set two data patterns (Data 1 and Data 2) for the four-wire SPI and one data pattern for the three-wire SPI. For Data 1 and Data 2, a trigger is activated at the position where the latter data pattern matches.

An example is given below for the case when comparing Data 1 (3 bytes) from the 4th byte after the assertion of the CS and comparing Data 2 (4 bytes) from the 10th byte after the assertion of the CS and activating the trigger when both patterns match.



A trigger can be activated on the combination of the trigger conditions of the SPI bus signal and analog signal (event interval trigger). For details on the event interval trigger, see section 6.20 in the *User's Manual IM701310-01E* or *IM701331-01E*.

Analysis ► For the procedure, see section 4.5

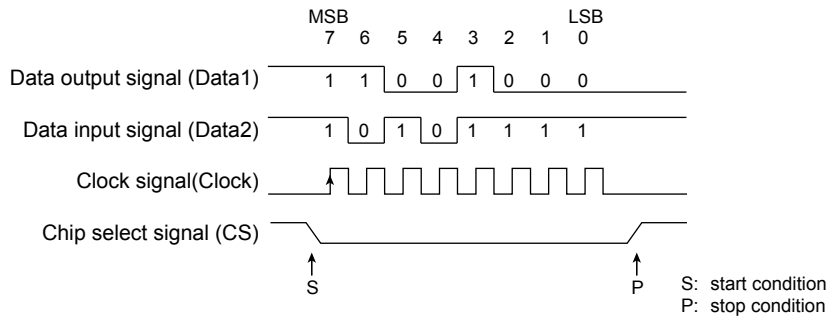
This feature analyzes the SPI bus signal data and shows a list of the analysis results. Analysis occurs in sync with the clock signal (Clock), in segments whose size is determined by the field size (Field Size) and the enabled bit range (Enable MSB/LSB). There are two types of analysis result lists: simple and detail. The simple list displays the analysis number, Data 1/Data 2 (in hexadecimal notation), and CS status for each byte. The detail list displays the time from the trigger position, the start and end positions of the active period and Data 1/Data 2 (in binary notation) in addition to the items displayed by the simple list. The data of the detail list can be saved to an arbitrary storage medium in CSV format. In addition, you can select an arbitrary byte in the analysis result list and move the zoom position (the center of the zoom box) to the head of that byte.

Search ► For the procedure, see section 5.5

This feature searches for data that matches a specific data pattern in the SPI bus signal data. When the search is executed, the zoom box moves to the data position where the conditions are met, and the data is displayed expanded in the zoom window (Zoom1 or Zoom2).

Analysis and Search Example

The table below indicates how the DL9000 analyzes or searches the signal shown in the figure below differently depending on the Field Size and Enable MSB/LSB settings.



Analysis and Search Conditions

- Data: Eight-bit Segment
- Bit order: MSB First

Analysis Conditions		Analysis Results		
Field Size	Enable MSB/LSB	Data1	Data2	CS
4bit	3 to 0 (4bit)	C, 8	A, F	L
		Analysis: The data is analyzed in two four-bit segments. Search: The DL9000 searches for four bits from the comparison start field.		
6bit	5 to 0 (6bit)	3, 2	2, B	L
		Analysis: The data is analyzed in one six-bit segment. (The bits are split into one two-bit segment and one four-bit segment.) Search: The DL9000 searches for six bits from the comparison start field.		
8bit	5 to 0 (6bit)	0, 8	2, F	L
		Analysis: The six least significant bits of one eight-bit segment of the data are analyzed. (The bits are split into one two-bit segment and one four-bit segment.) Search: The DL9000 searches for the least significant six bits in an eight-bit segment from the comparison start field.		
12bit		Analysis and searching do not take place.		

1.5 UART Signal

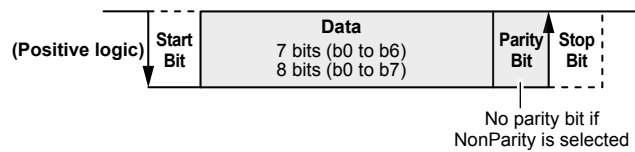
Universal Asynchronous Receiver Transmitter (UART) is an integrated circuit that performs serial-to-parallel conversion and parallel-to-serial conversion. UART is generally used in inter-device communication such as with EIA RS-232.

By using this feature, you will be able to analyze data while displaying UART signal waveforms.

The UART signal analysis feature consists of the following three main features.

Trigger ► For the procedure, see section 3.5

The trigger activates on the stop bit of all data frames. One of the following can be selected for the bit rate: 115200bps, 57600bps, 38400bps, 19200bps, 9600bps, 4800bps, 2400bps, 1200bps, or User.



The DL9000 Series digital oscilloscopes cannot trigger on the combination of UART signals and other signals.

Analysis ► For the procedure, see section 4.6

This feature analyzes the UART signal data and shows a list of the analysis results.

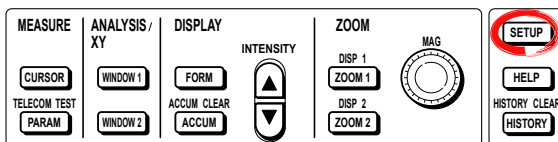
There are two types of analysis result lists: simple and detail. The simple list displays the analysis number, Data, and error status. The detail list displays the time from the trigger position in addition to the items displayed by the simple list. The data of the analysis result can be saved to an arbitrary storage medium in CSV format. You can select an arbitrary data in the analysis results list and automatically display the UART signal for that data (zoom link).

Search ► For the procedure, see section 5.6

This feature searches for data that matches a specific data pattern or error status in the UART signal data. When the search is executed, the zoom box moves to the data position where the conditions are met, and the data is displayed expanded in the zoom window (Zoom1 or Zoom2).

2.1 Executing Serial Bus Signal Auto Setup

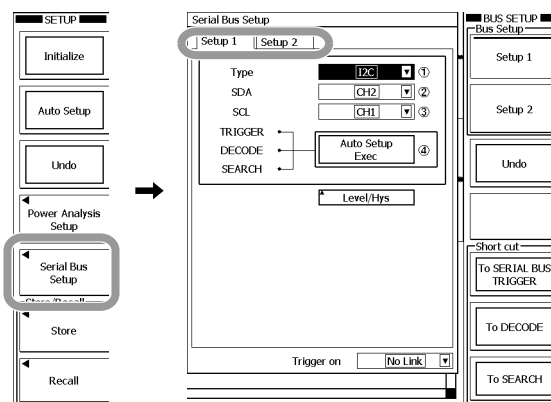
Procedure



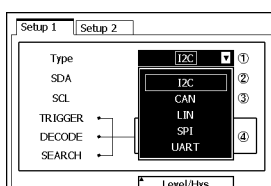
Selecting a Serial Bus Signal and Executing Auto Setup

Selecting a Serial Bus Signal

1. Press **SETUP**.
2. Press the **Serial Bus Setup** soft key
The BUS SETUP menu and a dialog box appear.
3. Use the **rotary knob** and **SET** to select the Setup 1 or Setup 2 tab.
You can also press the Setup 1 or Setup 2 soft key.



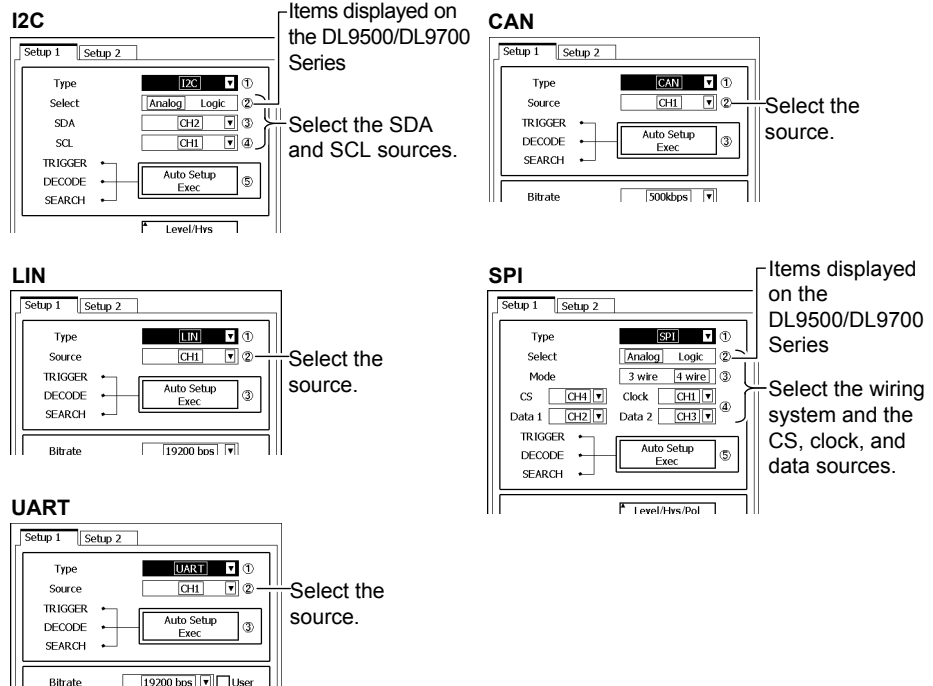
4. Use the **rotary knob** and **SET** to select the serial bus signal type from I2C to UART.



2.1 Executing Serial Bus Signal Auto Setup

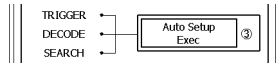
- Use the **rotary knob** and **SET** to set the items according to the selected serial bus signal type.

The selectable sources vary depending on the serial bus signal type.



Executing Auto Setup

- Use the **rotary knob** and **SET** to select Auto Setup Exec.
 - The serial bus signal auto setup is executed. Auto Setup Exec changes to Auto Setup Abort. To stop auto setup, select this using the **rotary knob** and **SET**.
 - When you execute auto setup, a link will automatically be established between the trigger feature and the serial bus setup that you select in step 3 (Setup 1 or Setup 2).

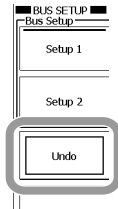


Note

You cannot execute auto setup when the serial bus signal type is set to SPI and the CS source is set to None.

Undoing Auto Setup

- Press the **Undo** soft key to set the settings back to the original values.



Adjusting the Settings after Auto Setup

- Use the rotary knob and SET to adjust the items.
The adjustable items vary depending on the serial bus signal type.

I2C

Items displayed on the DL9500/DL9700 Series

Set the level and hysteresis of the SDA and SCL sources.

CAN

Select this check box to set any bit rate in the given range.

Set the bit rate, level, hysteresis, recessive level, and sample point.

LIN

Set the bit rate, level, hysteresis, sample point, and revision.

SPI

Items displayed on the DL9500/DL9700 Series

Set the bit order.

UART

Select this check box to set any bit rate in the given range.

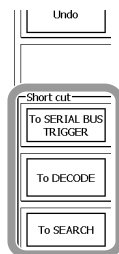
Set the bit rate, level, hysteresis, sample point, polarity, format, and bit order.

Set the level, hysteresis, and polarity of the CS, clock, and data sources.

If you set the wiring system to 3 wire, one Data item will appear, because there is one data source.

Using a Short Cut to Move to the Trigger, Analysis, or Search Menu

- Press the appropriate soft key from To SERIAL BUS TRIGGER to To SEARCH to select the feature you want to set in more detail.
The respective feature menu appears. For a detailed explanation of each feature, see the respective section indicated in "Explanation" in this section.



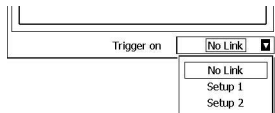
2.1 Executing Serial Bus Signal Auto Setup

Linking the Serial Bus Setup to the Trigger Feature

Carry out the step below to link the trigger feature to the serial bus setup.

Use the **rotary knob** and **SET** to set Trigger on to No Link, Setup 1, or Setup 2.

- If you select No Link, the link will be cut.
- If you select Setup 1 or Setup 2, the settings will be applied to the trigger settings.



Explanation

Some of the trigger, analysis, and search settings of the I²C, CAN, LIN, SPI, and UART serial bus signals can be automatically set up.

If you execute auto setup and the DL9000 detects a serial bus signal, the trigger, analysis, and search settings will automatically be set to values appropriate for the input signal.

Settings Necessary for Auto Setup

• Source

Select source signals* on which to perform auto setup according to the serial bus signal type.

I ² C	Select an SDA (serial data) source and an SCL (serial clock) source. If you set the Select box to Analog, select from CH1 to CH4. If you set the Select box to Logic, select from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L).
CAN	Select a source from CH1 to CH4.
LIN	Select a source from CH1 to CH4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
SPI	Select a CS (chip select) source, a clock source, and a data source. If you set the Select box to Analog, select from CH1 to CH4. If you set the Select box to Logic, select from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L).
UART	Select a source from CH1 to CH4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).

- * If you select a source from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7, set the threshold level. For the setup procedure, see section 5.18 in the *User's Manual IM701331-01E*.
If you select a source from M1 to M4, you will not be able to execute auto setup.

• Wiring System

Select the wiring system only in the case of an SPI serial bus signal.

3 wire	One data line
4 wire	Two data lines

Executing Auto Setup

If the DL9000 detects a serial bus signal, the trigger, analysis, and search settings will automatically be set to values appropriate for the input signal.

- If you select Setup 1 and execute auto setup, the settings in Decode Setup in the WINDOW 1 menu (Analysis 1) and the settings in Search Setup in the ZOOM 1 menu (Search 1) are set to the serial bus signal's type, source, and detection value (see the next page). The same holds true for Setup 2, the settings in Decode Setup in the WINDOW 1 menu (Analysis 2), and the settings in Search Setup in the ZOOM 2 menu (Search 2).

If you execute auto setup using Setup 1 or Setup 2, the trigger settings are also changed accordingly.

For details on the settings that are shared by auto setup, trigger, analysis, and search features, see section 2.2.

- The "Trigger on" box at the bottom of the dialog box displays the auto setup name (Setup 1 or Setup 2) that has been executed.

- For details on the trigger feature, see chapter 3. For details on the analysis and search features, see chapters 4 and 5.
- An error message will appear if the DL9000 fails to detect a serial bus signal.
- **Center Position after Auto Setup**
The center position after auto setup will be 0 V.
- **Waveforms That Were Displayed before Auto Setup**
If you execute auto setup, data in the acquisition memory will be overwritten, and waveforms that were displayed before auto setup will be cleared.

Undoing Auto Setup

You can revert to the settings before auto setup by pressing the Undo soft key. However, you cannot undo auto setup if you turn OFF the power, because the settings before auto setup will be discarded.

Items That Are Set to Default Values and Items That Are Set to Detected Values

When you execute auto setup, the items are set to default values or set to values that are detected from the signal as shown in the following table. Items that are not in the table maintain their current values.

I ² C		
Items set to default values	Mode	Every Start
	Hysteresis	0.6div
	Qualification	Don't care
Items that are set to detected values	SDA and SCL source levels	
CAN		
Items set to default values	Mode	SOF
	Hysteresis	0.6div
	Sample point	62.5%
Items that are set to detected values	Bit rate	
	Source level	
	Recessive level	
LIN		
Items set to default values	Mode	Break
	Hysteresis	0.6div
	Sample point	50.0%
Items that are set to detected values	Bit rate	
	Source level	
	Revision	
SPI		
Items set to default values	Hysteresis	0.6div
Items that are set to detected values	CS, clock, and data source levels	
UART		
Items set to default values	Mode	Every Data
	Hysteresis	0.6div
	Sample point	50.0%
Items that are set to detected values	Bit rate	
	Source level	
	Polarity	

2.1 Executing Serial Bus Signal Auto Setup

Signals That Auto Setup Can Be Used

Auto setup is possible on a serial bus signal when the following conditions are met.

Voltage	Amplitude greater than or equal to 200 mV (when the probe attenuation is set to 1:1)
Bit rate	Greater than or equal to 1200 bps
Frames	At least 5 frames over 10 seconds

Note

- Measurement will only be correct if the probe attenuation ratio is set properly. Be sure to set the probe attenuation ratio properly before executing auto setup. For the setup procedure, see section 6.6 in the *User's Manual IM701310-01E* or *IM701331-01E*.
- If you select a source from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7, the voltage amplitude must exceed the threshold level. For operating instructions, see section 5.18 in the *User's Manual IM701331-01E*.

Adjusting Settings after Auto Setup

You can adjust the items according to the serial bus signal type. For the selectable ranges, see the referenced sections.

I ² C	SDA and SCL source levels and hysteresis See "Explanation" in section 4.2.
CAN	Source signal's bit rate, level, hysteresis, recessive level, and sample point See "Explanation" in section 4.3.
LIN	Source signal's bit rate, level, hysteresis, sample point, and revision See "Explanation" in section 4.4.
SPI	Bit order; CS, clock, and data source levels, hysteresis, and polarities See "Explanation" in section 4.5.
UART	Source signal's bit rate, level, hysteresis, sample point, polarity, format, and bit order See "Explanation" in section 4.6.

Trigger, Analysis, and Search Features

For the procedure on how to use the trigger, analysis, and search features, see the referenced sections below.

	Trigger	Analysis	Search
I ² C	Section 3.1	Section 4.2	Section 5.2
CAN	Section 3.2	Section 4.3	Section 5.3
LIN	Section 3.3	Section 4.4	Section 5.4
SPI	Section 3.4	Section 4.5	Section 5.5
UART	Section 3.5	Section 4.6	Section 5.6

Linking the Auto Setup, Analysis, and Search Settings to the Trigger Feature

To share auto setup, analysis, and search settings with the trigger feature, you must link the trigger feature to the auto setup.

- If you execute auto setup, a link will automatically be established to Setup 1 or Setup 2, whichever auto setup that you executed.
- If you select No Link, the settings will not be linked between the trigger feature and the auto setup, analysis, and search features.

For details, see section 2.2.

2.2 Sharing of the Serial Bus Signal's Trigger, Analysis, Search Settings

The DL9000 shares the trigger, analysis, and search settings. If you change a setting in one feature, the corresponding setting will also change in the other features.

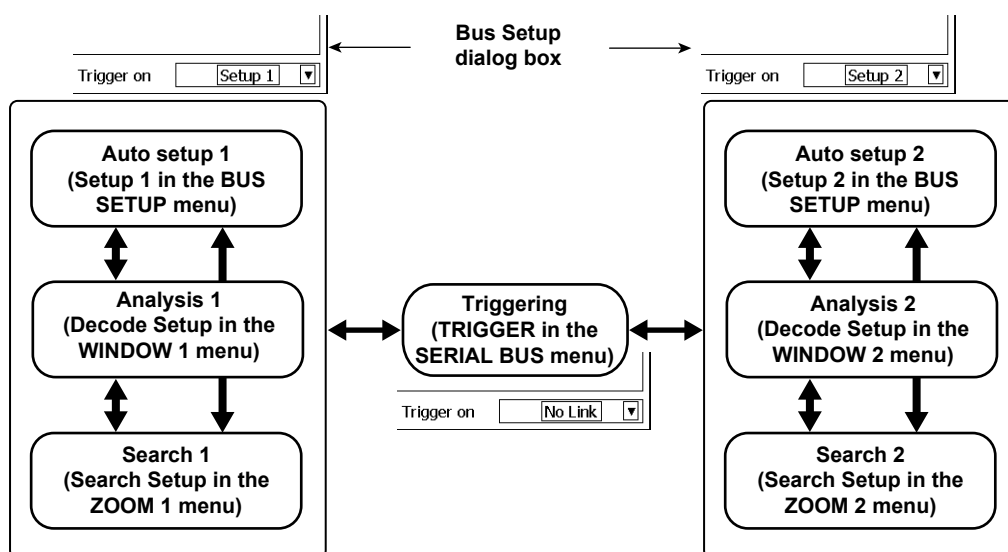
How Auto Setup Affects Trigger, Analysis, and Search Settings

• How Auto Setup Affects Analysis and Search Settings

- If you select Setup 1 and execute auto setup, the settings in Decode Setup in the WINDOW 1 menu (Analysis 1) and the settings in Search Setup in the ZOOM 1 menu (Search 1) will be set to the serial bus signal's type, source, and detection value (see the page 2-5). The same holds true for Setup 2, the settings in Decode Setup in the WINDOW 1 menu (Analysis 2), and the settings in Search Setup in the ZOOM 2 menu (Search 2).

• How Auto Setup Affects Trigger Settings

- If you select Setup 1 and execute auto setup, the trigger settings (SERIAL BUS menu under TRIGGER) will be set to the serial bus signal's type, source, and detected values (see page 2-5). At the same time, the Trigger on box at the bottom of the Bus Setup dialog box will display the auto setup name Setup 1. The same holds true for Setup 2.
- If you select Setup 1 from the Trigger on list, the trigger settings will be set to the auto setup 1 settings. The same holds true for Setup 2.



How Analysis and Search Settings Affect Auto Setup and Trigger Settings

• How Analysis and Search Settings Affect Auto Setup Settings

If you change settings for Analysis 1 or Search 1, the corresponding settings in auto setup 1 will change. The same holds true for Analysis 2 and Search 2.

• How Analysis and Search Settings Affect Trigger Settings

- If Setup 1 is selected in the Trigger on list and you change the settings for Analysis 1 or Search 1, the corresponding trigger settings will change. Changing the settings for Analysis 2 or Search 2 will not affect the trigger settings. Likewise, If Setup 2 is selected in the Trigger on list and you change the settings for Analysis 2 or Search 2, the corresponding trigger settings will change. Changing the settings for Analysis 1 or Search 1 will not affect the trigger settings.
- If No Link is selected in the Trigger on list, changing the settings for Analysis 1 or 2 or for Search 1 or 2 will not affect the trigger settings.

2.2 Sharing of the Serial Bus Signal's Trigger, Analysis, Search Settings

How Trigger Settings Affect Auto Setup, Analysis, and Search Settings

- If Setup 1 is selected in the Trigger on list and you change the trigger settings, the corresponding Auto Setup 1, Analysis 1, and Search 1 settings will change. Auto Setup 2, Analysis 2, and Search 2 settings will not be affected. Likewise, If Setup 2 is selected in the Trigger on list and you change the trigger settings, the corresponding Auto Setup 2, Analysis 2, and Search 2 settings will change. Auto Setup 1, Analysis 1, and Search 1 settings will not be affected.
- If No Link is selected in the Trigger on list, changing the trigger settings will not affect any of the Auto Setup, Analysis, and Search settings.

Note

Even if Setup 1 or Setup 2 is selected in the Trigger on list, if you select a trigger type other than I²C, CAN, LIN, SPI, or UART, the Trigger on list will be set to No Link. In particular, Trigger on will change to No Link if

- You select TV or Serial in the ENHANCED menu under TRIGGER.
- You press EDGE/STATE, WIDTH, or EVENT INTERVAL on the front panel.

Common Items

The table below indicates the shared serial bus signal items by trigger type.

Trigger Type	I ² C	CAN	LIN	SPI	UART
Trigger type (Type)	Changes to the selected trigger type menu.				
Source	Yes	Yes	Yes	Yes	Yes
Bit rate (Bitrate)	No	Yes	Yes	No	Yes
Level	Yes	Yes	Yes	Yes	Yes
Hysteresis (Hys)	Yes	Yes	Yes	Yes	Yes
Sample point	No	Yes	Yes*	No	Yes*
Recessive level	No	Yes	No	No	No
Revision	No	No	Yes*	No	No
Polarity/active	No	No	No	Yes	Yes
Bit order	No	No	No	Yes	Yes*
Wiring system (Mode)	No	No	No	Yes	No
Format	No	No	No	No	Yes
Parity	No	No	No	No	Yes*

Yes: Shared item; No: Item not available

* The trigger feature does not have a setup menu.

Note

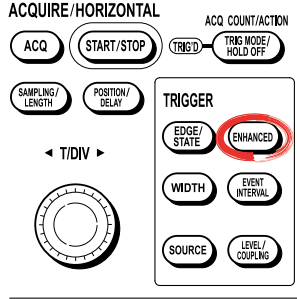
When a setup data file is loaded, the way in which the loaded settings are applied to the items shared among different serial bus trigger types varies depending on the firmware version as follows:

- On products with firmware version earlier than 4.20, the level and hysteresis settings are stored separately for Analysis 1, Search 1, Analysis 2, and Search 2 to the setup data file. If you load this file into a product with firmware version 4.20 or later, the Analysis 1 settings are applied to Analysis 1 and Search 1 settings, and the Analysis 2 settings are applied to the Analysis 2 and Search 2 settings.
- On a product with firmware version earlier than 4.20, the Analysis 2 and Search 2 settings shown in the following table are saved separately to the setup data file. If this file is loaded into a product with firmware version 4.20 or later, the Analysis 2 settings are applied to the Analysis 2 and Search 2 settings. The Analysis 1 and Search 1 settings shown in the following table are the same regardless of the firmware version.

I ² C	SDC and SCL sources
CAN	Bit rate, sample point, recessive level, and source
LIN	Bit rate and source
SPI	Mode, bit order, and CS, clock, and data source levels

3.1 Triggering on an I²C Bus Signal

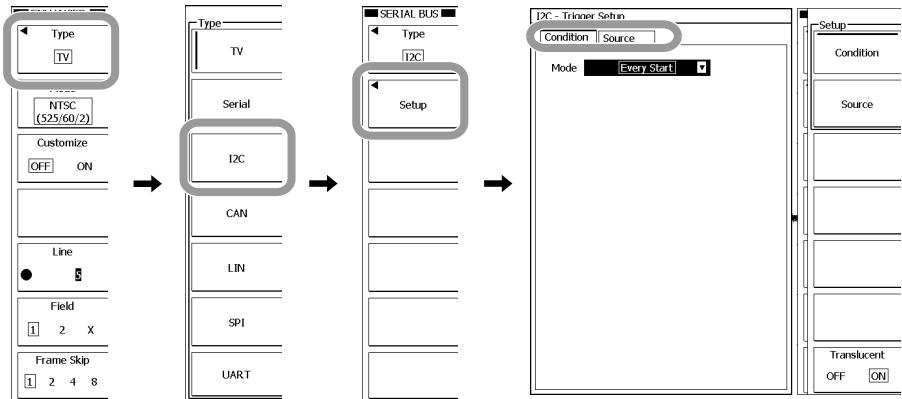
Procedure



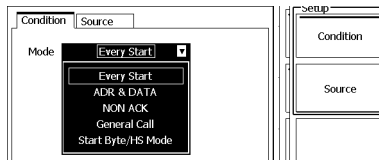
1. Press **ENHANCED**.
2. Press these soft keys: **Type > I2C > Setup**.
The Setup dialog box appears.

Selecting the Mode

3. Use the **rotary knob** and **SET** to select the Condition tab.
You can also press the Condition soft key to select the tab.



4. Use the **rotary knob** and **SET** to select the mode from Every Start to Start Byte/HS Mode.



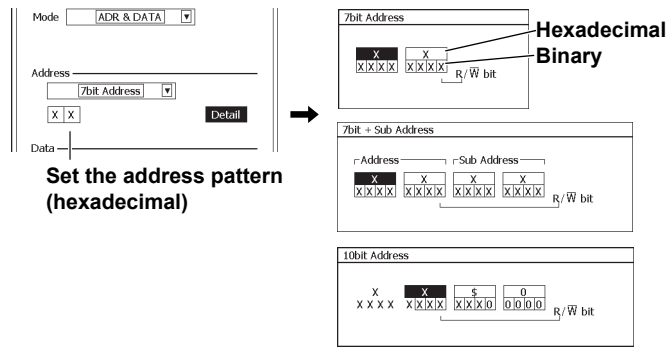
Proceed to the steps on the pages indicated below according to the selected mode.

- Every Start: Step 10 on page 3-4
- ADR & DATA: Step 5 on page 3-2
- NON ACK: Step 5 on page 3-3
- General Call: Step 6 on page 3-3
- Start Byte/HS Mode: Step 8 on page 3-3

When the Mode Is ADR & DATA

• **Setting the Address Trigger Condition**

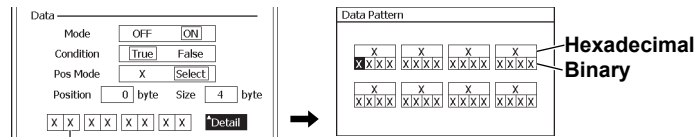
5. Use the **rotary knob** and **SET** to select the address type from 7bit Address to 10bit Address.
6. Use the **rotary knob** and **SET** to set the address pattern to compare with. You can also set the address pattern by selecting Detail to open a dialog box and use the **rotary knob** and **SET** and soft keys. When you are done setting the address pattern, press **ESC** to return to the previous screen.



Set the address pattern (hexadecimal)

• **Setting the Data Trigger Condition**

7. Use the **rotary knob** and **SET** to set the mode to ON or OFF. Select ON to enable the trigger condition. Select OFF to disable the trigger condition. If you select OFF, proceed to step 10 on page 3-4.
8. Use the **rotary knob** and **SET** to set the condition to True or False, set Pos Mode to X or Select, and set the position and size.
9. Use the **rotary knob** and **SET** to set the data pattern to compare with. You can also set the data pattern by selecting Detail to open a dialog box and use the **rotary knob** and **SET** and soft keys. When you are done setting the data pattern, press **ESC** to return to the previous screen.



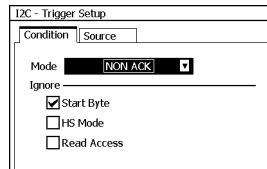
Set the data pattern (hexadecimal)

Proceed to step 10 on page 3-4.

When the Mode Is NON ACK

- Use the **rotary knob** and **SET** to select the Nack bits to ignore from Start Byte to Read Access.

The Nack bits whose check box is selected will not be used as trigger conditions. The trigger condition is met when the DL9000 detects any of the Nack bits whose check box is not selected.



Proceed to step 10 on page 3-4.

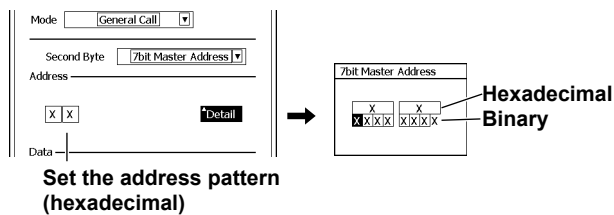
When the Mode Is General Call

- Setting the Second Byte Trigger Condition

- Use the **rotary knob** and **SET** to select the second byte format from X to 7bit Master Address.

If you select X, 0000 0100, or 0000 0110, proceed to step 10 on page 3-4.

- Use the **rotary knob** and **SET** to set the address pattern to compare with. You can also set the address pattern by selecting Detail to open a dialog box and use the **rotary knob** and **SET** and soft keys. When you are done setting the address pattern, press **ESC** to return to the previous screen.



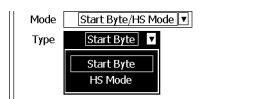
- Setting the Data Trigger Condition

Set the trigger condition according to steps 7 to 9 on the previous page.

Proceed to step 10 on page 3-4.

When the Mode Is Start Byte/HS Mode

- Use the **rotary knob** and **SET** to set the type (master code) to Start Byte or HS Mode.



Proceed to step 10 on page 3-4.

3.1 Triggering on an I²C Bus Signal

Setting the SDA, SCL, and Qualification

10. Use the **rotary knob** and **SET** to select the Source tab.
You can also press the Source soft key to select the tab.
If you are using the DL9040/DL9140/DL9240 Series, proceed to step 12.
11. Use the **rotary knob** and **SET** to set Select to Analog or Logic.
If you are using the DL9500/DL9700 Series, carry out this step.

Setting the SDA Source

12. Use the **rotary knob** and **SET** to select the SDA (serial data) source.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4.
 - On the DL9500/DL9700 Series:
 - If you selected Analog in step 11, select the source from CH1 to CH4.
 - If you selected Logic in step 11, select the source from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L).

Setting the SCL Source

13. Use the **rotary knob** and **SET** to select the SCL (serial clock) source.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4.
 - On the DL9500/DL9700 Series:
 - If you selected Analog in step 11, select the source from CH1 to CH4.
 - If you selected Logic in step 11, select the source from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L).

Setting the Qualification

14. Use the **rotary knob** and **SET** to set the logic to AND or OR.
15. Use the **rotary knob** and **SET** to set the state of signals other than those selected for the SDA and SCL to H, L, or X.
On the DL9500/DL9700 Series, if you selected Logic in step 11, select Qualification. In the dialog box that appears, use the **rotary knob** and **SET** to select H, L, or X. When you are done setting the states, press **ESC** to return to the previous screen.

Setting the Trigger Level and Hysteresis

Set the trigger level and hysteresis if you are using the DL9500/DL9700 Series and you selected Analog in step 11, or if you are using the DL9040/DL9140/DL9240 Series.

16. Use the **rotary knob** and **SET** to select Setup under Level/Hys.
The Level/Hys dialog box appears.
17. Use the **rotary knob** and **SET** to set the level and hysteresis for each source.

On the DL9040/DL9140/DL9240 Series

On the DL9500/DL9700 Series

You can select the status of the CH1 to CH4 signals except for the channels selected for SDA and SCL.

When Analog is selected in step 11

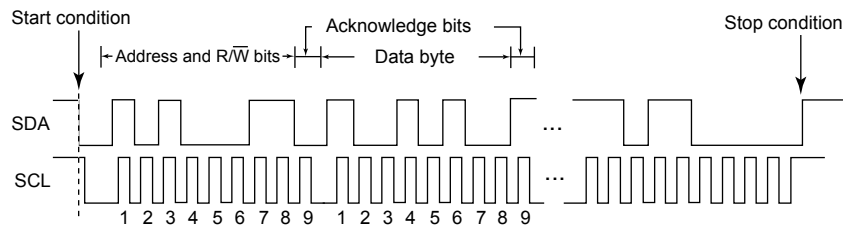
When Logic is selected in step 11

	7	6	5	4	3	2	1	0
Pod A	A7	A6	A5	A4	A3	A2	A1	A0
Pod B	B7	B6	B5	B4	B3	B2	B1	B0
Pod C	C7	C6	C5	C4	C3	C2	C1	C0
Pod D	D7	D6	D5	D4	D3	D2	D1	D0

You can set the status of the A0 to A7, B0 to B7, C0 to C7, and D0 to D7 signals (A0 to A7 and C0 to C7 on the DL9505L/DL9510L) excluding the signals that are assigned to SDA and SCL sources.

Explanation

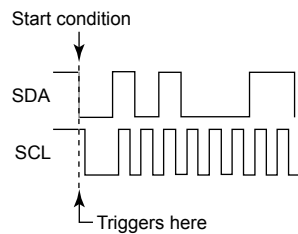
This feature triggers on I²C bus signals. The following figure shows the data format of I²C bus signals.

**Mode**

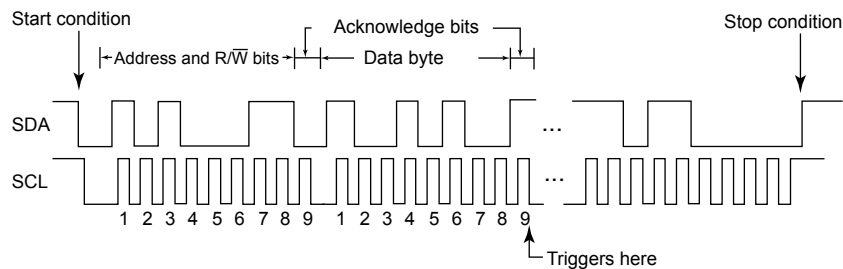
Select the I²C trigger mode from Every Start, ADR & DATA, NON ACK, General Call, and Start Byte/HS Mode.

Every Start Mode

When a start condition is detected, the DL9000 triggers on the falling edge of the SDA signal.

**ADR & DATA Mode**

When the address and data values match, the DL9000 triggers on the falling edge of the 9th SCL signal clock.

**• Address**

- You can set the address type to 7bit Address, 7bit + Sub Address, or 10bit Address.
- Set the address pattern in hexadecimal or binary notation. The address trigger condition is met when the specified address pattern matches the input signal address pattern.
 - If you specify X, the condition is assumed to be met regardless of the corresponding bit status.
 - If a binary pattern contains any Xs, the corresponding hexadecimal display will be "\$."

3.1 Triggering on an I²C Bus Signal

- **Data**

You can select whether or not to use the data pattern as a trigger condition.

- **Comparison Condition**

The data trigger condition is met when the result of comparing the input signal pattern with the specified pattern meets the selected comparison condition.

True	When the patterns match
False	When the patterns don't match

- **Comparison Start Position**

In the Pos Mode setting, you can set the comparison start point to the specified point (Select) or don't care (X). If you select Select, the DL9000 skips the specified number of bytes and starts comparing from the next data byte.

Selectable range: 0 to 9999 bytes

- **Data Size**

Set how many consecutive data bytes you want to compare.

Selectable range: 1 to 4 bytes

- **Data Pattern**

Set the data pattern for the specified size in hexadecimal or binary notation.

- If you specify X, the condition is assumed to be met regardless of the corresponding bit status.

- If a binary pattern contains any Xs, the corresponding hexadecimal display will be "\$."

- **Example**

This example displays the data sequence at the byte level (hexadecimal notation) and indicates the trigger position. The following notations are used in the figure.

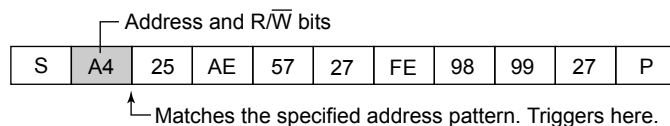
S: Start condition, P: Stop condition, Shading: Compared pattern

Trigger only on the address pattern

Mode	ADR & DATA
------	------------

Address	7bit address, A4
---------	------------------

Data	Mode: OFF
------	-----------



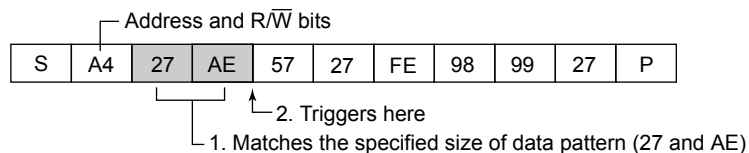
Trigger only on the data pattern

Mode	ADR & DATA
------	------------

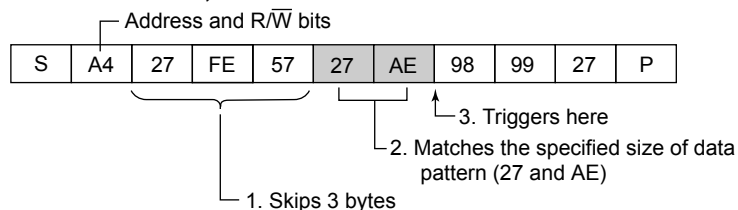
Address	Don't care
---------	------------

Data	Mode: ON, Condition: True, Size: 2 bytes, Data pattern: 27 and AE
------	---

< Pos Mode: X >

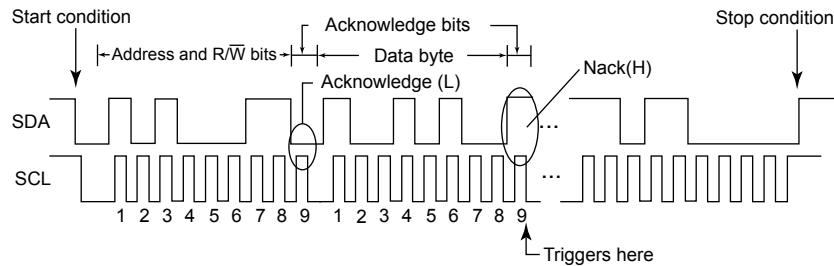


< Pos Mode: Select, Position: 3 >



NON ACK Mode

The DL9000 triggers when the acknowledge bit is Nack (when the SDA signal is high). You can select whether use or ignore the following acknowledge bits for triggering: start byte, HS mode master code, and read access byte.



General Call Mode

The DL9000 triggers on the general call address (0000 0000).

• **Second Byte**

You can use the second byte address pattern (the byte after the general call address) as a trigger condition. The second byte trigger condition is met when the specified pattern matches the input signal pattern.

X	Not used as a trigger condition
0000 0100	When the input signal pattern matches the pattern 0000 0100 (0x04)
0000 0110	When the input signal pattern matches the pattern 0000 0110 (0x06)
7bit Master Address	When the input signal pattern matches the specified pattern If you select 7bit Master Address, you can use the data pattern as a trigger condition as described in the next section.

• **Data**

The conditions and settings are the same as those explained on page 3-6. See the respective item for details.

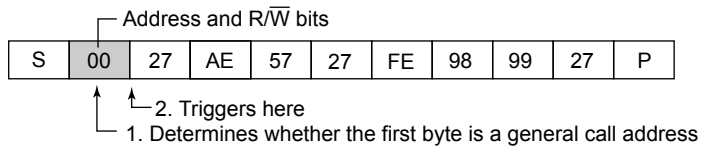
• **Example**

This example displays the data sequence at the byte level (hexadecimal notation) and indicates the trigger position. The following notations are used in the figure.

S: Start condition, P: Stop condition, Shading: Compared pattern

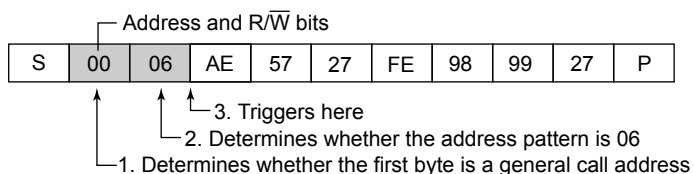
Trigger only on the general call address

Mode	General Call
Second Byte	X



Trigger when the second byte address is 06

Mode	General Call
Second Byte	0000 0110

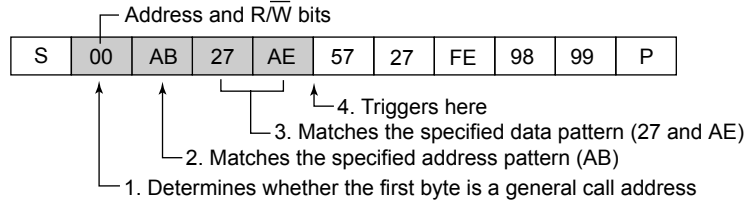


3.1 Triggering on an I²C Bus Signal

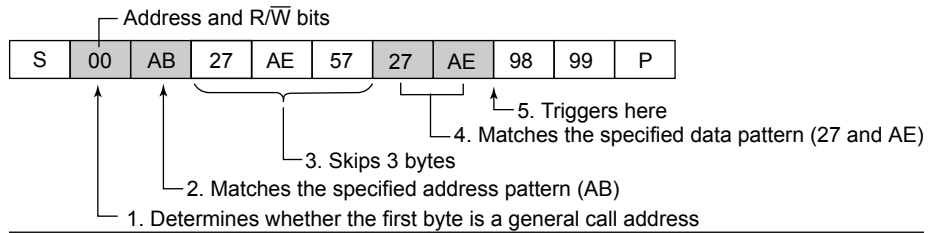
Trigger when the second byte address matches the specified pattern

Mode	General Call
Second Byte	7bit Master Address, address pattern: 1010 1011 (0xAB)
Data	Mode: ON, Condition: True, Size: 2 bytes, Data pattern: 27 and AE

< Pos Mode: X >



< Pos Mode: Select, Position: 3 >

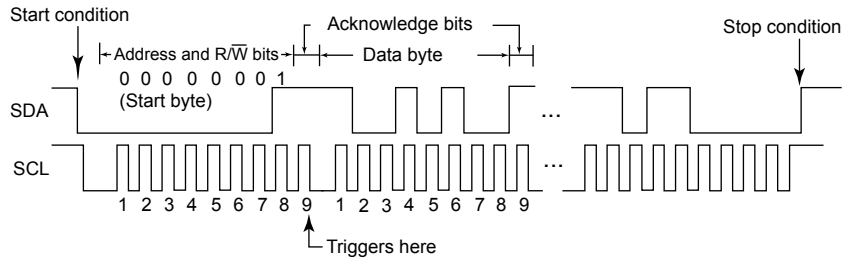


Start Byte/HS Mode

The DL9000 triggers on the start byte or the HS mode master code.

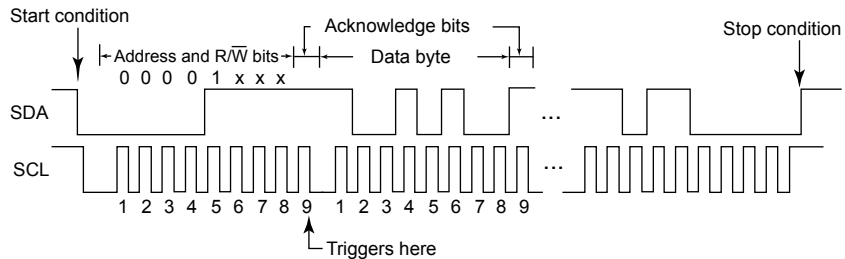
• Start Byte

The DL9000 triggers on a start byte (pattern: 0000 0001).



• HS Mode

The DL9000 triggers on the HS (high-speed) mode master code (pattern: 0000 1XXX).



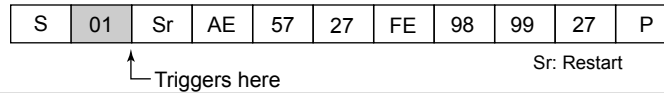
- **Example**

This example displays the data sequence at the byte level (hexadecimal notation) and indicates the trigger position. The following notations are used in the figure.

S: Start condition, P: Stop condition, Shading: Compared pattern

Trigger on a start byte

Mode	Start Byte/HS Mode
Type	Start byte



SDA, SCL, and Qualification

SDA and SCL Sources

You can select the serial data (SDA) and serial clock (SCL) sources.

- On the DL9040/DL9140/DL9240 Series, select the sources from CH1 to CH4.
- On the DL9500/DL9700 Series, select the sources from CH1 to CH4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).



Trigger Level

You can set the I²C bus signal trigger level for CH1 to CH4 separately.

- The selectable range is 8 divisions within the screen. The resolution is 0.01 divisions. For example, if the T/div setting is 2 mV/division, the resolution is 0.02 mV.
- You can reset the trigger level to the current offset voltage by pressing RESET.
- If the source is set to a signal from A0 to D7, the trigger level is the threshold level that you set according to the instructions in section 5.18 of the *User's Manual IM701331-01E*.

Hysteresis

Hysteresis specifies a voltage range above and below the trigger level to prevent the DL9000 from triggering on minute voltage fluctuations.

	Specifies a hysteresis of approximately 0.3 divisions around the trigger level.*
	Specifies a hysteresis of approximately 1 division around the trigger level.*

* The values above are typical. They are not strictly warranted.

Qualification and Logic

- **Qualification**

Set the state of signals other than those selected for the SDA and SCL to H, L, or X. This trigger requirement is called qualification requirement. The qualification requirement is met when the selected state matches the input signal state.

H	When the input signal is high
L	When the input signal is low
X	Not used as a trigger condition (Don't care)

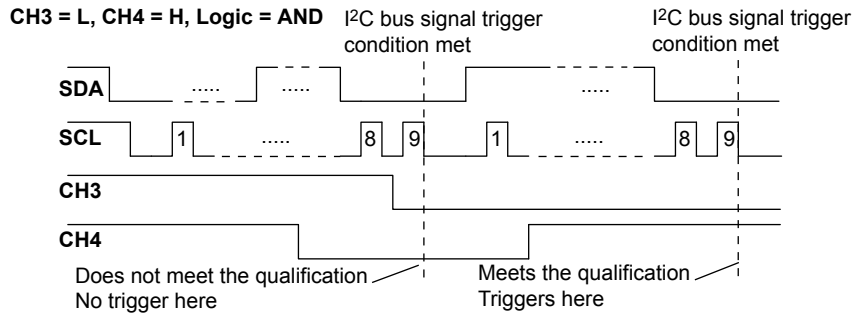
* The level for determining high or low is the trigger level that you set above when you set the signal to a channel from CH1 to CH4. If the source is set to a signal from A0 to D7, the trigger level is the threshold level that you set according to the instructions in section 5.18 of the *User's Manual IM701331-01E*.

3.1 Triggering on an I²C Bus Signal

- **Logical Condition**

You can select the logical condition for the qualification and the trigger condition for the I²C bus signal that you set in each mode. When the logical condition is met, the DL9000 triggers.

AND	When the qualification and the I ² C bus signal trigger condition are both met
OR	When either the qualification or the I ² C bus signal trigger condition is met



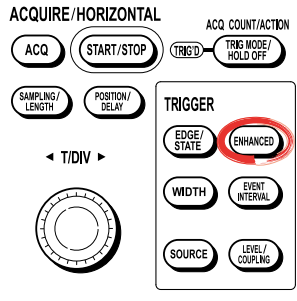
Note

To trigger only on the I²C bus signal trigger condition (SDA and SCL signals), specify the settings as follows:

- The state of signals other than those selected for the SDA and SCL: X (don't care)
 - Logic: AND
-

3.2 Triggering on a CAN Bus Signal

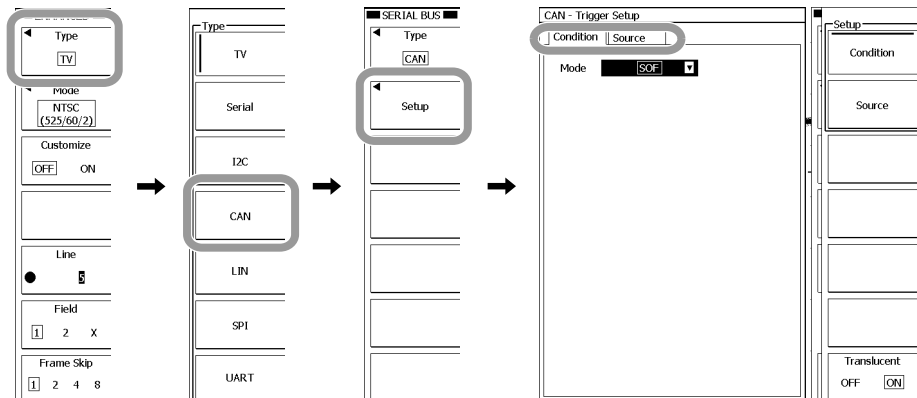
Procedure



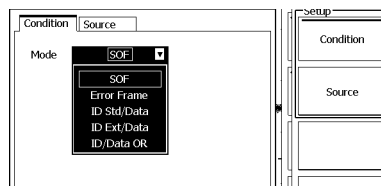
1. Press **ENHANCED**.
2. Press these soft keys: **Type > CAN > Setup**.
The Setup dialog box appears.

Selecting the Mode

3. Use the **rotary knob** and **SET** to select the Condition tab.
You can also press the Condition soft key to select the tab.



4. Use the **rotary knob** and **SET** to select the mode from SOF to ID/Data OR.



Proceed to the steps on the pages indicated below according to the selected mode.

- SOF: Step 12 on page 3-15
- Error Frame: Step 12 on page 3-15
- ID Std/Data: Step 5 on page 3-12
- ID Ext/Data: Step 5 on page 3-12
- ID/Data OR: Step 5 on page 3-14

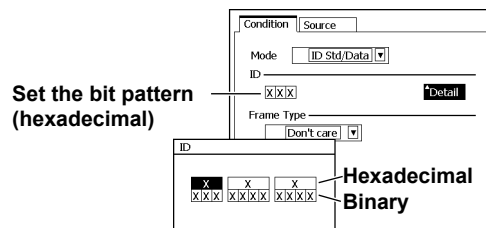
3.2 Triggering on a CAN Bus Signal

When the Mode Is ID Std/Data or ID Ext/Data

This section will explain the procedure using ID Std/Data mode as an example. The procedure is the same for ID Ext/Data mode.

- **Setting the ID Bit Pattern Trigger Condition**

5. Use the **rotary knob** and **SET** to set the bit pattern to compare with.
You can also set the bit pattern by selecting Detail to open a dialog box and use the **rotary knob** and **SET** and soft keys. When you are done setting the bit pattern, press **ESC** to return to the previous screen.



- **Setting the Frame Type Trigger Condition**

6. Use the **rotary knob** and **SET** to select the Frame Type comparison condition from Don't care to Data.
If you select Don't care or Remote, proceed to step 11 on page 3-13.
7. Use the **rotary knob** and **SET** to set the DLC.



- **Setting the Data Trigger Condition**

8. Use the **rotary knob** and **SET** to select the data comparison condition from Don't care to Out of Range.
 - If you select Don't care, proceed to step 11 on page 3-13.
 - If you select a condition from Greater to Out of Range, proceed to step 10.
9. Use the **rotary knob** and **SET** to set the data pattern to compare with.
You can also set the data pattern by selecting Detail to open a dialog box and use the **rotary knob** and **SET** and soft keys. When you are done setting the data pattern, press **ESC** to return to the previous screen.

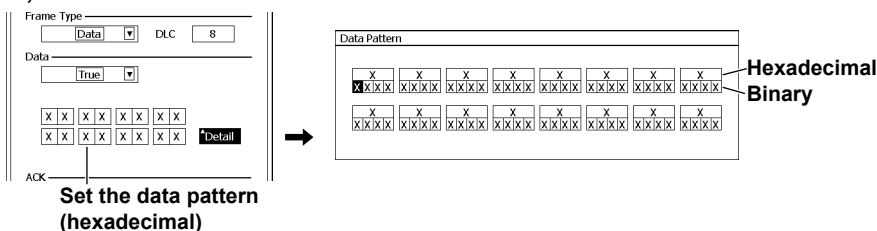
10. Use the rotary knob and SET to set the data to compare in each entry box.
Set each item according to the comparison condition you selected in step 8.

Comparison Condition	Setting				
	Detail	Data(Dec)	Byte Order	Sign	MSB/LSB
True, False	Yes	–	–	–	–
Greater/Equal, Less/Equal	–	Yes ¹	Yes	Yes	Yes
Between, Out of Range	–	Yes ²	Yes	Yes	Yes

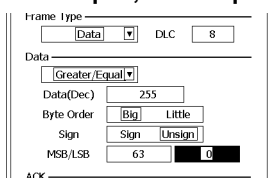
Yes: Set, –: Not set

- Detail: Data pattern (hexadecimal or binary)
- Data(Dec): Reference value (decimal)
 - 1 Set one reference value.
 - 2 Set two reference values to define a reference range. Set the lower limit in the left entry box and the upper limit in the right entry box.
- Byte Order: Data order
- Sign: Signed or unsigned
- MSB/LSB: Most significant and least significant bit positions
Set the MSB in the left entry box and the LSB in the right entry box.

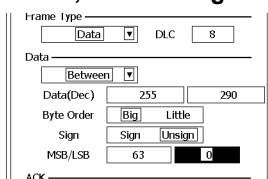
True, False



Greater/Equal, Less/Equal



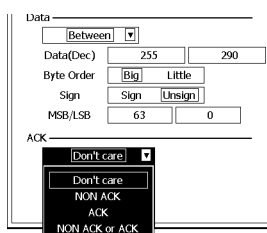
Between, Out of Range



- **Setting the ACK Trigger Condition**

11. Use the rotary knob and SET to select the ACK condition from Don't care to NON ACK or ACK.

If you select Don't care, it will not be used as a trigger condition.

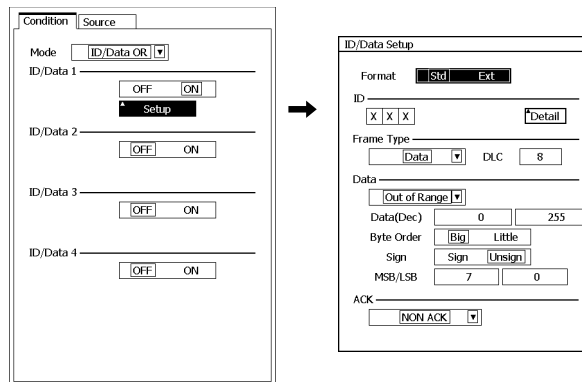


Proceed to step 12 on page 3-15.

When the Mode Is ID/Data OR

Setting the ID/Data 1 to ID/Data 4 Trigger Conditions

5. Use the **rotary knob** and **SET** to set ID/Data 1 to ON or OFF.
Select ON to enable the trigger condition. Select OFF to disable the trigger condition.
If you select OFF, proceed to step 10.
6. Use the **rotary knob** and **SET** to select ID/Data 1 Setup.
The ID/Data Setup dialog box appears.
7. Use the **rotary knob** and **SET** to set the format to Std or Ext.
8. Use the **rotary knob** and **SET** to set the ID, Frame Type, Data, and ACK trigger conditions.
For the procedure to set each condition, see pages 3-12 and 3-13.
9. Press **ESC** to return to the previous screen.



10. Likewise, set ID/Data2 to ID/Data4 according to steps 5 to 9.

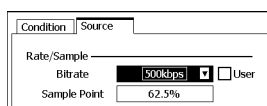
Proceed to step 12 on page 3-15.

Setting the Source Bit Rate, Sample Point, Trigger Level, Hysteresis, and Recessive Level

- 12.** Use the **rotary knob** and **SET** to select the Source tab.
You can also press the Source soft key to select the tab.

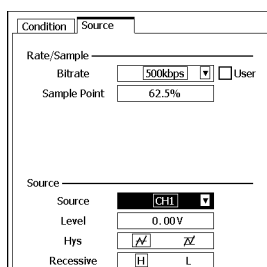
Setting the Bit Rate and Sample Point

- 13.** Use the **rotary knob** and **SET** to select the bit rate from 1Mbps to 33.3kbps.
If you select the **User** check box, you will be able to set the bit rate from 10.0kbps to 1.000Mbps using the **rotary knob** and **SET**.
- 14.** Use the **rotary knob** and **SET** to set the sample point to a value from 18.8 to 90.6%.



Setting the Trigger Level, Hysteresis, and Recessive Level

- 15.** Use the **rotary knob** and **SET** to select the source from CH1 to CH4.
- 16.** Use the **rotary knob** and **SET** to set the level and hysteresis.
- 17.** Use the **rotary knob** and **SET** to set Recessive to H or L.



Explanation

This feature triggers on CAN bus signals. For details on the CAN bus signal frame format, see page 3-20.

Mode

Set the CAN trigger mode to SOF, Error Frame, ID Std/Data, ID Ext/Data, or ID/Data OR.

SOF Mode

Triggers on the start of a CAN bus signal frame.

SOF: Start of Frame

Error Frame Mode

The DL9000 triggers when the error frame's error flag is active.

ID Std/Data and ID Ext/Data Modes

ID Std/Data mode is used to trigger on the data frame or remote frame in standard format.

ID Ext/Data mode is used to trigger on the data frame or remote frame in extended format.

The DL9000 triggers on the AND logic of ID, Frame Type, Data, and ACK conditions. The settings in ID Std/Data mode are shared with the settings in ID Ext/Data mode.

• **ID**

Set the ID bit pattern in hexadecimal or binary notation. The ID bit pattern is 11 bits in standard format and 29 bits in extended format. The ID trigger condition is met when the specified bit pattern matches the input signal ID bit pattern.

- If you specify X, the condition is assumed to be met regardless of the corresponding bit status.
- If a binary pattern contains any Xs, the corresponding hexadecimal display will be "\$."

• **Frame Type**

The DL9000 can be configured to trigger on the remote frame or data frame.

- **Selecting the Frame**

A CAN bus signal frame contains a Remote Transmission Request (RTR) bit that indicates whether the frame is a remote frame or a data frame. Select the frame that the DL9000 will trigger on.

Don't care	The DL9000 will trigger on both remote frames and data frames.
Remote	The DL9000 will trigger on remote frames.
Data Frame	The DL9000 will trigger on data frames.

If you select Don't care or Remote, the DLC and Data trigger conditions in the next section will be ignored.

- **DLC (Data Length Code)**

Set the data field length. The DLC trigger condition is met when the input signal DLC value matches the reference value. Set this value only when the frame type is set to Data Frame.

Selectable range: 0 to 8 bytes

If you set this value to zero, the data trigger conditions in the next section will be ignored.

• **Data**

You can use the Data Field value as a trigger condition. Set this value only when the frame type is set to Data Frame.

• **Comparison Condition**

The data trigger condition is met when the result of comparing the input signal Data Field value with the reference value meets the selected comparison condition.

Don't care	Not used as a trigger condition
True	When the input signal value meets the reference value
False	When the input signal value does not match the reference value
Greater/Equal	When the input signal value is greater than or equal to the reference value
Less/Equal	When the input signal value is less than or equal to the reference value
Between	When the input signal value is within the reference range that includes the boundary reference values
Out of Range	When the input signal value is outside the reference range that excludes the boundary reference values

• **Data Pattern**

Set the data pattern for the length specified by DLC in hexadecimal or binary notation. The data pattern is valid only when the comparison condition is set to True or False.

- If you specify X, the condition is assumed to be met regardless of the corresponding bit status.
- If a binary pattern contains any Xs, the corresponding hexadecimal display will be "\$."

• **Reference Value Data(Dec)**

- If you set the comparison condition to Greater/Equal or Less/Equal, set one reference value.
- If you select Between or Out of Range, set two reference values to define a reference range. The values are automatically adjusted so that the lower limit is less than or equal to the upper limit.
- If the comparison condition is True or False, the data pattern is used as the reference value.

• **Selectable range**

Set the selectable range in decimal notation.

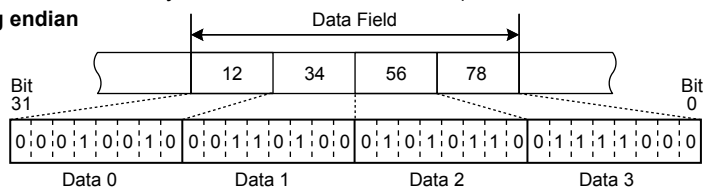
Unsigned	0 to 9E+18 The selectable maximum value is limited by the data length and bit position that are determined by the DLC and MSB/LSB settings, respectively.
Signed	-9E+18 to 9E+18 The selectable minimum and maximum values are limited by the data length and bit position that are determined by the DLC and MSB/LSB settings, respectively.

The value is displayed in exponential notation when it exceeds 7 digits (example: 1234567E+10).

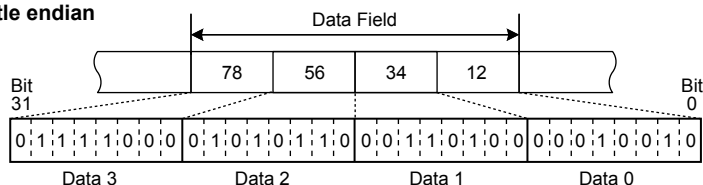
• **Byte Order**

Set the data byte order to big endian or little endian. For example, the following figure shows a 4-byte data stream on the bus (12345678 in hexadecimal notation).

Big endian



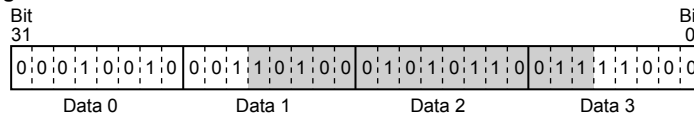
Little endian



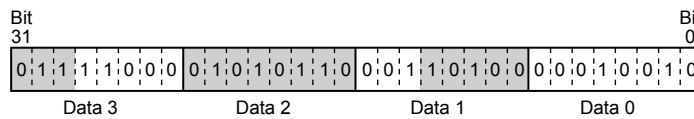
3.2 Triggering on a CAN Bus Signal

- **Sign**
Select whether or not to add a sign to the data.
The selectable range for the data reference value varies depending on this setting.
- **MSB/LSB**
Set the MSB and LSB positions in the data to compare. For example, to compare bits 5 to 20 in a 4-byte data stream (12345678 in hexadecimal notation), set the MSB to 20 and the LSB to 5. The shaded sections in the following figure indicate the bits that will be compared depending on the byte order setting.
Selectable range: 0 to the data size bytes × 8 – 1. The maximum value is 63.

Big endian



Little endian



- **ACK**

You can use the ACK slot status as a trigger condition. The ACK trigger condition is met when the selected status matches the input signal ACK slot status.

Don't care	Not used as a trigger condition
NON ACK	When the status is recessive
ACK	When the status is dominant
NON ACK or ACK	When the status is recessive or dominant

ID/Data OR Mode

The DL9000 triggers on the OR logic of multiple ID Std/Data conditions or multiple ID Ext/Data conditions. You can set up to four ID Data conditions. The ID Std/Data settings are shared with the ID Ext/Data settings.

- You can select whether or not to use each ID/Data condition as a trigger condition.
- The trigger conditions and settings of each ID/Data condition are the same as those described on pages 3-16 to 3-18. See the respective page for details.

Note

When using the ID/Data OR mode, set conditions so that the trigger point will be the same. If you don't, the DL9000 may not trigger at the correct position.

Source Bit Rate, Sample Point, Trigger Level, Hysteresis, and Recessive Level

Bit Rate

You can select the CAN bus signal transfer rate from the following:
1 Mbps, 500 kbps, 250 kbps, 125 kbps, 83.3 kbps, and 33.3 kbps

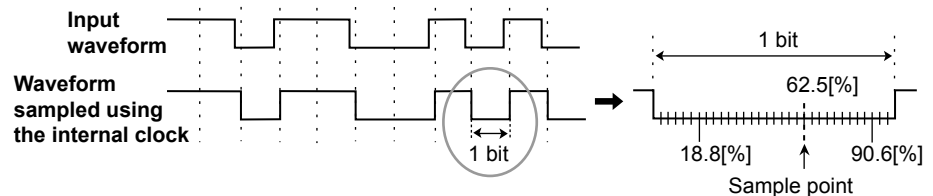
If you select the User check box, you can set the transfer rate from 10.0 kbps to 1.000 Mbps in 0.1-kbps steps.

Sample Point

You can set the point for determining the bus level (recessive or dominant) from 18.8 to 90.6% in 3.1% steps.

The DL9000 CAN bus signal trigger circuit samples the input CAN bus signal using the internal clock and detects the point of change from recessive to dominant. Taking the detected point of change to be 0% and the point that is bit time after the point of change to be 100%, you set the sample point in percentage. The bit time is the reciprocal of the set bit rate.

If the sample point is set to 62.5%



Trigger Level

You can set the CAN bus signal trigger level for CH1 to CH4 separately.

- The selectable range is 8 divisions within the screen. The resolution is 0.01 divisions. For example, if the T/div setting is 2 mV/division, the resolution is 0.02 mV.
- You can reset the trigger level to the current offset voltage by pressing RESET.

Hysteresis

Hysteresis specifies a voltage range above and below the trigger level to prevent the DL9000 from triggering on minute voltage fluctuations.

$\overline{\Delta}$ Specifies a hysteresis of approximately 0.3 divisions around the trigger level.*

$\overline{\Delta}$ Specifies a hysteresis of approximately 1 division around the trigger level.*

* The values above are typical. They are not strictly warranted.

Recessive Level

Set the recessive level to high (H) or low (L). The logical value of the recessive level is 1 and that of the dominant level is 0 in either setting.

H The recessive level is higher than the dominant level.

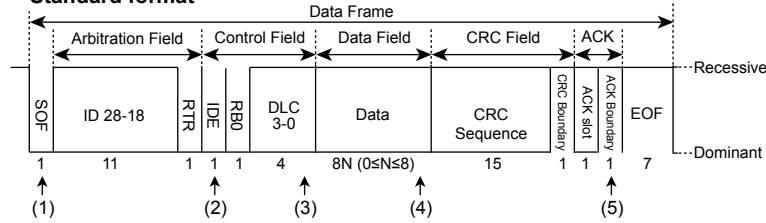
L The recessive level is less than the dominant level.

Frame Format and Trigger Point

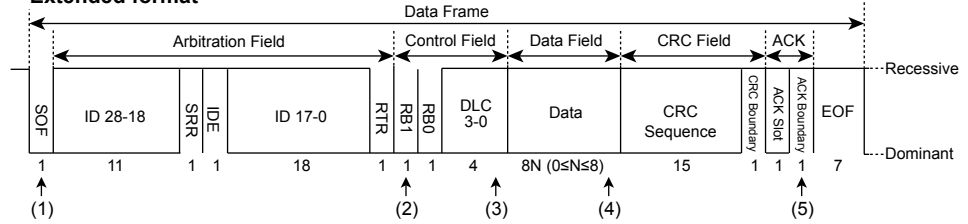
The following figure shows the frame and trigger point of each frame.

Data Frame

• Standard format



• Extended format



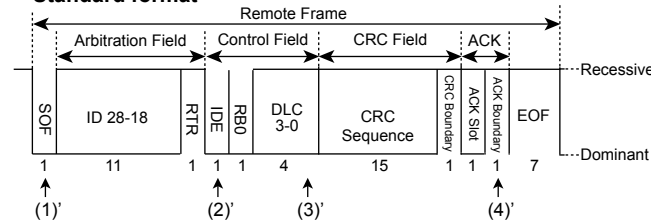
Positions (1) to (5) above are trigger points for the following conditions.

- (1) Mode: SOF
- (2) Mode: ID X*, Frame (RTR): Don't care, ACK: Don't care
- (3) Mode: ID X*, Frame (RTR): Data, Data Field: Don't care, ACK: Don't care
- (4) Mode: ID X*, Frame (RTR): Data, Data Field: Not Don't care, ACK: Don't care
- (5) ACK: Not Don't care

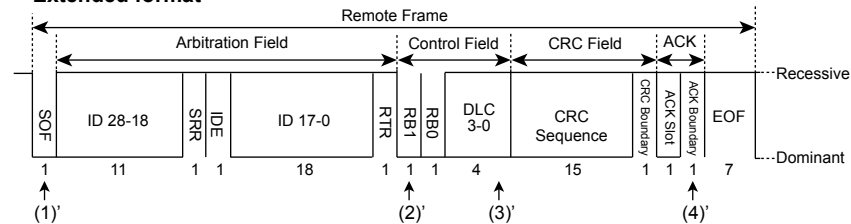
* ID X: ID Std/Data, ID Ext/Data, or ID/Data OR

Remote Frame

• Standard format



• Extended format

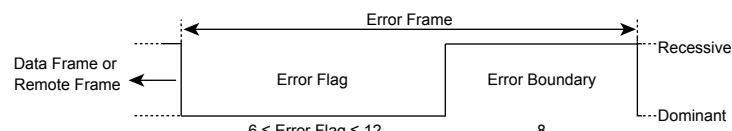


Positions (1)' to (5)' above are trigger points for the following conditions.

- (1)' Mode: SOF
- (2)' Mode: ID X*, Frame(RTR): Don't care, ACK: Don't care
- (3)' Mode: ID X*, Frame(RTR): Remote, ACK: Don't care
- (4)' ACK: Not Don't care

* ID X: ID Std/Data, ID Ext/Data, or ID/Data OR

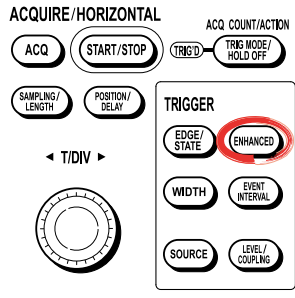
Error Frame



If the mode is set to Error Frame, the trigger point is the 6th error flag bit.

3.3 Triggering on a LIN Bus Signal

Procedure



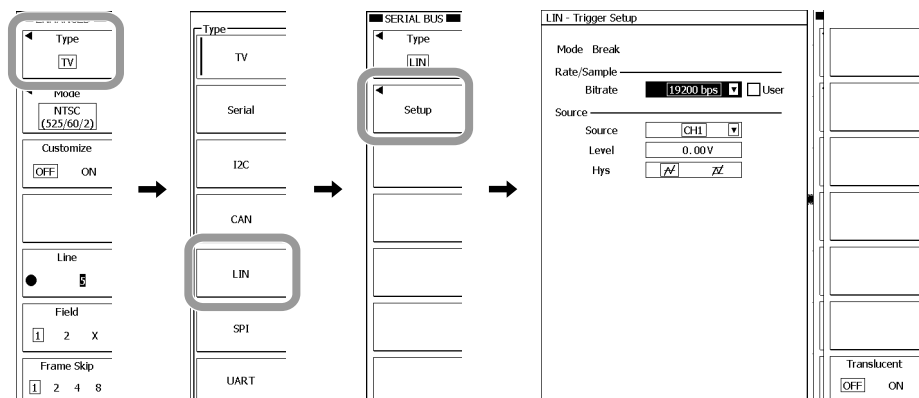
1. Press **ENHANCED**.
2. Press these soft keys: **Type > LIN > Setup**.
The Setup dialog box appears.

Setting the Bit Rate

3. Use the **rotary knob** and **SET** to select the bit rate from 19200bps to 1200bps.
If you select the **User** check box, you will be able to set the bit rate from 1000bps to 20000bps using the **rotary knob** and **SET**.

Setting the Trigger Level and Hysteresis

4. Use the **rotary knob** and **SET** to select Source.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4.
 - On the DL9500/DL9700 Series, select the source from CH1 to CH4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
5. Use the **rotary knob** and **SET** to set the level and hysteresis.
If you selected a signal from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L) in step 4, there are no Level and Hys settings.



3.3 Triggering on a LIN Bus Signal

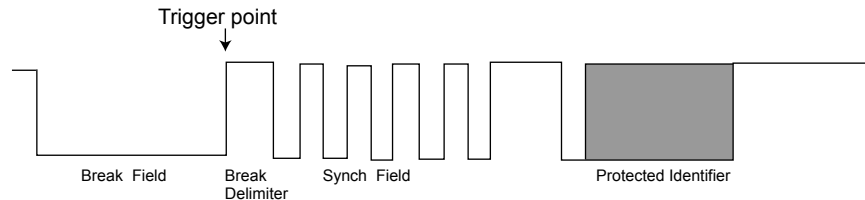
Explanation

This feature triggers the rising edge of the Break delimiter of the LIN bus signal.

Mode

The mode is fixed to Break.

The trigger activates on the rising edge of the Break delimiter of the LIN bus signal.



Source

You can select the source.

- On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4.
- On the DL9500/DL9700 Series, select the source from CH1 to CH4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).

Bit Rate

You can select the LIN bus signal transfer rate from the following:

19200 bps, 9600 bps, 4800 bps, 2400 bps, 1200 bps

If you select the User check box, you can set the transfer rate from 1000 bps to 20000 bps in 10-bps steps.


Trigger Level


You can set the LIN bus signal trigger level for CH1 to CH4 separately.

- The selectable range is 8 divisions within the screen. The resolution is 0.01 divisions. For example, if the T/div setting is 2 mV/division, the resolution is 0.02 mV.
- You can reset the trigger level to the current offset voltage by pressing RESET.
- If the source is set to a signal from A0 to D7, the trigger level is the threshold level that you set according to the instructions in section 5.18 of the *User's Manual IM701331-01E*.

Hysteresis

Hysteresis specifies a voltage range above and below the trigger level to prevent the DL9000 from triggering on minute voltage fluctuations.

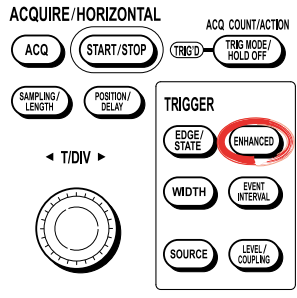
 Specifies a hysteresis of approximately 0.3 divisions around the trigger level.*

 Specifies a hysteresis of approximately 1 division around the trigger level.*

* The values above are typical. They are not strictly warranted.

3.4 Triggering on a SPI Bus Signal

Procedure



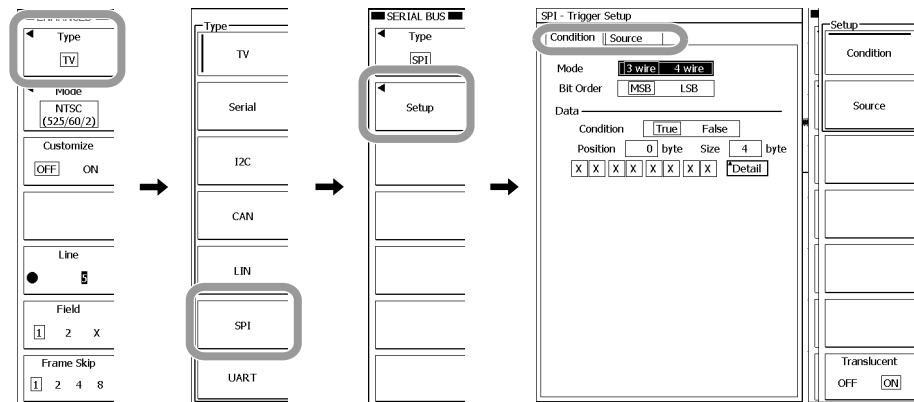
1. Press **ENHANCED**.
2. Press these soft keys: **Type > SPI > Setup**.
The Setup dialog box appears.

Setting the Wiring System, Bit Order, and Data

3. Use the **rotary knob** and **SET** to select the Condition tab.
You can also press the Condition soft key to select the tab.

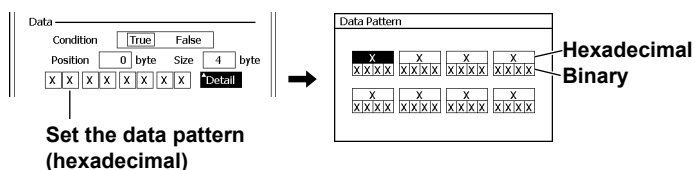
Selecting the Wiring System and Bit Order

4. Use the **rotary knob** and **SET** to set the mode to 3 wire or 4 wire and the bit order to MSB or LSB.



Setting the Data Trigger Condition

5. Use the **rotary knob** and **SET** to set the condition to True or False, and set the position and size.
6. Use the **rotary knob** and **SET** to set the data pattern to compare with.
 - You can also set the data pattern by selecting Detail to open a dialog box and use the **rotary knob** and **SET** and soft keys. When you are done setting the address pattern, press **ESC** to return to the previous screen.
 - If you select 4 wire in step 4, set Data 1 and Data 2.



Setting the CS, Clock, and Data Sources

7. Use the **rotary knob** and **SET** to select the Source tab.
You can also press the Source soft key to select the tab.
If you are using the DL9040/DL9140/DL9240 Series, proceed to step 9.
8. Use the **rotary knob** and **SET** to set Select to Analog or Logic.
If you are using the DL9500/DL9700 Series, carry out this step.

Setting the CS Source

9. Use the **rotary knob** and **SET** to select the CS (chip select) source.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4.
 - On the DL9500/DL9700 Series:
 - If you selected Analog in step 8, select the source from CH1 to CH4.
 - If you selected Logic in step 8, select the source from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L).
10. Use the **rotary knob** and **SET** to set Active to H or L.

Setting the Clock Source

11. Use the **rotary knob** and **SET** to select the clock source.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4.
 - On the DL9500/DL9700 Series:
 - If you selected Analog in step 8, select the source from CH1 to CH4.
 - If you selected Logic in step 8, select the source from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L).
12. Use the **rotary knob** and **SET** to set the polarity to \overline{f} or \overline{l} .

Setting the Data Source

13. Use the **rotary knob** and **SET** to select the data source.
 - If you select 4 wire in step 4 on the previous page, select the source for Data1 and Data 2 separately.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4.
 - On the DL9500/DL9700 Series:
 - If you selected Analog in step 8, select the source from CH1 to CH4.
 - If you selected Logic in step 8, select the source from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L).

Setting the Trigger Level and Hysteresis

Set the trigger level and hysteresis if you are using the DL9500/DL9700 Series and you selected Analog in step 11, or if you are using the DL9040/DL9140/DL9240 Series.

14. Use the **rotary knob** and **SET** to select Setup under Level/Hys.
The Level/Hys dialog box appears.

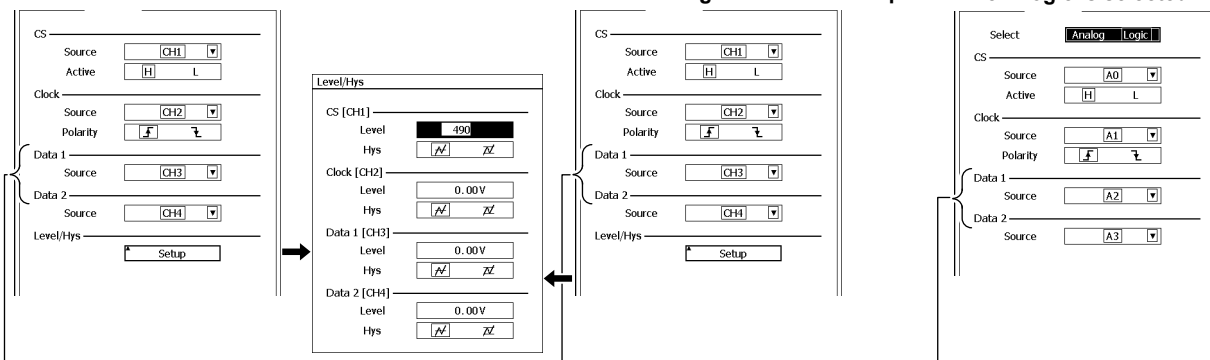
15. Use the **rotary knob** and **SET** to set the level and hysteresis for each source.

On the DL9040/DL9140/DL9240 Series

On the DL9500/DL9700 Series

When Analog is selected in step 8

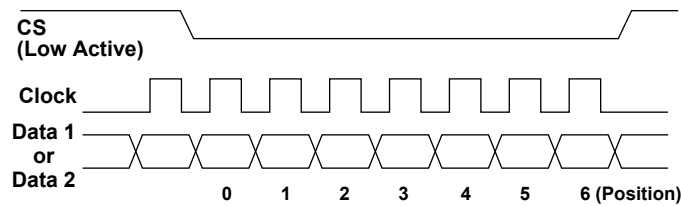
When Logic is selected in step 8



If you selected 3 wire in step 4 on the previous page, one data item will appear, because there is only one data source.

Explanation

This feature triggers on SPI bus signals. The following figure shows the SPI bus signal timing chart.

**Wiring System**

Select the wiring system from the following:

Three-wire	The DL9000 triggers on the data pattern condition of one data line.
Four-wire	The DL9000 triggers on the data pattern conditions of Data 1 and Data 2 lines. You can also use one of the two data lines as a trigger condition.

Bit Order

You can select the bit order based on the data stream.

- If you are setting the data in binary notation, set the pattern in the order of the data stream, regardless of the bit order setting.
- If you are setting the data in hexadecimal notation, set the pattern in 4-bit segments according to the bit order setting.

MSB	When the data stream is MSB first
LSB	When the data stream is LSB first

Data

You can use a data pattern as a trigger condition.

- **Comparison Condition**
The data trigger condition is met when the result of comparing the input signal pattern with the specified pattern meets the selected comparison condition.

True	When the patterns match
False	When the patterns don't match
- **Comparison Start Position**
Set the comparison start position. For example, to start comparing from the first data byte after the CS signal is activated, specify zero.
Selectable range: 0 to 9999 bytes
- **Data Size**
Set how many consecutive data bytes you want to compare.
Selectable range: 1 to 4 bytes
- **Data Pattern**
Set the data pattern for the specified size in hexadecimal or binary notation.
 - If you specify X, the condition is assumed to be met regardless of the corresponding bit status.
 - If a binary pattern contains any Xs, the corresponding hexadecimal display will be "\$."

3.4 Triggering on a SPI Bus Signal

CS, Clock, and Data

You can select the chip select (CS), clock, and data sources.

- On the DL9040/DL9140/DL9240 Series, select the sources from CH1 to CH4.
- On the DL9500/DL9700 Series, select the source from CH1 to CH4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).



• CS

You can select the CS level for activating the data.

H	When the signal is high
L	When the signal is low

• Clock

You can select the clock edge that specifies when the data patterns are compared.

	On the rising edge
	On the falling edge

Trigger Level



When the CS, clock, or data* is set to analog (CH1 to CH4), you can set the trigger level for each source.

- The selectable range is 8 divisions within the screen. The resolution is 0.01 divisions. For example, if the T/div setting is 2 mV/division, the resolution is 0.02 mV.
- You can reset the trigger level to the current offset voltage by pressing RESET.

* If the source is set to a logic signal from A0 to D7, the trigger level is the threshold level that you set according to the instructions in section 5.18 of the *User's Manual IM701331-01E*.

Hysteresis

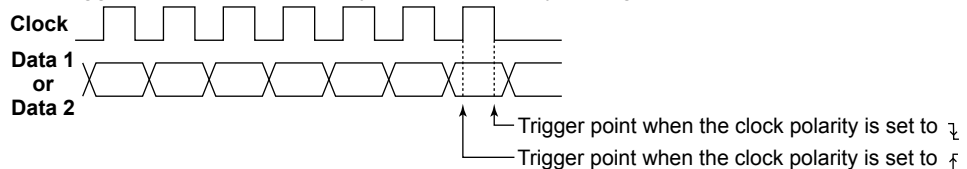
Hysteresis specifies a voltage range above and below the trigger level to prevent the DL9000 from triggering on minute voltage fluctuations.

	Specifies a hysteresis of approximately 0.3 divisions around the trigger level.*
	Specifies a hysteresis of approximately 1 division around the trigger level.*

* The values above are typical. They are not strictly warranted.

Trigger Point

The trigger point is determined by the clock polarity setting as follows:



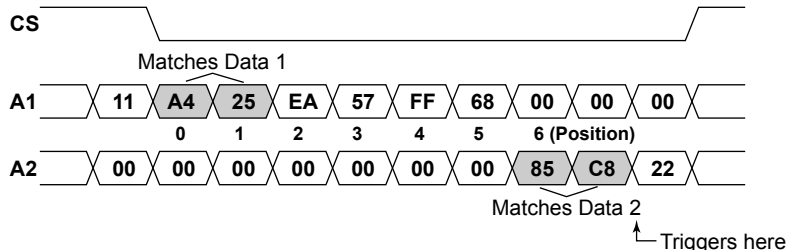
Example

This example displays the data sequence at the byte level (hexadecimal notation) and indicates the trigger position.

The Data 1 and Data 2 pattern references are set to A1 and A2, respectively.

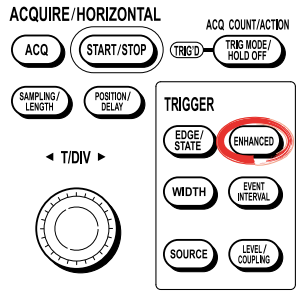
Shading: Pattern to compare

CS	Active: L
Data 1	Condition: True, Position: 0, Size: 2 bytes, data pattern: A4 and 25
Data 2	Condition: True, Position: 6, Size: 2 bytes, data pattern: 85 and C8



3.5 Triggering on a UART Signal

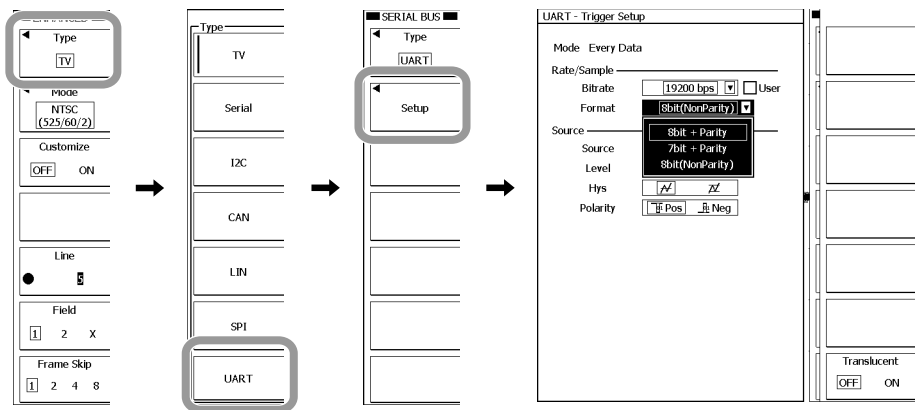
Procedure



1. Press **ENHANCED**.
2. Press these soft keys: **Type > UART > Setup**.
The Setup dialog box appears.

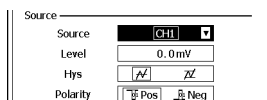
Setting the Bit Rate and Format

3. Use the **rotary knob** and **SET** to select the bit rate from 115200bps to 1200bps. If you select the **User** check box, you will be able to set the bit rate from 1000bps to 200000bps using the **rotary knob** and **SET**.
4. Use the **rotary knob** and **SET** to select the format from 8bit + Parity to 8bit(NonParity).



Setting the Trigger Level, Hysteresis, and Polarity

5. Use the **rotary knob** and **SET** to select Source.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4.
 - On the DL9500/DL9700 Series, select the source from CH1 to CH4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
6. Use the **rotary knob** and **SET** to set the level, hysteresis, and polarity. If you selected a signal from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L) in step 5, there are no Level and Hys settings.



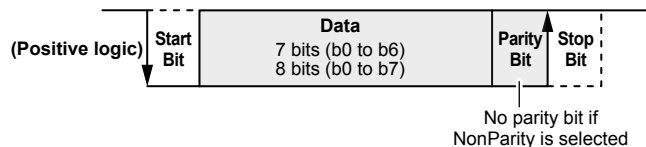
3.5 Triggering on a UART Signal

Explanation

This feature triggers on UART bus signals.

Mode

The mode is fixed to Every Data. This feature triggers on the stop bit of all data frames.



Source

You can select the source.

- On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4.
- On the DL9500/DL9700 Series, select the source from CH1 to CH4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).

Bit Rate

You can select the UART bus signal transfer rate from the following:

115200 bps, 57600 bps, 38400 bps, 19200 bps, 9600 bps, 4800 bps, 2400 bps, and 1200 bps

If you select the User check box, you can set the transfer rate from 1000 bps to 200000 bps in 100-bps steps.

Format

You can select the format from the following:

8bit + Parity	8-bit data + parity bit
7bit + Parity	7-bit data + parity bit
8bit(NonParity)	8-bit data with no parity bit

Trigger Level

You can set the UART signal trigger level for CH1 to CH4 separately.

- The selectable range is 8 divisions within the screen. The resolution is 0.01 divisions. For example, if the T/div setting is 2 mV/division, the resolution is 0.02 mV.
- You can reset the trigger level to the current offset voltage by pressing RESET.
- If the source is set to a signal from A0 to D7, the trigger level is the threshold level that you set according to the instructions in section 5.18 of the *User's Manual IM701331-01E*.

Hysteresis

Hysteresis specifies a voltage range above and below the trigger level to prevent the DL9000 from triggering on minute voltage fluctuations.

	Specifies a hysteresis of approximately 0.3 divisions around the trigger level.*
	Specifies a hysteresis of approximately 1 division around the trigger level.*

* The values above are typical. They are not strictly warranted.

Polarity

You can select the bit state that will be considered logical 1.

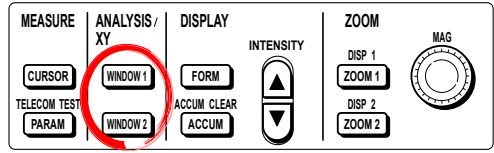
Pos	Positive logic
Neg	Negative logic

Note

You cannot set the hold-off time when the UART signal trigger feature is enabled. For details on the hold-off time, see section 6.4 in the *User's Manual IM701331-01E*.

4.1 Selecting the Serial Bus Signal and Displaying and Saving Analysis Results

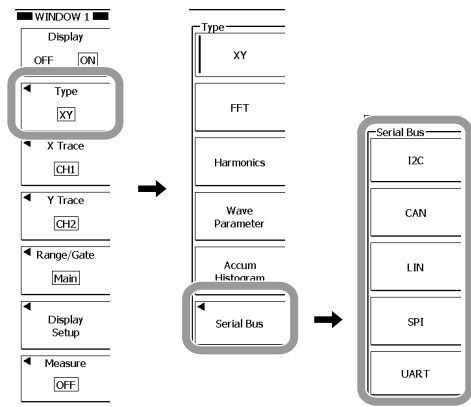
Procedure



1. Press **WINDOW 1** or **WINDOW 2**.
The WINDOW menu appears.

Selecting the Analysis Type

2. Press these soft keys: **Type > Serial Bus**.
3. From the menu that appears, press the appropriate soft key to select the analysis type of the serial bus signal.
4. Proceed to the appropriate section indicated below according to the selected analysis type, and set the analysis options.
 - I2C: Section 4.2
 - CAN: Section 4.3
 - LIN: Section 4.4
 - SPI: Section 4.5
 - UART: Section 4.6



4.1 Selecting the Serial Bus Signal and Displaying and Saving Analysis Results

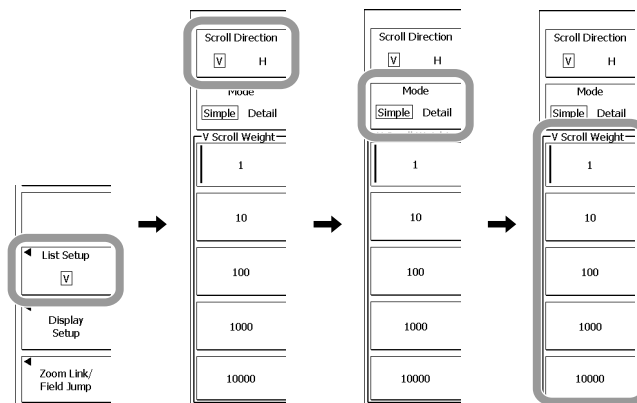
After setting the analysis options according to step 4 on the previous page, return to the WINDOW menu, and proceed with the following steps.

Displaying Analysis Results

This section explains how to use the I²C, CAN, LIN, SPI, and UART analysis result displays.

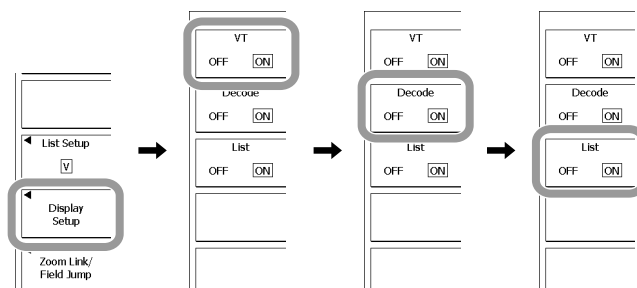
- **Setting the Scroll Options**

5. Press the **List Setup** soft key.
6. Press the **Scroll Direction** soft key to select V (vertical) or H (horizontal).
7. Press the **Mode** soft key to select Simple or Detail.
8. Press the appropriate soft key from **1** to **10000** to select how many numbers to scroll vertically by.
9. Press **ESC** to return to the previous screen.



- **Turning the T-Y Waveform, Decoded Field Display, and List Display ON and OFF**

10. Press the **Display Setup** soft key.
11. Press the **VT** soft key to turn the T-Y waveform display ON or OFF.
12. Press the **Decode** soft key to turn the decoded field display ON or OFF.
13. Press the **List** soft key to turn the list display ON or OFF.
14. Press **ESC** to return to the previous screen.



4.1 Selecting the Serial Bus Signal and Displaying and Saving Analysis Results

If the analysis type is CAN or LIN, proceed to 15. If the analysis type is I²C, SPI, or UART, proceed to step 19.

- **Setting the Zoom Link and Field Jump Options**

For FlexRay, CAN or LIN

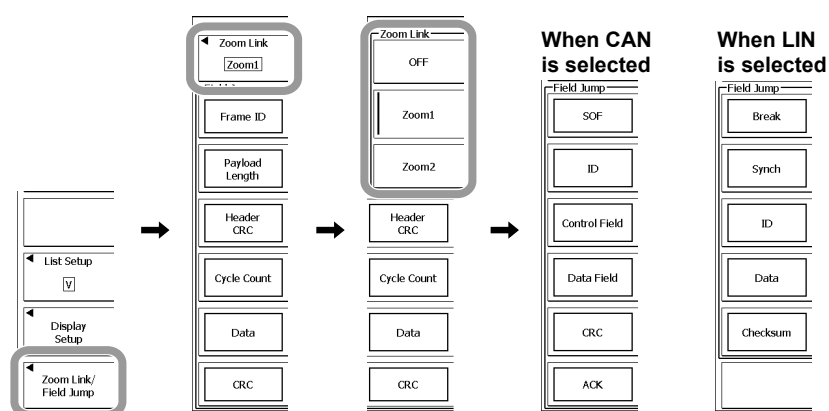
15. Press these soft keys: **Zoom Link/Field Jump > Zoom Link**.

16. Press the appropriate soft key from **OFF** to **Zoom2** to select the zoom waveform area to link to.

If you select OFF, the field jump menu will not appear.

17. From the menu that appears, press the appropriate soft key to select the jump destination field.

If you select Zoom1 or Zoom2, set the scroll direction to V, and use the rotary knob, the zoom position (the center of the zoom box) moves to the head of the frame highlighted in the list. If you press the Field Jump soft key, the zoom position will move to the head of the corresponding field in the highlighted frame.



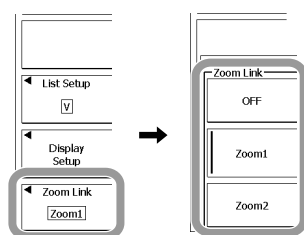
- **Selecting the Zoom Link**

For I²C, SPI, or UART

18. Press the **Zoom Link** soft key.

19. Press the appropriate soft key from **OFF** to **Zoom2** to select the zoom waveform area to link to.

If you select Zoom1 or Zoom2, set the scroll direction to V, and use the rotary knob, the zoom position (the center of the zoom box) moves to the head of the frame highlighted in the list.



Saving Analysis Results

To save the analysis results of a serial bus such as I²C, CAN, LIN, SPI, and UART, set the data type to Serial Bus according to the instructions in section 13.9 in the *User's Manual IM701311-01E* or section 13.10 in the *User's Manual IM701331-01E*.

Explanation

Analysis Type

This manual describes I²C, CAN, LIN, SPI, and UART serial bus signal analysis features. For information about other analysis features, see the *User's Manual IM701310-01E* or *IM701331-01E*.

Data Analyzed

The DL9000 can analyze the following data displayed on the screen.

- Waveform data
The DL9000 can analyze data any time regardless of whether or not it is acquiring data. If acquiring signals, the DL9000 updates the analysis results in sync with the displayed waveform.
The DL9000 can also analyze waveform data saved to the history memory (the waveform data at the record number selected using HISTORY menu > Select).
- Loaded acquisition data (ACQ data)

Displaying Analysis Results

The following pages describe the contents of the I²C, CAN, LIN, SPI, and UART analysis results.

I²C

- **Number of Analyzable Data Values**
Up to 40000 bytes (20000 bytes before and after the analysis reference point)

- **Simple Display**

No.	Analysis Number.
S/P	Display the data condition. S: Start condition, P: Stop condition
Hex	Data in hexadecimal notation
Form	Address or data
R/W	Signal type
ACK	Acknowledge bit state

For a description of these items, see "Detail Display."

- **Detail Display**

No.	Analysis Number. Negative numbers are assigned to frames before the analysis reference point, and positive numbers are assigned to frames after the reference point. The DL9000 can display the analysis result numbers from -19999 to 20000 (up to 40000 data bytes). Pressing the RESET key highlights data number zero.
S/P	Display the data condition. S: Start condition, P: Stop condition
Time(ms)	Displays the time from the trigger position to the head of the byte in milliseconds.
Binary	Displays data in binary notation.
Hex	Displays data in hexadecimal notation.
Form	Indicates "A" for address and "D" for data.
R/W	Displays "R" for a read signal and "W" for a write signal.
ACK	Displays "1" when an acknowledge bit is detected and "0" when it is not.
Info	Display the data type.

4.1 Selecting the Serial Bus Signal and Displaying and Saving Analysis Results

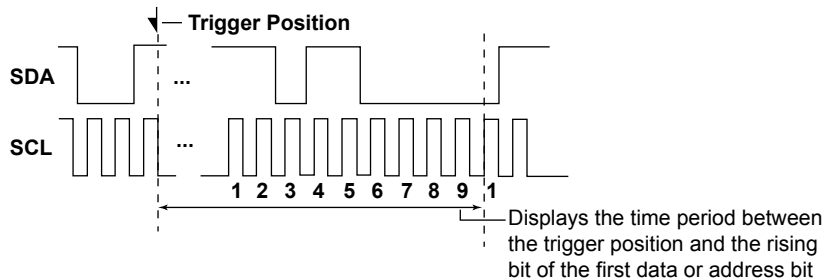
Simple display

No.	S/P	Hex	Form	R/W	ACK
9	P	4B	D		1
10	S	F8	A	W	0
11		EB	D		0
12	P	21	D		0
13	S	9D	A	R	0
14		66	D		0
15	P	E2	D		1
16	S	38	A	W	0
17		9B	D		0
18	P	2C	D		0
19	S	6D	A	R	0
20		D7	D		0
21	P	4E	D		1

Detail display

No.	S/P	Time(ms)	Binary	Hex	Form	R/W	ACK	Info
1	S	-2.46700	01110101	75	A	R	0	7-bit
2		-2.43100	10111100	BC	D		0	
3	P	-2.39500	11101111	EF	D		1	
4	S	-1.32304	00111000	38	A	W	0	7-bit
5		-1.28704	01010011	53	D		0	
6	P	-1.25104	10101001	A9	D		0	
7	S	-1.13904	10011101	9D	A	R	0	7-bit
8		-1.10304	00010000	10	D		0	
9	P	-1.06704	01001011	4B	D		1	
10	S	0.00496	11111000	F8	A	W	0	7-bit
11		0.04096	11101011	EB	D		0	
12	P	0.07696	00100001	21	D		0	
13	S	0.18896	10011101	9D	A	R	0	7-bit

Time (ms) Display



- **Decoded Field Display**

Decodes each data value and displays the value in color. This feature can be used when the source signal is set to a channel from CH1 to CH4 or from M1 to M4.

Adr	Hexadecimal value in light green
Data	Hexadecimal value in cyan
R/W	Pink
Ack	Yellow
General Call	Green
Start Byte	Orange
HS Mode	Orange

4.1 Selecting the Serial Bus Signal and Displaying and Saving Analysis Results

CAN

- **Number of Analyzable Frames**

Up to 3000 frames (1500 frames before and after the analysis reference point)

- **Frames Analyzed**

Remote frame	Detects whether or not the ID, data, CRC, and ACK values are present.
Data frame	Detects whether or not the ID, CRC, and ACK values are present.
Error frame	Detects error flags.
Overload frame	Detects an overload flag.

- **Simple Display**

No.	Analysis Number
Frame	Frame type
ID	Hexadecimal ID display
Data	Data in hexadecimal notation display
Ack	ACK slot state

For a description of these items, see “Detail Display.”

- **Detail Display**

No.	Analysis Number. Negative numbers are assigned to frames before the analysis reference point, and positive numbers are assigned to frames after the reference point. The DL9000 can display the analysis result numbers from -1499 to 1500 (up to 3000 frames). Pressing the RESET key highlights frame number zero.
Frame	Displays the frame type. The DL9000 can analyze the following four frame types: data frame, remote frame, error frame, and overload frame.
Time(ms)	Displays the time from the trigger position to the head of the frame in milliseconds.
ID	Displays the 11-bit standard format ID value or the 29-bit extended format ID value in hexadecimal notation.
DLC	Displays the effective number of bytes in hexadecimal notation.
Data(Bin)	Displays data in binary notation when the frame type is data. Each byte is displayed in a separate line.
Data	Displays data in hexadecimal notation when the frame type is data. Each byte is displayed in a separate line.
CRC	Displays the CRC sequence in hexadecimal notation when the frame type is data or remote.
Ack	Displays “Y” when an ACK bit is detected and “N” when it is not.

Simple display

No.	Frame	ID	Data	Ack
0	Data	012	FE	Y
1	Data	100	FF 01 A4	Y

Detail display

No.	Frame	Time(ms)	ID	DLC	Data(Bin)	Data	CRC	Ack
0	Data	-0.001267	012	1	11111110	FE	2263	Y
1	Data	0.608749	100	3	11111111 00000001 10100100	FF 01 A4	6C6E	Y

- **Decoded Field Display**

Decodes each field value and displays the value in color.

ID	Light green
DLC	Pink
Data	Cyan
CRC sequence	Light blue
Alarm frame	Red
Overload frame	Green
Frame background	Gray
Stuff bit	Gray fill

LIN

• **Number of Analyzable Frames**

Up to 3000 frames (1500 frames before and after the analysis reference point)

• **Fields Analyzed**

Break, Synch, ID, Data, Checksum

• **Simple Display**

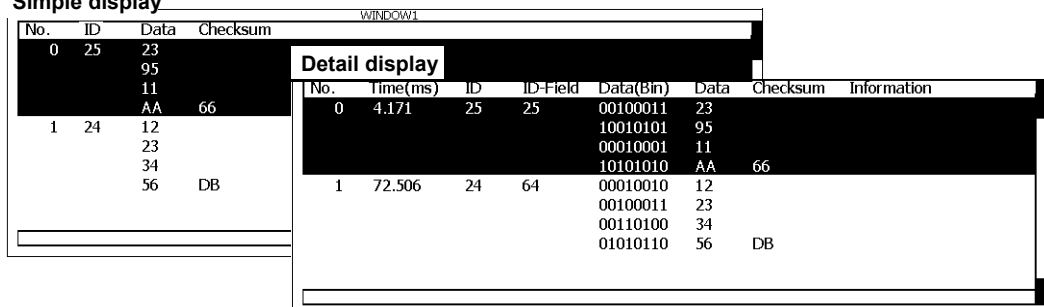
No.	Analysis Number
ID	ID in hexadecimal notation
Data	Data in hexadecimal notation
Checksum	Checksum in hexadecimal notation

For a description of these items, see "Detail Display."

• **Detail Display**

No.	Analysis Number. Negative numbers are assigned to frames before the analysis reference point, and positive numbers are assigned to frames after the reference point. The DL9000 can display the analysis result numbers from -1499 to 1500 (up to 3000 frames). Pressing the RESET key highlights frame number zero.
Time(ms)	Displays the time from the trigger position to the head of the frame in milliseconds.
ID	Displays the ID value in hexadecimal notation.
ID-Field	Displays the ID value including the two parity bits in hexadecimal notation.
Data(Bin)	Displays data in binary notation. Each byte is displayed in a separate line.
Data	Displays data in hexadecimal notation. Each byte is displayed in a separate line.
Checksum	Displays the checksum value in hexadecimal notation.
Information	Detects and displays the following words. If a WakeUp signal is detected, WakeUp appears. If multiple errors are detected in one frame, the error with the highest precedence in the list below appears. Timeout Error, Framing Error, Checksum Error, Synch Error, Parity Error

Simple display



• **Decoded Field Display**

Decodes each field value and displays the value in color.

Break	Orange
Synch	Pink
ID	Light green
Data	Cyan
Checksum	Light blue
WakeUp	Green
Start Bit	Gray fill
Stop Bit	Gray fill
Error	Red

- Timeout Error Displays a thick red link line in the area that errors occurred.
- Framing Error Displays "Framing Error" using black characters on a red background in the field in which an error occurs. It is displayed with a higher precedence than Checksum Error, Synch Error, or Parity Error.
- Checksum Error, Synch Error, Parity Error Displays the characters of the synch, ID, or checksum field in which an error occurs using black characters on red background.

4.1 Selecting the Serial Bus Signal and Displaying and Saving Analysis Results

SPI

- **Number of Analyzable Data Values**

Up to 40000 bytes (20000 bytes before and after the analysis reference point)

- **Simple Display**

No.	Analysis Number.
Data 1(H)	Data 1 in hexadecimal notation
Data 2(H)	Data 2 in hexadecimal notation
CS	Displays the CS status.

For a description of these items, see "Detail Display."

- **Detail Display**

No.	Analysis Number. Negative numbers are assigned to frames before the analysis reference point, and positive numbers are assigned to frames after the reference point. The DL9000 can display the analysis result numbers from -19999 to 20000 (up to 40000 data bytes). Pressing the RESET key highlights data number zero.
Time(ms)	Displays the time from the trigger position to the head of the byte in milliseconds.
Data 1(B)	Displays data 1 in binary notation.
Data 1(H)	Displays data 1 in hexadecimal notation.
Data 2(B)	Displays data 2 in binary notation.
Data 2(H)	Displays data 2 in hexadecimal notation.
CS	Displays the CS status.
S/P	Indicates the active period by displaying "S" for the start position and "P" for the stop position.

Simple display

No.	Data1(H)	Data2(H)	CS
80	00	--	H
81	00	--	H
82	00	--	H
83	00	--	H
84	00	--	H
85	00	--	H
86	00	--	H
87	C4	--	H
88	A9	--	H
89	3B	--	H
90	00	--	H
91	00	--	H
92	00	--	H

Detail display

No.	Time(ms)	Data1(B)	Data1(H)	Data2(B)	Data2(H)	CS	S/P
80	0.336344	00000000	00	-----	--	H	
81	0.344344	00000000	00	-----	--	H	
82	0.352344	00000000	00	-----	--	H	
83	0.360344	00000000	00	-----	--	H	
84	0.368344	00000000	00	-----	--	H	
85	0.376344	00000000	00	-----	--	H	
86	0.384344	00000000	00	-----	--	H	P
87	0.400344	11000100	C4	-----	--	H	S P
88	0.424344	10101001	A9	-----	--	H	S
89	0.432344	00111011	3B	-----	--	H	P
90	0.472344	00000000	00	-----	--	H	S
91	0.480344	00000000	00	-----	--	H	
92	0.488344	00000000	00	-----	--	H	

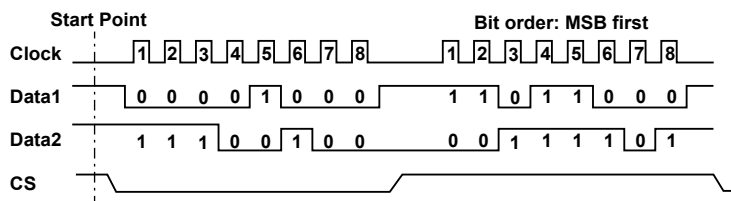
- **Decoded Field Display**

Decodes each data value and displays the value in color. This feature can be used when the source signal is set to a channel from CH1 to CH4 or from M1 to M4.

Data	Hexadecimal value in cyan
Group background	Gray

- **Display Example**

Examples for two analysis conditions are given below.



4.1 Selecting the Serial Bus Signal and Displaying and Saving Analysis Results

Analysis Conditions when clock (CH1) = \bar{f} and CS (CH4) = L

Item	Display
Analysis number (No.)	0
Data 1 in hexadecimal notation	08
Data 2 in hexadecimal notation	E4
CS signal status	

Analysis Conditions when clock (CH1) = \bar{f} and CS (CH4) = H

Item	Display
Analysis number (No.)	0
Data 1 in hexadecimal notation	D8
Data 2 in hexadecimal notation	3D
CS signal status	H

Note

If there is no change in the CS signal from high to low or low to high, the DL9000 will not analyze the I/O data.

UART

- **Number of Analyzable Data Values**

Up to 3000 bytes (1500 bytes before and after the analysis reference point)

- **Fields Analyzed**

Data

- **Simple Display**

No.	Analysis number
Data/ASCII	Hexadecimal data or ASCII display
Information	Displays errors

For a description of these items, see "Detail Display."

- **Detail Display**

No.	Analysis Number. Negative numbers are assigned to frames before the analysis reference point, and positive numbers are assigned to frames after the reference point. The DL9000 can display the analysis result numbers from -1499 to 1500 (up to 3000 data bytes). Pressing the RESET key highlights data number zero.
Time(ms)	Displays the time from the trigger position to the head of the byte in milliseconds.
Size	Displays the number of data bytes only when display mode's Grouping feature is set to ON.
Data(Bin)	Displays data in binary notation.
Data/ASCII	Displays data in hexadecimal notation. If you set the display mode to ASCII, data is displayed using ASCII codes.
Information	Displays the following errors. If multiple errors are detected in one data byte, the error with the highest precedence in the list below appears. Framing Error, Parity Error

Simple display Simple display - Grouping ON WINDOW1

No.	Data	Information	No.	Data(Hex)
0	30		0	47 50 53 32 30 30
1	53		1	53 74 61 72 74 5F 41
2	74		2	33 36 3A 31 36 35
3	61		3	31 34 32 3A 35 33 31
4	72		4	47 50 53 32
			5	53 74 61 72

Simple display - ASCII WINDOW1

No.	ASCII	Information
0	0	
1	S	
2	t	
3	a	
4	r	
5	t	
6	-	
7	A	
8	3	
9	6	

Detail display WINDOW1

No.	Time(ms)	Data(Bin)	Data
0	-0.4944	00110000	30
1	1.0168	01010011	53
2	1.5872	01110100	74
3	2.1616	01100001	61
4	2.7348	01110010	72
		0100	74

Detail display - Grouping ON WINDOW1

No.	Time(ms)	Size	Data(Hex)	Information
0	-80.912	6	47 50 53 32 30 30	
1	-80.339	7	53 74 61 72 74 5F 41	
2	-79.765	6	33 36 3A 31 36 35	
3	-79.192	7	31 34 32 3A 35 33 31	
4	-78.621	6	47 50 53 32 30 30	
5	-77.110	7	53 74 61 72 74 5F 41	

Detail display - ASCII WINDOW1

No.	Time(ms)	ASCII	Information
0	-0.4944	0	
1	1.0168	S	
2	1.5872	t	
3	2.1616	a	
4	2.7348	r	
5	3.3072	t	
6	3.8792	-	
7	4.4520	A	
8	5.9620	3	
9	6.5376	6	

4.1 Selecting the Serial Bus Signal and Displaying and Saving Analysis Results

- **Decoded Field Display**

Decodes each field value and displays the value in color.

Data	Cyan
Parity	Yellow
Start Bit	Gray fill
Stop Bit	Gray fill
Error	Red

- Framing Error Displays "Framing Error" using black characters on a red background in the field in which an error occurs. It is displayed with higher precedence than Parity Error.
- Parity Error Displays the characters of the field in which an error occurs using black characters on red background.

Zoom Link

Select the zoom link from the following:

OFF	Disables the zoom link feature.
Zoom1	Links to Zoom1.
Zoom2	Links to Zoom2.

The default setting for WINDOW 1 is Zoom1 and WINDOW 2 is Zoom2. If Zoom1 or Zoom2 is selected and you select (highlight) any byte in the analysis result list, the zoom position (the center of the zoom box) will move to the head of the byte. On the contrary, if you move the zoom position, the corresponding byte in the analysis result list in the Zoom1 or Zoom2 box will be highlighted.

Field Jump

If the analysis type is FlexRay, CAN, or LIN and the zoom link feature is enabled, you can move the zoom position to the head of the specified field in the highlighted frame in the analysis result list.

Saving Analysis Results

You can save analysis results (simple and detail) in CSV format to an external storage medium. The extension is .csv.

The list will be saved in the appropriate format.

Data Saved

In the menu that appears when you set the data type to Serial Bus in the procedure described in section 13.9 in the *User's Manual IM701311-01E* or section 13.10 in the *User's Manual IM701331-01E*, select whether to save Ana1 or Ana2.

Ana1	Saves the analysis results that are determined under the conditions specified using the menu that appears when the WINDOW 1 key is pressed.
Ana2	Saves the analysis results that are determined under the conditions specified using the menu that appears when the WINDOW 2 key is pressed.

Data Size

I ² C	(The number of analyzed bytes + 4) × 65 [bytes]
CAN	(The number of analyzed frames + 4) × 155 [bytes]
LIN	(The number of analyzed frames + 4) × 170 [bytes]
SPI	(The number of analyzed bytes + 4) × 79 [bytes]
UART	(The number of analyzed frames + 4) × 40 [bytes]

* The data sizes are reference values. They are not strictly warranted. Use them as a guideline when you save data.

4.2 Analyzing an I²C Signal

Procedure

1. Carry out steps 1 to 4 in section 4.1 to set the analysis type to I2C.
2. Press the **Decode Setup** soft key.
The Decode Setup dialog box appears.
If you are using the DL9040/DL9140/DL9240 Series, proceed to step 4.
3. Use the **rotary knob** and **SET** to set Select to Analog or Logic.
If you are using the DL9500/DL9700 Series, carry out this step.

Setting the SDA Source

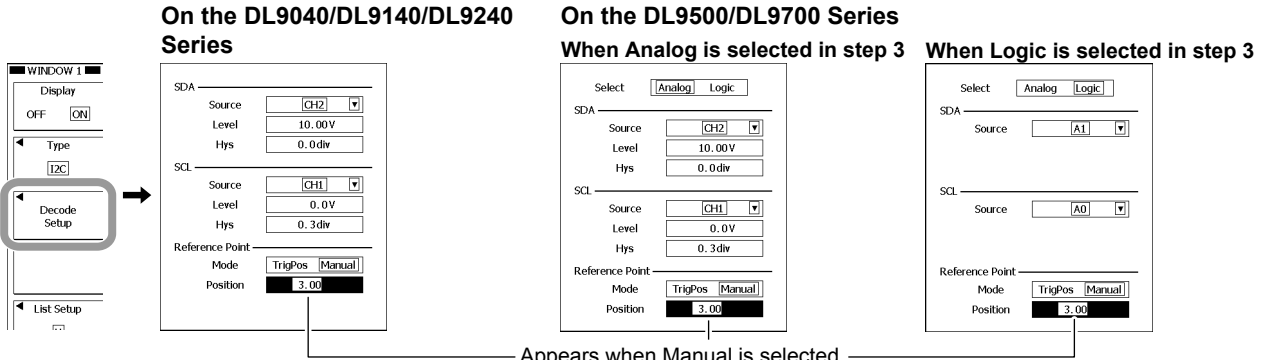
4. Use the **rotary knob** and **SET** to select the SDA source.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4 or from M1 to M4.
 - On the DL9500/DL9700 Series:
 - If you selected Analog in step 3, select the source from CH1 to CH4 or from M1 to M4.
 - If you selected Logic in step 3, select the source from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L).
5. Use the **rotary knob** and **SET** to set the level and hysteresis.
If you select Logic in step 3, the level and hysteresis settings are not available.

Setting the SCL Source

6. Use the **rotary knob** and **SET** to select the SCL source.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4 or from M1 to M4.
 - On the DL9500/DL9700 Series:
 - If you selected Analog in step 3, select the source from CH1 to CH4 or from M1 to M4.
 - If you selected Logic in step 3, select the source from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L).
7. Use the **rotary knob** and **SET** to set the level and hysteresis.
If you select Logic in step 3, the level and hysteresis settings are not available.

Setting the Analysis Reference Point

8. Use the **rotary knob** and **SET** to set the analysis reference point to TrigPos or Manual.
If you select TrigPos, proceed to step 10.
9. Use the **rotary knob** and **SET** to set the analysis reference point in the range of ± 5.00 divisions.
10. Press **ESC** to return to the previous screen.



Displaying Analysis Results

Carry out steps 5 to 19 in section 4.1.

Explanation

SDA and SCL Sources

You can select the serial data (SDA) and serial clock (SCL) sources.

- On the DL9040/DL9140/DL9240 Series, select the sources from CH1 to CH4 or from M1 to M4.
- On the DL9500/DL9700 Series, select the source from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).

• **Level**

Set the level for determining whether the signal level is 0 or 1 for CH1 to CH4 and M1 to M4.*

The selectable range is ±10 divisions from the vertical position. The resolution is 0.01 divisions. For example, if the T/div setting is 2 mV/division, the resolution is 0.02 mV.

* If the source is set to a logic signal from A0 to D7, the level is the threshold level that you set according to the instructions in section 5.18 of the *User's Manual IM701331-01E*.

• **Hysteresis**

Set the hysteresis for CH1 to CH4 and M1 to M4.

The selectable range is from 0.0 to 4.0 divisions. The resolution is 0.1 divisions.

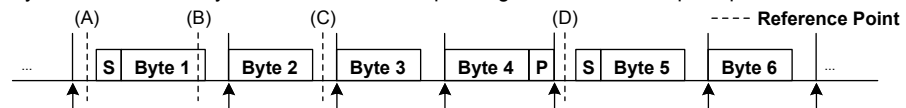
Trigger hysteresis settings \overline{A} and \overline{V} correspond to 0.6 divisions and 1.0 division.

Analysis Reference Point

Select the analysis reference point from the following:

Trig Pos	Sets the analysis reference position to the trigger position.
Manual	Set the analysis reference position manually. The selectable range is ±5.00 divisions, and the resolution is 0.01 divisions.

Byte No. 0 in the analysis result list varies depending on the reference point position as follows:



(A): Byte No. 0 → Byte 1 (Byte 2 is No. 1, byte 3 is No. 2, and so on)

(B): Byte No. 0 → Byte 1 (Byte 2 is No. 1, byte 3 is No. 2, and so on)

(C): Byte No. 0 → Byte 2 (byte1 is No. -1, byte 3 is No. 1, and byte 4 is No. 2, and so on)

(D): Byte No. 0 → Byte 5 (byte1 is No. -4, ..., byte 4 is No. -1, and byte 6 is No. 1, and so on)

S: Start condition, **P:** Stop condition

4.3 Analyzing a CAN Bus Signal and Performing Stuff Bit Computation

Procedure

This section describes how to configure CAN bus signal analysis and stuff bit computation.

Performing Analysis

1. Carry out steps 1 to 4 in section 4.1 to set the analysis type to CAN.
2. Press the **Decode Setup** soft key.
The Decode Setup dialog box appears.

Setting the Bit Rate and Sample Point

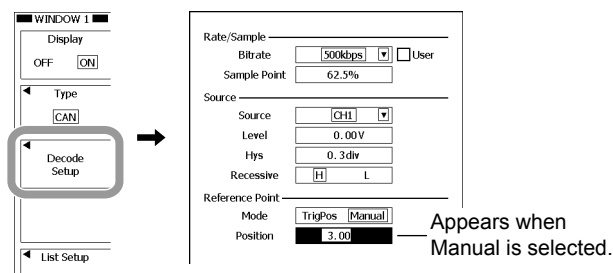
3. Use the **rotary knob** and **SET** to select the bit rate from 1Mbps to 33.3kbps. If you select the **User** check box, you will be able to set the bit rate from 10.0kbps to 1.000Mbps using the **rotary knob** and **SET**.
4. Use the **rotary knob** and **SET** to set the sample point from 18.8 to 90.6%.

Setting the Source

5. Use the **rotary knob** and **SET** to select the source from CH1 to CH4 or from M1 to M4.
6. Use the **rotary knob** and **SET** to set the level and hysteresis.
7. Use the **rotary knob** and **SET** to set Recessive to H or L.

Setting the Analysis Reference Point

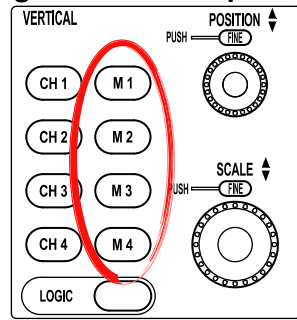
8. Use the **rotary knob** and **SET** to set the analysis reference point to TrigPos or Manual.
If you select TrigPos, proceed to step 10.
9. Use the **rotary knob** and **SET** to set the analysis reference point in the range of ± 5.00 divisions.
10. Press **ESC** to return to the previous screen.



Displaying Analysis Results

Carry out steps 5 to 19 in section 11.7.

Performing Stuff Bit Computation

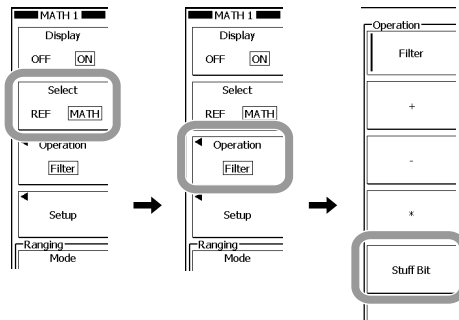


Selecting a Computation Channel

1. Press a key from **M1** to **M4** to select the channel that you want to set up. A channel setup menu appears.
2. Press the **Select** soft key to select MATH.

Selecting an Operator

3. Press the **Operation** soft key.
4. Press the **Stuff Bit** soft key.



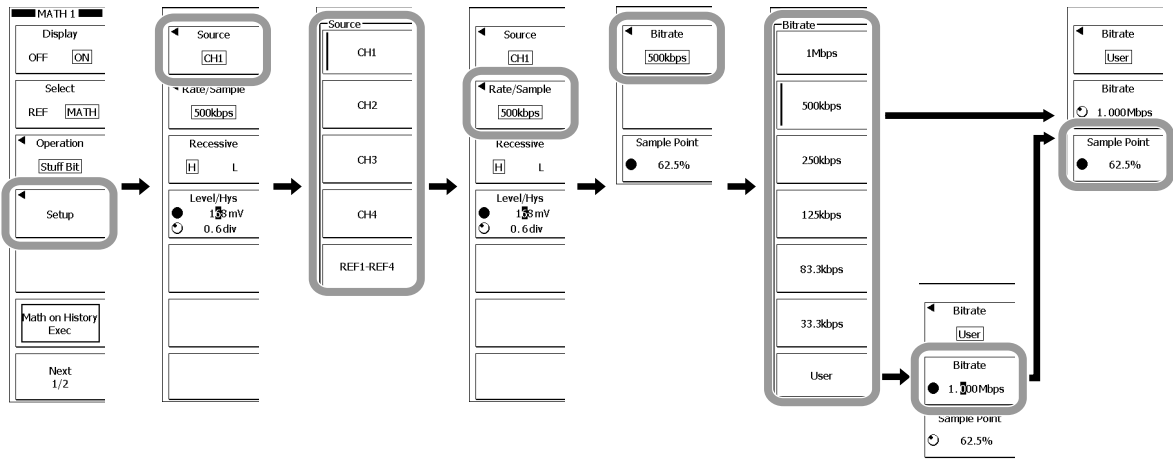
Selecting the Computation Source Waveform

5. Press the **Setup** soft key.
6. Press the **Source** soft key to display the computation source waveform selection menu.
7. Press the appropriate waveform soft key.
To select a channel from REF1 to REF4, press the REF1-REF4 soft key first.

Setting the Bit Rate and Sample Point

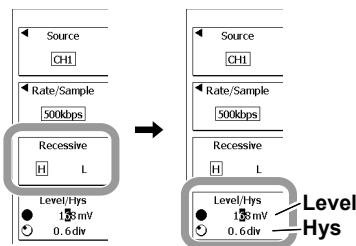
8. Press the **Rate/Sample** soft key.
9. Press the **Bitrate** soft key.
10. Press the appropriate bit rate soft key from **1Mbps** to **33.3kbps**.
If you select the User check box, press the **Bitrate** soft key and use the **rotary knob** to set the bit rate from 10.0 kbps to 1.000 Mbps.
11. Press the **Sample Point** soft key.
12. Use the **rotary knob** to set the sample point from 18.8 to 90.6%.
13. Press **ESC** to return to the previous screen.

4.3 Analyzing a CAN Bus Signal and Performing Stuff Bit Computation



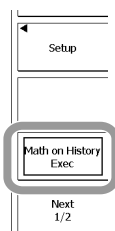
Setting the Bus Level

14. Press the **Recessive** soft key to select H or L.
15. Press the **Level/Hys** soft key.
16. Use the **rotary knob** to set the reference level and hysteresis.
Press the soft key to select the setting that you want to set using the rotary knob.
17. Press **ESC** to return to the previous screen.



Performing Computation on All History Waveforms

18. To perform computation on all history waveforms, press the **Math on History Exec** soft key. Computation is executed, and the Math on History Exec soft key changes to the Abort soft key.
To abort computation, press the **Abort** soft key. Computation is aborted, and the Abort soft key changes to the Math on History Exec soft key.



Explanation

Analysis

Bit Rate

You can select the CAN bus signal transfer rate from the following:
 1 Mbps, 500 kbps, 250 kbps, 125 kbps, 83.3 kbps, and 33.3 kbps

If you select the User check box, you can set the transfer rate from 10.0 kbps to 1.000 Mbps in 0.1-kbps steps.

Sample Point

You can set the point for determining the bus level (recessive or dominant) from 18.8 to 90.6% in 3.1% steps.

The DL9000 CAN bus signal trigger circuit samples the input CAN bus signal using the internal clock and detects the point of change from recessive to dominant. Taking the detected point of change to be 0% and the point that is bit time after the point of change to be 100%, you set the sample point in percentage. The bit time is the reciprocal of the set bit rate. See the illustration on page 3-19.

Source

Select the source waveform from CH1 to CH4 or from M1 to M4.

• **Level**

Set the level for determining whether the signal level is 0 or 1.

The selectable range is ± 10 divisions from the vertical position. The resolution is 0.01 divisions. For example, if the T/div setting is 2 mV/division, the resolution is 0.02 mV.

• **Hysteresis**

The selectable range is from 0.0 to 4.0 divisions. The resolution is 0.1 divisions.

Trigger hysteresis settings \overline{A} and \overline{B} correspond to 0.6 divisions and 1.0 division.

• **Recessive Level**

Set the recessive level to high (H) or low (L). The logical value of the recessive level is 1 and that of the dominant level is 0 in either setting.

H The recessive level is higher than the dominant level.

L The recessive level is less than the dominant level.

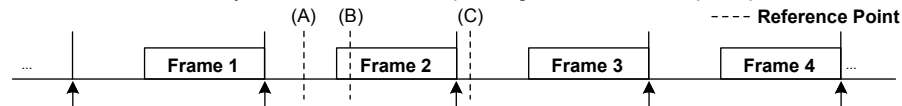
Analysis Reference Point

Select the analysis reference point from the following:

Trig Pos Sets the analysis reference position to the trigger position.

Manual Set the analysis reference position manually. The selectable range is ± 5.00 divisions, and the resolution is 0.01 divisions.

Frame No. 0 in the analysis result list varies depending on the reference point position as follows:



(A): Frame No. 0 → Frame 2 (frame 1 is No. -1, frame 3 is No. 1, and frame 4 is No. 2)

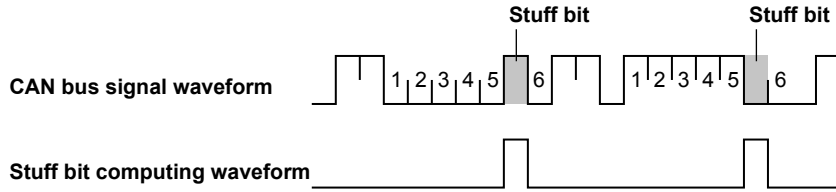
(B): Frame No. 0 → Frame 2 (frame 1 is No. -1, frame 3 is No. 1, and frame 4 is No. 2)

(C): Frame No. 0 → Frame 3 (frame 1 is No. -2, frame 2 is No. -1, and frame 4 is No. 1)

Stuff Bit Computation

In CAN communications, whenever a transmitter detects five consecutive bits of identical value in the Start of Frame to CRC bit sequence, it automatically inserts a complementary bit called a *stuff bit* in the sixth bit.

The DL9000 can extract stuff bits from the CAN bus signal waveform and display them as a MATH waveform.



Computation Source Waveform

Select the source waveform from CH1 to CH4 or from REF1 to REF4.

Bit Rate, Sample Point, Bus Level

See the respective description in “Analysis” on the previous page.

4.4 Analyzing a LIN Bus Signal

Analysis

1. Carry out steps 1 to 4 in section 4.1 to set the analysis type to LIN.
2. Press the **Decode Setup** soft key.
The Decode Setup dialog box appears.

Setting the Bit Rate, Sample Point, and Revision

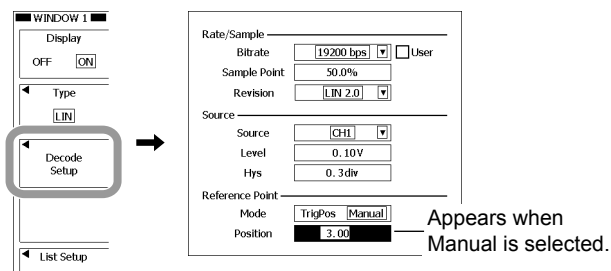
3. Use the **rotary knob** and **SET** to select the bit rate from 19200bps to 1200bps.
If you select the User check box, you will be able to set the bit rate from 1000bps to 20000bps using the **rotary knob** and **SET**.
4. Use the **rotary knob** and **SET** to set the sample point from 18.8 to 90.6%.
5. Use the **rotary knob** and **SET** to set the revision to LIN 2.0, LIN1.3, or Both

Setting the Source

6. Use the **rotary knob** and **SET** to select Source.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4 or from M1 to M4.
 - On the DL9500/DL9700 Series, select the source from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
7. Use the **rotary knob** and **SET** to set the level and hysteresis.
If you selected a signal from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L) in step 6, there are no Level and Hys settings.

Setting the Analysis Reference Point

8. Use the **rotary knob** and **SET** to set the analysis reference point to TrigPos or Manual.
If you select TrigPos, proceed to step 10.
9. Use the **rotary knob** and **SET** to set the analysis reference point in the range of ± 5.00 divisions.
10. Press **ESC** to return to the previous screen.



Displaying Analysis Results

Carry out steps 5 to 19 in section 4.1.

Explanation**Bit Rate**

You can select the LIN bus signal transfer rate from the following:
19200 bps, 9600 bps, 4800 bps, 2400 bps, 1200 bps

If you select the User check box, you can set the transfer rate from 1000 bps to 20000 bps in 10-bps steps.

Sample Point

You can set the point for determining the bus level from 18.8 to 90.6% in 3.1% steps. The DL9000 LIN bus signal trigger circuit samples the input LIN bus signal using the internal clock and detects the point of level change. Taking the detected point of change to be 0% and the point that is bit time after the point of change to be 100%, you set the sample point in percentage. The bit time is the reciprocal of the set bit rate. See the illustration on page 3-19.

Revision

You can select revision 2.0 or 1.3. Select whether to detect enhanced checksum or classic checksum errors. For details on errors, see page 5.4.

LIN 2.0	Detects errors in the enhanced checksum that includes the protection ID. (However, if the ID is a value from 60 (0x3c) to 63 (0x3f), classic checksum errors will be detected.)
LIN 1.3	Detects classic checksum errors only in the data field.
Both	An error occurs when both LIN 2.0 and LIN 1.3 checksum errors are detected. No error occurs, if only one of the errors is detected.

Source

You can select the source.

- On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4 or from M1 to M4.
- On the DL9500/DL9700 Series, select the source from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).

- **Level**

Set the level for determining whether the signal level is 0 or 1.*

The selectable range is ± 10 divisions from the vertical position. The resolution is 0.01 divisions. For example, if the T/div setting is 2 mV/division, the resolution is 0.02 mV.

* If the source is set to a logic signal from A0 to D7, the level is the threshold level that you set according to the instructions in section 5.18 of the *User's Manual IM701331-01E*.

- **Hysteresis**

The selectable range is from 0.0 to 4.0 divisions. The resolution is 0.1 divisions.

Trigger hysteresis settings $\overline{\wedge}$ and $\overline{\vee}$ correspond to 0.6 divisions and 1.0 division.

Analysis Reference Point

Select the analysis reference point from the following:

Trig Pos	Sets the analysis reference position to the trigger position.
Manual	Set the analysis reference position manually. The selectable range is ± 5.00 divisions, and the resolution is 0.01 divisions.

For details on the analysis reference point and the numbers in the analysis result list, see page 4-16.

4.5 Analyzing a SPI Bus Signal

Procedure

1. Carry out steps 1 to 4 in section 4.1 to set the analysis type to SPI.
2. Press the **Decode Setup** soft key.
The Decode Setup dialog box appears.

Selecting the Wiring System and Bit Order

3. Use the **rotary knob** and **SET** to select the Setup tab.
You can also press the Setup soft key.
4. Use the **rotary knob** and **SET** to set the mode to 3 wire or 4 wire and the bit order to MSB or LSB.

Setting the Field Size and the Enabled Bit Range

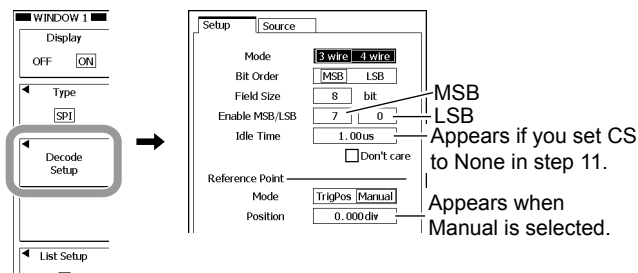
5. Use the **rotary knob** and **SET** to set the field size to a value from 4 to 32 bits, and then set Enable MSB/LSB.

Selecting the Clock Idle Time

6. If you set the CS source to None in step 11 on the next page, Use the **rotary knob** and **SET** to set the clock's idle time to a value from 10 ns to 1 ms. If you select the Don't care check box, analysis will start from the left of the screen, regardless of the set idle time value.

Setting the Analysis Reference Point

7. Use the **rotary knob** and **SET** to set the analysis reference point to TrigPos or Manual.
If you select TrigPos, proceed to step 9.
8. Use the **rotary knob** and **SET** to set the analysis reference point in the range of ± 5.00 divisions.



Setting the CS, Clock, and Data Sources

9. Use the **rotary knob** and **SET** to select the Source tab.
You can also press the Source soft key to select the tab.
If you are using the DL9040/DL9140/DL9240 Series, proceed to step 11.
10. Use the **rotary knob** and **SET** to set Select to Analog or Logic.
If you are using the DL9500/DL9700 Series, carry out this step.

- **Setting the CS Source**

- 11.** Use the **rotary knob** and **SET** to select the CS (chip select) source.
 - On the DL9040/DL9140/DL9240 Series, select the source from None, from CH1 to CH4, or from M1 to M4.
 - On the DL9500/DL9700 Series:
 - If you selected Analog in step 10 on the previous page, select the source from None, from CH1 to CH4, or from M1 to M4.
 - If you selected Logic in step 10, select the source from None, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from None, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
 - If you set the CS source to None, set the clock's idle time in steps 3 and 6. Afterwards, proceed to step 13.
- 12.** Use the **rotary knob** and **SET** to set Active to H or L.

- **Setting the Clock Source**

- 13.** Use the **rotary knob** and **SET** to select the clock source.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4 or from M1 to M4.
 - On the DL9500/DL9700 Series:
 - If you selected Analog in step 10, select the source from CH1 to CH4 or from M1 to M4.
 - If you selected Logic in step 10, select the source from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L).
- 14.** Use the **rotary knob** and **SET** to set the polarity to \uparrow or \downarrow .

- **Setting the Data Source**

- 15.** Use the **rotary knob** and **SET** to select the data source.
 - If you select 4 wire in step 4 on the previous page, select the source for Data1 and Data 2 separately.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4 or from M1 to M4.
 - On the DL9500/DL9700 Series:
 - If you selected Analog in step 10 on the previous page, select the source from CH1 to CH4 or from M1 to M4.
 - If you selected Logic in step 10, select the source from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L).
- 16.** Use the **rotary knob** and **SET** to set Active to H or L.

4.5 Analyzing a SPI Bus Signal

Setting the Level and Hysteresis

Set the level and hysteresis if you are using the DL9500/DL9700 Series and you selected Analog in step 10, or if you are using the DL9040/DL9140/DL9240 Series.

17. Use the **rotary knob** and **SET** to select Setup under Level/Hys.
The Level/Hys dialog box appears.

18. Use the **rotary knob** and **SET** to set the level and hysteresis for each source.

19. Press **ESC** to return to the previous screen.

On the DL9040/DL9140/DL9240 Series

CS [CH4]
Level: 0.00V
Hys: 0.3

Clock [CH1]
Level: 0.0V
Hys: 0.3div

Data 1 [CH2]
Level: 10.00V
Hys: 0.1div

Data 2 [CH3]
Level: 0.00V
Hys: 0.3div

Level/Hys: Setup

On the DL9500/DL9700 Series

When Analog is selected in step 10 on the previous page

Select: Analog Logic

CS [CH4]
Level: 0.00V
Hys: 0.3

Clock [CH1]
Level: 0.0V
Hys: 0.3div

Data 1 [CH2]
Level: 10.00V
Hys: 0.1div

Data 2 [CH3]
Level: 0.00V
Hys: 0.3div

Level/Hys: Setup

When Logic is selected in step 10 on the previous page

Select: Analog Logic

CS [A3]
Level: 0.00V
Hys: 0.3

Clock [A0]
Level: 0.0V
Hys: 0.3div

Data 1 [A1]
Level: 10.00V
Hys: 0.1div

Data 2 [A2]
Level: 0.00V
Hys: 0.3div

Level/Hys: Setup

If you selected 3 wire in step 4 on the previous page, one data item will appear, because there is only one data source.

20. Press **ESC** to return to the previous screen.

Displaying Analysis Results

Carry out steps 5 to 19 in section 4.1.

Explanation

Wiring System

Select the wiring system from the following:

Three-wire	Analyzes the data on a single data line.
Four-wire	Analyzes the data on Data 1 and Data 2 lines.

Bit Order

You can set the bit order to MSB or LSB based on the data stream.

Field Size

You can set the field size.

It can be set to a value from 4 to 32 bits.

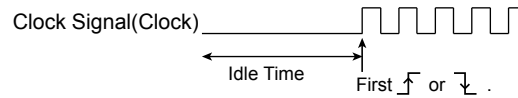
Enabled Bit Range

You can specify the range of bits to enable within the field. Enter the MSB in the box on the left and the LSB in the box on the right.

Only the enabled bits are analyzed.

Clock Idle Time

If you set the CS source to None, the DL9000 will treat the first rising or falling edge of the clock signal after the specified idle time has elapsed as the data start position. If you select the Don't care check box, analysis will start from the left of the screen, regardless of the set idle time value.



CS, Clock, and Data

You can select the CS (chip select), clock, and data sources.

- On the DL9040/DL9140/DL9240 Series, select the sources from None*¹, from CH1 to CH4, or from M1 to M4.
- On the DL9500/DL9700 Series, select the sources from None*¹, from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from None*¹, from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).

*¹ None can only be selected for CS. If you set CS to None, the DL9000 uses the Idle Time setting to determine the data start position.



CS

You can select on which CS level to analyze the data.

H	When the signal is high
L	When the signal is low

Clock

You can select on which clock edge to determine the data status.

	On the rising edge
	On the falling edge

Data 1 and Data 2

You can select which data status to assign to 1 (active) or 0.

H	Set to 1 when the data status is greater than or equal to the specified level or 0 otherwise.
L	Set to 1 when the data status is less than or equal to the specified level or 0 otherwise.

Level

Set the reference level for CH1 to CH4 and M1 to M4.*²

The selectable range is ± 10 divisions from the vertical position. The resolution is 0.01 divisions. For example, if the T/div setting is 2 mV/division, the resolution is 0.02 mV.

*² If the source is set to a logic signal from A0 to D7, the level is the threshold level that you set according to the instructions in section 5.18 of the *User's Manual IM701331-01E*.

Hysteresis

Set the hysteresis for CH1 to CH4 and M1 to M4.

The selectable range is from 0.0 to 4.0 divisions. The resolution is 0.1 divisions.

Trigger hysteresis settings $\overline{\text{A}}$ and $\overline{\text{Z}}$ correspond to 0.6 divisions and 1.0 division.

Analysis Reference Point

Select the analysis reference point from the following:

Trig Pos	Sets the analysis reference position to the trigger position.
Manual	Set the analysis reference position manually. The selectable range is ± 5.00 divisions, and the resolution is 0.01 divisions.

For details on the analysis reference point and the numbers in the analysis result list, see page 4-12.

4.6 Analyzing an UART Signal

Analysis

1. Carry out steps 1 to 4 in section 4.1 to set the analysis type to UART.
2. Press the **Decode Setup** soft key.
The Decode Setup dialog box appears.

Setting the Bit Rate, Sample Point, Format, Bit Order, and Parity

3. Use the **rotary knob** and **SET** to select the bit rate from 115200bps to 1200bps. If you select the User check box, you will be able to set the bit rate from 1000bps to 200000bps using the **rotary knob** and **SET**.
4. Use the **rotary knob** and **SET** to set the sample point from 18.8 to 90.6%.
5. Use the **rotary knob** and **SET** to select the format from 8bit + Parity to 8bit(NonParity).
6. Use the **rotary knob** and **SET** to set the bit order to MSB or LSB.
7. If the format is 8bit + Parity or 7bit + Parity, set the parity to Even or Odd using the **rotary knob** and **SET**.

Setting the Source

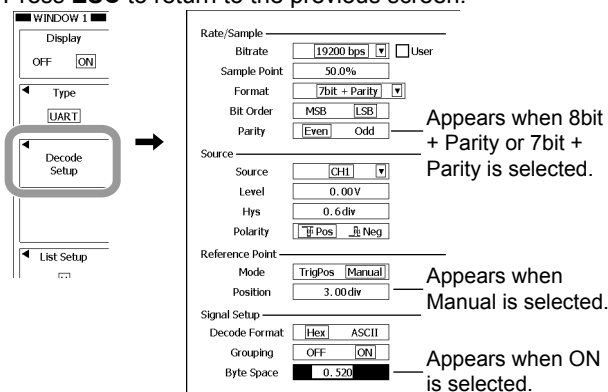
8. Use the **rotary knob** and **SET** to select Source.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4 or from M1 to M4.
 - On the DL9500/DL9700 Series, select the source from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
9. Use the **rotary knob** and **SET** to set the level, hysteresis, and polarity.
If you selected a signal from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L) in step 8, there are no Level and Hys settings.

Setting the Analysis Reference Point

10. Use the **rotary knob** and **SET** to set the analysis reference point to TrigPos or Manual.
If you select TrigPos, proceed to step 12.
11. Use the **rotary knob** and **SET** to set the analysis reference point in the range of ± 5.00 divisions.

Setting the Analysis Result Display Mode

12. Use the **rotary knob** and **SET** to set Decode Format to Hex or ASCII.
13. Use the **rotary knob** and **SET** to set Grouping to ON or OFF.
If you select OFF, proceed to step 15.
14. Use the **rotary knob** and **SET** to set Byte Space.
15. Press **ESC** to return to the previous screen.



Displaying Analysis Results

Carry out steps 5 to 19 in section 4.1.

Explanation**Bit Rate**

You can set the CAN bus signal transfer rate to

115200 bps, 57600 bps, 38400 bps, 19200 bps, 9600 bps, 4800 bps, 2400 bps, or 1200 bps

If you select the User check box, you can set the transfer rate from 1000 bps to 200000 bps in 100-bps steps.

Sample Point

You can set the point for determining the signal level from 18.8 to 90.6% in 3.1% steps.

The DL9000 UART signal trigger circuit samples the input UART signal using the internal clock and detects the point of level change. Taking the detected point of change to be 0% and the point that is bit time after the point of change to be 100%, you set the sample point in percentage. The bit time is the reciprocal of the set bit rate. See the illustration on page 3-19.

Format

You can select the format from the following:

8bit + Parity	8-bit data + parity bit
7bit + Parity	7-bit data + parity bit
8bit(NonParity)	8-bit data with no parity bit

Bit Order

Select the input signal bit order.

MSB	Reads the data pattern MSB first.
LSB	Reads the data pattern LSB first.

Parity

Set the parity bit to even or odd.

Source

You can select the source.

- On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4 or from M1 to M4.
- On the DL9500/DL9700 Series, select the source from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).

- **Level**

Set the level for determining whether the signal level is 0 or 1.*

The selectable range is ± 10 divisions from the vertical position. The resolution is 0.01 divisions. For example, if the T/div setting is 2 mV/division, the resolution is 0.02 mV.

* If the source is set to a logic signal from A0 to D7, the level is the threshold level that you set according to the instructions in section 5.18 of the *User's Manual IM701331-01E*.

- **Hysteresis**

The selectable range is from 0.0 to 4.0 divisions. The resolution is 0.1 divisions.

Trigger hysteresis settings $\overline{\wedge}$ and $\overline{\vee}$ correspond to 0.6 divisions and 1.0 division.

4.6 Analyzing an UART Signal

- **Polarity**

You can select the bit state that will be considered logical 1.

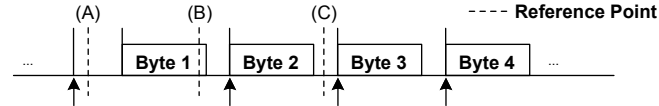
Pos	Positive logic
Neg	Negative logic

Analysis Reference Point

Select the analysis reference point from the following:

Trig Pos	Sets the analysis reference position to the trigger position.
Manual	Set the analysis reference position manually. The selectable range is ± 5.00 divisions, and the resolution is 0.01 divisions.

Byte No. 0 in the analysis result list varies depending on the reference point position as follows:



(A): Byte No. 0 → Byte 1 (Byte 2 is No. 1, byte 3 is No. 2, and so on)

(B): Byte No. 0 → Byte 1 (Byte 2 is No. 1, byte 3 is No. 2, and so on)

(C): Byte No. 0 → Byte 2 (byte 1 is No. -1, byte 3 is No. 1, and byte 4 is No. 2, and so on)

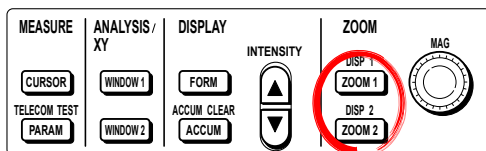
Analysis Result Display Mode

- You can set the data display format to hexadecimal or ASCII.
 - For ASCII, code names appear for control codes such as LF.
 - Data values that are greater than or equal to 7F appear in hexadecimal even if you select ASCII.
- You can select whether or not to display data that are shorter than the specified byte space as one consolidated group data.
- Byte space time

Selectable range	From the time corresponding to the sum of the number of bits in the UART signal data format and 2 bits to 100 ms The 2 bits above correspond to the start and stop bits. For example, if the data format is 8 bits + a parity bit, the time is equal to: Data (8) + Parity Bit (1) + Start Bit (1) + Stop Bit (1) = 11 bits
Resolution	Time corresponding to 1 bps
Default value	The time corresponding to the sum of the number of bits in the UART signal data format and 2 bits

5.1 Selecting the Serial Bus Signal and Skip Mode, Executing the Search, and Displaying the Results

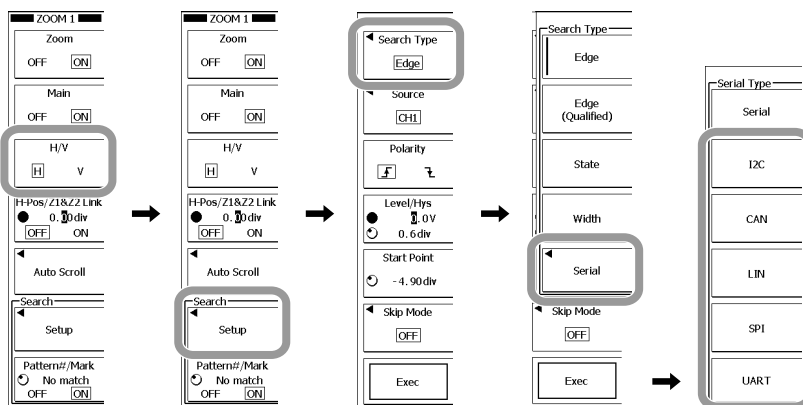
Procedure



1. Press **ZOOM1** or **ZOOM2**.
The ZOOM menu appears.
2. Press the **H/V** soft key to select H.

Selecting a Search Type

3. Press these soft keys: **Setup > Search Type > Serial**.
The Search Type menu appears.
4. From the menu that appears, press the appropriate soft key to select the search type of the serial bus signal.
5. Proceed to the appropriate section indicated below according to the selected search type, and then set the search options.
 - I2C: Section 5.2
 - CAN: Section 5.3
 - LIN: Section 5.4
 - SPI: Section 5.5
 - UART: Section 5.6

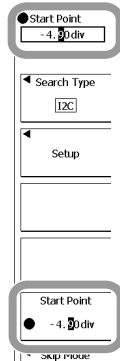


5.1 Selecting the Serial Bus Signal and Skip Mode, Executing the Search, and Displaying the Results

After setting the search options according to step 5 on the previous page, return to the Search Type menu, and proceed with the following steps.

Setting the Search Start Point

6. Press the **Start Point** soft key.
7. Use the **rotary knob** to set the search start point.

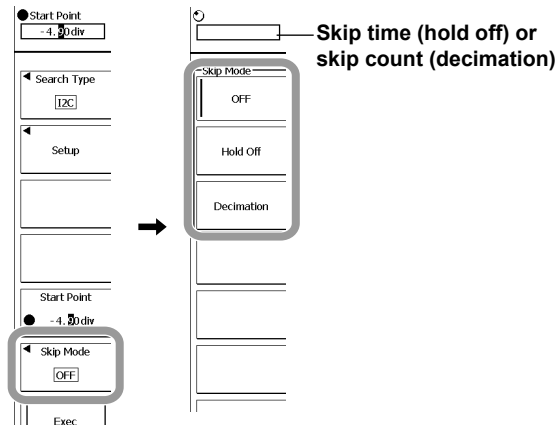


Selecting a Skip Mode

If necessary, select a skip mode.

The skip mode feature is not available for LIN or UART.

8. Press the **Skip Mode** soft key.
9. Press a soft key from **OFF** to **Decimation** to select the skip mode.
10. Use the **rotary knob** to set the time or search count to skip.
11. Press **ESC** to return to the previous screen.



Executing the Search

12. Press the **Exec** soft key. A section that meets the search conditions appears in the zoom window.

The Exec soft key changes to the Abort soft key. To stop the search, press the **Abort** key.

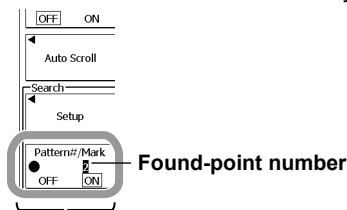
Displaying Search Results

13. Use the **rotary knob** to select a found-point number.

The waveform that corresponds to the number appears in the zoom waveform area.

Turning a Found-Point Mark ON and OFF

14. Press the **Pattern#/Mark** soft key to select ON or OFF.



Turn found-point marks ON and OFF

You can display found-point marks at the top edge of the main and zoom windows. Found-point marks indicate the waveform positions that were found. The found-point mark that matches the found-point number is highlighted.

Explanation

Search Type

This manual describes I²C, CAN, LIN, SPI, and UART serial bus signal search features. The DL9000 searches for sections in the target signal that meet specified conditions and zooms in on the sections. For information about other search features, see the *User's Manual IM701310-01E* or *IM701331-01E*.

Search Start Point

The selectable range is ±5.00 divisions. The resolution is 0.01 divisions.

Skip Mode

After finding a point that meets the search conditions, the DL9000 skips searching for the specified time or count.

OFF	Searches all found points.
Hold Off	Skips searching for the specified time. The selectable range is 0.1 ns to 1.00000 s (six significant digits). The resolution is 0.1 ns.
Decimation	Skips searching for the specified count. The selectable range is 1 to 9999.

Displaying Search Results

Numbers are assigned to the points that are found. Zero is assigned to the first found point, one is assigned to the second found point, and so on.

- The maximum found-point number is 4999.
- You can display the waveform that corresponds to the selected found-point number in the zoom waveform area.

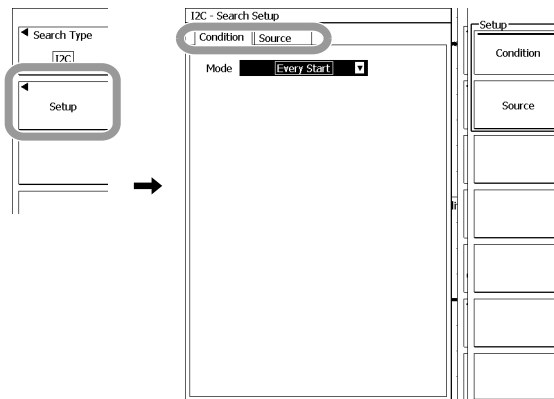
5.2 Searching I²C Bus Signals

Procedure

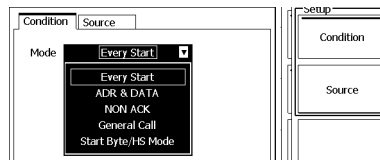
1. Carry out steps 1 to 5 in section 5.1 to set the search type to I2C.
2. Press the **Setup** soft key.
The Setup dialog box appears.

Selecting the Mode

3. Use the **rotary knob** and **SET** to select the Condition tab.
You can also press the Condition soft key to select the tab.



4. Use the **rotary knob** and **SET** to select the mode from Every Start to Start Byte/HS Mode.



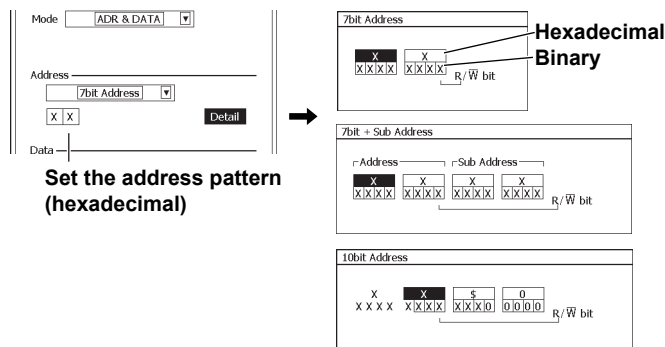
Proceed to the steps on the pages indicated below according to the selected mode.

- Every Start: Step 10 on page 5-7
- ADR & DATA: Step 5 on page 5-5
- NON ACK: Step 5 on page 5-6
- General Call: Step 6 on page 5-6
- Start Byte/HS Mode: Step 8 on page 5-6

When the Mode Is ADR & DATA

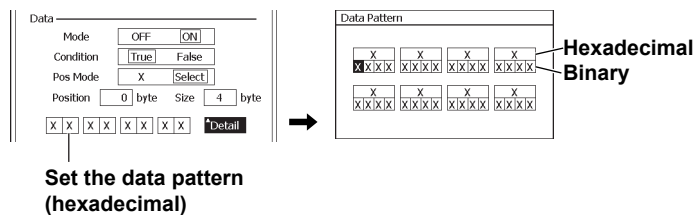
• Setting the Address Search Condition

5. Use the **rotary knob** and **SET** to select the address type from 7bit Address to 10bit Address.
6. Use the **rotary knob** and **SET** to set the address pattern to compare with. You can also set the address pattern by selecting Detail to open a dialog box and use the **rotary knob** and **SET** and soft keys. When you are done setting the address pattern, press **ESC** to return to the previous screen.



• Setting the Data Search Condition

7. Use the **rotary knob** and **SET** to set the mode to ON or OFF. Select ON to use the data as a search condition. Select OFF to not use it as a search condition. If you select OFF, proceed to step 10 on page 5-7.
8. Use the **rotary knob** and **SET** to set the condition to True or False, set Pos Mode to X or Select, and set the position and size.
9. Use the **rotary knob** and **SET** to set the data pattern to compare with. You can also set the data pattern by selecting Detail to open a dialog box and use the **rotary knob** and **SET** and soft keys. When you are done setting the data pattern, press **ESC** to return to the previous screen.

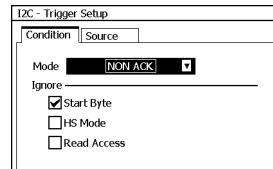


Proceed to step 10 on page 5-7.

When the Mode Is NON ACK

- 5. Use the **rotary knob** and **SET** to select whether or not to ignore these Nack bits: Start Byte, HS Mode, and Read Access.

The Nack bits whose check box is selected will not be used as search conditions. The search condition is met when the DL9000 detects any of the Nack bits whose check box is not selected.



Proceed to step 10 on page 5-7.

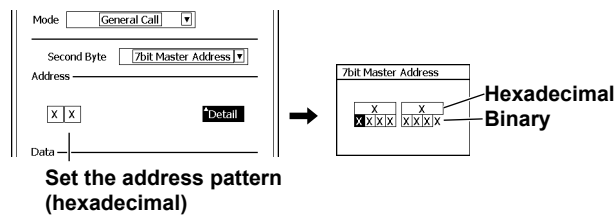
When the Mode Is General Call

- **Setting the Second Byte Search Condition**

- 6. Use the **rotary knob** and **SET** to select the second byte format from X to 7bit Master Address.

If you select X, 0000 0100, or 0000 0110, proceed to step 10 on page 5-7.

- 7. Use the **rotary knob** and **SET** to set the address pattern to compare with. You can also set the address pattern by selecting Detail to open a dialog box and use the **rotary knob** and **SET** and soft keys. When you are done setting the address pattern, press **ESC** to return to the previous screen.



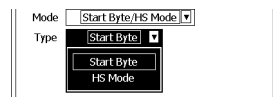
- **Setting the Data Search Condition**

Set the search condition according to steps 7 to 9 on the previous page.

Proceed to step 10 on page 5-7.

When the Mode Is Start Byte/HS Mode

- 8. Use the **rotary knob** and **SET** to set the type (master code) to Start Byte or HS Mode.



Proceed to step 10 on page 5-7.

Setting the SDA, SCL, and Qualification

10. Use the **rotary knob** and **SET** to select the Source tab.
You can also press the Source soft key to select the tab.
If you are using the DL9040/DL9140/DL9240 Series, proceed to step 12.
11. Use the **rotary knob** and **SET** to set Select to Analog or Logic.
If you are using the DL9500/DL9700 Series, carry out this step.

Setting the SDA Source

12. Use the **rotary knob** and **SET** to select the SDA (serial data) source.
 - On the DL9040/DL9140/DL9240 Series, select from CH1 to CH4 or from M1 to M4.
 - On the DL9500/DL9700 Series:
 - If you selected Analog in step 11, select the source from CH1 to CH4 or from M1 to M4.
 - If you selected Logic in step 11, select the source from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L).

Setting the SCL Source

13. Use the **rotary knob** and **SET** to select the SCL (serial clock) source.
 - On the DL9040/DL9140/DL9240 Series, select from CH1 to CH4 or from M1 to M4.
 - On the DL9500/DL9700 Series:
 - If you selected Analog in step 11, select the source from CH1 to CH4 or from M1 to M4.
 - If you selected Logic in step 11, select the source from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L).

Setting the Qualification

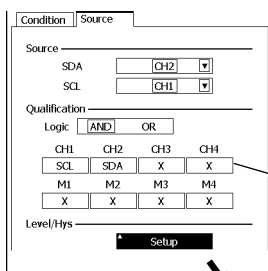
14. Use the **rotary knob** and **SET** to set the logic to AND or OR.
15. Use the **rotary knob** and **SET** to set the state of signals other than those selected for the SDA and SCL to H, L, or X.
On the DL9500/DL9700 Series, if you selected Logic in step 11, select Qualification. In the dialog box that appears, use the **rotary knob** and **SET** to select H, L, or X. When you are done setting the states, press **ESC** to return to the previous screen.

Setting the Level and Hysteresis

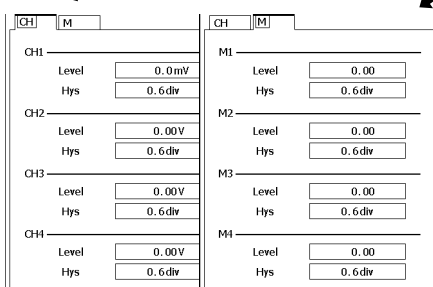
Set the level and hysteresis if you are using the DL9500/DL9700 Series and you selected Analog in step 11, or if you are using the DL9040/DL9140/DL9240 Series.

16. Use the **rotary knob** and **SET** to select Setup under Level/Hys.
The Level/Hys dialog box appears.
17. Use the **rotary knob** and **SET** to set the level and hysteresis for each source.

On the DL9040/DL9140/DL9240 Series

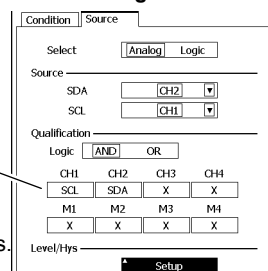


You can select the status of the CH1 to CH4 and M1 to M4 signals excluding the signals selected for SDA and SCL sources.

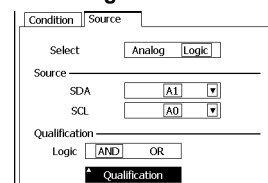


On the DL9500/DL9700 Series

When Analog is selected in step 11



When Logic is selected in step 11



		7	6	5	4	3	2	1	0
		A7	A6	A5	A4	A3	A2	A1	A0
Pod A		X	X	X	X	X	X	X	X
Pod B		B7	B6	B5	B4	B3	B2	B1	B0
Pod B		X	X	X	X	X	X	X	X
Pod C		C7	C6	C5	C4	C3	C2	C1	C0
Pod C		X	X	X	X	X	X	X	X
Pod D		D7	D6	D5	D4	D3	D2	D1	D0
Pod D		X	X	X	X	X	X	X	X

You can set the status of the A0 to A7, B0 to B7, C0 to C7, and D0 to D7 signals (A0 to A7 and C0 to C7 on the DL9505L/DL9510L) excluding the signals that are assigned to SDA and SCL sources.

Executing the Search

Carry out steps 6 to 14 in section 5.1.

Explanation

This feature searches I²C bus signals. For details on the I²C bus signal data format, see “Explanation” in section 3.1.

Modes

Set the I²C search mode to Every Start, ADR & DATA, NON ACK, General Call, or Start Byte/HS Mode.

Address

- You can set the address type to 7bit Address, 7bit + Sub Address, or 10bit Address.
- Set the address pattern in hexadecimal or binary notation. The address search condition is met when the specified address pattern matches the input signal address pattern.
 - If you specify X, the condition is assumed to be met regardless of the corresponding bit status.
 - If a binary pattern contains any Xs, the corresponding hexadecimal display will be “\$.”

Data

You can select whether or not to use the data pattern as a search condition.

- Comparison Condition
The data search condition is met when the result of comparing the input signal pattern with the specified pattern meets the selected comparison condition.

True	When the patterns match
False	When the patterns don't match

- Comparison Start Position
In the Pos Mode setting, you can set the comparison start point to the specified point (Select) or don't care (X). If you select Select, the DL9000 skips the specified number of bytes and starts comparing from the next data byte.
Selectable range: 0 to 9999
- Data Size
Set how many consecutive data bytes you want to compare.
Selectable range: 1 to 4
- Data Pattern
Set the data pattern for the specified size in hexadecimal or binary notation.
 - If you specify X, the condition is assumed to be met regardless of the corresponding bit status.
 - If a binary pattern contains any Xs, the corresponding hexadecimal display will be “\$.”

SDA, SCL, and Qualification

SDA and SCL Sources

You can select the serial data (SDA) and serial clock (SCL) sources.

- On the DL9040/DL9140/DL9240 Series, select the sources from CH1 to CH4 or from M1 to M4.
- On the DL9500/DL9700 Series, select the sources from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).

Level

Set the level for determining whether the signal level is 0 or 1 for CH1 to CH4 and M1 to M4.*

The selectable range is ± 10 divisions from the vertical position. The resolution is 0.01 divisions. For example, if the T/div setting is 2 mV/division, the resolution is 0.02 mV.

* If the source is set to a logic signal from A0 to D7, the level is the threshold level that you set according to the instructions in section 5.18 of the *User's Manual IM701331-01E*.

Hysteresis

Set the hysteresis for CH1 to CH4 and M1 to M4.

The selectable range is from 0.0 to 4.0 divisions. The resolution is 0.1 divisions.

Trigger hysteresis settings \overline{A} and \overline{V} correspond to 0.6 divisions and 1.0 division.

Qualification and Logic

Qualification

Set the state of signals other than those selected for the SDA and SCL to H, L, or X. This search requirement is called qualification requirement. The qualification requirement is met when the selected state matches the input signal state.

H	When the signal is high
L	When the signal is low
X	Not used as a search condition (Don't care)

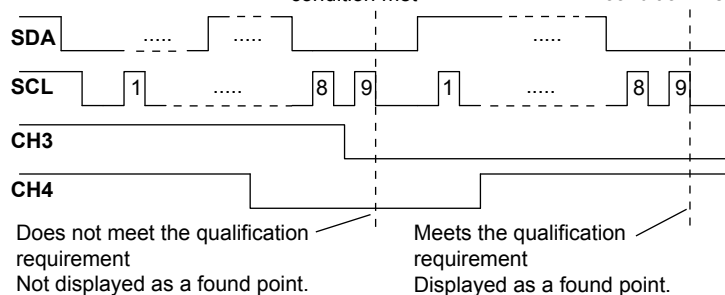
* The level for determining high or low is the level that you set above when you set the signal to a channel from CH1 to CH4 or from M1 to M4. If the source is set to a signal from A0 to D7, the level is the threshold level that you set according to the instructions in section 5.18 of the *User's Manual IM701331-01E*.

Logical Condition

You can select the logical condition for the qualification and the search condition for the I²C bus signal that you set in each mode. The DL9000 searches for points where the logic condition is met.

AND	When the qualification requirement and the I ² C bus signal search condition are both met
OR	When either the qualification requirement or the I ² C bus signal search condition is met

CH3 = L, CH4 = H, Logic = AND I²C bus signal search condition met I²C bus signal search condition met



Note

To search using only the I²C bus signal search condition (SDA and SCL signals), specify the settings as follows:

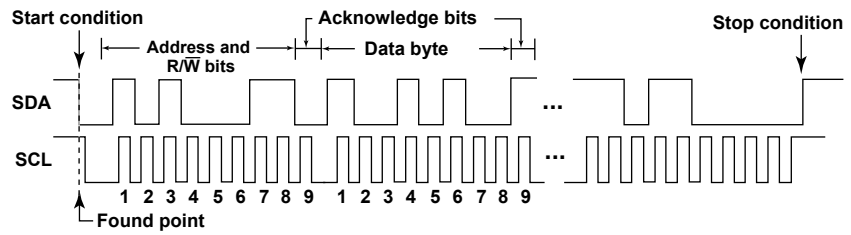
- The state of signals other than those selected for the SDA and SCL: X (don't care)
- Logic: AND

Found Point

The points that the DL9000 finds vary depending on the mode as follows:

• **Every Start mode**

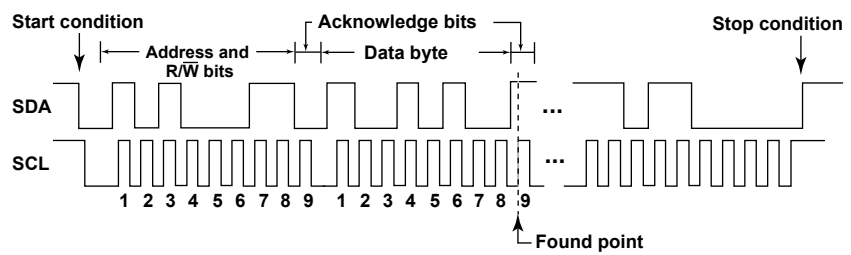
Like the trigger point, the found point will be at the falling edge of the SDA signal.



• **A mode other than Every Start**

The found point will be at the rising edge of the acknowledge bit after the specified condition is met.

The following example is for the case when the mode is ADR & DATA, but it applies to other search modes as well.



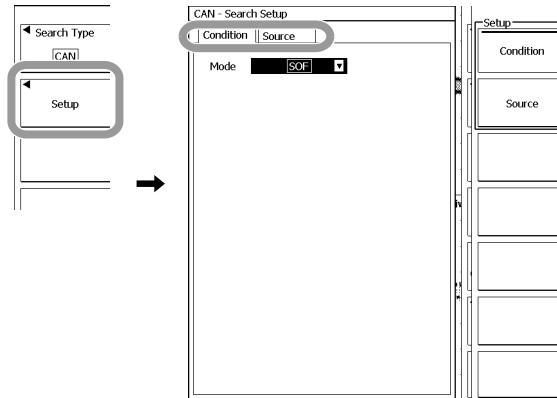
5.3 Searching CAN Bus Signals

Procedure

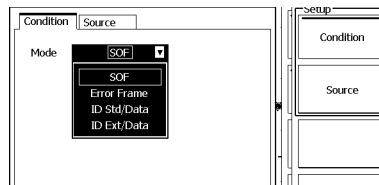
1. Carry out steps 1 to 5 in section 5.1 to set the search type to CAN.
2. Press the **Setup** soft key.
The Setup dialog box appears.

Selecting the Mode

3. Use the **rotary knob** and **SET** to select the Condition tab.
You can also press the Condition soft key to select the tab.



4. Use the **rotary knob** and **SET** to select the mode from SOF to ID Ext/Data.



Proceed to the steps on the pages indicated below according to the selected mode.

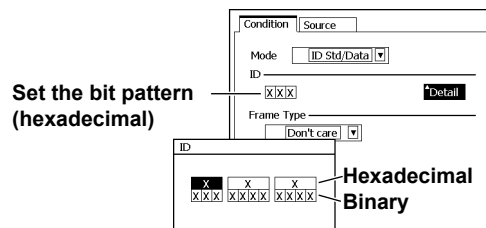
- SOF: Step 12 on page 5-14
- Error Frame: Step 12 on page 5-14
- ID Std/Data: Step 5 on page 5-12
- ID Ext/Data: Step 5 on page 5-12

When the Mode Is ID Std/Data or ID Ext/Data

This section will explain the procedure using ID Std/Data mode as an example. The procedure is the same for ID Ext/Data mode.

- **Setting the ID Bit Pattern Search Condition**

5. Use the **rotary knob** and **SET** to set the bit pattern to compare with.
You can also set the bit pattern by selecting Detail to open a dialog box and use the **rotary knob** and **SET** and soft keys. When you are done setting the bit pattern, press **ESC** to return to the previous screen.



- **Setting the Frame Type Search Condition**

6. Use the **rotary knob** and **SET** to select the Frame Type comparison condition from Don't care to Data.
If you select Don't care or Remote, proceed to step 11 on page 5-13.
7. Use the **rotary knob** and **SET** to set the DLC.



- **Setting the Data Search Condition**

8. Use the **rotary knob** and **SET** to select the data comparison condition from Don't care to Out of Range.
 - If you select Don't care, proceed to step 11 on page 5-13.
 - If you select a condition from Greater to Out of Range, proceed to step 10.
9. Use the **rotary knob** and **SET** to set the data pattern to compare with.
You can also set the data pattern by selecting Detail to open a dialog box and use the **rotary knob** and **SET** and soft keys. When you are done setting the data pattern, press **ESC** to return to the previous screen.

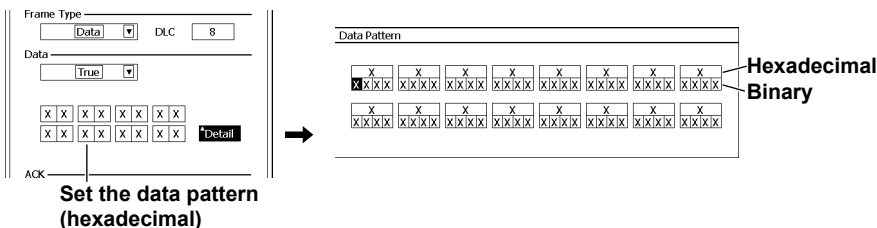
10. Use the rotary knob and SET to set the data to compare in each entry box.
Set each item according to the comparison condition you selected in step 8.

Comparison Condition	Setting				
	Detail	Data(Dec)	Byte Order	Sign	MSB/LSB
True, False	Yes	No	No	No	No
Greater/Equal, Less/Equal	No	Yes ¹	Yes	Yes	Yes
Between, Out of Range	No	Yes ²	Yes	Yes	Yes

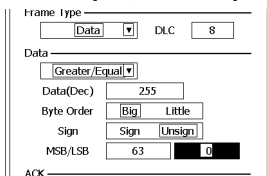
Yes: Set, -: Not set

- Detail: Data pattern (hexadecimal or binary)
- Data(Dec): Reference value (decimal)
 - 1 Set one reference value.
 - 2 Set two reference values to define a reference range. Set the lower limit in the left entry box and the upper limit in the right entry box.
- Byte Order: Data order
- Sign: Signed or unsigned
- MSB/LSB: Most significant and least significant bit positions
Set the MSB in the left entry box and the LSB in the right entry box.

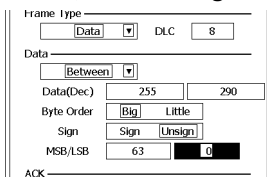
True, False



Greater/Equal, Less/Equal



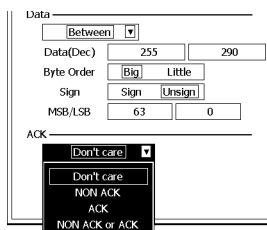
Between, Out of Range



• **Setting the ACK Search Condition**

11. Use the rotary knob and SET to select the ACK condition from Don't care to NON ACK or ACK.

If you select Don't care, it will not be used as a search condition.



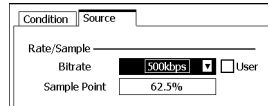
Proceed to step 12 on page 5-14.

Setting the Bit Rate, Sample Point, Level, Hysteresis, and Recessive Level

- 12.** Use the **rotary knob** and **SET** to select the Source tab.
You can also press the Source soft key to select the tab.

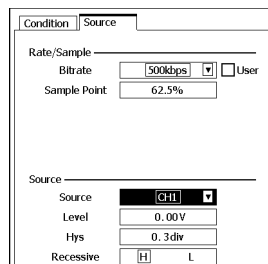
Setting the Bit Rate and Sample Point

- 13.** Use the **rotary knob** and **SET** to select the bit rate from 1Mbps to 33.3kbps.
If you select the **User** check box, you will be able to set the bit rate from 10.0kbps to 1.000Mbps using the **rotary knob** and **SET**.
- 14.** Use the **rotary knob** and **SET** to set the sample point from 18.8 to 90.6%.



Setting the Level, Hysteresis, and Recessive Level

- 15.** Use the **rotary knob** and **SET** to select the source from CH1 to CH4 or from M1 to M4.
- 16.** Use the **rotary knob** and **SET** to set the level and hysteresis.
- 17.** Use the **rotary knob** and **SET** to set Recessive to H or L.



Executing the Search

Carry out steps 6 to 14 in section 5.1.

Explanation

This feature searches CAN bus signals. For details on the CAN bus signal frame format, see “Explanation” in section 3.2.

Modes

Set the CAN search mode to SOF, Error Frame, ID Std/Data, and ID Ext/Data.

SOF Mode

Searches for the frame start point of a CAN bus signal.

SOF: Start of Frame

Error Frame Mode

The DL9000 searches for the point of error when the error frame’s error flag is active.

ID Std/Data and ID Ext/Data Modes

ID Std/Data mode is used to search the data frame or remote frame in standard format.

ID Ext/Data mode is used to search the data frame or remote frame in extended format.

The DL9000 searches using the AND logic of ID, Frame Type, Data, and ACK conditions.

The settings in ID Std/Data mode are shared with the settings in ID Ext/Data mode.

- **ID**

Set the ID bit pattern in hexadecimal or binary notation. The ID bit pattern is 11 bits in standard format and 29 bits in extended format. The ID search condition is met when the specified bit pattern matches the input signal ID bit pattern.

- If you specify X, the condition is assumed to be met regardless of the corresponding bit status.
- If a binary pattern contains any Xs, the corresponding hexadecimal display will be “\$.”

- **Frame Type**

The DL9000 can be configured to search the remote frame or data frame.

- **Selecting the Frame**

A CAN bus signal frame contains a Remote Transmission Request (RTR) bit that indicates whether the frame is a remote frame or a data frame. Select the frame to search.

Don't care	Searches both remote frames and data frames.
Remote	Searches remote frames.
Data Frame	Searches data frames.

If you select Don't care or Remote, the DLC and Data search conditions in the next section will be ignored.

- **DLC (Data Length Code)**

Set the data field length. The DLC search condition is met when the input signal DLC value matches the reference value. Set this value only when the frame type is set to Data Frame.

Selectable range: 0 to 8

If you set this value to zero, the data search conditions in the next section will be ignored.

5.3 Searching CAN Bus Signals

- **Data**

You can use the Data Field value as a search condition. Set this value only when the frame type is set to Data Frame.

- Comparison Condition

The data search condition is met when the result of comparing the input signal data field values with the reference values meets the selected comparison condition.

Don't care	Not used as a search condition
True	When the input signal value meets the reference value
False	When the input signal value does not match the reference value
Greater/Equal	When the input signal value is greater than or equal to the reference value
Less/Equal	When the input signal value is less than or equal to the reference value
Between	When the input signal value is within the reference range that includes the boundary reference values
Out of Range	When the input signal value is outside the reference range that excludes the boundary reference values

- Data Pattern

Set the data pattern for the length specified by DLC in hexadecimal or binary notation. The data pattern is valid only when the comparison condition is set to true or false.

- If you specify X, the condition is assumed to be met regardless of the corresponding bit status.
- If a binary pattern contains any Xs, the corresponding hexadecimal display will be "\$."

- Reference Value Data(Dec)

- If you set the comparison condition to Greater/Equal or Less/Equal, set one reference value.
- If you select Between or Out of Range, set two reference values to define a reference range. The values are automatically adjusted so that the lower limit is less than or equal to the upper limit.
- If the comparison condition is True or False, the data pattern is used as the reference value.

- Selectable range

Set the selectable range in decimal notation.

Unsigned	0 to 9E+18 The selectable maximum value is limited by the data length and bit position that are determined by the DLC and MSB/LSB settings, respectively.
Signed	-9E+18 to 9E+18 The selectable minimum and maximum values are limited by the data length and bit position that are determined by the DLC and MSB/LSB settings, respectively.

The value is displayed in exponential notation when it exceeds 7 digits (example: 1234567E+10).

- Byte Order

Set the data byte order to big endian or little endian. For an example, see page 3-17.

- Sign

Select whether or not to add a sign to the data.

The selectable range for the data reference value varies depending on this setting.

- MSB/LSB

Set the MSB and LSB positions in the data to compare. For an example, see page 3-18.

Selectable range: 0 to the data size bytes × 8 – 1. The maximum value is 63.

- **ACK**

You can use the ACK slot state as a search condition. The ACK search condition is met when the selected state matches the input signal ACK slot state.

Don't care	Not used as a search condition
NON ACK	When the status is recessive
ACK	When the status is dominant
NON ACK or ACK	When the status is recessive or dominant

Bit Rate, Sample Point, Level, Hysteresis, and Recessive Level

Bit Rate

You can select the CAN bus signal transfer rate from the following:
1 Mbps, 500 kbps, 250 kbps, 125 kbps, 83.3 kbps, and 33.3 kbps

If you select the User check box, you can set the transfer rate from 10.0 kbps to 1.000 Mbps in 0.1-kbps steps.

Sample Point

You can set the point for determining the bus level (recessive or dominant) from 18.8 to 90.6% in 3.1% steps.

The DL9000 CAN bus signal trigger circuit samples the input CAN bus signal using the internal clock and detects the point of change from recessive to dominant. Taking the detected point of change to be 0% and the point that is bit time after the point of change to be 100%, you set the sample point in percentage. The bit time is the reciprocal of the set bit rate. See the illustration on page 3-19.

Source

Select the source from CH1 to CH4 or from M1 to M4.

- **Level**

Set the level for determining whether the signal level is 0 or 1.

The selectable range is ± 10 divisions from the vertical position. The resolution is 0.01 divisions. For example, if the T/div setting is 2 mV/division, the resolution is 0.02 mV.

- **Hysteresis**

The selectable range is from 0.0 to 4.0 divisions. The resolution is 0.1 divisions.

Trigger hysteresis settings \overline{A} and \overline{AV} correspond to 0.6 divisions and 1.0 division.

- **Recessive Level**

Set the recessive level to high (H) or low (L). The logical value of the recessive level is 1 and that of the dominant level is 0 in either setting.

H	The recessive level is higher than the dominant level.
L	The recessive level is less than the dominant level.

Found Point

The found-point position is the same as the trigger point position. For a description of the trigger point, see "Explanation" in section 3.2.

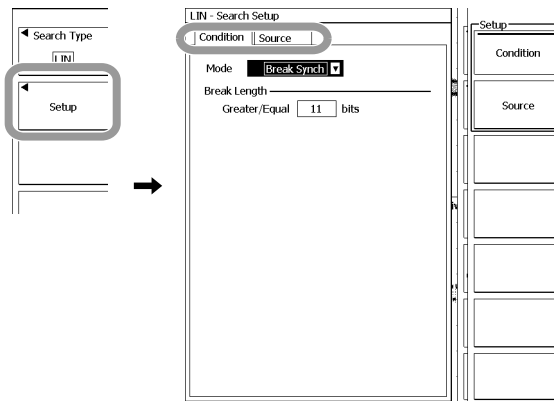
5.4 Searching LIN Bus Signals

Procedure

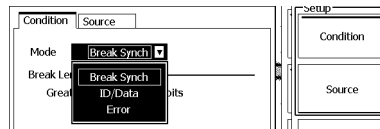
1. Carry out steps 1 to 5 in section 5.1 to set the search type to LIN.
2. Press the **Setup** soft key.
The Setup dialog box appears.

Selecting the Mode

3. Use the **rotary knob** and **SET** to select the Condition tab.
You can also press the Condition soft key to select the tab.



4. Use the **rotary knob** and **SET** to select the mode from Break Synch to Error.

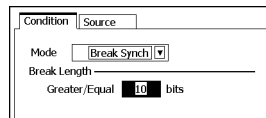


Proceed to the steps on the pages indicated below according to the selected mode.

- Break Synch: Step 5 on page 5-19
- ID/Data: Step 6 on page 5-19
- Error: Step 5 on page 5-21

When the Mode is Break Synchrony

- Use the **rotary knob** and **SET** to select the break field data length from 10 to 13 bits.

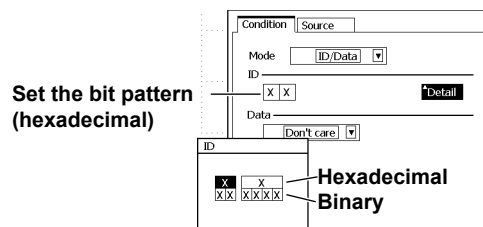


Proceed to step 11 on page 5-21.

When the Mode Is ID/Data

• Setting the ID Bit Pattern Search Condition

- Use the **rotary knob** and **SET** to set the bit pattern to compare with.
You can also set the bit pattern by selecting Detail to open a dialog box and use the **rotary knob** and **SET** and soft keys. When you are done setting the bit pattern, press **ESC** to return to the previous screen.



• Setting the Data Search Condition

- Use the **rotary knob** and **SET** to select the data comparison condition from Don't care to Out of Range.
If you select Don't care, proceed to step 11 on page 5-21.
- Use the **rotary knob** and **SET** to set the size (data length).
If you select a condition from Greater to Out of Range in step 7, proceed to step 10.
- Use the **rotary knob** and **SET** to set the data pattern to compare with.
You can also set the data pattern by selecting Detail to open a dialog box and use the **rotary knob** and **SET** and soft keys. When you are done setting the data pattern, press **ESC** to return to the previous screen.

5.4 Searching LIN Bus Signals

10. Use the **rotary knob** and **SET** to set the data to compare in each entry box.

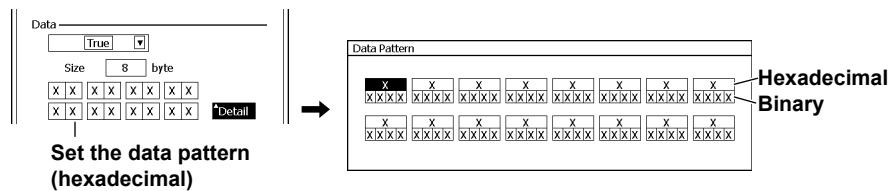
Set each item according to the comparison condition you selected in step 7.

Comparison Condition	Setting					
	Size	Detail	Data(Dec)	Byte Order	Sign	MSB/LSB
True, False	Yes	Yes	No	No	No	No
Greater/Equal, Less/Equal	Yes	No	Yes ¹	Yes	Yes	Yes
Between, Out of Range	Yes	No	Yes ²	Yes	Yes	Yes

Yes: Set, -: Not set

- Size: Data length to compare
- Detail: Data pattern (hexadecimal or binary)
- Data(Dec): Reference value (decimal)
 - 1 Set one reference value.
 - 2 Set two reference values to define a reference range. Set the lower limit in the left entry box and the upper limit in the right entry box.
- Byte Order: Data order
- Sign: Signed or unsigned
- MSB/LSB: Most significant and least significant bit positions
Set the MSB in the left entry box and the LSB in the right entry box.

True, False



Greater/Equal, Less/Equal

Data: **Greater/Equal**

Size: 8 byte

Data(Dec): 0

Byte Order: **Big** Little

Sign: **Sign** [Unsign]

MSB/LSB: 7 **0**

Between, Out of Range

Data: **Between**

Size: 8 byte

Data(Dec): 0 255

Byte Order: **Big** Little

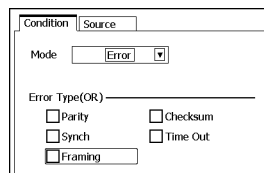
Sign: **Sign** [Unsign]

MSB/LSB: 7 **0**

Proceed to step 11 on page 5-21.

When the Mode Is Error

- Use the **rotary knob** and **SET** to select the error type from Parity to Framing. You can select all error types using the OR logic.



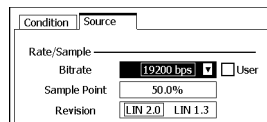
Proceed to step 11.

Setting the Bit Rate, Sample Point, Revision, Level, and Hysteresis

- Use the **rotary knob** and **SET** to select the Source tab. You can also press the Source soft key to select the tab.

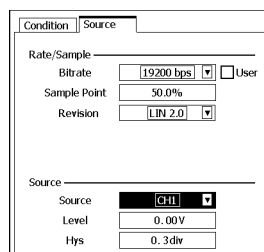
Setting the Bit Rate, Sample Point, and Revision

- Use the **rotary knob** and **SET** to select the bit rate from 19200bps to 1200bps. If you select the **User** check box, you will be able to set the bit rate from 1000bps to 20000bps using the **rotary knob** and **SET**.
- Use the **rotary knob** and **SET** to set the sample point from 18.8 to 90.6%.
- Use the **rotary knob** and **SET** to set the revision to LIN 2.0, LIN 1.3, or Both.



Setting the Level and Hysteresis

- Use the **rotary knob** and **SET** to select Source.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4 or from M1 to M4.
 - On the DL9500/DL9700 Series, select the source from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
- Use the **rotary knob** and **SET** to set the level and hysteresis. If you selected a signal from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L) in step 15, there are no Level and Hys settings.



Executing the Search

Carry out steps 6 to 14 in section 5.1.

Explanation

This feature searches LIN bus signals.

Modes

Set the LIN search mode to Break Synch, ID/Data, and Error.

Break Synch Mode

The DL9000 searches for points where break field + synch field are detected.

Select the break field data length from the following:

Greater than equal to 10, 11, 12, or 13

ID/Data Mode

The DL9000 searches using the AND logic of ID and Data conditions.

- **ID**

Set the 6-bit protected ID (ID0 to ID5) bit pattern in the protected identifier field in hexadecimal or binary notation. The ID search condition is met when the specified bit pattern matches the input signal ID bit pattern.

- If you specify X, the condition is assumed to be met regardless of the corresponding bit status.
- If a binary pattern contains any Xs, the corresponding hexadecimal display will be "\$."

- **Data**

You can use the Data 1 to Data 8 values as a search condition.

- **Comparison Condition**

The data search condition is met when the result of comparing the input signal data values with the reference values meets the selected comparison condition.

Don't care	Not used as a search condition
True	When the input signal value meets the reference value
False	When the input signal value does not match the reference value
Greater/Equal	When the input signal value is greater than or equal to the reference value
Less/Equal	When the input signal value is less than or equal to the reference value
Between	When the input signal value is within the reference range that includes the boundary reference values
Out of Range	When the input signal value is outside the reference range that excludes the boundary reference values

- **Data Size**

Set the data length to search.

Selectable range: 1 to 8 bytes

- **Data Pattern**
Set the data pattern for the specified size in hexadecimal or binary notation. The data pattern is valid only when the comparison condition is set to true or false.
 - If you specify X, the condition is assumed to be met regardless of the corresponding bit status.
 - If a binary pattern contains any Xs, the corresponding hexadecimal display will be "\$."
- **Reference Value Data(Dec)**
 - If you set the comparison condition to Greater/Equal or Less/Equal, set one reference value.
 - If you select Between or Out of Range, set two reference values to define a reference range. The values are automatically adjusted so that the lower limit is less than or equal to the upper limit.
 - If the comparison condition is True or False, the data pattern is used as the reference value.
- **Selectable range**
Set the selectable range in decimal notation.

Unsigned	0 to 9E+18 The selectable maximum value is limited by the data length and bit position that are determined by the Size and MSB/LSB settings, respectively.
Signed	-9E+18 to 9E+18 The selectable minimum and maximum values are limited by the data length and bit position that are determined by the Data Size and MSB/LSB settings, respectively.

The value is displayed in exponential notation when it exceeds 7 digits (example: 1234567E+10).
- **Byte Order**
Set the data byte order to big endian or little endian. For an example, see page 3-17.
- **Sign**
Select whether or not to add a sign to the data.
The selectable range for the data reference value varies depending on this setting.
- **MSB/LSB**
Set the MSB and LSB positions in the data to compare. For an example, see page 3-18.
Selectable range: 0 to the data size bytes \times 8 – 1. The maximum value is 63.

5.4 Searching LIN Bus Signals

Error Mode

Searches for points where errors occurred.

You can select the type of errors to detect from the table below.

- You can select multiple error types.
- The DL9000 will trigger if any of the selected errors occurs.

Parity	The DL9000 calculates the parity of the protected identifier field. If the result does not meet the following equations, an error occurs. <ul style="list-style-type: none">• Even parity check: $ID0 \text{ xor } ID1 \text{ xor } ID2 \text{ xor } ID4 \text{ xor } P0 = 0$ $P0 = ID0 \text{ xor } ID1 \text{ xor } ID2 \text{ xor } ID4$• Odd parity check: $ID1 \text{ xor } ID3 \text{ xor } ID4 \text{ xor } ID5 \text{ xor } P1 = 1$ $P1 = \neg(ID1 \text{ xor } ID3 \text{ xor } ID4 \text{ xor } ID5)$
Checksum	Revision LIN 2.0 (enhanced checksum) If the total value ^{*1} of the protected identifier field, all data fields, and checksum is not 0xFF, an error occurs. However, if the protected identifier field ID is from 0x60 to 0x63, the DL9000 checks based on the calculated result of the classic checksum. Revision LIN 1.3 (classic checksum) If the calculated result of all data fields and checksum is not 0xFF, an error occurs.
Synch	If the synch field is not 0x55, an error occurs. Even if the synch field is 0x55, if the input signal bit rate is not within -5.6% to 6.3% of the specified bit rate (see the next section for details), an error occurs.
Timeout	<ul style="list-style-type: none">• Slave Not Responding Error If the frame has not ended by the time defined by the following equation elapses after a break detection, an error occurs. $1.4 \times (T_{\text{Header}}^2 + T_{\text{Response}}^3)$• Header Timeout Error If the header has not ended by the time defined by the following equation elapses after a break detection, an error occurs. $1.4 \times T_{\text{Header}}^2$• Response Timeout Error If the response has not ended by the time defined by the following equation elapses after a break detection, an error occurs. $1.4 \times T_{\text{Response}}^3$ where 34 is the header data length, n is the number of data points, and 1 is the checksum.
Framing	When the DL9000 detects that the field, data, or stop bit is at low level, an error occurs. If it detects break field + synch field in the middle of a frame, an error occurs.

*1 If the value exceeds 255, it is carried over.

*2 Nominal header length $T_{\text{Header}} = 34 \times T_{\text{BIT}}^4$

*3 Nominal response length $T_{\text{Response}} = 10 \times (N + 1) \times T_{\text{BIT}}^4$ (where N is the data length)

*4 Nominal time needed to transmit one bit defined in the physical layer.

Note

If the bus contains a frame with a different data length and you set the error type to Checksum, Timeout, or Framing, the DL9000 may not be able to search the correct position.

Bit Rate, Sample Point, Revision, Level, and Hysteresis

Bit Rate

You can select the LIN bus signal transfer rate from the following:

19200 bps, 9600 bps, 4800 bps, 2400 bps, 1200 bps

If you select the User check box, you can set the transfer rate from 1000 bps to 20000 bps in 10-bps steps.

Sample Point

You can set the point for determining the bus level from 18.8 to 90.6% in 3.1% steps.

The DL9000 LIN bus signal trigger circuit samples the input LIN bus signal using the internal clock and detects the point of level change. Taking the detected point of change to be 0% and the point that is bit time after the point of change to be 100%, you set the sample point in percentage. The bit time is the reciprocal of the set bit rate. See the illustration on page 3-19.

Revision

You can select revision 2.0 or 1.3. If the search mode is set to Error and the error type is set to Checksum, select whether to detect enhanced checksum or classic checksum errors.

LIN 2.0	Detects errors in the enhanced checksum that includes the protection ID. (However, if the ID is a value from 60 (0x3c) to 63 (0x3f), classic checksum errors will be detected.)
LIN 1.3	Detects classic checksum errors only in the data field.
Both	An error occurs when both LIN 2.0 and LIN 1.3 checksum errors are detected. No error occurs, if only one of the errors is detected.

Source

You can select the source.

- On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4 or from M1 to M4.
- On the DL9500/DL9700 Series, select the source from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).

- **Level**

Set the level for determining whether the signal level is 0 or 1.*

The selectable range is ± 10 divisions from the vertical position. The resolution is 0.01 divisions. For example, if the T/div setting is 2 mV/division, the resolution is 0.02 mV.

* If the source is set to a logic signal from A0 to D7, the level is the threshold level that you set according to the instructions in section 5.18 of the *User's Manual IM701331-01E*.

- **Hysteresis**

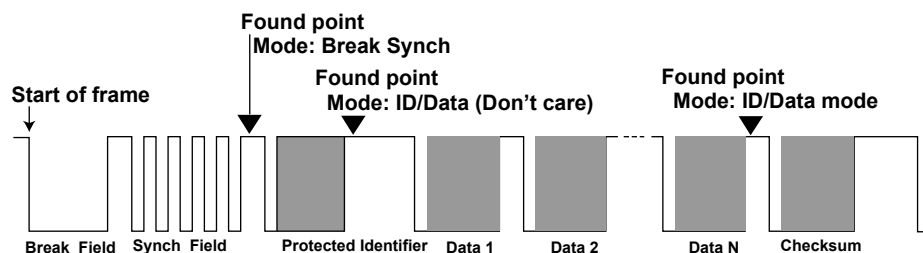
The selectable range is from 0.0 to 4.0 divisions. The resolution is 0.1 divisions.

Trigger hysteresis settings $\overline{\wedge}$ and $\overline{\vee}$ correspond to 0.6 divisions and 1.0 division.

Found Point

Break Synch, ID, and Data Modes

Below is an example.



Error Mode

The search start position is where an error occurs.

5.5 Searching SPI Bus Signals

Procedure

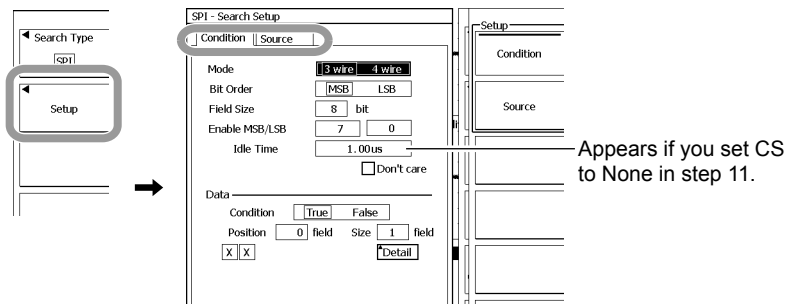
1. Carry out steps 1 to 5 in section 5.1 to set the search type to SPI.
2. Press the **Setup** soft key.
The Setup dialog box appears.

Setting the Wiring System, Bit Order, and Data

3. Use the **rotary knob** and **SET** to select the Condition tab.
You can also press the Condition soft key to select the tab.

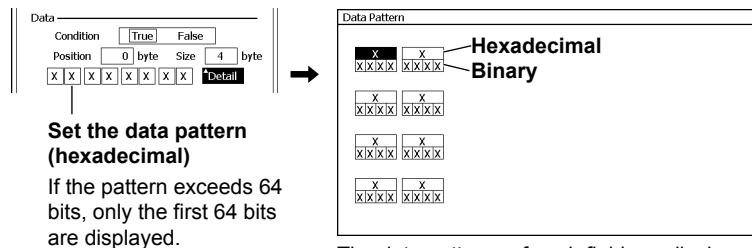
Selecting the Wiring System and Bit Order

4. Use the **rotary knob** and **SET** to set the mode to 3 wire or 4 wire and the bit order to MSB or LSB.



Setting the Data Search Conditions

5. Use the **rotary knob** and **SET** to set the field size to a value from 4 to 32 bits, and then set Enable MSB/LSB.
6. If you set the CS source to None in step 11 on the next page, Use the **rotary knob** and **SET** to set the clock's idle time to a value from 10 ns to 1 ms. If you select the Don't care check box, analysis will start from the left of the screen, regardless of the set idle time value.
7. Use the **rotary knob** and **SET** to set the condition to True or False and set the position and size.
8. Use the **rotary knob** and **SET** to set the data pattern to compare with.
 - You can also set the data pattern by selecting Detail to open a dialog box and use the **rotary knob** the **SET** and soft keys. When you are done setting the data pattern, press **ESC** to return to the previous screen.
 - If you select 4 wire in step 4, set Data 1 and Data 2.



Set the data pattern (hexadecimal)

If the pattern exceeds 64 bits, only the first 64 bits are displayed.

The data patterns of each field are displayed on separate lines.
(The example shows the display when there are four fields.)

Setting the CS, Clock, and Data Sources

9. Use the **rotary knob** and **SET** to select the Source tab.
You can also press the Source soft key to select the tab.
If you are using the DL9040/DL9140/DL9240 Series, proceed to step 11.
10. Use the **rotary knob** and **SET** to set Select to Analog or Logic.
If you are using the DL9500/DL9700 Series, carry out this step.

Setting the CS Source

11. Use the **rotary knob** and **SET** to select the CS (chip select) source.
 - On the DL9040/DL9140/DL9240 Series, select the source from None, from CH1 to CH4, or from M1 to M4.
 - On the DL9500/DL9700 Series:
 - If you selected Analog in step 10, select the source from None, from CH1 to CH4, or from M1 to M4.
 - If you selected Logic in step 10, select the source from None, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from None, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
 - If you set the CS source to None, set the clock's idle time in steps 3 and 6.
Afterwards, proceed to step 13.
12. Use the **rotary knob** and **SET** to set Active to H or L.

Setting the Clock Source

13. Use the **rotary knob** and **SET** to select the clock source.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4 or from M1 to M4.
 - On the DL9500/DL9700 Series:
 - If you selected Analog in step 10, select the source from CH1 to CH4 or from M1 to M4.
 - If you selected Logic in step 10, select the source from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L).
14. Use the **rotary knob** and **SET** to set the polarity to $\overline{\text{f}}$ or $\overline{\text{d}}$.

Setting the Data Source

15. Use the **rotary knob** and **SET** to select the data source.
 - If you select 4 wire in step 4 on the previous page, select the source for Data1 and Data 2 separately.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4 or from M1 to M4.
 - On the DL9500/DL9700 Series:
 - If you selected Analog in step 10, select the source from CH1 to CH4 or from M1 to M4.
 - If you selected Logic in step 10, select the source from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L).

5.5 Searching SPI Bus Signals

Setting the Level and Hysteresis

Set the level and hysteresis if you are using the DL9500/DL9700 Series and you selected Analog in step 10, or if you are using the DL9040/DL9140/DL9240 Series.

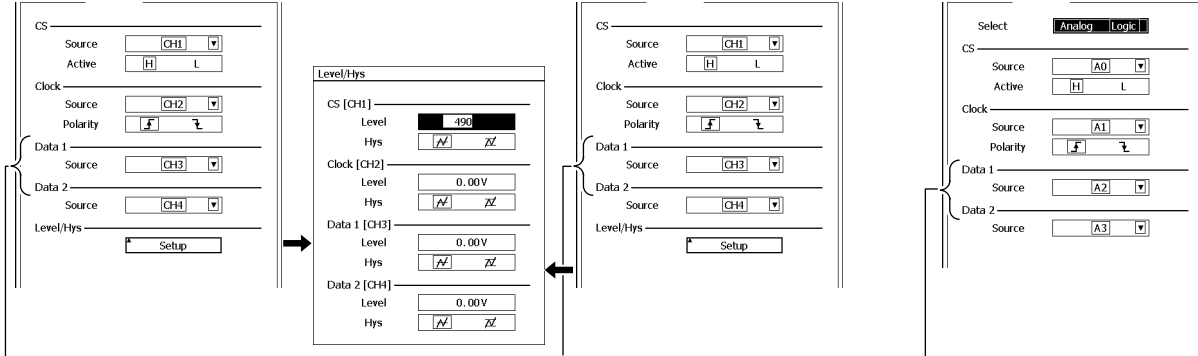
16. Use the **rotary knob** and **SET** to select Setup under Level/Hys. The Level/Hys dialog box appears.

17. Use the **rotary knob** and **SET** to set the level and hysteresis for each source.

On the DL9040/DL9140/DL9240 Series

On the DL9500/DL9700 Series

When Analog is selected in step 10. When Logic is selected in step 10.



If you selected 3 wire in step 4 on the previous page, one data item will appear, because there is only one data source.

Executing the Search

Carry out steps 6 to 14 in section 5.1.

Explanation

This feature searches SPI bus signals. For the SPI bus signal time chart, see “Explanation” in section 3.4.

Wiring System

Select from the following modes.

Three-wire	The DL9000 searches using the data pattern condition of one data line.
Four-wire	The DL9000 searches using the data pattern conditions of Data 1 and Data 2 lines. You can also use one of the two data lines as a search condition.

Bit Order

You can set the bit order to MSB or LSB based on the data stream.

- If you are setting the data in binary notation, set the pattern in the order of the data stream, regardless of the bit order setting.
- If you are setting the data in hexadecimal notation, set the pattern in 4-bit segments according to the bit order setting.

MSB	When the data stream is MSB first
LSB	When the data stream is LSB first

Field Size

You can set the field size.

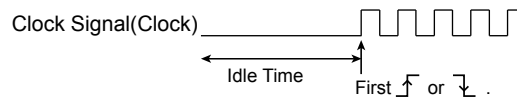
It can be set to a value from 4 to 32 bits.

Enabled Bit Range

You can specify the range of bits to enable within the field. Enter the MSB in the box on the left and the LSB in the box on the right.
Only the enabled bits are searched.

Clock Idle Time

If you set the CS source to None, the DL9000 will treat the first rising or falling edge of the clock signal after the specified idle time has elapsed as the data start position. If you select the Don't care check box, search will start from the left of the screen, regardless of the set idle time value.



Data

You can use a data pattern as a search condition.

- Comparison Condition

The data search condition is met when the result of comparing the input signal pattern with the specified pattern meets the selected comparison condition.

True	When the patterns match
False	When the patterns don't match

- Comparison Start Position

Set the comparison start position. For example, to start comparing from the first data byte after the data start position.

Selectable range: 0 to 9999

- Data Size

Set how many consecutive data fields you want to compare.

Selectable range: 1 to 4

Specify how many fields of consecutive data to compare.

If you set the field size to 32 bits and the data length to 4 fields, you can compare 128 bits of data.

- Data Pattern

Set the data pattern for the specified size in hexadecimal or binary notation.

- If you specify X, the condition is assumed to be met regardless of the corresponding bit status.
- If a binary pattern contains any Xs, the corresponding hexadecimal display will be "\$."

CS, Clock, and Data

You can select the CS (chip select), clock, and data sources.

- On the DL9040/DL9140/DL9240 Series, select the sources from None^{*1}, from CH1 to CH4, or from M1 to M4.
- On the DL9500/DL9700 Series, select the sources from None^{*1}, from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from None^{*1}, from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).

*1 None can only be selected for CS. If you set CS to None, the DL9000 uses the Idle Time setting to determine the data start position.

- CS

You can select the CS level for activating the data.

H	When the signal is high
L	When the signal is low

5.5 Searching SPI Bus Signals

- **Clock**

You can select the clock edge that specifies when the data patterns are compared.

	On the rising edge
	On the falling edge

Level

Set the reference level for CH1 to CH4 and M1 to M4.*

The selectable range is ± 10 divisions from the vertical position. The resolution is 0.01 divisions. For example, if the T/div setting is 2 mV/division, the resolution is 0.02 mV.

* If the source is set to a logic signal from A0 to D7, the level is the threshold level that you set according to the instructions in section 5.18 of the *User's Manual IM701331-01E*.

Hysteresis

Set the hysteresis for CH1 to CH4 and M1 to M4.

The selectable range is from 0.0 to 4.0 divisions. The resolution is 0.1 divisions.

Trigger hysteresis settings \overline{A} and \overline{V} correspond to 0.6 divisions and 1.0 division.

Found Point

The found-point position is the same as the trigger point position. For a description of the trigger point, see "Explanation" in section 3.4.

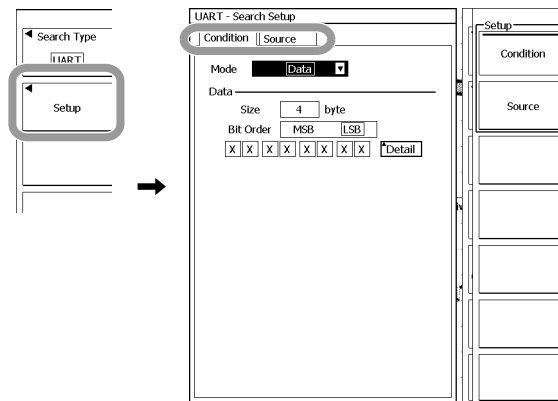
5.6 Searching UART Signals

Procedure

1. Carry out steps 1 to 5 in section 5.1 to set the search type to UART.
2. Press the **Setup** soft key.
The Setup dialog box appears.

Selecting the Mode

3. Use the **rotary knob** and **SET** to select the Condition tab.
You can also press the Condition soft key to select the tab.



4. Use the **rotary knob** and **SET** to set the mode from Every Data to Error

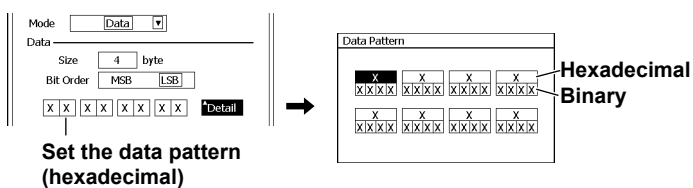


Proceed to the steps indicated below according to the selected mode.

- Every Data: Step 10
- Data: Step 5
- Error: Step 8

When the Mode Is Data

5. Use the **rotary knob** and **SET** to set the size (data length).
6. Use the **rotary knob** and **SET** to set the bit order to MSB first or LSB first.
7. Use the **rotary knob** and **SET** to set the data pattern to compare with.
You can also set the data pattern by selecting Detail to open a dialog box and use the **rotary knob** and **SET** and soft keys. When you are done setting the data pattern, press **ESC** to return to the previous screen.

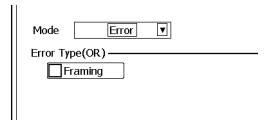


Proceed to step 10.

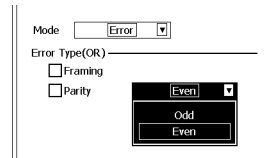
When the Mode Is Error

8. Use the **rotary knob** and **SET** to set the error type to Framing or Parity.
 - You can select all error types using the OR logic.
 - If Format under the Source tab (see the figure in step 13) is set to 8bit(NonParity), only Framing will appear.
9. If Format under the Source tab is 8bit + Parity or 7bit + Parity, set the error type parity to Odd or Even using the **rotary knob** and **SET**.

If Format under the Source tab is set to 8bit(NonParity)



If Format under the Source tab is set to 8bit + Parity or 7bit + Parity



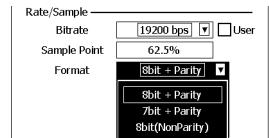
Proceed to step 10.

Setting the Bit Rate, Sample Point, Format, Level, Hysteresis, and Polarity

10. Use the **rotary knob** and **SET** to select the Source tab. You can also press the Source soft key to select the tab.

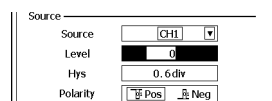
Setting the Bit Rate, Sample Point, and Format

11. Use the **rotary knob** and **SET** to select the bit rate from 115200bps to 1200bps. If you select the User check box, you will be able to set the bit rate from 1000bps to 200000bps using the **rotary knob** and **SET**.
12. Use the **rotary knob** and **SET** to set the sample point from 18.8 to 90.6%.
13. Use the **rotary knob** and **SET** to select the format from 8bit + Parity to 8bit(NonParity).



Setting the Level, Hysteresis, and Polarity

14. Use the **rotary knob** and **SET** to select Source.
 - On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4 or from M1 to M4.
 - On the DL9500/DL9700 Series, select the source from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
15. Use the **rotary knob** and **SET** to set the level, hysteresis, and polarity. If you selected a signal from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from A0 to A7 or from C0 to C7 on the DL9505L/DL9510L) in step 14, there are no Level and Hys settings.



Executing the Search

Carry out steps 6 to 14 in section 5.1.

Explanation

This feature searches UART signals. For details on the UART signal data format, see “Explanation” in section 3.5.

Modes

Set the UART search mode to Every Data, Data, and Error.

Every Data Mode

The DL9000 searches for the stop bit of all data frames.

Data Mode

Searches for a data pattern.

- **Data Size**
Set how many consecutive data bytes you want to compare.
Selectable range: 1 to 4
- **Bit Order**
Select the bit order used to read the data pattern when comparing the input signal data pattern to the specified data pattern.

MSB	Reads the data pattern MSB first.
LSB	Reads the data pattern LSB first.
- **Data Pattern**
Set the data pattern for the specified size in hexadecimal or binary notation.
 - If you specify X, the condition is assumed to be met regardless of the corresponding bit status.
 - If a binary pattern contains any Xs, the corresponding hexadecimal display will be “\$.”

Error Mode

Searches for points where errors occurred.

You can select the type of errors to detect from the table below.

- You can select multiple error types.
- The DL9000 will search for all selected errors.

Framing	Searches for a position where the logic value of the stop bit is zero.
Parity	When the DL9000 detects a parity error in a received character, the DL9000 searches for the stop bit position. <ul style="list-style-type: none"> • You can select which parity to check, odd or even. • Errors will not occur if the parity bit is set to none.

Bit Rate, Sample Point, Format, Level, Hysteresis, and Polarity

Bit Rate

You can set the UART signal transfer rate to 115200 bps, 57600 bps, 38400 bps, 19200 bps, 9600 bps, 4800 bps, 2400 bps, or 1200 bps

If you select the User check box, you can set the transfer rate from 1000 bps to 200000 bps in 100-bps steps.

Sample Point

You can set the point for determining the signal level from 18.8 to 90.6% in 3.1% steps. The DL9000 UART signal trigger circuit samples the input UART signal using the internal clock and detects the point of level change. Taking the detected point of change to be 0% and the point that is bit time after the point of change to be 100%, you set the sample point in percentage. The bit time is the reciprocal of the set bit rate. See the illustration on page 3-19.

Format

You can select the format from the following:

8bit + Parity	8-bit data + parity bit
7bit + Parity	7-bit data + parity bit
8bit(NonParity)	8-bit data with no parity bit

Source

You can select the source.

- On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4 or from M1 to M4.
- On the DL9500/DL9700 Series, select the source from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).

- **Level**

Set the level for determining whether the signal level is 0 or 1.*

The selectable range is ± 10 divisions from the vertical position. The resolution is 0.01 divisions. For example, if the T/div setting is 2 mV/division, the resolution is 0.02 mV.

* If the source is set to a logic signal from A0 to D7, the level is the threshold level that you set according to the instructions in section 5.18 of the *User's Manual IM701331-01E*.

- **Hysteresis**

The selectable range is from 0.0 to 4.0 divisions. The resolution is 0.1 divisions.

Trigger hysteresis settings \overline{A} and \overline{B} correspond to 0.6 divisions and 1.0 division.

- **Polarity**

You can select the bit state that will be considered logical 1.

Pos	Positive logic
Neg	Negative logic

Found Point

The found-point position is the same as the trigger point position. See "Explanation" in section 3.5 for details.

6.1 Messages

Messages may appear on the screen during operation, and this section explains these messages, and corrective action to take. This section contains a list of messages that only pertain to the serial bus signal analysis and search features. There are other messages that pertain to the digital oscilloscope itself and communications. For a description of these messages, see the respective user's manual that is listed on page i.

You can select the message language. For instructions on how to select the message language, see section 17.1 in the *User's Manual IM701310-01E or IM701331-01E*.

If the corrective action requires servicing, contact your nearest YOKOGAWA dealer for repairs.

Code	Message	Corrective Action	Section
58	Search execution is completed, but no record was found that matched the pattern.	–	Chapter 5
69	Any serial bus signal can not be detected.	–	2.1
70	Serial bus automatic setting was aborted.	–	2.1
73	Check the input voltage level and attenuation ratio.	–	2.1
506	Save data do not exist. Check the content to be saved.	Display the analysis result, and then execute save operation again.	4.1
670	The corresponding field was not found.	–	–
675	Serial bus automatic setting is in progress. Please wait.	–	–

7.1 List of Commands

Command	Function	Page
ANALYSIS Group		
:ANALYSIS:LSBus<x>?	Queries all settings related to the logic serial bus signal feature.	7-24
:ANALYSIS:LSBus<x>[:ANALyze]?	Queries all settings related to the logic serial bus signal.	7-24
:ANALYSIS:LSBus<x>[:ANALyze]:I2CBus?	Queries all settings related to the logic I ² C bus signal analysis.	7-24
:ANALYSIS:LSBus<x>[:ANALyze]:I2CBus:CLOCK	Sets the clock channel of the logic I ² C bus signal analysis or queries the current setting.	7-24
:ANALYSIS:LSBus<x>[:ANALyze]:I2CBus:DTRace	Sets the data channel of the logic I ² C bus signal analysis or queries the current setting.	7-24
:ANALYSIS:LSBus<x>[:ANALyze]:LINBus?	Queries all settings related to the logic LIN bus signal analysis.	7-25
:ANALYSIS:LSBus<x>[:ANALyze]:LINBus:BRATe	Sets the bit rate (data transfer rate) of the logic LIN bus signal analysis or queries the current setting.	7-25
:ANALYSIS:LSBus<x>[:ANALyze]:LINBus:FJUMp:BREReak	Executes a field jump to the Break Field in the results of the logic LIN bus signal analysis.	7-25
:ANALYSIS:LSBus<x>[:ANALyze]:LINBus:FJUMp:CSUM	Executes a field jump to the Checksum Field in the results of the logic LIN bus signal analysis.	7-25
:ANALYSIS:LSBus<x>[:ANALyze]:LINBus:FJUMp:DATA	Executes a field jump to the Data Field in the results of the logic LIN bus signal analysis.	7-25
:ANALYSIS:LSBus<x>[:ANALyze]:LINBus:FJUMp:IDENtifier	Executes a field jump to the Identifier Field in the results of the logic LIN bus signal analysis.	7-25
:ANALYSIS:LSBus<x>[:ANALyze]:LINBus:FJUMp:SYNCh	Executes a field jump to the Synch Field in the results of the logic LIN bus signal analysis.	7-25
:ANALYSIS:LSBus<x>[:ANALyze]:LINBus:REVIision	Sets the revision (1.3, 2.0, or Both) of the logic LIN bus signal analysis or queries the current setting.	7-25
:ANALYSIS:LSBus<x>[:ANALyze]:LINBus:SPOInt	Sets the logic LIN bus signal analysis sample point or queries the current setting.	7-26
:ANALYSIS:LSBus<x>[:ANALyze]:LINBus:TRACe	Sets the trace of the logic LIN bus signal analysis or queries the current setting.	7-26
:ANALYSIS:LSBus<x>[:ANALyze]:LIST?	Queries all settings related to the analysis result list of the logic serial bus signal analysis.	7-26
:ANALYSIS:LSBus<x>[:ANALyze]:LIST:DISPlay	Turns ON/OFF the analysis result list of the logic serial bus signal analysis or queries the current setting.	7-26
:ANALYSIS:LSBus<x>[:ANALyze]:LIST:ITeM?	Queries all items displayed on the analysis result list of the logic serial bus signal analysis.	7-26
:ANALYSIS:LSBus<x>[:ANALyze]:LIST:MODe	Sets the mode of the analysis result list of the logic serial bus signal analysis or queries the current setting.	7-26
:ANALYSIS:LSBus<x>[:ANALyze]:LIST:SCROll	Sets the scroll method of the analysis result list of the logic serial bus signal analysis or queries the current setting.	7-27
:ANALYSIS:LSBus<x>[:ANALyze]:LIST:VALue?	Queries the automated measured value of the specified analysis number in the analysis result list of the logic serial bus signal analysis.	7-27
:ANALYSIS:LSBus<x>[:ANALyze]:MODE	Sets the logic serial bus signal analysis mode or queries the current setting.	7-27
:ANALYSIS:LSBus<x>[:ANALyze]:RPOInt	Sets the analysis reference point of the logic serial bus signal analysis or queries the current setting.	7-27
:ANALYSIS:LSBus<x>[:ANALyze]:SPIBus?	Queries all settings related to the logic SPI bus signal analysis.	7-27
:ANALYSIS:LSBus<x>[:ANALyze]:SPIBus:CLOCK?	Queries all settings related to the clock signal channel of the logic SPI bus signal analysis.	7-27
:ANALYSIS:LSBus<x>[:ANALyze]:SPIBus:CLOCK:POLarity	Sets the polarity of the clock signal channel of the logic SPI bus signal analysis or queries the current setting.	7-28
:ANALYSIS:LSBus<x>[:ANALyze]:SPIBus:CLOCK:SOURce	Sets the clock signal channel of the logic SPI bus signal analysis or queries the current setting.	7-28
:ANALYSIS:LSBus<x>[:ANALyze]:SPIBus:CS?	Queries all settings related to the chip select signal channel of the logic SPI bus signal analysis.	7-28
:ANALYSIS:LSBus<x>[:ANALyze]:SPIBus:CS:ACTive	Sets the active level of the chip select signal channel of the logic SPI bus signal analysis or queries the current setting.	7-28

7.1 List of Commands

Command	Function	Page
:ANALysis:LSBus<x>[:ANALyze]:SPIBus:CS:TRACe	Sets the chip select signal channel of the logic SPI bus signal analysis or queries the current setting.	7-28
:ANALysis:LSBus<x>[:ANALyze]:SPIBus:DATA<x>?	Queries all settings related to each data of the logic SPI bus signal analysis.	7-28
:ANALysis:LSBus<x>[:ANALyze]:SPIBus:DATA<x>:ACTIve	Sets the active level of each data of the logic SPI bus signal analysis or queries the current setting.	7-29
:ANALysis:LSBus<x>[:ANALyze]:SPIBus:DATA<x>:TRACe	Sets the data channel of the logic SPI bus signal analysis or queries the current setting.	7-29
:ANALysis:LSBus<x>[:ANALyze]:SPIBus[:SETup]?	Queries all settings related to the setup of the logic SPI bus signal analysis.	7-29
:ANALysis:LSBus<x>[:ANALyze]:SPIBus[:SETup]:BITorder	Sets the bit order of the logic SPI bus signal analysis or queries the current setting.	7-29
:ANALysis:LSBus<x>[:ANALyze]:SPIBus[:SETup]:EMSBLSB	Sets the enabled range of the field used for logic SPI bus signal analysis or queries the current setting.	7-29
:ANALysis:LSBus<x>[:ANALyze]:SPIBus[:SETup]:FSIZe	Sets the field size used for logic SPI bus signal analysis or queries the current setting.	7-29
:ANALysis:LSBus<x>[:ANALyze]:SPIBus[:SETup]:ITIME	Sets the idle time used in logic SPI bus signal analysis or queries the current setting.	7-30
:ANALysis:LSBus<x>[:ANALyze]:SPIBus[:SETup]:MODE	Sets the wiring system of the logic SPI bus signal analysis (three-wire or four-wire) or queries the current setting.	7-30
:ANALysis:LSBus<x>[:ANALyze]:UART?	Queries all settings related to the logic UART bus signal analysis.	7-30
:ANALysis:LSBus<x>[:ANALyze]:UART:BITorder	Sets the logic UART bus signal analysis bit order or queries the current setting.	7-30
:ANALysis:LSBus<x>[:ANALyze]:UART:BRATE	Sets the logic UART bus signal analysis bit rate (data transfer rate) or queries the current setting.	7-30
:ANALysis:LSBus<x>[:ANALyze]:UART:BSpace	Sets the byte space for grouping data that is used in logic UART signal analysis or queries the current setting.	7-30
:ANALysis:LSBus<x>[:ANALyze]:UART:DFormat	Sets the decoded character display format for logic UART signal analysis or queries the current setting.	7-31
:ANALysis:LSBus<x>[:ANALyze]:UART:FORMat	Sets the logic UART bus signal analysis data format or queries the current setting.	7-31
:ANALysis:LSBus<x>[:ANALyze]:UART:GRouping	Turns on or off the grouping feature for logic UART signal analysis or queries the current setting.	7-31
:ANALysis:LSBus<x>[:ANALyze]:UART:PMODE	Sets the logic UART bus signal analysis parity mode or queries the current setting.	7-31
:ANALysis:LSBus<x>[:ANALyze]:UART:POLarity	Sets the logic UART bus signal analysis parity or queries the current setting.	7-31
:ANALysis:LSBus<x>[:ANALyze]:UART:SPOint	Sets the logic UART bus signal analysis sample point or queries the current setting.	7-31
:ANALysis:LSBus<x>[:ANALyze]:UART:TRACe	Sets the logic UART bus signal analysis trace or queries the current setting.	7-32
:ANALysis:LSBus<x>:ZLINKage	Sets the zoom link of the logic serial bus signal analysis or queries the current setting.	7-32
:ANALysis:SBUS<x>?	Queries all settings related to the serial bus signal analysis feature.	7-32
:ANALysis:SBUS<x>:ANALyze?	Queries all settings related to the serial bus signal analysis.	7-33
:ANALysis:SBUS<x>[:ANALyze]:CANBus?	Queries all settings related to the CAN bus signal analysis.	7-33
:ANALysis:SBUS<x>[:ANALyze]:CANBus:BRATE	Sets the bit rate (data transfer rate) of the CAN bus signal analysis or queries the current setting.	7-33
:ANALysis:SBUS<x>[:ANALyze]:CANBus:FJUMp:ACK	Executes a field jump to the ACK Field in the results of the CAN bus signal analysis.	7-33
:ANALysis:SBUS<x>[:ANALyze]:CANBus:FJUMp:CONTRol	Executes a field jump to the Control Field in the results of the CAN bus signal analysis.	7-33
:ANALysis:SBUS<x>[:ANALyze]:CANBus:FJUMp:CRC	Executes a field jump to the CRC Field in the results of the CAN bus signal analysis.	7-33
:ANALysis:SBUS<x>[:ANALyze]:CANBus:FJUMp:DATA	Executes a field jump to the Data Field in the results of the CAN bus signal analysis.	7-34
:ANALysis:SBUS<x>[:ANALyze]:CANBus:FJUMp:IDENTifier	Executes a field jump to the Identifier Field in the results of the CAN bus signal analysis.	7-34
:ANALysis:SBUS<x>[:ANALyze]:CANBus:FJUMp:SOF	Executes a field jump to the SOF Field in the results of the CAN bus signal analysis.	7-34
:ANALysis:SBUS<x>[:ANALyze]:CANBus:RECEssive	Sets the recessive level (bus level) of the CAN bus signal analysis or queries the current setting.	7-34

7.1 List of Commands

Command	Function	Page
:ANALysis:SBUS<x>[:ANALyze]:CANBus:SPOint	Sets the sample point of the CAN bus signal analysis or queries the current setting.	7-34
:ANALysis:SBUS<x>[:ANALyze]:CANBus:TRACe	Sets the trace of the CAN bus signal analysis or queries the current setting.	7-34
:ANALysis:SBUS<x>[:ANALyze]:DECode	Turns the serial bus signal analysis decoding display ON/OFF or queries the current status.	7-34
:ANALysis:SBUS<x>[:ANALyze]:I2CBus?	Queries all settings related to the I ² C bus signal analysis.	7-34
:ANALysis:SBUS<x>[:ANALyze]:I2CBus:CLOCK	Sets the clock channel of the I ² C bus signal analysis or queries the current setting.	7-35
:ANALysis:SBUS<x>[:ANALyze]:I2CBus:DTRace	Sets the data channel of the I ² C bus signal analysis or queries the current setting.	7-35
:ANALysis:SBUS<x>[:ANALyze]:LINBus?	Queries all settings related to the LIN bus signal analysis.	7-35
:ANALysis:SBUS<x>[:ANALyze]:LINBus:BRATe	Sets the LIN bus signal analysis bitrate (data transfer rate) or queries the current setting.	7-35
:ANALysis:SBUS<x>[:ANALyze]:LINBus:FJUMp:BReak	Executes a field jump to the Break Field in the results of the LIN bus signal analysis.	7-35
:ANALysis:SBUS<x>[:ANALyze]:LINBus:FJUMp:CSUM	Executes a field jump to the Checksum Field in the results of the LIN bus signal analysis.	7-35
:ANALysis:SBUS<x>[:ANALyze]:LINBus:FJUMp:DATA	Executes a field jump to the Data Field in the results of the LIN bus signal analysis.	7-35
:ANALysis:SBUS<x>[:ANALyze]:LINBus:FJUMp:IDENtifier	Executes a field jump to the Identifier Field in the results of the LIN bus signal analysis.	7-36
:ANALysis:SBUS<x>[:ANALyze]:LINBus:FJUMp:SYNCh	Executes a field jump to the Synch Field in the results of the LIN bus signal analysis.	7-36
:ANALysis:SBUS<x>[:ANALyze]:LINBus:REVision	Sets the LIN bus signal analysis revision (1.3, 2.0, or Both) or queries the current setting.	7-36
:ANALysis:SBUS<x>[:ANALyze]:LINBus:SPOint	Sets the LIN bus signal analysis sample point or queries the current setting.	7-36
:ANALysis:SBUS<x>[:ANALyze]:LINBus:TRACe	Sets the LIN bus signal analysis trace or queries the current setting.	7-36
:ANALysis:SBUS<x>[:ANALyze]:LIST?	Queries all settings related to the list display of the serial bus signal analysis.	7-36
:ANALysis:SBUS<x>[:ANALyze]:LIST:DISPlay	Turns the serial bus signal analysis list display ON/OFF or queries the current status.	7-36
:ANALysis:SBUS<x>[:ANALyze]:LIST:ITEM?	Queries the item in the list display of the serial bus signal analysis.	7-36
:ANALysis:SBUS<x>[:ANALyze]:LIST:MODE	Sets the mode of the list display of the serial bus signal analysis or queries the current setting.	7-37
:ANALysis:SBUS<x>[:ANALyze]:LIST:SCRoll	Sets the scroll method of the list display of the serial bus signal analysis or queries the current setting.	7-37
:ANALysis:SBUS<x>[:ANALyze]:LIST:VALue?	Queries the automated measured value of the specified analysis number in the analysis result list of the serial bus signal analysis.	7-37
:ANALysis:SBUS<x>[:ANALyze]:MODE	Sets the serial bus signal analysis mode or queries the current setting.	7-37
:ANALysis:SBUS<x>[:ANALyze]:RPOint	Sets the analysis reference point of the serial bus signal analysis or queries the current setting.	7-37
:ANALysis:SBUS<x>[:ANALyze]:SPIBus?	Queries all settings related to the SPI bus signal analysis.	7-37
:ANALysis:SBUS<x>[:ANALyze]:SPIBus:CLOCK?	Queries all settings related to the clock channel of the SPI bus signal analysis.	7-37
:ANALysis:SBUS<x>[:ANALyze]:SPIBus:CLOCK:POLarity	Sets the polarity of the clock channel of the SPI bus signal analysis or queries the current setting.	7-38
:ANALysis:SBUS<x>[:ANALyze]:SPIBus:CLOCK:SOURce	Sets the clock channel of the SPI bus signal analysis or queries the current setting.	7-38
:ANALysis:SBUS<x>[:ANALyze]:SPIBus:CS?	Queries all settings related to the chip select channel of the SPI bus signal analysis.	7-38
:ANALysis:SBUS<x>[:ANALyze]:SPIBus:CS:ACTive	Sets the active level of the chip select channel of the SPI bus signal analysis or queries the current setting.	7-38
:ANALysis:SBUS<x>[:ANALyze]:SPIBus:CS:TRACe	Sets the chip select channel of the SPI bus signal analysis or queries the current setting.	7-38
:ANALysis:SBUS<x>[:ANALyze]:SPIBus:DATA<x>?	Queries all settings related to the data of the SPI bus signal analysis.	7-38

7.1 List of Commands

Command	Function	Page
:ANALysis:SBUS<x>[:ANALyze]:SPIBus:DATA<x>:ACTive	Sets the active level of the data of the SPI bus signal analysis or queries the current setting.	7-39
:ANALysis:SBUS<x>[:ANALyze]:SPIBus:DATA<x>:TRACe	Sets the data channel of the SPI bus signal analysis or queries the current setting.	7-39
:ANALysis:SBUS<x>[:ANALyze]:SPIBus:SETup?	Queries all settings related to the SPI bus signal analysis setup.	7-39
:ANALysis:SBUS<x>[:ANALyze]:SPIBus[:SETup]:BITorder	Sets the bit order of the SPI bus signal analysis or queries the current setting.	7-39
:ANALysis:SBUS<x>[:ANALyze]:SPIBus[:SETup]:EMSBLSB	Sets the enabled range of the field used for SPI bus signal analysis or queries the current setting.	7-39
:ANALysis:SBUS<x>[:ANALyze]:SPIBus[:SETup]:FSIZe	Sets the field size used for SPI bus signal analysis or queries the current setting.	7-39
:ANALysis:SBUS<x>[:ANALyze]:SPIBus[:SETup]:ITIME	Sets the idle time used in SPI bus signal analysis or queries the current setting.	7-40
:ANALysis:SBUS<x>[:ANALyze]:SPIBus[:SETup]:MODE	Sets the wiring system of the SPI bus signal analysis (three-wire or four-wire) or queries the current setting.	7-40
:ANALysis:SBUS<x>[:ANALyze]:TRACe<x>?	Queries all settings related to the threshold level of the source channel of the serial bus signal analysis.	7-40
:ANALysis:SBUS<x>[:ANALyze]:TRACe<x>:HYSTeresis	Sets the hysteresis of the threshold level of the source channel of the serial bus signal analysis or queries the current setting.	7-40
:ANALysis:SBUS<x>[:ANALyze]:TRACe<x>:LEVel	Sets the level of the threshold level of the source channel of the serial bus signal analysis or queries the current setting.	7-40
:ANALysis:SBUS<x>[:ANALyze]:UART?	Queries all settings related to the UART bus signal analysis.	7-40
:ANALysis:SBUS<x>[:ANALyze]:UART:BITorder	Sets the UART bus signal analysis bit order or queries the current setting.	7-41
:ANALysis:SBUS<x>[:ANALyze]:UART:BRATe	Sets the UART bus signal analysis bit rate (data transfer rate) or queries the current setting.	7-41
:ANALysis:SBUS<x>[:ANALyze]:UART:BSpace	Sets the byte space for grouping data that is used in UART signal analysis or queries the current setting.	7-41
:ANALysis:SBUS<x>[:ANALyze]:UART:DFORmat	Sets the decoded character display format for UART signal analysis or queries the current setting.	7-41
:ANALysis:SBUS<x>[:ANALyze]:UART:FORMat	Sets the UART bus signal analysis data format or queries the current setting.	7-41
:ANALysis:SBUS<x>[:ANALyze]:UART:GROUping	Turns on or off the grouping feature for UART signal analysis or queries the current setting.	7-41
:ANALysis:SBUS<x>[:ANALyze]:UART:PMODE	Sets the UART bus signal analysis parity mode or queries the current setting.	7-42
:ANALysis:SBUS<x>[:ANALyze]:UART:POLarity	Sets the UART bus signal analysis polarity or queries the current setting.	7-42
:ANALysis:SBUS<x>[:ANALyze]:UART:SPOint	Sets the UART bus signal analysis sample point or queries the current setting.	7-42
:ANALysis:SBUS<x>[:ANALyze]:UART:TRACe	Sets the UART bus signal analysis trace or queries the current setting.	7-42
:ANALysis:SBUS<x>:ZLiNkage	Sets the zoom link of the serial bus signal analysis or queries the current setting.	7-42
:ANALysis:TYPE<x>	Sets the analysis feature type or queries the current setting.	7-42
MATH Group		
:MATH<x>:OPERation	Sets the operator or queries the current setting.	7-43
:MATH<x>:SBIT?	Queries all settings related to the stuff bit computation.	7-43
:MATH<x>:SBIT:BRATe	Sets the bit rate (data transfer rate) of the stuff bit computation or queries the current setting.	7-43
:MATH<x>:SBIT:HISTory:ABORt	Cancels history computation for stuff bit computation.	7-43
:MATH<x>:SBIT:HISTory:EXECute	Executes history computation for stuff bit computation.	7-43
:MATH<x>:SBIT:HYSTeresis	Sets the hysteresis of the stuff bit computation or queries the current setting.	7-43
:MATH<x>:SBIT:LEVel	Sets the threshold level of the stuff bit computation or queries the current setting.	7-43
:MATH<x>:SBIT:RECCessive	Sets the recessive level (bus level) of the stuff bit computation or queries the current setting.	7-43
:MATH<x>:SBIT:SPOint	Sets the sample point of the stuff bit computation or queries the current setting.	7-43

Command	Function	Page
SEARCh Group		
SEARCh<x>:CANBus?	Queries all settings related to the CAN bus signal search.	7-44
:SEARCh<x>:CANBus:SETup?	Queries all settings related to the CAN bus signal search setup.	7-44
:SEARCh<x>:CANBus[:SETup]:ACK	Sets the ACK condition of the CAN bus signal search or queries the current setting.	7-44
:SEARCh<x>:CANBus[:SETup]:BRATe	Sets the bit rate (data transfer rate) of the CAN bus signal search or queries the current setting.	7-44
:SEARCh<x>:CANBus[:SETup]:DATA?	Queries all settings related to the CAN bus signal search data.	7-44
:SEARCh<x>:CANBus[:SETup]:DATA:BORDer	Sets the byte order of the CAN bus signal search data or queries the current setting.	7-44
:SEARCh<x>:CANBus[:SETup]:DATA:CONDition	Sets the data condition of the CAN bus signal search or queries the current setting.	7-45
:SEARCh<x>:CANBus[:SETup]:DATA:DATA<x>	Sets the comparison data of the CAN bus signal search data or queries the current setting.	7-45
:SEARCh<x>:CANBus[:SETup]:DATA:DLC	Sets the number of valid bytes (DLC) of the CAN bus signal search data or queries the current setting.	7-45
:SEARCh<x>:CANBus[:SETup]:DATA:HEXA	Sets the CAN bus signal search data in hexadecimal notation.	7-45
:SEARCh<x>:CANBus[:SETup]:DATA:MSBLSb	Sets the MSB and LSB bits of the CAN bus signal search data or queries the current setting.	7-45
:SEARCh<x>:CANBus[:SETup]:DATA:PATtern	Sets the CAN bus signal search data in binary notation or queries the current setting.	7-45
:SEARCh<x>:CANBus[:SETup]:DATA:SIGN	Sets the sign of the CAN bus signal search data or queries the current setting.	7-45
:SEARCh<x>:CANBus[:SETup]:IDExt?	Queries all settings related to the ID of the extended format of the CAN bus signal search.	7-46
:SEARCh<x>:CANBus[:SETup]:IDExt:HEXA	Sets the ID of the extended format of the CAN bus signal search in hexadecimal notation.	7-46
:SEARCh<x>:CANBus[:SETup]:IDExt:PATtern	Sets the ID of the extended format of the CAN bus signal search in binary notation or queries the current setting.	7-46
:SEARCh<x>:CANBus[:SETup]:IDSTd?	Queries all settings related to the ID of the standard format of the CAN bus signal search.	7-46
:SEARCh<x>:CANBus[:SETup]:IDSTd:HEXA	Sets the ID of the standard format of the CAN bus signal search in hexadecimal notation.	7-46
:SEARCh<x>:CANBus[:SETup]:IDSTd:PATtern	Sets the ID of the standard format of the CAN bus signal search in binary notation or queries the current setting.	7-46
:SEARCh<x>:CANBus[:SETup]:MODE	Sets the CAN bus signal search mode or queries the current setting.	7-46
:SEARCh<x>:CANBus[:SETup]:RECEssive	Sets the recessive level (bus level) of the CAN bus signal search or queries the current setting.	7-46
:SEARCh<x>:CANBus[:SETup]:RTR	Sets the RTR of the CAN bus signal search or queries the current setting.	7-46
:SEARCh<x>:CANBus[:SETup]:SPOint	Sets the sample point of the CAN bus signal search or queries the current setting.	7-47
:SEARCh<x>:CANBus[:SETup]:TRACe	Sets the trace of the CAN bus signal search or queries the current setting.	7-47
SEARCh<x>:I2Cbus?	Queries all settings related to the I ² C bus signal search.	7-47
:SEARCh<x>:I2Cbus:CLOCK?	Queries all settings related to the clock of the I ² C bus signal search.	7-47
:SEARCh<x>:I2Cbus:CLOCK:SOURce	Sets the clock trace of the I ² C bus signal search or queries the current setting.	7-47
:SEARCh<x>:I2Cbus:SETup?	Queries all settings related to the I ² C bus signal search setup.	7-47
:SEARCh<x>:I2Cbus[:SETup]:ADATa?	Queries all settings related to the address of the I ² C bus signal search.	7-48
:SEARCh<x>:I2Cbus[:SETup]:ADATa:BIT10address?	Queries all settings related to the 10-bit address of the I ² C bus signal search.	7-48
:SEARCh<x>:I2Cbus[:SETup]:ADATa:BIT10address:HEXA	Sets the 10-bit address of the I ² C bus signal search in hexadecimal notation.	7-48
:SEARCh<x>:I2Cbus[:SETup]:ADATa:BIT10address:PATtern	Sets the 10-bit address of the I ² C bus signal search in binary notation or queries the current setting.	7-48
:SEARCh<x>:I2Cbus[:SETup]:ADATa:BIT7Address?	Queries all settings related to the 7-bit address of the I ² C bus signal search.	7-48
:SEARCh<x>:I2Cbus[:SETup]:ADATa:BIT7Address:HEXA	Sets the 7-bit address of the I ² C bus signal search in hexadecimal notation.	7-48
:SEARCh<x>:I2Cbus[:SETup]:ADATa:BIT7Address:PATtern	Sets the 7-bit address of the I ² C bus signal search in binary notation or queries the current setting.	7-49

7.1 List of Commands

Command	Function	Page
:SEARCH<x>:I2Cbus[:SETup]:ADATa:BIT7APsub?	Queries all settings related to the 7-bit + Sub address of the I ² C bus signal search.	7-49
:SEARCH<x>:I2Cbus[:SETup]:ADATa:BIT7APsub:ADDRess?	Queries all settings related to the 7-bit address of the 7-bit + Sub address of the I ² C bus signal search.	7-49
:SEARCH<x>:I2Cbus[:SETup]:ADATa:BIT7APsub:ADDRess:HEXA	Sets the 7-bit address of the 7-bit + Sub address of the I ² C bus signal search in hexadecimal notation.	7-49
:SEARCH<x>:I2Cbus[:SETup]:ADATa:BIT7APsub:ADDRess:PATTErn	Sets the 7-bit address of the 7-bit + Sub address of the I ² C bus signal search in binary notation or queries the current setting.	7-49
:SEARCH<x>:I2Cbus[:SETup]:ADATa:BIT7APsub:SADDRess?	Queries all settings related to the Sub address of the 7-bit + Sub address of the I ² C bus signal search.	7-49
:SEARCH<x>:I2Cbus[:SETup]:ADATa:BIT7APsub:SADDRess:HEXA	Sets the Sub address of the 7-bit + Sub address of the I ² C bus signal search in hexadecimal notation.	7-49
:SEARCH<x>:I2Cbus[:SETup]:ADATa:BIT7APsub:SADDRess:PATTErn	Sets the Sub address of the 7-bit + Sub address of the I ² C bus signal search in binary notation or queries the current setting.	7-50
:SEARCH<x>:I2Cbus[:SETup]:ADATa:TYPE	Sets the address type of the I ² C bus signal search or queries the current setting.	7-50
:SEARCH<x>:I2Cbus[:SETup]:DATA?	Queries all settings related to the data of the I ² C bus signal search.	7-50
:SEARCH<x>:I2Cbus[:SETup]:DATA:BYTE	Sets the number of data bytes of the I ² C bus signal search or queries the current setting.	7-50
:SEARCH<x>:I2Cbus[:SETup]:DATA:CONDition	Sets the determination method (match or not match) of the data of the I ² C bus signal search or queries the current setting.	7-50
:SEARCH<x>:I2Cbus[:SETup]:DATA:DPOsition	Sets the position for comparing the data pattern of the I ² C bus signal search or queries the current setting.	7-50
:SEARCH<x>:I2Cbus[:SETup]:DATA:HEXA<x>	Sets the data of the I ² C bus signal search in hexadecimal notation.	7-50
:SEARCH<x>:I2Cbus[:SETup]:DATA:MODE	Enables/Disables the data conditions of the I ² C bus signal search or queries the current setting.	7-50
:SEARCH<x>:I2Cbus[:SETup]:DATA:PATTErn<x>	Sets the data of the I ² C bus signal search in binary notation or queries the current setting.	7-51
:SEARCH<x>:I2Cbus[:SETup]:DATA:PMODE	Sets the pattern comparison start position mode of the data of the I ² C bus signal search or queries the current setting.	7-51
:SEARCH<x>:I2Cbus[:SETup]:DATA:TRACe	Sets the trace of the data of the I ² C bus signal search or queries the current setting.	7-51
:SEARCH<x>:I2Cbus[:SETup]:GCALl?	Queries all settings related to the general call of the I ² C bus signal search.	7-51
:SEARCH<x>:I2Cbus[:SETup]:GCALl:BIT7maddress?	Queries all settings related to the 7-bit master address of the general call of the I ² C bus signal search.	7-51
:SEARCH<x>:I2Cbus[:SETup]:GCALl:BIT7maddress:HEXA	Sets the 7-bit master address of the general call of the I ² C bus signal search in hexadecimal notation.	7-51
:SEARCH<x>:I2Cbus[:SETup]:GCALl:BIT7maddress:PATTErn	Sets the 7-bit master address of the general call of the I ² C bus signal search in binary notation or queries the current setting.	7-51
:SEARCH<x>:I2Cbus[:SETup]:GCALl:SBYTE (Second Byte)	Sets the second byte type of the general call of the I ² C bus signal search or queries the current setting.	7-51
:SEARCH<x>:I2Cbus[:SETup]:MODE	Sets the search mode of the I ² C bus signal search or queries the current setting.	7-52
:SEARCH<x>:I2Cbus[:SETup]:NAIGnore?	Queries all settings related to the NON ACK ignore mode of the I ² C bus signal search.	7-52
:SEARCH<x>:I2Cbus[:SETup]:NAIGnore:HSMODE	Sets whether to ignore NON ACK in high speed mode of the I ² C bus signal search or queries the current setting.	7-52
:SEARCH<x>:I2Cbus[:SETup]:NAIGnore:RACCEss	Sets whether to ignore NON ACK in read access mode of the I ² C bus signal search or queries the current setting.	7-52
:SEARCH<x>:I2Cbus[:SETup]:NAIGnore:SBYTE (Start Byte)	Sets whether to ignore NON ACK in the start byte of the I ² C bus signal search or queries the current setting.	7-52
:SEARCH<x>:I2Cbus[:SETup]:SBHSmode?	Queries all settings related to the start byte and high speed mode of the I ² C bus signal search.	7-52
:SEARCH<x>:I2Cbus[:SETup]:SBHSmode:TYPE	Sets the type of the start byte or high speed mode of the I ² C bus signal search or queries the current setting.	7-52
:SEARCH<x>:LINBus?	Queries all settings related to the LIN bus signal search or queries the current setting.	7-53
:SEARCH<x>:LINBus[:SETup]?	Queries all settings related to setup of the LIN bus signal search or queries the current setting.	7-53
:SEARCH<x>:LINBus[:SETup]:BLENgth	Sets the LIN bus signal search break length or queries the current setting.	7-53

7.1 List of Commands

Command	Function	Page
:SEARCH<x>:LINBus[:SETup]:BRATe	Sets the LIN bus signal search bitrate (data transfer rate) or queries the current setting.	7-53
:SEARCH<x>:LINBus[:SETup]:DATA?	Queries all settings related to data of the LIN bus signal search or queries the current setting.	7-53
:SEARCH<x>:LINBus[:SETup]:DATA:BNUM	Sets the number of LIN bus signal search data bytes or queries the current setting.	7-53
:SEARCH<x>:LINBus[:SETup]:DATA:BORDer	Sets the data byte order of the LIN bus signal search or queries the current setting.	7-53
:SEARCH<x>:LINBus[:SETup]:DATA:CONDition	Sets the LIN bus signal search data or queries the current setting.	7-54
:SEARCH<x>:LINBus[:SETup]:DATA:DATA<x>	Sets the comparison data of the LIN bus signal search data or queries the current setting.	7-54
:SEARCH<x>:LINBus[:SETup]:DATA:HEXA	Sets the LIN bus signal search data in hexadecimal.	7-54
:SEARCH<x>:LINBus[:SETup]:DATA:MSBLsb	Sets the MSB/LSB bit of the LIN bus signal search or queries the current setting.	7-54
:SEARCH<x>:LINBus[:SETup]:DATA:PATTeRn	Sets the LIN bus signal search data in binary or queries the current setting.	7-54
:SEARCH<x>:LINBus[:SETup]:DATA:SIGN	Sets the sign order of the LIN bus signal search or queries the current setting.	7-54
:SEARCH<x>:LINBus[:SETup]:ERRor?	Queries all settings related to the LIN bus signal search error.	7-54
:SEARCH<x>:LINBus[:SETup]:ERRor:CHECksum	Sets the LIN bus signal search Checksum error or queries the current setting.	7-55
:SEARCH<x>:LINBus[:SETup]:ERRor:FRAMing	Sets the LIN bus signal search Framing error or queries the current setting.	7-55
:SEARCH<x>:LINBus[:SETup]:ERRor:PARity	Sets the LIN bus signal search Parity error or queries the current setting.	7-55
:SEARCH<x>:LINBus[:SETup]:ERRor:SYNCh	Sets the LIN bus signal search Synch error or queries the current setting.	7-55
:SEARCH<x>:LINBus[:SETup]:ERRor:TOUT	Sets the LIN bus signal search Timeout error or queries the current setting.	7-55
:SEARCH<x>:LINBus[:SETup]:ID?	Queries all settings related to ID of the LIN bus signal search or queries the current setting.	7-55
:SEARCH<x>:LINBus[:SETup]:ID:HEXA	Sets the LIN bus signal search ID in hexadecimal.	7-55
:SEARCH<x>:LINBus[:SETup]:ID:PATTeRn	Sets the LIN bus signal search ID in binary or queries the current setting.	7-55
:SEARCH<x>:LINBus[:SETup]:MODE	Sets the LIN bus signal search mode or queries the current setting.	7-55
:SEARCH<x>:LINBus[:SETup]:REVision	Sets the LIN bus signal search revision (1.3, 2.0, or Both) or queries the current setting.	7-56
:SEARCH<x>:LINBus[:SETup]:SPOint	Sets the LIN bus signal search sampling point or queries the current setting.	7-56
:SEARCH<x>:LINBus[:SETup]:TRACe	Sets the LIN bus signal search trace or queries the current setting.	7-56
:SEARCH<x>:SLOGic:I2CBus?	Queries all settings related to the logic I ² C bus signal search.	7-56
:SEARCH<x>:SLOGic:I2CBus:CLOCk?	Queries all settings related to the clock channel of the logic I ² C bus signal search.	7-56
:SEARCH<x>:SLOGic:I2CBus:CLOCk:SOURce	Sets the clock channel of the logic I ² C bus signal search or queries the current setting.	7-57
:SEARCH<x>:SLOGic:I2CBus[:SETup]?	Queries all settings related to the setup of the logic I ² C bus signal search.	7-57
:SEARCH<x>:SLOGic:I2CBus[:SETup]:ADATa?	Queries all settings related to the address of the logic I ² C bus signal search.	7-57
:SEARCH<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT10address?	Queries all settings related to the 10-bit address of the logic I ² C bus signal search.	7-57
:SEARCH<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT10address:HEXA	Sets the 10-bit address of the logic I ² C bus signal search in hexadecimal notation.	7-57
:SEARCH<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT10address:PATTeRn	Sets the 10-bit address of the logic I ² C bus signal search in binary notation or queries the current setting.	7-58
:SEARCH<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT7Address?	Queries all settings related to the 7-bit address of the logic I ² C bus signal search.	7-58
:SEARCH<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT7Address:HEXA	Sets the 7-bit address of the logic I ² C bus signal search in hexadecimal notation.	7-58

7.1 List of Commands

Command	Function	Page
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:ADATa:BIT7Address:PATtern	Sets the 7-bit address of the logic I ² C bus signal search in binary notation or queries the current setting.	7-58
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:ADATa:BIT7APsub?	Queries all settings related to the 7-bit address + Sub address of the logic I ² C bus signal search.	7-58
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:ADATa:BIT7APsub:ADDRes?	Queries all settings related to the 7-bit address of the 7-bit address + Sub address of the logic I ² C bus signal search.	7-58
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:ADATa:BIT7APsub:ADDRes:HEXA	Queries all settings related to the 7-bit address of the 7-bit address + Sub address of the logic I ² C bus signal search.	7-59
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:ADATa:BIT7APsub:ADDRes:PATtern	Sets the 7-bit address of the 7-bit address + Sub address of the logic I ² C bus signal search in binary notation or queries the current setting.	7-59
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:ADATa:BIT7APsub:SADdress?	Queries all settings related to the Sub address of the 7-bit address + Sub address of the logic I ² C bus signal search.	7-59
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:ADATa:BIT7APsub:SADdress:HEXA	Queries all settings related to the Sub address of the 7-bit address + Sub address of the logic I ² C bus signal search.	7-59
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:ADATa:BIT7APsub:SADdress:PATtern	Sets the Sub address of the 7-bit address + Sub address of the logic I ² C bus signal search in binary notation or queries the current setting.	7-59
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:ADATa:TYPE	Sets the address type of the logic I ² C bus signal search or queries the current setting.	7-59
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:DATA?	Queries all settings related to the data of the logic I ² C bus signal search.	7-60
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:DATA:BYTE	Sets the number of setup data bytes of the logic I ² C bus signal search or queries the current setting.	7-60
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:DATA:CONDition	Sets the determination method (match or not match) of the data of the logic I ² C bus signal search or queries the current setting.	7-60
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:DATA:DPOSITion	Sets the position for comparing the data pattern of the logic I ² C bus signal search or queries the current setting.	7-60
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:DATA:HEXA<x>	Sets the data of the logic I ² C bus signal search in hexadecimal notation.	7-60
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:DATA:MODE	Enables/disables the data conditions of the logic I ² C bus signal search or queries the current setting.	7-60
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:DATA:PATtern<x>	Sets the data of the logic I ² C bus signal search in binary notation or queries the current setting.	7-61
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:DATA:PMODE	Sets the pattern comparison start position mode of the logic I ² C bus signal search or queries the current setting.	7-61
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:DATA:TRACe	Sets the data trace of the logic I ² C bus signal search or queries the current setting.	7-61
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:GCALl?	Queries all settings related to the general call of the logic I ² C bus signal search.	7-61
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:GCALl:BIT7maddress?	Queries all settings related to the 7-bit master address of the general code of the logic I ² C bus signal search.	7-61
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:GCALl:BIT7maddress:HEXA	Sets the 7-bit master address of the general call of the logic I ² C bus signal search in hexadecimal notation.	7-61
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:GCALl:BIT7maddress:PATtern	Sets the 7-bit master address of the general call of the logic I ² C bus signal search in binary notation or queries the current setting.	7-62
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:GCALl:SBYTE (Second Byte)	Sets the second byte type of the general call of the logic I ² C bus signal search or queries the current setting.	7-62
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:MODE	Sets the search mode of the logic I ² C bus signal search or queries the current setting.	7-62
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:NAIGNore?	Queries all settings related to the NON ACK ignore mode of the logic I ² C bus signal search.	7-62
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:NAIGNore:HSMODE	Sets whether to ignore NON ACK in high speed mode of the logic I ² C bus signal search or queries the current setting.	7-62
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:NAIGNore:RACcEss	Sets whether to ignore NON ACK in read access mode of the logic I ² C bus signal search or queries the current setting.	7-62
:SEARCh<x>:SLOGic:I2Cbus[:SETup]:NAIGNore:SBYTE (Start Byte)	Sets whether to ignore NON ACK in the start byte of the I ² C bus trigger or queries the current setting.	7-63

7.1 List of Commands

Command	Function	Page
:SEARCH<x>:SLOGic:I2CBus[:SETup]:SBHSmode?	Queries all settings related to the start byte and high speed mode of the logic I ² C bus signal search.	7-63
:SEARCH<x>:SLOGic:I2CBus[:SETup]:SBHSmode:TYPE	Sets the type of start byte and high speed mode of the logic I ² C bus signal search or queries the current setting.	7-63
:SEARCH<x>:SLOGic:LINBus?	Queries all settings related to the logic LIN bus signal search.	7-63
:SEARCH<x>:SLOGic:LINBus[:SETup]?	Queries all settings related to the setup of the logic LIN bus signal search.	7-63
:SEARCH<x>:SLOGic:LINBus[:SETup]:BLENgtH	Sets the logic LIN bus signal search break length or queries the current setting.	7-64
:SEARCH<x>:SLOGic:LINBus[:SETup]:BRATe	Sets the bit rate (data transfer rate) of the logic LIN bus signal search or queries the current setting.	7-64
:SEARCH<x>:SLOGic:LINBus[:SETup]:DATA?	Queries all settings related to the data of the logic LIN bus signal search.	7-64
:SEARCH<x>:SLOGic:LINBus[:SETup]:DATA:BNUM	Sets the number of bytes of the logic LIN bus signal search or queries the current setting.	7-64
:SEARCH<x>:SLOGic:LINBus[:SETup]:DATA:BOReR	Sets the data byte order of the logic LIN bus signal search or queries the current setting.	7-64
:SEARCH<x>:SLOGic:LINBus[:SETup]:DATA:COndition	Sets the data condition of the logic LIN bus signal search or queries the current setting.	7-64
:SEARCH<x>:SLOGic:LINBus[:SETup]:DATA:DATA<x>	Sets the comparison data of the logic LIN bus signal search data or queries the current setting.	7-65
:SEARCH<x>:SLOGic:LINBus[:SETup]:DATA:HEXA	Sets the data of the logic LIN bus signal search in hexadecimal notation.	7-65
:SEARCH<x>:SLOGic:LINBus[:SETup]:DATA:MSBLsb	Sets the MSB/LSB bit of the logic LIN bus signal search or queries the current setting.	7-65
:SEARCH<x>:SLOGic:LINBus[:SETup]:DATA:PATTeRn	Sets the data of the logic LIN bus signal search in binary notation or queries the current setting.	7-65
:SEARCH<x>:SLOGic:LINBus[:SETup]:DATA:SIGN	Sets the data sign of the logic LIN bus signal search or queries the current setting.	7-65
:SEARCH<x>:SLOGic:LINBus[:SETup]:ERRoR?	Queries all settings related to the logic LIN bus signal search error.	7-66
:SEARCH<x>:SLOGic:LINBus[:SETup]:ERRoR:CHecKsum	Sets the logic LIN bus signal search Checksum error or queries the current setting.	7-66
:SEARCH<x>:SLOGic:LINBus[:SETup]:ERRoR:FRAMing	Sets the logic LIN bus signal search Framing error or queries the current setting.	7-66
:SEARCH<x>:SLOGic:LINBus[:SETup]:ERRoR:PARity	Sets the logic LIN bus signal search Parity error or queries the current setting.	7-66
:SEARCH<x>:SLOGic:LINBus[:SETup]:ERRoR:SYNCh	Sets the logic LIN bus signal search Synch error or queries the current setting.	7-66
:SEARCH<x>:SLOGic:LINBus[:SETup]:ERRoR:TOUTr	Sets the logic LIN bus signal search Timeout error or queries the current setting.	7-66
:SEARCH<x>:SLOGic:LINBus[:SETup]:ID?	Queries all settings related to the ID of the logic LIN bus signal search.	7-67
:SEARCH<x>:SLOGic:LINBus[:SETup]:ID:HEXA	Sets the ID of the logic LIN bus signal search in hexadecimal notation.	7-67
:SEARCH<x>:SLOGic:LINBus[:SETup]:ID:PATTeRn	Sets the ID of the logic LIN bus signal search in binary notation or queries the current setting.	7-67
:SEARCH<x>:SLOGic:LINBus[:SETup]:MODe	Sets the logic LIN bus signal search mode or queries the current setting.	7-67
:SEARCH<x>:SLOGic:LINBus[:SETup]:REvIsion	Sets the logic LIN bus signal search revision (1.3, 2.0, or Both) or queries the current setting.	7-67
:SEARCH<x>:SLOGic:LINBus[:SETup]:SPoiNt	Sets the logic LIN bus signal search sampling point or queries the current setting.	7-67
:SEARCH<x>:SLOGic:LINBus[:SETup]:TRAcE	Sets the trace of the logic LIN bus signal search or queries the current setting.	7-68
:SEARCH<x>:SLOGic:SPIBus?	Queries all settings related to the logic SPI bus signal search.	7-68
:SEARCH<x>:SLOGic:SPIBus:CLOcK?	Queries all settings related to the clock signal channel of the logic SPI bus signal search.	7-68
:SEARCH<x>:SLOGic:SPIBus:CLOcK:POLarity	Sets the polarity of the clock signal channel of the logic SPI bus signal search or queries the current setting.	7-68
:SEARCH<x>:SLOGic:SPIBus:CLOcK:SOURce	Sets the clock signal channel of the logic SPI bus signal search or queries the current setting.	7-68
:SEARCH<x>:SLOGic:SPIBus:CS?	Queries all settings related to the chip select signal channel of the logic SPI bus signal search.	7-68

7.1 List of Commands

Command	Function	Page
:SEARCh<x>:SLOGic:SPIBus:CS:Active	Sets the active level of the chip select signal channel of the logic SPI bus signal search or queries the current setting.	7-69
:SEARCh<x>:SLOGic:SPIBus:CS:TRACe	Sets the chip select signal channel of the logic SPI bus signal search or queries the current setting.	7-69
:SEARCh<x>:SLOGic:SPIBus[:SETUp]?	Queries all settings related to the setup of the logic SPI bus signal search.	7-69
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:BITorder	Sets the bit order of the logic SPI bus signal search or queries the current setting.	7-69
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:DATA<x>?	Queries all settings related to each data of the logic SPI bus signal search.	7-69
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:DATA<x>:BYTE	Sets the data size (in bytes) of each data of the logic SPI bus signal search or queries the current setting.	7-69
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:DATA<x>:CONDition	Sets the determination method (match/mismatch) of the data of the logic SPI bus signal search or queries the current setting.	7-70
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:DATA<x>:DPOSITion	Sets the pattern comparison start position of the logic SPI bus signal search or queries the current setting.	7-70
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:DATA<x>:DSIZe	Sets the number of fields in the data used for logic SPI bus signal search or queries the current setting.	7-70
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:DATA<x>:HEXA<x>	Sets the data of the logic SPI bus signal search in hexadecimal notation.	7-70
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:DATA<x>:PATTERn<x>	Sets the data of the logic SPI bus signal search in binary notation or queries the current setting.	7-70
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:DATA<x>:TRACe	Sets the source channel of each data of the logic SPI bus signal search or queries the current setting.	7-71
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:EMSBLSB	Sets the enabled range of the field used for logic SPI bus signal search or queries the current setting.	7-71
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:FSIZe	Sets the field size used for logic SPI bus signal search or queries the current setting.	7-71
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:ITIME	Sets the idle time used in logic SPI bus signal search or queries the current setting.	7-71
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:MODE	Sets the wiring system of the logic SPI bus signal search (three-wire or four-wire) or queries the current setting.	7-71
:SEARCh<x>:SLOGic:UART?	Queries all settings related to the logic UART bus signal search.	7-71
:SEARCh<x>:SLOGic:UART:BRATe	Sets the logic UART bus signal search bit rate (data transfer rate) or queries the current setting.	7-72
:SEARCh<x>:SLOGic:UART:DATA?	Queries all settings related to data of the logic UART bus signal search.	7-72
:SEARCh<x>:SLOGic:UART:DATA:BITorder	Sets the data bit order of the logic UART bus signal search or queries the current setting.	7-72
:SEARCh<x>:SLOGic:UART:DATA:DSIZe	Sets the number of data bytes of the logic UART bus signal search or queries the current setting.	7-72
:SEARCh<x>:SLOGic:UART:DATA:HEXA	Sets the logic UART bus signal search data in hexadecimal.	7-72
:SEARCh<x>:SLOGic:UART:DATA:PATTERn	Sets the data of the logic UART bus signal search in binary or queries the current setting.	7-72
:SEARCh<x>:SLOGic:UART:ERRor?	Queries all settings related to the logic UART bus signal search error.	7-72
:SEARCh<x>:SLOGic:UART:ERRor:FRAMing	Sets the logic UART bus signal search Framing error or queries the current setting.	7-72
:SEARCh<x>:SLOGic:UART:ERRor:PARity	Sets the logic UART bus signal search Parity error or queries the current setting.	7-73
:SEARCh<x>:SLOGic:UART:ERRor:PMODE	Sets the logic UART bus signal search Parity mode or queries the current setting.	7-73
:SEARCh<x>:SLOGic:UART:FORMat	Sets the logic UART bus signal search format or queries the current setting.	7-73
:SEARCh<x>:SLOGic:UART:MODE	Sets the logic UART bus signal search mode or queries the current setting.	7-73
:SEARCh<x>:SLOGic:UART:POLarity	Sets the logic UART bus signal search polarity or queries the current setting.	7-73
:SEARCh<x>:SLOGic:UART:SPOint	Sets the logic UART bus signal search sampling point or queries the current setting.	7-73
:SEARCh<x>:SLOGic:UART:TRACe	Sets the logic UART bus signal search trace or queries the current setting.	7-73
:SEARCh<x>:SPIBus?	Queries all settings related to the SPI bus signal search.	7-74
:SEARCh<x>:SPIBus:CLOCK	Queries all settings related to the clock channel of the SPI bus signal search.	7-74
:SEARCh<x>:SPIBus:CLOCK:POLarity	Sets the polarity of the clock channel of the SPI bus signal search or queries the current setting.	7-74
:SEARCh<x>:SPIBus:CLOCK:SOURce	Sets the clock channel of the SPI bus signal search or queries the current setting.	7-74

7.1 List of Commands

Command	Function	Page
:SEARCh<x>:SPIBus:CS?	Queries all settings related to the chip select channel of the SPI bus signal search.	7-74
:SEARCh<x>:SPIBus:CS:ACTive	Sets the active level of the chip select channel of the SPI bus signal search or queries the current setting.	7-74
:SEARCh<x>:SPIBus:CS:TRACe	Sets the chip select channel of the SPI bus signal search or queries the current setting.	7-74
:SEARCh<x>:SPIBus:SETup?	Queries all settings related to the SPI bus signal search setup.	7-74
:SEARCh<x>:SPIBus[:SETup]:BITOrder	Sets the bit order of the SPI bus signal search or queries the current setting.	7-75
:SEARCh<x>:SPIBus[:SETup]:DATA<x>?	Queries all settings related to the data of the SPI bus signal search.	7-75
:SEARCh<x>:SPIBus[:SETup]:DATA<x>:BYTE	Sets the number of bytes of the data of the SPI bus signal search or queries the current setting.	7-75
:SEARCh<x>:SPIBus[:SETup]:DATA<x>:CONDition	Sets the determination method (match or not match) of the data of the SPI bus signal search or queries the current setting.	7-75
:SEARCh<x>:SPIBus[:SETup]:DATA<x>:DPOSition	Sets the pattern comparison start position of the data of the SPI bus signal search or queries the current setting.	7-75
:SEARCh<x>:SPIBus[:SETup]:DATA<x>:DSIZe	Sets the number of fields in the data used for SPI bus signal search or queries the current setting.	7-75
:SEARCh<x>:SPIBus[:SETup]:DATA<x>:HEXA<x>	Sets the data of the SPI bus signal search in hexadecimal notation.	7-76
:SEARCh<x>:SPIBus[:SETup]:DATA<x>:PATtern<x>	Sets the data of the SPI bus signal search in binary notation or queries the current setting.	7-76
:SEARCh<x>:SPIBus[:SETup]:DATA<x>:TRACe	Sets the source channel of the data of the SPI bus signal search or queries the current setting.	7-76
:SEARCh<x>:SPIBus[:SETup]:EMSBLSB	Sets the enabled range of the field used for SPI bus signal search or queries the current setting.	7-76
:SEARCh<x>:SPIBus[:SETup]:FSIZe	Sets the field size used for SPI bus signal search or queries the current setting.	7-76
:SEARCh<x>:SPIBus[:SETup]:ITIME	Sets the idle time used in SPI bus signal search or queries the current setting.	7-76
:SEARCh<x>:SPIBus[:SETup]:MODE	Sets the wiring system of the SPI bus signal search (three-wire or four-wire) or queries the current setting.	7-76
:SEARCh<x>:TRACe<x>:LEVel	Sets the threshold level of the trace or queries the current setting.	7-77
:SEARCh<x>:TYPE	Sets the search type or queries the current setting.	7-77
:SEARCh<x>:UART?	Queries all settings related to the UART bus signal search.	7-77
:SEARCh<x>:UART:BRATe	Sets the UART bus signal search bit rate (data transfer rate) or queries the current setting.	7-77
:SEARCh<x>:UART:DATA?	Queries all settings related to data of the UART bus signal search	7-77
:SEARCh<x>:UART:DATA:BITOrder	Sets the data bit order of the UART bus signal search or queries the current setting.	7-77
:SEARCh<x>:UART:DATA:DSIZe	Sets the number of data bytes of the UART bus signal search or queries the current setting.	7-77
:SEARCh<x>:UART:DATA:HEXA	Sets the UART bus signal search data in hexadecimal.	7-77
:SEARCh<x>:UART:DATA:PATtern	Sets the data of the UART bus signal search in binary or queries the current setting.	7-78
:SEARCh<x>:UART:ERRor?	Queries all settings related to the UART bus signal search error.	7-78
:SEARCh<x>:UART:ERRor:FRAMing	Sets the UART bus signal search Framing error or queries the current setting.	7-78
:SEARCh<x>:UART:ERRor:PARity	Sets the UART bus signal search Parity error or queries the current setting.	7-78
:SEARCh<x>:UART:ERRor:PMODE	Sets the UART bus signal search Parity mode or queries the current setting.	7-78
:SEARCh<x>:UART:FORMat	Sets the UART bus signal search format or queries the current setting.	7-78
:SEARCh<x>:UART:MODE	Sets the UART bus signal search mode or queries the current setting.	7-78
:SEARCh<x>:UART:POLarity	Sets the UART bus signal search polarity or queries the current setting.	7-78
:SEARCh<x>:UART:SPOint	Sets the UART bus signal search sample point or queries the current setting.	7-78
:SEARCh<x>:UART:TRACe	Sets the UART bus signal search trace or queries the current setting.	7-78
SERialbus Group		
:SERialbus?	Queries all settings related to the serial bus setup.	7-79
:SERialbus:SETup<x>?	Queries all settings related to each setup of the serial bus setup.	7-79
:SERialbus:SETup<x>:ASETup:ABORT	Cancels auto setup of the serial bus setup.	7-79
:SERialbus:SETup<x>:ASETup:EXECute	Executes auto setup of the serial bus setup.	7-79

7.1 List of Commands

Command	Function	Page
:SERialbus:SETup<x>:ASETup:UNDO	Undoes the executed auto setup of the serial bus setup.	7-80
:SERialbus:SETup<x>:CANBus?	Queries all settings related to the CAN bus setup.	7-80
:SERialbus:SETup<x>:CANBus:BRATe	Sets the CAN bus setup bit rate (data transfer rate) or queries the current setting.	7-80
:SERialbus:SETup<x>:CANBus:RECCessive	Sets the CAN bus setup recessive level (bus level) or queries the current setting.	7-80
:SERialbus:SETup<x>:CANBus:SPOint	Sets the CAN bus setup sample point or queries the current setting.	7-80
:SERialbus:SETup<x>:CANBus:TRACe	Sets the CAN bus setup trace or queries the current setting.	7-80
:SERialbus:SETup<x>:I2CBus?	Queries all settings related to the I2C bus setup.	7-80
:SERialbus:SETup<x>:I2CBus:CLOCK	Sets the I2C bus setup clock channel or queries the current setting.	7-80
:SERialbus:SETup<x>:I2CBus:DTRace	Sets the I2C bus signal analysis data channel or queries the current setting.	7-80
:SERialbus:SETup<x>:LINBus?	Queries all settings related to the LIN bus setup.	7-81
:SERialbus:SETup<x>:LINBus:BRATe	Sets the LIN bus setup bit rate (data transfer rate) or queries the current setting.	7-81
:SERialbus:SETup<x>:LINBus:REVIsion	Sets the LIN bus setup revision (1.3, 2.0, or Both) or queries the current setting.	7-81
:SERialbus:SETup<x>:LINBus:SPOint	Sets the LIN bus setup sample point or queries the current setting.	7-81
:SERialbus:SETup<x>:LINBus:TRACe	Sets the LIN bus setup trace or queries the current setting.	7-81
:SERialbus:SETup<x>:SPIBus?	Queries all settings related to the SPI bus setup.	7-81
:SERialbus:SETup<x>:SPIBus:BITOrder	Sets the SPI bus setup bit order or queries the current setting.	7-81
:SERialbus:SETup<x>:SPIBus:CLOCK?	Queries all settings related to the channel of the clock signal of the SPI bus setup.	7-81
:SERialbus:SETup<x>:SPIBus:CLOCK:POLarity	Sets the polarity of the channel of the clock signal of the SPI bus setup.	7-82
:SERialbus:SETup<x>:SPIBus:CLOCK:TRACe	Sets the channel of the clock signal of the SPI bus setup or queries the current setting.	7-82
:SERialbus:SETup<x>:SPIBus:CS?	Queries all settings related to the channel of the chip select signal of the SPI bus setup.	7-82
:SERialbus:SETup<x>:SPIBus:CS:ACTive	Sets the active level of the channel of the chip select signal of the SPI bus setup or queries the current setting.	7-82
:SERialbus:SETup<x>:SPIBus:CS:TRACe	Sets the channel of the chip select signal of the SPI bus setup or queries the current setting.	7-82
:SERialbus:SETup<x>:SPIBus:DATA<x>?	Queries all settings related to each data of the SPI bus setup.	7-82
:SERialbus:SETup<x>:SPIBus:DATA<x>:ACTive	Sets the active level of each data of the SPI bus setup or queries the current setting.	7-82
:SERialbus:SETup<x>:SPIBus:DATA<x>:TRACe	Sets each data channel of the SPI bus setup or queries the current setting.	7-83
:SERialbus:SETup<x>:SPIBus:ITIMe	Sets the idle time used in SPI bus setup or queries the current setting.	7-83
:SERialbus:SETup<x>:SPIBus:MODE	Sets the wiring method (3-wire/4-wire) of the SPI bus setup or queries the current setting.	7-83
:SERialbus:SETup<x>:TRACe<x>?	Queries all settings related to each trace.	7-83
:SERialbus:SETup<x>:TRACe<x>:HYSTEResis	Sets the hysteresis of the threshold level of each trace or queries the current setting.	7-83
:SERialbus:SETup<x>:TRACe<x>:LEVel	Sets the threshold level of each trace or queries the current setting.	7-83
:SERialbus:SETup<x>:TYPE	Sets the serial bus setup type or queries the current setting.	7-83
:SERialbus:SETup<x>:UART?	Queries all settings related to the UART bus setup.	7-83
:SERialbus:SETup<x>:UART:BITOrder	Sets the UART bus setup bit order or queries the current setting.	7-84
:SERialbus:SETup<x>:UART:BRATe	Sets the UART bus setup bit rate (data transfer rate) or queries the current setting.	7-84
:SERialbus:SETup<x>:UART:FORMat	Sets the UART bus setup data format or queries the current setting.	7-84
:SERialbus:SETup<x>:UART:PMODE	Sets the UART bus setup Parity mode or queries the current setting.	7-84
:SERialbus:SETup<x>:UART:POLarity	Sets the UART bus setup polarity or queries the current setting.	7-84

Command	Function	Page
:Serialbus:SETup<x>:UART:SPOint	Sets the UART bus setup sample point or queries the current setting.	7-84
:Serialbus:SETup<x>:UART:TRACe	Sets the UART bus setup trace or queries the current setting.	7-84
:Serialbus:TLink	Sets the serial bus setup trigger link or queries the current setting.	7-84
TRIGger Group		
:TRIGger:EINterval:EVENT<x>: CANBus?	Queries all settings related to the CAN bus trigger of the event.	7-85
:TRIGger:EINterval:EVENT<x>: CANBus:ACK	Sets the ACK condition of the CAN bus signal trigger or queries the current setting.	7-85
:TRIGger:EINterval:EVENT<x>: CANBus:BRATe	Sets the bit rate (data transfer rate) of the CAN bus signal trigger or queries the current setting.	7-85
:TRIGger:EINterval:EVENT<x>: CANBus:DATA?	Queries all settings related to the CAN bus signal trigger data.	7-85
:TRIGger:EINterval:EVENT<x>: CANBus:DATA:BORe	Sets the byte order of the CAN bus signal trigger data or queries the current setting.	7-86
:TRIGger:EINterval:EVENT<x>: CANBus:DATA:COndition	Sets the data condition of the CAN bus signal trigger or queries the current setting.	7-86
:TRIGger:EINterval:EVENT<x>: CANBus:DATA:DATA<x>	Sets the comparison data of the CAN bus signal trigger data or queries the current setting.	7-86
:TRIGger:EINterval:EVENT<x>: CANBus:DATA:DLC	Sets the number of valid bytes (DLC) of the CAN bus signal trigger data or queries the current setting.	7-86
:TRIGger:EINterval:EVENT<x>: CANBus:DATA:HEXA	Sets the CAN bus signal trigger data in hexadecimal notation.	7-87
:TRIGger:EINterval:EVENT<x>: CANBus:DATA:MSBLsb	Sets the MSB and LSB bits of the CAN bus signal trigger data or queries the current setting.	7-87
:TRIGger:EINterval:EVENT<x>: CANBus:DATA:PATtern	Sets the CAN bus signal trigger data in binary notation or queries the current setting.	7-87
:TRIGger:EINterval:EVENT<x>: CANBus:DATA:SIGN	Sets the sign of the CAN bus signal trigger data or queries the current setting.	7-87
:TRIGger:EINterval:EVENT<x>: CANBus:IDEXt?	Queries all settings related to the ID of the extended format of the CAN bus signal trigger.	7-87
:TRIGger:EINterval:EVENT<x>: CANBus:IDEXt:HEXA	Sets the ID of the extended format of the CAN bus signal trigger in hexadecimal notation.	7-87
:TRIGger:EINterval:EVENT<x>: CANBus:IDEXt:PATtern	Sets the ID of the extended format of the CAN bus signal trigger in binary notation or queries the current setting.	7-88
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR?	Queries all settings related to the OR condition of the CAN bus signal trigger.	7-88
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>?	Queries all settings related to each ID of the OR condition of the CAN bus signal trigger.	7-88
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:ACK	Sets each ACK condition of the OR condition of the CAN bus signal trigger or queries the current setting.	7-88
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:DATA?	Queries all settings related to each data of the OR condition of the CAN bus signal trigger.	7-89
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:DATA:BORe	Sets byte order of each data of the OR condition of the CAN bus signal trigger or queries the current setting.	7-89
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:DATA:COndition	Sets each data condition of the OR condition of the CAN bus signal trigger or queries the current setting.	7-89
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:DATA:DATA<x>	Sets comparison data of each data of the OR condition of the CAN bus signal trigger or queries the current setting.	7-89
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:DATA:DLC	Sets the number of valid bytes (DLC) of each data of the OR condition of the CAN bus signal trigger or queries the current setting.	7-89
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:DATA:HEXA	Sets each data of the OR condition of the CAN bus signal trigger in hexadecimal notation.	7-90
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:DATA:MSBLsb	Sets the MSB and LSB bits of each data of the OR condition of the CAN bus signal trigger or queries the current setting.	7-90
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:DATA:PATtern	Sets each data of the OR condition of the CAN bus signal trigger in binary notation or queries the current setting.	7-90
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:DATA:SIGN	Sets sign of each data of the OR condition of the CAN bus signal trigger or queries the current setting.	7-90
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:FORMat	Sets each message format (standard or extended) of the OR condition of the CAN bus signal trigger or queries the current setting.	7-90
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:IDEXt?	Queries all settings related to the ID of each extended format of the OR condition of the CAN bus signal trigger.	7-90

7.1 List of Commands

Command	Function	Page
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:IDEXt:HEXA	Sets the ID of each extended format of the OR condition of the CAN bus signal trigger in hexadecimal notation.	7-91
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:IDEXt:PATtern	Sets the ID of each extended format of the OR condition of the CAN bus signal trigger in binary notation or queries the current setting.	7-91
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:IDSTd?	Queries all settings related to the ID of each standard format of the OR condition of the CAN bus signal trigger.	7-91
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:IDSTd:HEXA	Sets the ID of each standard format of the OR condition of the CAN bus signal trigger in hexadecimal notation.	7-91
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:IDSTd:PATtern	Sets the ID of each standard format of the OR condition of the CAN bus signal trigger in binary notation or queries the current setting.	7-91
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:MODE	Enables or disables each condition of the OR condition of the CAN bus signal trigger or queries the current setting.	7-91
:TRIGger:EINterval:EVENT<x>: CANBus:IDOR:ID<x>:RTR	Sets each RTR of the OR condition of the CAN bus signal trigger or queries the current setting.	7-92
:TRIGger:EINterval:EVENT<x>: CANBus:IDSTd?	Queries all settings related to the ID of the standard format of the CAN bus signal trigger.	7-92
:TRIGger:EINterval:EVENT<x>: CANBus:IDSTd:HEXA	Sets the ID of the standard format of the CAN bus signal trigger in hexadecimal notation.	7-92
:TRIGger:EINterval:EVENT<x>: CANBus:IDSTd:PATtern	Sets the ID of the standard format of the CAN bus signal trigger in binary notation or queries the current setting.	7-92
:TRIGger:EINterval:EVENT<x>: CANBus:MODE	Sets the CAN bus signal trigger mode or queries the current setting.	7-92
:TRIGger:EINterval:EVENT<x>: CANBus:REcessive	Sets the recessive level (bus level) of the CAN bus signal trigger or queries the current setting.	7-92
:TRIGger:EINterval:EVENT<x>: CANBus:RTR	Sets the RTR of the CAN bus signal trigger or queries the current setting.	7-93
:TRIGger:EINterval:EVENT<x>: CANBus:SOURce	Sets the trigger source of the CAN bus signal trigger or queries the current setting.	7-93
:TRIGger:EINterval:EVENT<x>: CANBus:SPOint	Sets the sample point of the CAN bus signal trigger or queries the current setting.	7-93
:TRIGger:EINterval:EVENT<x>: I2Cbus?	Queries all settings related to the I ² C bus signal trigger of the event.	7-93
:TRIGger:EINterval:EVENT<x>: I2Cbus:ADATa?	Queries all settings related to the address of the I ² C bus signal trigger.	7-93
:TRIGger:EINterval:EVENT<x>: I2Cbus:ADATa:BIT10address?	Queries all settings related to the 10-bit address of the I ² C bus signal trigger.	7-94
:TRIGger:EINterval:EVENT<x>: I2Cbus:ADATa:BIT10address:HEXA	Sets the 10-bit address of the I ² C bus signal trigger in hexadecimal notation.	7-94
:TRIGger:EINterval:EVENT<x>: I2Cbus:ADATa:BIT10address: PATtern	Sets the 10-bit address of the I ² C bus signal trigger in binary notation or queries the current setting.	7-94
:TRIGger:EINterval:EVENT<x>: I2Cbus:ADATa:BIT7Address?	Queries all settings related to the 7-bit address of the I ² C bus signal trigger.	7-94
:TRIGger:EINterval:EVENT<x>: I2Cbus:ADATa:BIT7Address:HEXA	Sets the 7-bit address of the I ² C bus signal trigger in hexadecimal notation.	7-94
:TRIGger:EINterval:EVENT<x>: I2Cbus:ADATa:BIT7Address: PATtern	Sets the 7-bit address of the I ² C bus signal trigger in binary notation or queries the current setting.	7-94
:TRIGger:EINterval:EVENT<x>: I2Cbus:ADATa:BIT7APsub?	Queries all settings related to the 7-bit + Sub address of the I ² C bus signal trigger.	7-94
:TRIGger:EINterval:EVENT<x>: I2Cbus:ADATa:BIT7APsub:ADDRes?	Queries all settings related to the 7-bit address of the 7-bit + Sub address of the I ² C bus signal trigger.	7-95
:TRIGger:EINterval:EVENT<x>: I2Cbus:ADATa:BIT7APsub:ADDRes: HEXA	Sets the 7-bit address of the 7-bit + Sub address of the I ² C bus signal trigger in hexadecimal notation.	7-95
:TRIGger:EINterval:EVENT<x>: I2Cbus:ADATa:BIT7APsub:ADDRes: PATtern	Sets the 7-bit address of the 7-bit + Sub address of the I ² C bus signal trigger in binary notation or queries the current setting.	7-95
:TRIGger:EINterval:EVENT<x>: I2Cbus:ADATa:BIT7APsub: SADDRESS?	Queries all settings related to the Sub address of the 7-bit + Sub address of the I ² C bus signal trigger.	7-95
:TRIGger:EINterval:EVENT<x>: I2Cbus:ADATa:BIT7APsub: SADDRESS:HEXA	Sets the Sub address of the 7-bit + Sub address of the I ² C bus signal trigger in hexadecimal notation.	7-95

Command	Function	Page
:TRIGger:EINterval:EVENT<x>: I2Cbus:ADATa:BIT7APsub: SADDress:PATtern	Sets the Sub address of the 7-bit + Sub address of the I ² C bus signal trigger in binary notation or queries the current setting.	7-95
:TRIGger:EINterval:EVENT<x>: I2Cbus:ADATa:TYPE	Sets the address type of the I ² C bus signal trigger or queries the current setting.	7-96
:TRIGger:EINterval:EVENT<x>: I2Cbus:CLOCK?	Queries all settings related to the clock channel of the I ² C bus signal trigger.	7-96
:TRIGger:EINterval:EVENT<x>: I2Cbus:CLOCK:SOURce	Sets the clock channel of the I ² C bus signal trigger or queries the current setting.	7-96
:TRIGger:EINterval:EVENT<x>: I2Cbus:DATA?	Queries all settings related to the data of the I ² C bus signal trigger.	7-96
:TRIGger:EINterval:EVENT<x>: I2Cbus:DATA:BYTE	Sets the number of data bytes of the I ² C bus signal trigger or queries the current setting.	7-96
:TRIGger:EINterval:EVENT<x>: I2Cbus:DATA:CONDition	Sets the determination method (match or not match) of the data of the I ² C bus signal trigger or queries the current setting.	7-96
:TRIGger:EINterval:EVENT<x>: I2Cbus:DATA:DPOSITion	Sets the position for comparing the data pattern of the I ² C bus signal trigger or queries the current setting.	7-97
:TRIGger:EINterval:EVENT<x>: I2Cbus:DATA:HEXA<x>	Sets the data of the I ² C bus signal trigger in hexadecimal notation.	7-97
:TRIGger:EINterval:EVENT<x>: I2Cbus:DATA:MODE	Enables/Disables the data conditions of the I ² C bus signal trigger or queries the current setting.	7-97
:TRIGger:EINterval:EVENT<x>: I2Cbus:DATA:PATtern<x>	Sets the data of the I ² C bus signal trigger in binary notation or queries the current setting.	7-97
:TRIGger:EINterval:EVENT<x>: I2Cbus:DATA:PMODE	Sets the pattern comparison start position mode of the data of the I ² C bus signal trigger or queries the current setting.	7-97
:TRIGger:EINterval:EVENT<x>: I2Cbus:DATA:SOURce	Sets the data channel of the I ² C bus signal trigger or queries the current setting.	7-97
:TRIGger:EINterval:EVENT<x>: I2Cbus:GCALL?	Queries all settings related to the general call of the I ² C bus signal trigger.	7-98
:TRIGger:EINterval:EVENT<x>: I2Cbus:GCALL:BIT7maddress?	Queries all settings related to the 7-bit master address of the general call of the I ² C bus signal trigger.	7-98
:TRIGger:EINterval:EVENT<x>: I2Cbus:GCALL:BIT7maddress:HEXA	Sets the 7-bit master address of the general call of the I ² C bus signal trigger in hexadecimal notation.	7-98
:TRIGger:EINterval:EVENT<x>: I2Cbus:GCALL:BIT7maddress: PATtern	Sets the 7-bit master address of the general call of the I ² C bus signal trigger in binary notation or queries the current setting.	7-98
:TRIGger:EINterval:EVENT<x>: I2Cbus:GCALL:SBYTE (Second Byte)	Sets the second byte type of the general call of the I ² C bus signal trigger or queries the current setting.	7-98
:TRIGger:EINterval:EVENT<x>: I2Cbus:MODE	Sets the trigger mode of the I ² C bus signal trigger or queries the current setting.	7-98
:TRIGger:EINterval:EVENT<x>: I2Cbus:NAIgnore?	Queries all settings related to the NON ACK ignore mode of the I ² C bus signal trigger.	7-98
:TRIGger:EINterval:EVENT<x>: I2Cbus:NAIgnore:HSMODE	Sets whether to ignore NON ACK in high speed mode of the I ² C bus signal trigger or queries the current setting.	7-99
:TRIGger:EINterval:EVENT<x>: I2Cbus:NAIgnore:RACcess	Sets whether to ignore NON ACK in read access mode of the I ² C bus signal trigger or queries the current setting.	7-99
:TRIGger:EINterval:EVENT<x>: I2Cbus:NAIgnore:SBYTE (Start Byte)	Sets whether to ignore NON ACK in the start byte of the I ² C bus signal trigger or queries the current setting.	7-99
:TRIGger:EINterval:EVENT<x>: I2Cbus:SBHSMODE?	Queries all settings related to the start byte and high speed mode of the I ² C bus signal trigger.	7-99
:TRIGger:EINterval:EVENT<x>: I2Cbus:SBHSMODE:TYPE	Sets the type of the start byte or high speed mode of the I ² C bus signal trigger or queries the current setting.	7-99
:TRIGger:EINterval:EVENT<x>: LINbus?	Queries all settings related to LIN bus signal triggers of each event.	7-99
:TRIGger:EINterval:EVENT<x>: LINbus:BRATe	Sets the LIN bus signal trigger bitrate (data transfer rate) or queries the current setting.	7-99
:TRIGger:EINterval:EVENT<x>: LINbus:SOURce	Sets the LIN bus signal trigger source or queries the current setting.	7-100
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus?	Queries all settings related to the logic I ² C bus trigger of the event.	7-100
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:ADATa?	Queries all settings related to the address of the logic I ² C bus trigger.	7-100

7.1 List of Commands

Command	Function	Page
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:ADATa: BIT10address?	Queries all settings related to the 10-bit address of the logic I ² C bus trigger.	7-100
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:ADATa: BIT10address:HEXA	Sets the 10-bit address of the logic I ² C bus trigger in hexadecimal notation.	7-100
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:ADATa: BIT10address:PATtern	Sets the 10-bit address of the logic I ² C bus trigger in binary notation or queries the current setting.	7-101
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:ADATa:BIT7Address?	Queries all settings related to the 7-bit address of the logic I ² C bus trigger.	7-101
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:ADATa:BIT7Address: HEXA	Sets the 7-bit address of the logic I ² C bus trigger in hexadecimal notation.	7-101
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:ADATa:BIT7Address: PATtern	Sets the 7-bit address of the logic I ² C bus trigger in binary notation or queries the current setting.	7-101
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:ADATa:BIT7APsub?	Queries all settings related to the 7-bit address of the 7-bit + Sub address of the logic I ² C bus trigger.	7-101
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:ADATa:BIT7APsub: ADDRESS?	Queries all settings related to the 7-bit address of the 7-bit + Sub address of the logic I ² C bus trigger.	7-101
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:ADATa:BIT7APsub: ADDRESS:HEXA	Sets the 7-bit address of the 7-bit + Sub address of the logic I ² C bus trigger in hexadecimal notation.	7-102
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:ADATa:BIT7APsub: ADDRESS:PATtern	Sets the 7-bit address of the 7-bit + Sub address of the logic I ² C bus trigger in binary notation or queries the current setting.	7-102
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:ADATa:BIT7APsub: SADDRESS?	Queries all settings related to the Sub address of the 7-bit + Sub address of the logic I ² C bus trigger.	7-102
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:ADATa:BIT7APsub: SADDRESS:HEXA	Sets the Sub address of the 7-bit + Sub address of the logic I ² C bus trigger in hexadecimal notation.	7-102
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:ADATa:BIT7APsub: SADDRESS:PATtern	Sets the Sub address of the 7-bit + Sub address of the logic I ² C bus trigger in binary notation or queries the current setting.	7-102
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:ADATa:TYPE	Sets the address type of the logic I ² C bus trigger or queries the current setting.	7-103
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:CLOCK?	Queries all settings related to the clock of the logic I ² C bus trigger.	7-103
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:CLOCK:SOURce	Sets the clock trace of the logic I ² C bus trigger or queries the current setting.	7-103
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:DATA?	Queries all settings related to the data of the logic I ² C bus trigger.	7-103
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:DATA:BYTE	Sets the number of data bytes of the logic I ² C bus trigger or queries the current setting.	7-103
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:DATA:CONDition	Sets the determination method (match or not match) of the data of the logic I ² C bus trigger or queries the current setting.	7-103
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:DATA:DPOSITion	Sets the position for comparing the data pattern of the logic I ² C bus trigger or queries the current setting.	7-104
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:DATA:HEXA<x>	Sets the data of the logic I ² C bus trigger in hexadecimal notation.	7-104
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:DATA:MODE	Enables/disables the data conditions of the logic I ² C bus trigger or queries the current setting.	7-104
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:DATA:PATtern<x>	Sets the data of the I ² C bus trigger in binary notation or queries the current setting.	7-104
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:DATA:PMODE	Sets the pattern comparison start position mode of the data of the logic I ² C bus trigger or queries the current setting.	7-104
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:DATA:SOURce	Sets the data trace of the logic I ² C bus trigger or queries the current setting.	7-105
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:GCAL1?	Queries all settings related to the general call of the logic I ² C bus trigger.	7-105

Command	Function	Page
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:GCALL: BIT7maddress?	Queries all settings related to the 7-bit master address of the general code of the logic I ² C bus trigger.	7-105
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:GCALL: BIT7maddress:HEXA	Sets the 7-bit master address of the general call of the logic I ² C bus trigger in hexadecimal notation.	7-105
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:GCALL: BIT7maddress:PATtern	Sets the 7-bit master address of the general call of the logic I ² C bus trigger in binary notation or queries the current setting.	7-105
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:GCALL:SBYTE (Second Byte)	Sets the second byte type of the general call of the logic I ² C bus trigger or queries the current setting.	7-106
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:MODE	Sets the trigger mode of the logic I ² C bus trigger or queries the current setting.	7-106
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:NAIgnore?	Queries all settings related to the NON ACK ignore mode of the logic I ² C bus trigger.	7-106
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:NAIgnore:HSMODE	Sets whether to ignore NON ACK in high speed mode of the logic I ² C bus trigger or queries the current setting.	7-106
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:NAIgnore:RACCess	Sets whether to ignore NON ACK in read access mode of the logic I ² C bus trigger or queries the current setting.	7-106
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:NAIgnore:SBYTE (Start Byte)	Sets whether to ignore NON ACK in the start byte of the logic I ² C bus trigger or queries the current setting.	7-106
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:SBHsmode?	Queries all settings related to the start byte and high speed mode of the logic I ² C bus trigger.	7-107
:TRIGger:EINterval:EVENT<x>: LOGic:I2Cbus:SBHsmode:TYPE	Sets the type of start byte and high speed mode of the logic I ² C bus trigger or queries the current setting.	7-107
:TRIGger:EINterval:EVENT<x>: LOGic:LINbus?	Queries all settings related to the logic LIN bus trigger of the event.	7-107
:TRIGger:EINterval:EVENT<x>: LOGic:LINbus:BRATE	Sets the bit rate (data transfer rate) of the logic LIN bus signal trigger or queries the current setting.	7-107
:TRIGger:EINterval:EVENT<x>: LOGic:LINbus:SOURce	Sets the trigger source of the logic LIN bus signal trigger or queries the current setting.	7-107
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus?	Queries all settings related to the logic SPI bus trigger of the event.	7-108
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus:BITorder	Sets the bit order of the logic SPI bus trigger or queries the current setting.	7-108
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus:CLOCK?	Queries all settings related to the clock of the logic SPI bus trigger.	7-108
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus:CLOCK:POLarity	Sets the polarity of the clock trace of the logic SPI bus trigger or queries the current setting.	7-108
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus:CLOCK:SOURce	Sets the clock trace of the logic SPI bus trigger or queries the current setting.	7-109
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus:CS?	Queries all settings related to the chip select of the logic SPI bus trigger.	7-109
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus:CS:ACTive	Sets the active level of the chip select of the logic SPI bus trigger or queries the current setting.	7-109
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus:CS:SOURce	Sets the chip select trace of the logic SPI bus trigger or queries the current setting.	7-109
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus:DATA<x>?	Queries all settings related to the data of the logic SPI bus trigger.	7-109
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus:DATA<x>:BYTE	Sets the number of bytes of the data of the logic SPI bus trigger or queries the current setting.	7-110
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus:DATA<x>:CONDition	Sets the determination method (match or not match) of the data of the logic SPI bus trigger or queries the current setting.	7-110
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus:DATA<x>:DPOSITion	Sets the pattern comparison start position of the data of the logic SPI bus trigger or queries the current setting.	7-110
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus:DATA<x>:HEXA<x>	Sets the data of the logic SPI bus trigger in hexadecimal notation.	7-110
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus:DATA<x>:PATtern<x>	Sets the data of the logic SPI bus trigger in binary notation or queries the current setting.	7-110
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus:DATA<x>:SOURce	Sets the trace of the data of the logic SPI bus trigger or queries the current setting.	7-111
:TRIGger:EINterval:EVENT<x>: LOGic:SPIbus:MODE	Sets the wiring system of the logic SPI bus trigger (three-wire or four-wire) or queries the current setting.	7-111

7.1 List of Commands

Command	Function	Page
:TRIGger:EINterval:EVENT<x>:SPIBus?	Queries all settings related to the SPI bus signal trigger of the event.	7-111
:TRIGger:EINterval:EVENT<x>:SPIBus:BITOrder	Sets the bit order of the SPI bus signal trigger or queries the current setting.	7-111
:TRIGger:EINterval:EVENT<x>:SPIBus:CLOCK?	Queries all settings related to the clock channel of the SPI bus signal trigger.	7-111
:TRIGger:EINterval:EVENT<x>:SPIBus:CLOCK:POLarity	Sets the polarity of the clock channel of the SPI bus signal trigger or queries the current setting.	7-112
:TRIGger:EINterval:EVENT<x>:SPIBus:CLOCK:SOURce	Sets the clock channel of the SPI bus signal trigger or queries the current setting.	7-112
:TRIGger:EINterval:EVENT<x>:SPIBus:CS?	Queries all settings related to the chip select channel of the SPI bus signal trigger.	7-112
:TRIGger:EINterval:EVENT<x>:SPIBus:CS:ACTive	Sets the active level of the chip select channel of the SPI bus signal trigger or queries the current setting.	7-112
:TRIGger:EINterval:EVENT<x>:SPIBus:CS:SOURce	Sets the chip select channel of the SPI bus signal trigger or queries the current setting.	7-112
:TRIGger:EINterval:EVENT<x>:SPIBus:DATA<x>?	Queries all settings related to the data of the SPI bus signal trigger.	7-112
:TRIGger:EINterval:EVENT<x>:SPIBus:DATA<x>:BYTE	Sets the number of bytes of the data of the SPI bus signal trigger or queries the current setting.	7-113
:TRIGger:EINterval:EVENT<x>:SPIBus:DATA<x>:CONDition	Sets the determination method (match or not match) of the data of the SPI bus signal trigger or queries the current setting.	7-113
:TRIGger:EINterval:EVENT<x>:SPIBus:DATA<x>:DPOSition	Sets the pattern comparison start position of the data of the SPI bus signal trigger or queries the current setting.	7-113
:TRIGger:EINterval:EVENT<x>:SPIBus:DATA<x>:HEXA<x>	Sets the data of the SPI bus signal trigger in hexadecimal notation.	7-113
:TRIGger:EINterval:EVENT<x>:SPIBus:DATA<x>:PATtern<x>	Sets the data of the SPI bus signal trigger in binary notation or queries the current setting.	7-113
:TRIGger:EINterval:EVENT<x>:SPIBus:DATA<x>:SOURce	Sets the trace of the data of the SPI bus signal trigger or queries the current setting.	7-113
:TRIGger:EINterval:EVENT<x>:SPIBus:MODE	Sets the wiring system of the SPI bus signal trigger (three-wire or four-wire) or queries the current setting.	7-114
:TRIGger:EINterval:EVENT<x>:STATe:CHANnel<x>	Sets the condition to be satisfied of the channel or queries the current setting.	7-114
:TRIGger:EINterval:EVENT<x>:TYPE	Sets the trigger type of the event or queries the current setting.	7-114
:TRIGger:ENHanced:CANBus?	Queries all settings related to the CAN bus signal trigger.	7-114
:TRIGger:ENHanced:CANBus:ACK	Sets the ACK condition of the CAN bus signal trigger or queries the current setting.	7-114
:TRIGger:ENHanced:CANBus:BRATe	Sets the bit rate (data transfer rate) of the CAN bus signal trigger or queries the current setting.	7-115
:TRIGger:ENHanced:CANBus:DATA?	Queries all settings related to the CAN bus signal trigger data.	7-115
:TRIGger:ENHanced:CANBus:DATA:BORDER	Sets the byte order of the CAN bus signal trigger data or queries the current setting.	7-115
:TRIGger:ENHanced:CANBus:DATA:CONDition	Sets the data condition of the CAN bus signal trigger or queries the current setting.	7-115
:TRIGger:ENHanced:CANBus:DATA:DATA<x>	Sets the comparison data of the CAN bus signal trigger data or queries the current setting.	7-115
:TRIGger:ENHanced:CANBus:DATA:DLC	Sets the number of valid bytes (DLC) of the CAN bus signal trigger data or queries the current setting.	7-115
:TRIGger:ENHanced:CANBus:DATA:HEXA	Sets the CAN bus signal trigger data in hexadecimal notation.	7-115
:TRIGger:ENHanced:CANBus:DATA:MSBLsb	Sets the MSB and LSB bits of the CAN bus signal trigger data or queries the current setting.	7-116
:TRIGger:ENHanced:CANBus:DATA:PATtern	Sets the CAN bus signal trigger data in binary notation or queries the current setting.	7-116
:TRIGger:ENHanced:CANBus:DATA:SIGN	Sets the sign of the CAN bus signal trigger data or queries the current setting.	7-116
:TRIGger:ENHanced:CANBus:IDEXt?	Queries all settings related to the ID of the extended format of the CAN bus signal trigger.	7-116
:TRIGger:ENHanced:CANBus:IDEXt:HEXA	Sets the ID of the extended format of the CAN bus signal trigger in hexadecimal notation.	7-116
:TRIGger:ENHanced:CANBus:IDEXt:PATtern	Sets the ID of the extended format of the CAN bus signal trigger in binary notation or queries the current setting.	7-116
:TRIGger:ENHanced:CANBus:IDOR?	Queries all settings related to the OR condition of the CAN bus signal trigger.	7-116

Command	Function	Page
:TRIGger:ENHanced:CANBus:IDOR:ID<x>?	Queries all settings related to each ID of the OR condition of the CAN bus signal trigger.	7-117
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:ACK	Sets each ACK condition of the OR condition of the CAN bus signal trigger or queries the current setting.	7-117
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:DATA?	Queries all settings related to each data of the OR condition of the CAN bus signal trigger.	7-117
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:DATA:BORDER	Sets byte order of each data of the OR condition of the CAN bus signal trigger or queries the current setting.	7-117
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:DATA:CONDition	Sets each data condition of the OR condition of the CAN bus signal trigger or queries the current setting.	7-117
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:DATA:DATA<x>	Sets comparison data of each data of the OR condition of the CAN bus signal trigger or queries the current setting.	7-118
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:DATA:DLC	Sets the number of valid bytes (DLC) of each data of the OR condition of the CAN bus signal trigger or queries the current setting.	7-118
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:DATA:HEXA	Sets each data of the OR condition of the CAN bus signal trigger in hexadecimal notation.	7-118
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:DATA:MSBLSb	Sets the MSB and LSB bits of each data of the OR condition of the CAN bus signal trigger or queries the current setting.	7-118
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:DATA:PATtern	Sets each data of the OR condition of the CAN bus signal trigger in binary notation or queries the current setting.	7-118
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:DATA:SIGN	Sets sign of each data of the OR condition of the CAN bus signal trigger or queries the current setting.	7-119
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:FORMat	Sets each message format (standard or extended) of the OR condition of the CAN bus signal trigger or queries the current setting.	7-119
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:IDExt?	Queries all settings related to the ID of each extended format of the OR condition of the CAN bus signal trigger.	7-119
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:IDExt:HEXA	Sets the ID of each extended format of the OR condition of the CAN bus signal trigger in hexadecimal notation.	7-119
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:IDExt:PATtern	Sets the ID of each extended format of the OR condition of the CAN bus signal trigger in binary notation or queries the current setting.	7-119
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:IDStd?	Queries all settings related to the ID of each standard format of the OR condition of the CAN bus signal trigger.	7-119
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:IDStd:HEXA	Sets the ID of each standard format of the OR condition of the CAN bus signal trigger in hexadecimal notation.	7-119
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:IDStd:PATtern	Sets the ID of each standard format of the OR condition of the CAN bus signal trigger in binary notation or queries the current setting.	7-120
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:MODE	Enables or disables each condition of the OR condition of the CAN bus signal trigger or queries the current setting.	7-120
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:RTR	Sets each RTR of the OR condition of the CAN bus signal trigger or queries the current setting.	7-120
:TRIGger:ENHanced:CANBus:IDSTd?	Queries all settings related to the ID of the standard format of the CAN bus signal trigger.	7-120
:TRIGger:ENHanced:CANBus:IDSTd:HEXA	Sets the ID of the standard format of the CAN bus signal trigger in hexadecimal notation.	7-120
:TRIGger:ENHanced:CANBus:IDSTd:PATtern	Sets the ID of the standard format of the CAN bus signal trigger in binary notation or queries the current setting.	7-120
:TRIGger:ENHanced:CANBus:MODE	Sets the CAN bus signal trigger mode or queries the current setting.	7-120
:TRIGger:ENHanced:CANBus:RECEssive	Sets the recessive level (bus level) of the CAN bus signal trigger or queries the current setting.	7-120
:TRIGger:ENHanced:CANBus:RTR	Sets the RTR of the CAN bus signal trigger or queries the current setting.	7-121
:TRIGger:ENHanced:CANBus:SOURce	Sets the trigger source of the CAN bus signal trigger or queries the current setting.	7-121
:TRIGger:ENHanced:CANBus:SPOint	Sets the sample point of the CAN bus signal trigger or queries the current setting.	7-121
:TRIGger:ENHanced:I2CBus?	Queries all settings related to the I ² C bus signal trigger.	7-121
:TRIGger:ENHanced:I2CBus:ADATa?	Queries all settings related to the address of the I ² C bus signal trigger.	7-121
:TRIGger:ENHanced:I2CBus:ADATa:BIT10address?	Queries all settings related to the 10-bit address of the I ² C bus signal trigger.	7-121
:TRIGger:ENHanced:I2CBus:ADATa:BIT10address:HEXA	Sets the 10-bit address of the I ² C bus signal trigger in hexadecimal notation.	7-122
:TRIGger:ENHanced:I2CBus:ADATa:BIT10address:PATtern	Sets the 10-bit address of the I ² C bus signal trigger in binary notation or queries the current setting.	7-122
:TRIGger:ENHanced:I2CBus:ADATa:BIT7Address?	Queries all settings related to the 7-bit address of the I ² C bus signal trigger.	7-122

7.1 List of Commands

Command	Function	Page
:TRIGger:ENHanced:I2Cbus:ADATa:BIT7Address:HEXA	Sets the 7-bit address of the I ² C bus signal trigger in hexadecimal notation.	7-122
:TRIGger:ENHanced:I2Cbus:ADATa:BIT7Address:PATtern	Sets the 7-bit address of the I ² C bus signal trigger in binary notation or queries the current setting.	7-122
:TRIGger:ENHanced:I2Cbus:ADATa:BIT7APsub?	Queries all settings related to the 7-bit + Sub address of the I ² C bus signal trigger.	7-122
:TRIGger:ENHanced:I2Cbus:ADATa:BIT7APsub:ADDRess?	Queries all settings related to the 7-bit address of the 7-bit + Sub address of the I ² C bus signal trigger.	7-122
:TRIGger:ENHanced:I2Cbus:ADATa:BIT7APsub:ADDRess:HEXA	Sets the 7-bit address of the 7-bit + Sub address of the I ² C bus signal trigger in hexadecimal notation.	7-122
:TRIGger:ENHanced:I2Cbus:ADATa:BIT7APsub:ADDRess:PATtern	Sets the 7-bit address of the 7-bit + Sub address of the I ² C bus signal trigger in binary notation or queries the current setting.	7-123
:TRIGger:ENHanced:I2Cbus:ADATa:BIT7APsub:SADDRess?	Queries all settings related to the Sub address of the 7-bit + Sub address of the I ² C bus signal trigger.	7-123
:TRIGger:ENHanced:I2Cbus:ADATa:BIT7APsub:SADDRess:HEXA	Sets the Sub address of the 7-bit + Sub address of the I ² C bus signal trigger in hexadecimal notation.	7-123
:TRIGger:ENHanced:I2Cbus:ADATa:BIT7APsub:SADDRess:PATtern	Sets the Sub address of the 7-bit + Sub address of the I ² C bus signal trigger in binary notation or queries the current setting.	7-123
:TRIGger:ENHanced:I2Cbus:ADATa:TYPE	Sets the address type of the I ² C bus signal trigger or queries the current setting.	7-123
:TRIGger:ENHanced:I2Cbus:CLOCK?	Queries all settings related to the clock channel of the I ² C bus signal trigger.	7-123
:TRIGger:ENHanced:I2Cbus:CLOCK:SOURce	Sets the clock channel of the I ² C bus signal trigger or queries the current setting.	7-123
:TRIGger:ENHanced:I2Cbus:DATA?	Queries all settings related to the data of the I ² C bus signal trigger.	7-123
:TRIGger:ENHanced:I2Cbus:DATA:BYTE	Sets the number of data bytes of the I ² C bus signal trigger or queries the current setting.	7-124
:TRIGger:ENHanced:I2Cbus:DATA:CONDition	Sets the determination method (match or not match) of the data of the I ² C bus signal trigger or queries the current setting.	7-124
:TRIGger:ENHanced:I2Cbus:DATA:DPOSITION	Sets the position for comparing the data pattern of the I ² C bus signal trigger or queries the current setting.	7-124
:TRIGger:ENHanced:I2Cbus:DATA:HEXA<x>	Sets the data of the I ² C bus signal trigger in hexadecimal notation.	7-124
:TRIGger:ENHanced:I2Cbus:DATA:MODE	Enables/Disables the data conditions of the I ² C bus signal trigger or queries the current setting.	7-124
:TRIGger:ENHanced:I2Cbus:DATA:PATtern<x>	Sets the data of the I ² C bus signal trigger in binary notation or queries the current setting.	7-124
:TRIGger:ENHanced:I2Cbus:DATA:PMODE	Sets the pattern comparison start position mode of the data of the I ² C bus signal trigger or queries the current setting.	7-124
:TRIGger:ENHanced:I2Cbus:DATA:SOURce	Sets the data trace of the I ² C bus signal trigger or queries the current setting.	7-124
:TRIGger:ENHanced:I2Cbus:GCALl?	Queries all settings related to the general call of the I ² C bus signal trigger.	7-125
:TRIGger:ENHanced:I2Cbus:GCALl:BIT7maddress?	Queries all settings related to the 7-bit master address of the general call of the I ² C bus signal trigger.	7-125
:TRIGger:ENHanced:I2Cbus:GCALl:BIT7maddress:HEXA	Sets the 7-bit master address of the general call of the I ² C bus signal trigger in hexadecimal notation.	7-125
:TRIGger:ENHanced:I2Cbus:GCALl:BIT7maddress:PATtern	Sets the 7-bit master address of the general call of the I ² C bus signal trigger in binary notation or queries the current setting.	7-125
:TRIGger:ENHanced:I2Cbus:GCALl:SBYTE (Second Byte)	Sets the second byte type of the general call of the I ² C bus signal trigger or queries the current setting.	7-125
:TRIGger:ENHanced:I2Cbus:MODE	Sets the trigger mode of the I ² C bus signal trigger or queries the current setting.	7-125
:TRIGger:ENHanced:I2Cbus:NAIGNore?	Queries all settings related to the NON ACK ignore mode of the I ² C bus signal trigger.	7-125
:TRIGger:ENHanced:I2Cbus:NAIGNore:HSMODE	Sets whether to ignore NON ACK in high speed mode of the I ² C bus signal trigger or queries the current setting.	7-125
:TRIGger:ENHanced:I2Cbus:NAIGNore:RACcess	Sets whether to ignore NON ACK in read access mode of the I ² C bus signal trigger or queries the current setting.	7-126
:TRIGger:ENHanced:I2Cbus:NAIGNore:SBYTE (Start Byte)	Sets whether to ignore NON ACK in the start byte of the I ² C bus signal trigger or queries the current setting.	7-126
:TRIGger:ENHanced:I2Cbus:SBHSmode?	Queries all settings related to the start byte and high speed mode of the I ² C bus signal trigger.	7-126
:TRIGger:ENHanced:I2Cbus:SBHSmode:TYPE	Sets the type of the start byte or high speed mode of the I ² C bus signal trigger or queries the current setting.	7-126
:TRIGger:ENHanced:LINbus?	Queries all settings related to the LIN bus trigger or queries the current setting.	7-126

7.1 List of Commands

Command	Function	Page
:TRIGger:ENHanced:LINBus:BRATe	Sets the LIN bus signal trigger bitrate (data transfer rate) or queries the current setting.	7-126
:TRIGger:ENHanced:LINBus:SOURce	Sets the LIN bus signal trigger source or queries the current setting.	7-126
:TRIGger:ENHanced:SPIBus?	Queries all settings related to the SPI bus signal trigger.	7-126
:TRIGger:ENHanced:SPIBus:BITorder	Sets the bit order of the SPI bus signal trigger or queries the current setting.	7-127
:TRIGger:ENHanced:SPIBus:CLOCK?	Queries all settings related to the clock channel of the SPI bus signal trigger.	7-127
:TRIGger:ENHanced:SPIBus:CLOCK:POLarity	Sets the polarity of the clock channel of the SPI bus signal trigger or queries the current setting.	7-127
:TRIGger:ENHanced:SPIBus:CLOCK:SOURce	Sets the clock channel of the SPI bus signal trigger or queries the current setting.	7-127
:TRIGger:ENHanced:SPIBus:CS?	Queries all settings related to the chip select channel of the SPI bus signal trigger.	7-127
:TRIGger:ENHanced:SPIBus:CS:ACTive	Sets the active level of the chip select channel of the SPI bus signal trigger or queries the current setting.	7-127
:TRIGger:ENHanced:SPIBus:CS:SOURce	Sets the chip select channel of the SPI bus signal trigger or queries the current setting.	7-127
:TRIGger:ENHanced:SPIBus:DATA<x>?	Queries all settings related to the data of the SPI bus signal trigger.	7-127
:TRIGger:ENHanced:SPIBus:DATA<x>:BYTE	Sets the number of bytes of the data of the SPI bus signal trigger or queries the current setting.	7-127
:TRIGger:ENHanced:SPIBus:DATA<x>:CONDition	Sets the determination method (match or not match) of the data of the SPI bus signal trigger or queries the current setting.	7-128
:TRIGger:ENHanced:SPIBus:DATA<x>:DPOSITion	Sets the pattern comparison start position of the data of the SPI bus signal trigger or queries the current setting.	7-128
:TRIGger:ENHanced:SPIBus:DATA<x>:HEXA<x>	Sets the data of the SPI bus signal trigger in hexadecimal notation.	7-128
:TRIGger:ENHanced:SPIBus:DATA<x>:PATtern<x>	Sets the data of the SPI bus signal trigger in binary notation or queries the current setting.	7-128
:TRIGger:ENHanced:SPIBus:DATA<x>:SOURce	Sets the source channel of the data of the SPI bus signal trigger or queries the current setting.	7-128
:TRIGger:ENHanced:SPIBus::MODE	Sets the wiring system of the SPI bus signal trigger (three-wire or four-wire) or queries the current setting.	7-128
:TRIGger:ENHanced:UART?	Queries all settings related to the UART bus signal trigger.	7-129
:TRIGger:ENHanced:UART:BRATe	Sets the UART bus signal trigger bit rate (data transfer rate) or queries the current setting.	7-129
:TRIGger:ENHanced:UART:FORMat	Sets the UART bus signal trigger format or queries the current setting.	7-129
:TRIGger:ENHanced:UART:POLarity	Sets the UART bus signal trigger polarity or queries the current setting.	7-129
:TRIGger:ENHanced:UART:SOURce	Sets the UART bus signal trigger source or queries the current setting.	7-129
:TRIGger:ENHanced:UART:SPOint	Sets the UART bus signal trigger sample point or queries the current setting.	7-129
:TRIGger:LOGic:I2Cbus?	Queries all settings related to the logic I ² C bus trigger.	7-129
:TRIGger:LOGic:I2Cbus:ADATa?	Queries all settings related to the address of the logic I ² C bus trigger.	7-130
:TRIGger:LOGic:I2Cbus:ADATa:BIT10address?	Queries all settings related to the 10-bit address of the logic I ² C bus trigger.	7-130
:TRIGger:LOGic:I2Cbus:ADATa:BIT10address:HEXA	Sets the 10-bit address of the logic I ² C bus trigger in hexadecimal notation.	7-130
:TRIGger:LOGic:I2Cbus:ADATa:BIT10address:PATtern	Sets the 10-bit address of the logic I ² C bus trigger in binary notation or queries the current setting.	7-130
:TRIGger:LOGic:I2Cbus:ADATa:BIT7Address?	Queries all settings related to the 7-bit address of the logic I ² C bus trigger.	7-130
:TRIGger:LOGic:I2Cbus:ADATa:BIT7Address:HEXA	Sets the 7-bit address of the logic I ² C bus trigger in hexadecimal notation.	7-130
:TRIGger:LOGic:I2Cbus:ADATa:BIT7Address:PATtern	Sets the 7-bit address of the logic I ² C bus trigger in binary notation or queries the current setting.	7-131
:TRIGger:LOGic:I2Cbus:ADATa:BIT7APsub?	Queries all settings related to the 7-bit + Sub address of the logic I ² C bus trigger.	7-131
:TRIGger:LOGic:I2Cbus:ADATa:BIT7APsub:ADDress?	Queries all settings related to the 7-bit address of the 7-bit + Sub address of the logic I ² C bus trigger.	7-131
:TRIGger:LOGic:I2Cbus:ADATa:BIT7APsub:ADDress:HEXA	Sets the 7-bit address of the 7-bit + Sub address of the logic I ² C bus trigger in hexadecimal notation.	7-131
:TRIGger:LOGic:I2Cbus:ADATa:BIT7APsub:ADDress:PATtern	Sets the 7-bit address of the 7-bit + Sub address of the logic I ² C bus trigger in binary notation or queries the current setting.	7-131
:TRIGger:LOGic:I2Cbus:ADATa:BIT7APsub:SADDress?	Queries all settings related to the Sub address of the 7-bit + Sub address of the logic I ² C bus trigger.	7-131

7.1 List of Commands

Command	Function	Page
:TRIGger:LOGic:I2Cbus:ADATa:BIT7Apsub:SADdress:HEXA	Sets the Sub address of the 7-bit + Sub address of the logic I ² C bus trigger in hexadecimal notation.	7-132
:TRIGger:LOGic:I2Cbus:ADATa:BIT7Apsub:SADdress:PATtern	Sets the Sub address of the 7-bit + Sub address of the logic I ² C bus trigger in binary notation or queries the current setting.	7-132
:TRIGger:LOGic:I2Cbus:ADATa:TYPE	Sets the address type of the logic I ² C bus trigger or queries the current setting.	7-132
:TRIGger:LOGic:I2Cbus:CLOCK?	Queries all settings related to the clock of the logic I ² C bus trigger.	7-132
:TRIGger:LOGic:I2Cbus:CLOCK:SOURce	Sets the clock trace of the logic I ² C bus trigger or queries the current setting.	7-132
:TRIGger:LOGic:I2Cbus:DATA?	Queries all settings related to the data of the logic I ² C bus trigger.	7-132
:TRIGger:LOGic:I2Cbus:DATA:BYTE	Sets the number of data bytes of the logic I ² C bus trigger or queries the current setting.	7-132
:TRIGger:LOGic:I2Cbus:DATA:CONDition	Sets the determination method (match or not match) of the data of the logic I ² C bus trigger or queries the current setting.	7-133
:TRIGger:LOGic:I2Cbus:DATA:DPOSITION	Sets the position for comparing the data pattern of the logic I ² C bus trigger or queries the current setting.	7-133
:TRIGger:LOGic:I2Cbus:DATA:HEXA<x>	Sets the data of the logic I ² C bus trigger in hexadecimal notation.	7-133
:TRIGger:LOGic:I2Cbus:DATA:MODE	Enables/disables the data conditions of the logic I ² C bus trigger or queries the current setting.	7-133
:TRIGger:LOGic:I2Cbus:DATA:PATtern<x>	Sets the data of the I ² C bus trigger in binary notation or queries the current setting.	7-133
:TRIGger:LOGic:I2Cbus:DATA:PMODE	Sets the pattern comparison start position mode of the data of the logic I ² C bus trigger or queries the current setting.	7-133
:TRIGger:LOGic:I2Cbus:DATA:SOURce	Sets the data trace of the logic I ² C bus trigger or queries the current setting.	7-133
:TRIGger:LOGic:I2Cbus:GCALl?	Queries all settings related to the general call of the logic I ² C bus trigger.	7-134
:TRIGger:LOGic:I2Cbus:GCALl:BIT7maddress?	Queries all settings related to the 7-bit master address of the general code of the logic I ² C bus trigger.	7-134
:TRIGger:LOGic:I2Cbus:GCALl:BIT7maddress:HEXA	Sets the 7-bit master address of the general call of the logic I ² C bus trigger in hexadecimal notation.	7-134
:TRIGger:LOGic:I2Cbus:GCALl:BIT7maddress:PATtern	Sets the 7-bit master address of the general call of the logic I ² C bus trigger in binary notation or queries the current setting.	7-134
:TRIGger:LOGic:I2Cbus:GCALl:SBYTE (Second Byte)	Sets the second byte type of the general call of the logic I ² C bus trigger or queries the current setting.	7-134
:TRIGger:LOGic:I2Cbus:MODE	Sets the trigger mode of the logic I ² C bus trigger or queries the current setting.	7-134
:TRIGger:LOGic:I2Cbus:NAIgnore?	Queries all settings related to the NON ACK ignore mode of the logic I ² C bus trigger.	7-135
:TRIGger:LOGic:I2Cbus:NAIgnore:HSMODE	Sets whether to ignore NON ACK in high speed mode of the logic I ² C bus trigger or queries the current setting.	7-135
:TRIGger:LOGic:I2Cbus:NAIgnore:RACcESS	Sets whether to ignore NON ACK in read access mode of the logic I ² C bus trigger or queries the current setting.	7-135
:TRIGger:LOGic:I2Cbus:NAIgnore:SBYTE (Start Byte)	Sets whether to ignore NON ACK in the start byte of the logic I ² C bus trigger or queries the current setting.	7-135
:TRIGger:LOGic:I2Cbus:SBHSMODE?	Queries all settings related to the start byte and high speed mode of the logic I ² C bus trigger.	7-135
:TRIGger:LOGic:I2Cbus:SBHSMODE:TYPE	Sets the type of start byte and high speed mode of the logic I ² C bus trigger or queries the current setting.	7-135
:TRIGger:LOGic:LINBus?	Queries all settings related to the logic LIN bus signal trigger.	7-135
:TRIGger:LOGic:LINBus:BRATe	Sets the bit rate (data transfer rate) of the logic LIN bus signal trigger or queries the current setting.	7-135
:TRIGger:LOGic:LINBus:SOURce	Sets the trigger source of the logic LIN bus signal trigger or queries the current setting.	7-136
:TRIGger:LOGic:SPIBus?	Queries all settings related to the logic SPI bus trigger.	7-136
:TRIGger:LOGic:SPIBus:BITorder	Sets the bit order of the logic SPI bus trigger or queries the current setting.	7-136
:TRIGger:LOGic:SPIBus:CLOCK?	Queries all settings related to the clock of the logic SPI bus trigger.	7-136
:TRIGger:LOGic:SPIBus:CLOCK:POLarity	Sets the polarity of the clock trace of the logic SPI bus trigger or queries the current setting.	7-136
:TRIGger:LOGic:SPIBus:CLOCK:SOURce	Sets the clock trace of the logic SPI bus trigger or queries the current setting.	7-136
:TRIGger:LOGic:SPIBus:CS?	Queries all settings related to the chip select of the logic SPI bus trigger.	7-136
:TRIGger:LOGic:SPIBus:CS:ACTive	Sets the active level of the chip select of the logic SPI bus trigger or queries the current setting.	7-137

7.1 List of Commands

Command	Function	Page
:TRIGger:LOGic:SPIBus:CS:SOURce	Sets the chip select trace of the logic SPI bus trigger or queries the current setting.	7-137
:TRIGger:LOGic:SPIBus:DATA<x>?	Queries all settings related to the data of the logic SPI bus trigger.	7-137
:TRIGger:LOGic:SPIBus:DATA<x>:BYTE	Sets the number of bytes of the data of the logic SPI bus trigger or queries the current setting.	7-137
:TRIGger:LOGic:SPIBus:DATA<x>:CONDition	Sets the determination method (match or not match) of the data of the logic SPI bus trigger or queries the current setting.	7-137
:TRIGger:LOGic:SPIBus:DATA<x>:DPOsition	Sets the pattern comparison start position of the data of the logic SPI bus trigger or queries the current setting.	7-137
:TRIGger:LOGic:SPIBus:DATA<x>:HEXA<x>	Sets the data of the logic SPI bus trigger in hexadecimal notation.	7-138
:TRIGger:LOGic:SPIBus:DATA<x>:PATtern<x>	Sets the data of the logic SPI bus trigger in binary notation or queries the current setting.	7-138
:TRIGger:LOGic:SPIBus:DATA<x>:SOURce	Sets the trace of the data of the logic SPI bus trigger or queries the current setting.	7-138
:TRIGger:LOGic:SPIBus:MODE	Sets the wiring system of the logic SPI bus trigger (three-wire or four-wire) or queries the current setting.	7-138
:TRIGger:LOGic:UART?	Queries all settings related to the logic UART bus signal trigger.	7-138
:TRIGger:LOGic:UART:BRATe	Sets the logic UART bus signal trigger bit rate (data transfer rate) or queries the current setting.	7-138
:TRIGger:LOGic:UART:FORMat	Sets the logic UART bus signal trigger format or queries the current setting.	7-138
:TRIGger:LOGic:UART:POLarity	Sets the logic UART bus signal trigger polarity or queries the current setting.	7-139
:TRIGger:LOGic:UART:SOURce	Sets the logic UART bus signal trigger source or queries the current setting.	7-139
:TRIGger:LOGic:UART:SPOint	Sets the logic UART bus signal trigger sample point or queries the current setting.	7-139
:TRIGger:SOURce:CHANnel<x>:LEVel	Sets the trigger level of the channel or queries the current setting.	7-139
:TRIGger:SOURce:CHANnel<x>:STATe	Sets the condition to be satisfied of the channel or queries the current setting.	7-139
:TRIGger:TYPE	Sets the trigger type or queries the current setting.	7-139

7.2 ANALysis Group

:ANALysis:LSBus<x>?

Function Queries all settings related to the logic serial bus signal feature.

Syntax :ANALysis:LSBus<x>?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1? -> :ANALYSIS:LSBUS1:
ANALYZE:I2CBUS:CLOCK A0;DTRACE A0;;
ANALYSIS:LSBUS1:ANALYZE:LINBUS:
BRATE 19200;REVISION LIN1_3;TRACE A0;;
ANALYSIS:LSBUS1:ANALYZE:LIST:DISPLAY 1;
MODE DETAIL;SCROLL HORIZONTAL;;
ANALYSIS:LSBUS1:ANALYZE:MODE CANBUS;
RPOINT MANUAL,1.00000E+00;SPIBUS:
CLOCK:POLARITY FALL;SOURCE A0;;
ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS:
ACTIVE HIGH;TRACE A0;;:ANALYSIS:LSBUS1:
ANALYZE:SPIBUS:DATA1:ACTIVE HIGH;
TRACE A0;;:ANALYSIS:LSBUS1:ANALYZE:
SPIBUS:DATA2:ACTIVE HIGH;TRACE A2;;
ANALYSIS:LSBUS1:ANALYZE:SPIBUSSETUP:
BITORDER LSBFIRST;MODE WIRE3;;:ANALYSIS:
LSBUS1:ZLINKAGE OFF

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]?

Function Queries all settings related to the logic serial bus signal.

Syntax :ANALysis:LSBus<x>[:ANALyze]?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE? -> :ANALYSIS:
LSBUS1:ANALYZE:I2CBUS:CLOCK A0;
DTRACE A0;;:ANALYSIS:LSBUS1:ANALYZE:
LINBUS:BRATE 19200;REVISION LIN1_3;
TRACE A0;;:ANALYSIS:LSBUS1:ANALYZE:LIST:
DISPLAY 1;MODE DETAIL;
SCROLLHORIZONTAL;;:ANALYSIS:LSBUS1:
ANALYZE:MODE CANBUS;RPOINT MANUAL,
1.00000E+00;SPIBUS:CLOCK:POLARITY FALL;
SOURCE A0;;:ANALYSIS:LSBUS1:ANALYZE:
SPIBUS:CS:ACTIVE HIGH;TRACE A0;;
ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA1:
ACTIVE HIGH;TRACE A0;;:ANALYSIS:LSBUS1:
ANALYZE:SPIBUS:DATA2:ACTIVE HIGH;
TRACE A2;;:ANALYSIS:LSBUS1:ANALYZE:
SPIBUSSETUP:BITORDER LSBFIRST;MODE
WIRE3

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:I2CBus?

Function Queries all settings related to the logic I²C bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:I2CBus?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:I2CBUS?
-> :ANALYSIS:LSBUS1:ANALYZE:I2CBUS:
CLOCK A0;DTRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:I2CBus:CLOCK

Function Sets the clock channel of the logic I²C bus signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:I2CBus:
CLOCK {A<y>|B<y>|C<y>|D<y>}
:ANALysis:LSBus<x>[:ANALyze]:I2CBus:
CLOCK?
<x> = 1 or 2
<y> = 0 to 7

Example :ANALYSIS:LSBUS1:ANALYZE:I2CBUS:
CLOCK A0
:ANALYSIS:LSBUS1:ANALYZE:I2CBUS:CLOCK?
-> :ANALYSIS:LSBUS1:ANALYZE:I2CBUS:
CLOCK A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

{A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:ANALysis:LSBus<x>[:ANALyze]:I2CBus:DTRace

Function Sets the data channel of the logic I²C bus signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:I2CBus:
DTRace {A<y>|B<y>|C<y>|D<y>}
:ANALysis:LSBus<x>[:ANALyze]:I2CBus:
DTRace?
<x> = 1 or 2
<y> = 0 to 7

Example :ANALYSIS:LSBUS1:ANALYZE:I2CBUS:
DTRACE A0
:ANALYSIS:LSBUS1:ANALYZE:I2CBUS:
DTRACE? -> :ANALYSIS:LSBUS1:ANALYZE:
I2CBUS:DTRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

{A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:ANALysis:LSBus<x>[:ANALyze]:LINBus?

Function Queries all settings related to the logic LIN bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS?
-> :ANALYSIS:LSBUS1:ANALYZE:LINBUS:
BRATE 19200;REVISION LIN1_3;
SPOINT 18.8E+00;TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:LINBus:**BRATe**

Function Sets the bit rate (data transfer rate) of the logic LIN bus signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:
BRATe {<NRf>|USER,<NRf>}
:ANALysis:LSBus<x>[:ANALyze]:LINBus:
BRATe?
<x> = 1 or 2

<NRf> = 1200, 2400, 4800, 9600, or 19200
<NRf> of USER = See section 4.4.

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:
BRATE 19200
:ANALYSIS:LSBUS1:ANALYZE:LINBUS:
BRATE? -> :ANALYSIS:LSBUS1:ANALYZE:
LINBUS:BRATE 19200

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:LINBus:**FJUMp:BRERak**

Function Executes a field jump to the Break Field in the results of the logic LIN bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:
FJUMp:BRERak
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:FJUMP:
BREAK

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:LINBus:**FJUMp:CSUM**

Function Executes a field jump to the Checksum Field in the results of the logic LIN bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:
FJUMp:CSUM
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:FJUMP:
CSUM

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:LINBus:**FJUMp:DATA**

Function Executes a field jump to the Data Field in the results of the logic LIN bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:
FJUMp:DATA
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:FJUMP:
DATA

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:LINBus:**FJUMp:IDENTifier**

Function Executes a field jump to the Identifier Field in the results of the logic LIN bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:
FJUMp:IDENTifier
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:FJUMP:
IDENTIFIER

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:LINBus:**FJUMp:SYNCh**

Function Executes a field jump to the Synch Field in the results of the logic LIN bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:
FJUMp:SYNCh
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:FJUMP:
SYNCh

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:LINBus:**REVision**

Function Sets the revision (1.3, 2.0, or Both) of the logic LIN bus signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:
REVision {BOTH|LIN1_3|LIN2_0}
:ANALysis:LSBus<x>[:ANALyze]:LINBus:
REVision?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:
REVISION LIN1_3
:ANALYSIS:LSBUS1:ANALYZE:LINBUS:
REVISION? -> :ANALYSIS:LSBUS1:ANALYZE:
LINBUS:REVISION LIN1_3

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.2 ANALysis Group

:ANALysis:LSBus<x>[:ANALyze]:LINBus:SPOint

Function Sets the logic LIN bus signal analysis sample point or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:
SPOint {<NRF>}
:ANALysis:LSBus<x>[:ANALyze]:LINBus:
SPOint?
<x> = 1 or 2
<NRF> = 18.8 to 90.6(%)

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:
SPOINT 18.8
:ANALYSIS:LSBUS1:ANALYZE:LINBUS:SPOINT?
-> :ANALYSIS:LSBUS1:ANALYZE:LINBUS:
SPOINT 18.8E+00

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:LINBus:TRACe

Function Sets the trace of the logic LIN bus signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LINBus:
TRACe {A<y>|B<y>|C<y>|D<y>}
:ANALysis:LSBus<x>[:ANALyze]:LINBus:
TRACe?
<x> = 1 or 2
<y> = 0 to 7

Example :ANALYSIS:LSBUS1:ANALYZE:LINBUS:
TRACE A0
:ANALYSIS:LSBUS1:ANALYZE:LINBUS:TRACE?
-> :ANALYSIS:LSBUS1:ANALYZE:LINBUS:
TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.
{A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:ANALysis:LSBus<x>[:ANALyze]:LIST?

Function Queries all settings related to the analysis result list of the logic serial bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LIST?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LIST?
-> :ANALYSIS:LSBUS1:ANALYZE:LIST:
DISPLAY 1;MODE DETAIL;SCROLL HORIZONTAL

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:LIST:DISPlay

Function Turns ON/OFF the analysis result list of the logic serial bus signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LIST:
DISPlay {<Boolean>}
:ANALysis:LSBus<x>[:ANALyze]:LIST:
DISPlay?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LIST:
DISPLAY ON
:ANALYSIS:LSBUS1:ANALYZE:LIST:
DISPLAY? -> :ANALYSIS:LSBUS1:ANALYZE:
LIST:DISPLAY 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:LIST:ITEM?

Function Queries all items displayed on the analysis result list of the logic serial bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LIST:ITEM?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LIST:ITEM?
-> :ANALYSIS:LSBUS1:ANALYZE:LIST:
ITEM " No. , S/P, Hex, Form, R/W, ACK, "

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:LIST:MODE

Function Sets the mode of the analysis result list of the logic serial bus signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:LIST:
MODE {DETAil|SIMPlE}
:ANALysis:LSBus<x>[:ANALyze]:LIST:MODE?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:LIST:
MODE DETAIL
:ANALYSIS:LSBUS1:ANALYZE:LIST:MODE?
-> :ANALYSIS:LSBUS1:ANALYZE:LIST:
MODE DETAIL

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALYSIS:LSBus<x>[:ANALYZE]:LIST:SCROLL

Function Sets the scroll method of the analysis result list of the logic serial bus signal analysis or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:LIST:SCROLL {HORIZONTAL|VERTICAL}
:ANALYSIS:LSBus<x>[:ANALYZE]:LIST:SCROLL?

Example :ANALYSIS:LSBUS1:ANALYZE:LIST:SCROLL HORIZONTAL
:ANALYSIS:LSBUS1:ANALYZE:LIST:SCROLL?
-> :ANALYSIS:LSBUS1:ANALYZE:LIST:SCROLL HORIZONTAL

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALYSIS:LSBus<x>[:ANALYZE]:LIST:VALUE?

Function Queries the automated measured value of the specified analysis number in the analysis result list of the logic serial bus signal analysis.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:LIST:VALUE? {<NRf>|MAXIMUM|MINIMUM}
<x> = 1 or 2

<NRf> = -40000 to 40000
(<NRf> = -2999 to 2999 for :ANALYSIS:SBUS<x>[:ANALYZE]:MODE CANBUS.)
Example :ANALYSIS:LSBUS1:ANALYZE:LIST:VALUE? 1
-> :ANALYSIS:LSBUS1:ANALYZE:LIST:VALUE " 1, P, 00, A, , 0,"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.
Set the data to MAXIMUM or MINIMUM to specify the maximum list display number or the minimum list display number.

:ANALYSIS:LSBus<x>[:ANALYZE]:MODE

Function Sets the logic serial bus signal analysis mode or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:MODE {I2CBUS|LINBUS|SPIBUS|UART}
:ANALYSIS:LSBus<x>[:ANALYZE]:MODE?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:MODE I2CBUS
:ANALYSIS:LSBUS1:ANALYZE:MODE?
-> :ANALYSIS:LSBUS1:ANALYZE:MODE I2CBUS

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALYSIS:LSBus<x>[:ANALYZE]:RPOINT

Function Sets the analysis reference point of the logic serial bus signal analysis or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:RPOINT {<NRf>,MANUAL|TRIGGER}
:ANALYSIS:LSBus<x>[:ANALYZE]:RPOINT?
<x> = 1 or 2
<NRf> = -5 to 5(div)

Example :ANALYSIS:LSBUS1:ANALYZE:RPOINT MANUAL,1
:ANALYSIS:LSBUS1:ANALYZE:RPOINT?
-> :ANALYSIS:LSBUS1:ANALYZE:RPOINT MANUAL, 1.00000E+00

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS?

Function Queries all settings related to the logic SPI bus signal analysis.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS?
-> :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CLOCK:POLARITY FALL;SOURCE A0;:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS:ACTIVE HIGH;TRACE A0;:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA1:ACTIVE HIGH;TRACE A0;:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA2:ACTIVE HIGH;TRACE A2;:ANALYSIS:LSBUS1:ANALYZE:SPIBUSSETUP:BITORDER LSBFIRST;EMSBLB 1,7;FSIZE 4;ITIME 10.0000E-09;MODE WIRE3

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CLOCK?

Function Queries all settings related to the clock signal channel of the logic SPI bus signal analysis.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CLOCK?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CLOCK?
-> :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CLOCK:POLARITY FALL;SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.2 ANALYSIS Group

:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CLOCK:POLARITY

Function Sets the polarity of the clock signal channel of the logic SPI bus signal analysis or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CLOCK:POLARITY {FALL|RISE}
:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CLOCK:POLARITY?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CLOCK:POLARITY FALL
:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CLOCK:POLARITY? -> :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CLOCK:POLARITY FALL

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CLOCK:SOURCE

Function Sets the clock signal channel of the logic SPI bus signal analysis or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CLOCK:SOURCE {A<y>|B<y>|C<y>|D<y>}
:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CLOCK:SOURCE?
<x> = 1 or 2
<y> = 0 to 7

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CLOCK:SOURCE A0
:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CLOCK:SOURCE? -> :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CLOCK:SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CS?

Function Queries all settings related to the chip select signal channel of the logic SPI bus signal analysis.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CS?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS?
-> :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS:ACTIVE HIGH;TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CS:ACTIVE

Function Sets the active level of the chip select signal channel of the logic SPI bus signal analysis or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CS:ACTIVE {HIGH|LOW}
:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CS:ACTIVE?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS:ACTIVE HIGH
:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS:ACTIVE? -> :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS:ACTIVE HIGH

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CS:TRACE

Function Sets the chip select signal channel of the logic SPI bus signal analysis or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CS:TRACE {A<y>|B<y>|C<y>|D<y>|NONE}
:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:CS:TRACE?
<x> = 1 or 2
<y> = 0 to 7

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS:TRACE A0
:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS:TRACE? -> :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:CS:TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>|NONE} can be applied to the DL9705L and DL9710L. {A<y>|C<y>|NONE} can be applied to the DL9505L and DL9510L.

:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:DATA<x>?

Function Queries all settings related to each data of the logic SPI bus signal analysis.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:DATA<x>?
<x> of LSBus<x> = 1 or 2
<x> of DATA<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA1?
-> :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA1:ACTIVE HIGH;TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:DATA<x>:ACTIVE

Function Sets the active level of each data of the logic SPI bus signal analysis or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:DATA<x>:ACTIVE {HIGH|LOW}
:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:DATA<x>:ACTIVE?
<x> of LSBus<x> = 1 or 2
<x> of DATA<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA1:ACTIVE HIGH
:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA1:ACTIVE? -> :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA1:ACTIVE HIGH

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:DATA<x>:TRACE

Function Sets the data channel of the logic SPI bus signal analysis or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:DATA<x>:TRACE {A<y>|B<y>|C<y>|D<y>}
:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS:DATA<x>:TRACE?
<x> of LSBus<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<y> = 0 to 7

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA1:TRACE A0
:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA1:TRACE? -> :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:DATA1:TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS[:SETUP]?

Function Queries all settings related to the setup of the logic SPI bus signal analysis.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS[:SETUP]?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP? -> :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:BITORDER LSBFIRST;EMSBLB 1,7;FSIZE 4;ITIME 10.0000E-09;MODE WIRE3

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS[:SETUP]:BITORDER

Function Sets the bit order of the logic SPI bus signal analysis or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS[:SETUP]:BITORDER {LSBFirst|MSBFirst}
:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS[:SETUP]:BITORDER?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:BITORDER LSBFIRST
:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:BITORDER? -> :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:BITORDER LSBFIRST

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS[:SETUP]:EMSBLB

Function Sets the enabled range of the field used for logic SPI bus signal analysis or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS[:SETUP]:EMSBLB {<Nrf>,<Nrf>}
:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS[:SETUP]:EMSBLB?
<x> = 1 or 2
<Nrf> = See section 4.5.

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:EMSBLB 1,7
:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:EMSBLB? -> :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:EMSBLB 1,7

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS[:SETUP]:FSIZE

Function Sets the field size used for logic SPI bus signal analysis or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS[:SETUP]:FSIZE {<Nrf>}
:ANALYSIS:LSBus<x>[:ANALYZE]:SPIBUS[:SETUP]:FSIZE?
<x> = 1 or 2
<Nrf> = 4 to 32

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:FSIZE 4
:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:FSIZE? -> :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:FSIZE 4

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.2 ANALysis Group

:ANALysis:LSBus<x>[:ANALyze]:

SPIBUS[:SETup]:ITIME

Function Sets the idle time used in logic SPI bus signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:
SPIBUS[:SETup]:ITIME {<Time>|DONTcare}
:ANALysis:LSBus<x>[:ANALyze]:SPIBUS[:
SETup]:ITIME?
<x> = 1 or 2
<Time> = 10ns to 1ms in 10-ns steps

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:
ITIME 10NS
:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:
ITIME? -> :ANALYSIS:LSBUS1:ANALYZE:
SPIBUS:SETUP:ITIME 10.0000E-09

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:

SPIBUS[:SETup]:MODE

Function Sets the wiring system of the logic SPI bus signal analysis (three-wire or four-wire) or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:
SPIBUS[:SETup]:MODE {WIRE3|WIRE4}
:ANALysis:LSBus<x>[:ANALyze]:
SPIBUS[:SETup]:MODE?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:
MODE WIRE3
:ANALYSIS:LSBUS1:ANALYZE:SPIBUS:SETUP:
MODE? -> :ANALYSIS:LSBUS1:ANALYZE:
SPIBUS:SETUP:MODE WIRE3

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:UART?

Function Queries all settings related to the logic UART bus signal analysis.

Syntax :ANALysis:LSBus<x>[:ANALyze]:UART?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:UART?
-> :ANALYSIS:LSBUS1:ANALYZE:UART:
BITORDER LSBFIRST;BRATE 19200;
BSPACE 10.00E-03;DFORMAT HEXA;
FORMAT BIT7PARITY;GROUPING 1;
PMODE EVEN;POLARITY NEGATIVE;
SPOINT 18.8E+00;TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:UART:

BITorder

Function Sets the logic UART bus signal analysis bit order or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:UART:
BITorder {LSBFirst|MSBFirst}
:ANALysis:LSBus<x>[:ANALyze]:UART:
BITorder?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:UART:
BITORDER LSBFIRST
:ANALYSIS:LSBUS1:ANALYZE:UART:BITORDER?
-> :ANALYSIS:LSBUS1:ANALYZE:UART:
BITORDER LSBFIRST

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:UART:

BRATE

Function Sets the logic UART bus signal analysis bit rate (data transfer rate) or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:UART:BRATE
{<Nrf>|USER,<Nrf>}
:ANALysis:LSBus<x>[:ANALyze]:UART:
BRATE?
<x> = 1 or 2

<Nrf> = 1200, 2400, 4800, 9600, 19200, 38400, 57600, or 115200
<Nrf> of USER = See section 4.6.

Example :ANALYSIS:LSBUS1:ANALYZE:UART:BRATE
19200
:ANALYSIS:LSBUS1:ANALYZE:UART:BRATE?
-> :ANALYSIS:LSBUS1:ANALYZE:UART:BRATE
19200

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:LSBus<x>[:ANALyze]:UART:

BSPACE

Function Sets the byte space for grouping data that is used in logic UART signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:UART:
BSPACE {<Time>}
:ANALysis:LSBus<x>[:ANALyze]:UART:
BSPACE?
<x> = 1 or 2
<Time> = See section 4.6.

Example :ANALYSIS:LSBUS1:ANALYZE:UART:
BSPACE 10ms
:ANALYSIS:LSBUS1:ANALYZE:UART:BSPACE?
-> :ANALYSIS:LSBUS1:ANALYZE:UART:BSPACE
10.00E-03

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:ANALYSIS:LSBus<x>[:ANALYZE]:UART:
DFORMAT**

Function Sets the decoded character display format for logic UART signal analysis or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:UART:
DFORMAT {ASCIi|HEXA}
:ANALYSIS:LSBus<x>[:ANALYZE]:UART:
DFORMAT?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:UART:
DFORMAT ASCII
:ANALYSIS:LSBUS1:ANALYZE:UART:DFORMAT?
-> :ANALYSIS:LSBUS1:ANALYZE:UART:
DFORMAT ASCII

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:ANALYSIS:LSBus<x>[:ANALYZE]:UART:
FORMAT**

Function Sets the logic UART bus signal analysis data format or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:UART:
FORMAT {BIT7parity|BIT8Noparity|
BIT8Parity}
:ANALYSIS:LSBus<x>[:ANALYZE]:UART:
FORMAT?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:UART:
FORMAT BIT7PARITY
:ANALYSIS:LSBUS1:ANALYZE:UART:FORMAT?
-> :ANALYSIS:LSBUS1:ANALYZE:UART:
FORMAT BIT7PARITY

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:ANALYSIS:LSBus<x>[:ANALYZE]:UART:
GROUPING**

Function Turns on or off the grouping feature for logic UART signal analysis or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:UART:
GROUPING {<Boolean>}
:ANALYSIS:LSBus<x>[:ANALYZE]:UART:
GROUPING?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:UART:GROUPING
ON
:ANALYSIS:LSBUS1:ANALYZE:UART:GROUPING?
-> :ANALYSIS:LSBUS1:ANALYZE:UART:
GROUPING 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:ANALYSIS:LSBus<x>[:ANALYZE]:UART:
PMODE**

Function Sets the logic UART bus signal analysis parity mode or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:UART:
PMODE {EVEN|ODD}
:ANALYSIS:LSBus<x>[:ANALYZE]:UART:
PMODE?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:UART:
PMODE EVEN
:ANALYSIS:LSBUS1:ANALYZE:UART:PMODE?
-> :ANALYSIS:LSBUS1:ANALYZE:UART:
PMODE EVEN

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:ANALYSIS:LSBus<x>[:ANALYZE]:UART:
POLARITY**

Function Sets the logic UART bus signal analysis parity or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:UART:
POLARITY {NEGative|POSitive}
:ANALYSIS:LSBus<x>[:ANALYZE]:UART:
POLARITY?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ANALYZE:UART:
POLARITY NEGATIVE
:ANALYSIS:LSBUS1:ANALYZE:UART:POLARITY?
-> :ANALYSIS:LSBUS1:ANALYZE:UART:
POLARITY NEGATIVE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:ANALYSIS:LSBus<x>[:ANALYZE]:UART:
SPOINT**

Function Sets the logic UART bus signal analysis sample point or queries the current setting.

Syntax :ANALYSIS:LSBus<x>[:ANALYZE]:UART:
SPOINT {<NRf>}
:ANALYSIS:LSBus<x>[:ANALYZE]:UART:
SPOINT?
<x> = 1 or 2
<NRf> = 18.8 to 90.6(%)

Example :ANALYSIS:LSBUS1:ANALYZE:UART:
SPOINT 18.8
:ANALYSIS:LSBUS1:ANALYZE:UART:SPOINT?
-> :ANALYSIS:LSBUS1:ANALYZE:UART:
SPOINT 18.8E+00

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.2 ANALysis Group

:ANALysis:LSBus<x>[:ANALyze]:UART:TRACe

Function Sets the logic UART bus signal analysis trace or queries the current setting.

Syntax :ANALysis:LSBus<x>[:ANALyze]:UART:TRACe {A<y>|B<y>|C<y>|D<y>}
:ANALysis:LSBus<x>[:ANALyze]:UART:TRACe?
<x> = 1 or 2
<y> = 0 to 7

Example :ANALYSIS:LSBUS1:ANALYZE:UART:TRACE A0
:ANALYSIS:LSBUS1:ANALYZE:UART:TRACE?
-> :ANALYSIS:LSBUS1:ANALYZE:UART:TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:ANALysis:LSBus<x>:ZLINKage

Function Sets the zoom link of the logic serial bus signal analysis or queries the current setting.

Syntax :ANALysis:LSBus<x>:ZLINKage {OFF|Z1|Z2}
:ANALysis:LSBus<x>:ZLINKage?
<x> = 1 or 2

Example :ANALYSIS:LSBUS1:ZLINKAGE OFF
:ANALYSIS:LSBUS1:ZLINKAGE?
-> :ANALYSIS:LSBUS1:ZLINKAGE OFF

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:ANALysis:SBUS<x>?

Function Queries all settings related to the serial bus signal analysis feature.

Syntax :ANALysis:SBUS<x>?
<x> = 1 or 2

Example ANALYSIS:SBUS1? -> :ANALYSIS:SBUS1:
ANALYZE:CANBUS:BRATE 1000000;
RECESSIVE HIGH;SPOINT 62.5E+00;
TRACE 1;:ANALYSIS:SBUS1:ANALYZE:
DECODE 1;I2CBUS:CLOCK 1;DTRACE 1;:
ANALYSIS:SBUS1:ANALYZE:LINBUS:
BRATE 19200;REVISION LIN1_3;TRACE 1;:
ANALYSIS:SBUS1:ANALYZE:LIST:DISPLAY 1;
MODE DETAIL;SCROLL HORIZONTAL;:
ANALYSIS:SBUS1:ANALYZE:MODE CANBUS;
MPOSITION 0.00000E+00;RPOINT TRIGGER;
SPIBUS:CLOCK:POLARITY FALL;SOURCE 1;:
ANALYSIS:SBUS1:ANALYZE:SPIBUS:CS:
ACTIVE HIGH;TRACE 1;:ANALYSIS:SBUS1:
ANALYZE:SPIBUS:DATA1:ACTIVE HIGH;
TRACE 1;:ANALYSIS:SBUS1:ANALYZE:SPIBUS:
DATA2:ACTIVE HIGH;TRACE 1;:ANALYSIS:
SBUS1:ANALYZE:SPIBUS:SETUP:
BITORDER LSBFIRST;MODE WIRE3;:ANALYSIS:
SBUS1:ANALYZE:TRACE1:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00;:
ANALYSIS:SBUS1:ANALYZE:TRACE2:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00;:
ANALYSIS:SBUS1:ANALYZE:TRACE3:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00;:
ANALYSIS:SBUS1:ANALYZE:TRACE4:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00;:
ANALYSIS:SBUS1:ANALYZE:TRACE5:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00;:
ANALYSIS:SBUS1:ANALYZE:TRACE6:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00;:
ANALYSIS:SBUS1:ANALYZE:TRACE7:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00;:
ANALYSIS:SBUS1:ANALYZE:TRACE8:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00;:
ANALYSIS:SBUS1:ZLINKAGE OFF

:ANALYSIS:SBUS<x>:ANALYZE?

Function Queries all settings related to the serial bus signal analysis.

Syntax :ANALYSIS:SBUS<x>:ANALYZE?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE? -> :ANALYSIS:
SBUS1:ANALYZE:CANBUS:BRATE 1000000;
RECESSIVE HIGH;SPOINT 62.5E+00;
TRACE 1;:ANALYSIS:SBUS1:ANALYZE:
DECODE 1;I2CBUS:CLOCK 1;DTRACE 1;:
ANALYSIS:SBUS1:ANALYZE:LINBUS:
BRATE 19200;REVISION LIN1_3;TRACE 1;:
ANALYSIS:SBUS1:ANALYZE:LIST:DISPLAY 1;
MODE DETAIL;SCROLL HORIZONTAL;:
ANALYSIS:SBUS1:ANALYZE:MODE CANBUS;
MPOSITION 0.00000E+00;RPOINT TRIGGER;
SPIBUS:CLOCK:POLARITY FALL;SOURCE 1;:
ANALYSIS:SBUS1:ANALYZE:SPIBUS:CS:
ACTIVE HIGH;TRACE 1;:ANALYSIS:SBUS1:
ANALYZE:SPIBUS:DATA1:ACTIVE HIGH;
TRACE 1;:ANALYSIS:SBUS1:ANALYZE:SPIBUS:
DATA2:ACTIVE HIGH;TRACE 1;:ANALYSIS:
SBUS1:ANALYZE:SPIBUS:SETUP:
BITORDER LSBFIRST;MODE WIRE3;:ANALYSIS:
SBUS1:ANALYZE:TRACE1:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00;:
ANALYSIS:SBUS1:ANALYZE:TRACE2:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00;:
ANALYSIS:SBUS1:ANALYZE:TRACE3:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00;:
ANALYSIS:SBUS1:ANALYZE:TRACE4:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00;:
ANALYSIS:SBUS1:ANALYZE:TRACE5:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00;:
ANALYSIS:SBUS1:ANALYZE:TRACE6:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00;:
ANALYSIS:SBUS1:ANALYZE:TRACE7:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00;:
ANALYSIS:SBUS1:ANALYZE:TRACE8:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00

:ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS?

Function Queries all settings related to the CAN bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS?
-> :ANALYSIS:SBUS1:ANALYZE:CANBUS:
BRATE 1000000;RECESSIVE HIGH;
SPOINT 62.5E+00;TRACE 1

:ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:

BRATE

Function Sets the bit rate (data transfer rate) of the CAN bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:
BRATE {<NRf>|USER,<NRf>}
:ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:
BRATE?
<x> = 1 or 2
<NRf> = 33300, 83300, 125000, 250000, 500000,
1000000
<NRf> of USER = See section 4.3.

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:
BRATE 83300
:ANALYSIS:SBUS1:ANALYZE:CANBUS:BRATE?
-> :ANALYSIS:SBUS1:ANALYZE:CANBUS:
BRATE 83300

:ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:**FJUMP:ACK**

Function Executes a field jump to the ACK Field in the results of the CAN bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:
FJUMP:ACK
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:FJUMP:
ACK

:ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:**FJUMP:CONTROL**

Function Executes a field jump to the Control Field in the results of the CAN bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:
FJUMP:CONTROL
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:FJUMP:
CONTROL

:ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:**FJUMP:CRC**

Function Executes a field jump to the CRC Field in the results of the CAN bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:
FJUMP:CRC
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:FJUMP:
CRC

7.2 ANALYSIS Group

:ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:FJUMP:DATA

Function Executes a field jump to the Data Field in the results of the CAN bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:
FJUMP:DATA
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:FJUMP:
DATA

:ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:FJUMP:IDENTIFIER

Function Executes a field jump to the Identifier Field in the results of the CAN bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:
FJUMP:IDENTIFIER
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:FJUMP:
IDENTIFIER

:ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:FJUMP:SOF

Function Executes a field jump to the SOF Field in the results of the CAN bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:
FJUMP:SOF
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:FJUMP:
SOF

:ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:RECESSIVE

Function Sets the recessive level (bus level) of the CAN bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:
RECESSIVE {HIGH|LOW}
:ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:
RECESSIVE?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:
RECESSIVE HIGH
:ANALYSIS:SBUS1:ANALYZE:CANBUS:
RECESSIVE?
-> :ANALYSIS:SBUS1:ANALYZE:CANBUS:
RECESSIVE HIGH

:ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:SPOINT

Function Sets the sample point of the CAN bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:
SPOINT {<Nrf>}
:ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:
SPOINT?
<x> = 1 or 2
<Nrf> = 18.8 to 90.6(%)

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:
SPOINT 18.8
:ANALYSIS:SBUS1:ANALYZE:CANBUS:SPOINT?
-> :ANALYSIS:SBUS1:ANALYZE:CANBUS:
SPOINT 18.8E+00

:ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:TRACE

Function Sets the trace of the CAN bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:
TRACE {<Nrf>}
:ANALYSIS:SBUS<x>[:ANALYZE]:CANBUS:
TRACE?
<x> = 1 or 2
<Nrf> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:CANBUS:TRACE 1
:ANALYSIS:SBUS1:ANALYZE:CANBUS:TRACE?
-> :ANALYSIS:SBUS1:ANALYZE:CANBUS:
TRACE 1

:ANALYSIS:SBUS<x>[:ANALYZE]:DECODE

Function Turns the serial bus signal analysis decoding display ON/OFF or queries the current status.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:
DECODE {<Boolean>}
:ANALYSIS:SBUS<x>[:ANALYZE]:DECODE?
<x>=1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:DECODE ON
:ANALYSIS:SBUS1:ANALYZE:DECODE?
-> :ANALYSIS:SBUS1:ANALYZE:DECODE 1

:ANALYSIS:SBUS<x>[:ANALYZE]:I2CBUS?

Function Queries all settings related to the I²C bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:I2CBUS?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:I2CBUS?
-> :ANALYSIS:SBUS1:ANALYZE:I2CBUS:
CLOCK 1;DTRACE 1

:ANALYSIS:SBUS<x>[:ANALYZE]:I2CBUS:CLOCK

Function Sets the clock channel of the I²C bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:I2CBUS:
CLOCK {<NRF>}
:ANALYSIS:SBUS<x>[:ANALYZE]:I2CBUS:
CLOCK?
<x> = 1 or 2
<NRF> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:I2CBUS:CLOCK 1
:ANALYSIS:SBUS1:ANALYZE:I2CBUS:CLOCK?
-> :ANALYSIS:SBUS1:ANALYZE:I2CBUS:
CLOCK 1

:ANALYSIS:SBUS<x>[:ANALYZE]:I2CBUS:DTRACE

Function Sets the data channel of the I²C bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:I2CBUS:
DTRACE {<NRF>}
:ANALYSIS:SBUS<x>[:ANALYZE]:I2CBUS:
DTRACE?
<x> = 1 or 2
<NRF> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:I2CBUS:DTRACE 1
:ANALYSIS:SBUS1:ANALYZE:I2CBUS:DTRACE?
-> :ANALYSIS:SBUS1:ANALYZE:I2CBUS:
DTRACE 1

:ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS?

Function Queries all settings related to the LIN bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS?
<x>=1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS?
-> :ANALYSIS:SBUS1:ANALYZE:LINBUS:
BRATE 19200;REVISION LIN1_3;
SPOINT 18.8E+00;TRACE 1

:ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:BRATE

Function Sets the LIN bus signal analysis bitrate (data transfer rate) or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:
BRATE {<NRF>|USER,<NRF>}
:ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:
BRATE?
<x>=1 or 2
<NRF>=1200, 2400, 4800, 9600, 19200
USER <NRF>=See section 4.4.

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:
BRATE 19200
:ANALYSIS:SBUS1:ANALYZE:LINBUS:BRATE?
-> :ANALYSIS:SBUS1:ANALYZE:LINBUS:
BRATE 19200

:ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:FJUMP:BREAK

Function Executes a field jump to the Break Field in the results of the LIN bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:
FJUMP:BREAK
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:FJUMP:
BREAK

:ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:FJUMP:CSUM

Function Executes a field jump to the Checksum Field in the results of the LIN bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:
FJUMP:CSUM
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:FJUMP:
CSUM

:ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:FJUMP:DATA

Function Executes a field jump to the Data Field in the results of the LIN bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:
FJUMP:DATA
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:FJUMP:
DATA

7.2 ANALYSIS Group

:ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:

FJUMP:IDENTIFIER

Function Executes a field jump to the Identifier Field in the results of the LIN bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:
FJUMP:IDENTIFIER
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:FJUMP:
IDENTIFIER

:ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:

FJUMP:SYNCH

Function Executes a field jump to the Synch Field in the results of the LIN bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:
FJUMP:SYNCH
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:FJUMP:
SYNCH

:ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:

REVISION

Function Sets the LIN bus signal analysis revision (1.3, 2.0, or Both) or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:
REVISION {BOTH|LIN1_3|LIN2_0}
:ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:
REVISION?
<x>=1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:
REVISION LIN1_3
:ANALYSIS:SBUS1:ANALYZE:LINBUS:
REVISION? -> :ANALYSIS:SBUS1:ANALYZE:
LINBUS:REVISION LIN1_3

:ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:

SPOINT

Function Sets the LIN bus signal analysis sample point or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:
SPOINT {<Nrf>}
:ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:
SPOINT?
<x> = 1 or 2
<Nrf> = 18.8 to 90.6(%)

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:
SPOINT 18.8
:ANALYSIS:SBUS1:ANALYZE:LINBUS:SPOINT?
-> :ANALYSIS:SBUS1:ANALYZE:LINBUS:
SPOINT 18.8E+00

:ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:

TRACE

Function Sets the LIN bus signal analysis trace or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:
TRACE {<Nrf>}
:ANALYSIS:SBUS<x>[:ANALYZE]:LINBUS:
TRACE?
<x>=1 or 2
<Nrf>=1-8

Example :ANALYSIS:SBUS1:ANALYZE:LINBUS:TRACE 1
:ANALYSIS:SBUS1:ANALYZE:LINBUS:TRACE?
-> :ANALYSIS:SBUS1:ANALYZE:LINBUS:
TRACE 1

:ANALYSIS:SBUS<x>[:ANALYZE]:LIST?

Function Queries all settings related to the list display of the serial bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LIST?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LIST?
-> :ANALYSIS:SBUS1:ANALYZE:LIST:
DISPLAY 1;MODE DETAIL;SCROLL HORIZONTAL

:ANALYSIS:SBUS<x>[:ANALYZE]:LIST:

DISPLAY

Function Turns the serial bus signal analysis list display ON/OFF or queries the current status.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LIST:
DISPLAY {<Boolean>}
:ANALYSIS:SBUS<x>[:ANALYZE]:LIST:
DISPLAY?
<x>=1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LIST:DISPLAY ON
:ANALYSIS:SBUS1:ANALYZE:LIST:DISPLAY?
-> :ANALYSIS:SBUS1:ANALYZE:LIST:
DISPLAY 1

:ANALYSIS:SBUS<x>[:ANALYZE]:LIST:

ITEM?

Function Queries the item in the list display of the serial bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LIST:ITEM?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LIST:ITEM?
-> :ANALYSIS:SBUS1:ANALYZE:LIST:
ITEM " No. , S/P, Hex, Form, R/W, ACK, "

:ANALYSIS:SBUS<x>[:ANALYZE]:LIST:MODE

Function Sets the mode of the list display of the serial bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LIST:MODE {DETAIL|SIMPLE}
:ANALYSIS:SBUS<x>[:ANALYZE]:LIST:MODE?<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LIST:MODE
DETAIL
:ANALYSIS:SBUS1:ANALYZE:LIST:MODE?
-> :ANALYSIS:SBUS1:ANALYZE:LIST:MODE
DETAIL

:ANALYSIS:SBUS<x>[:ANALYZE]:LIST:SCROLL

Function Sets the scroll method of the list display of the serial bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LIST:SCROLL {HORIZONTAL|VERTICAL}
:ANALYSIS:SBUS<x>[:ANALYZE]:LIST:SCROLL?<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:LIST:SCROLL
HORIZONTAL
:ANALYSIS:SBUS1:ANALYZE:LIST:SCROLL?
-> :ANALYSIS:SBUS1:ANALYZE:LIST:SCROLL
HORIZONTAL

ANALYSIS:SBUS<x>[:ANALYZE]:LIST:VALUE?

Function Queries the automated measured value of the specified analysis number in the analysis result list of the serial bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:LIST:VALUE? {<NRF>|MAXIMUM|MINIMUM}
<x> = 1 or 2
<NRF> = -40000 to 40000
(<NRF> = -2999 to 2999 for :ANALYSIS:SBUS<x>[:ANALYZE]:MODE CANBUS)

Example :ANALYSIS:SBUS1:ANALYZE:LIST:VALUE? 1
-> :ANALYSIS:SBUS1:ANALYZE:LIST:VALUE "1, P, 00, A, , 0,"

Description Set the data to MAXIMUM or MINIMUM to specify the maximum list display number or the minimum list display number.

:ANALYSIS:SBUS<x>[:ANALYZE]:MODE

Function Sets the serial bus signal analysis mode or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:MODE {CANBUS|I2CBUS|LIN|SPIBUS|UART}
:ANALYSIS:SBUS<x>[:ANALYZE]:MODE?<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:MODE I2CBUS
:ANALYSIS:SBUS1:ANALYZE:MODE?
-> :ANALYSIS:SBUS1:ANALYZE:MODE I2CBUS

:ANALYSIS:SBUS<x>[:ANALYZE]:RPOINT

Function Sets the analysis reference point of the serial bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:RPOINT {MANUAL,<NRF>|TRIGGER}
:ANALYSIS:SBUS<x>[:ANALYZE]:RPOINT?<x> = 1 or 2
<NRF> = -5 to 5 (div)

Example :ANALYSIS:SBUS1:ANALYZE:RPOINT MANUAL,1
:ANALYSIS:SBUS1:ANALYZE:RPOINT?
-> :ANALYSIS:SBUS1:ANALYZE:RPOINT
MANUAL,1.00000E+00

:ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS?

Function Queries all settings related to the SPI bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS?<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS?
-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:
CLOCK:POLARITY FALL;SOURCE 1;:ANALYSIS:
SBUS1:ANALYZE:SPIBUS:CS:ACTIVE HIGH;
TRACE 1;:ANALYSIS:SBUS1:ANALYZE:SPIBUS:
DATA1:ACTIVE HIGH;TRACE 1;:ANALYSIS:
SBUS1:ANALYZE:SPIBUS:DATA2:ACTIVE HIGH;
TRACE 1;:ANALYSIS:SBUS1:ANALYZE:SPIBUS:
SETUP:BITORDER LSBFIRST;EMSLSB 1,7;
FSIZE 4;ITIME 10.000000E-09;MODE WIRE3

:ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS:CLOCK?

Function Queries all settings related to the clock channel of the SPI bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS:CLOCK?<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:CLOCK?
-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:
CLOCK:POLARITY FALL;SOURCE 1

7.2 ANALYSIS Group

:ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS: CLOCK:POLARITY

Function Sets the polarity of the clock channel of the SPI bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS:
CLOCK:POLARITY {FALL|RISE}
:ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS:
CLOCK:POLARITY?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:
CLOCK:POLARITY FALL
:ANALYSIS:SBUS1:ANALYZE:SPIBUS:CLOCK:
POLARITY? -> :ANALYSIS:SBUS1:ANALYZE:
SPIBUS:CLOCK:POLARITY FALL

:ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS: CLOCK:SOURCE

Function Sets the clock channel of the SPI bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS:
CLOCK:SOURCE {<NRF>}
:ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS:
CLOCK:SOURCE?
<x> = 1 or 2
<NRF> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:CLOCK:
SOURCE 1
:ANALYSIS:SBUS1:ANALYZE:SPIBUS:CLOCK:
SOURCE? -> :ANALYSIS:SBUS1:ANALYZE:
SPIBUS:CLOCK:SOURCE 1

:ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS: CS?

Function Queries all settings related to the chip select channel of the SPI bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS:CS?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:CS?
-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:CS:
ACTIVE HIGH;TRACE 1

:ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS: CS:ACTIVE

Function Sets the active level of the chip select channel of the SPI bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS:CS:
ACTIVE {HIGH|LOW}
:ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS:CS:
ACTIVE?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:CS:
ACTIVE HIGH
:ANALYSIS:SBUS1:ANALYZE:SPIBUS:CS:
ACTIVE? -> :ANALYSIS:SBUS1:ANALYZE:
SPIBUS:CS:ACTIVE HIGH

:ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS: CS:TRACE

Function Sets the chip select channel of the SPI bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS:
CS:TRACE {<NRF>|NONE}
:ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS:
CS:TRACE?
<x> = 1 or 2
<NRF> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:CS:
TRACE 1
:ANALYSIS:SBUS1:ANALYZE:SPIBUS:CS:
TRACE? -> :ANALYSIS:SBUS1:ANALYZE:
SPIBUS:CS:TRACE 1

:ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS: DATA<x>?

Function Queries all settings related to the data of the SPI bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:SPIBUS:
DATA<x>?
<x> of SBUS<x> = 1 or 2
<x> of DATA<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:DATA1?
-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:
DATA1:ACTIVE HIGH;TRACE 1

:ANALysis:SBUS<x>[:ANALyze]:SPIBus:DATA<x>:ACTIVE

Function Sets the active level of the data of the SPI bus signal analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus:DATA<x>:ACTIVE {HIGH|LOW}
:ANALysis:SBUS<x>[:ANALyze]:SPIBus:DATA<x>:ACTIVE?
<x> of SBUS<x> = 1 or 2
<x> of DATA<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:DATA1:ACTIVE HIGH
:ANALYSIS:SBUS1:ANALYZE:SPIBUS:DATA1:ACTIVE? -> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:DATA1:ACTIVE HIGH

:ANALysis:SBUS<x>[:ANALyze]:SPIBus:DATA<x>:TRACe

Function Sets the data channel of the SPI bus signal analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus:DATA<x>:TRACe {<Nrf>}
:ANALysis:SBUS<x>[:ANALyze]:SPIBus:DATA<x>:TRACe?
<x> of SBUS<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<Nrf> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:DATA1:TRACE 1
:ANALYSIS:SBUS1:ANALYZE:SPIBUS:DATA1:TRACE? -> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:DATA1:TRACE 1

:ANALysis:SBUS<x>[:ANALyze]:SPIBus:SETUp?

Function Queries all settings related to the SPI bus signal analysis setup.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus:SETUp?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP?
-> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP:BITORDER LSBFIRST;EMSBLB 1,7;FSIZE 4;ITIME 10.000000E-09;MODE WIRE3

:ANALysis:SBUS<x>[:ANALyze]:SPIBus[:SETUp]:BITOrder

Function Sets the bit order of the SPI bus signal analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus[:SETUp]:BITOrder {LSBFirst|MSBFirst}
:ANALysis:SBUS<x>[:ANALyze]:SPIBus[:SETUp]:BITOrder?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP:BITORDER LSBFIRST
:ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP:BITORDER? -> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP:BITORDER LSBFIRST

:ANALysis:SBUS<x>[:ANALyze]:SPIBus[:SETUp]:EMSBLB

Function Sets the enabled range of the field used for SPI bus signal analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus[:SETUp]:EMSBLB {<Nrf>,<Nrf>}
:ANALysis:SBUS<x>[:ANALyze]:SPIBus[:SETUp]:EMSBLB?
<x> = 1 or 2
<Nrf> = See section 4.5.

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP:EMSBLB 1,7
:ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP:EMSBLB? -> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP:EMSBLB 1,7

:ANALysis:SBUS<x>[:ANALyze]:SPIBus[:SETUp]:FSIZE

Function Sets the field size used for SPI bus signal analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:SPIBus[:SETUp]:FSIZE {<Nrf>}
:ANALysis:SBUS<x>[:ANALyze]:SPIBus[:SETUp]:FSIZE?
<x> = 1 or 2
<Nrf> = 4 to 32

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP:FSIZE 4
:ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP:FSIZE? -> :ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP:FSIZE 4

7.2 ANALYSIS Group

:ANALYSIS:SBUS<x>[:ANALYZE]:

SPIBUS[:SETUP]:ITIME

Function Sets the idle time used in SPI bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:
SPIBUS[:SETUP]:ITIME {<Time>|DONTcare}
:ANALYSIS:SBUS<x>[:ANALYZE]:
SPIBUS[:SETUP]:ITIME?
<x> = 1 or 2
<Time> = 10ns to 1ms in 10-ns steps

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP:
ITIME 10NS
:ANALYSIS:SBUS1:ANALYZE:SPIBUS:SETUP:
ITIME? -> :ANALYSIS:SBUS1:ANALYZE:
SPIBUS:SETUP:ITIME 10.0000E-09

:ANALYSIS:SBUS<x>[:ANALYZE]:

SPIBUS[:SETUP]:MODE

Function Sets the wiring system of the SPI bus signal analysis (three-wire or four-wire) or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:
SPIBUS[:SETUP]:MODE {WIRE3|WIRE4}
:ANALYSIS:SBUS<x>[:ANALYZE]:
SPIBUS[:SETUP]:MODE?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:SPIBUS:
SETUP:MODE WIRE3
:ANALYSIS:SBUS1:ANALYZE:SPIBUS:
SETUP:MODE? -> :ANALYSIS:SBUS1:ANALYZE:
SPIBUS:SETUP:MODE WIRE3

:ANALYSIS:SBUS<x>[:ANALYZE]:

TRACe<x>?

Function Queries all settings related to the threshold level of the source channel of the serial bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:TRACe<x>?
<x> of SBUS<x> = 1 or 2
<x> of TRACe<x> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:TRACE1?
-> :ANALYSIS:SBUS1:ANALYZE:TRACE1:
HYSTERESIS 1.000E+00;LEVEL 1.000E+00

:ANALYSIS:SBUS<x>[:ANALYZE]:

TRACe<x>:HYSTERESIS

Function Sets the hysteresis of the threshold level of the source channel of the serial bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:TRACe<x>:
HYSTERESIS {<NRf>}
:ANALYSIS:SBUS<x>[:ANALYZE]:TRACe<x>:
HYSTERESIS?
<x> of SBUS<x> = 1 or 2
<x> of TRACe<x> = 1 to 8
<NRf> = 0 to 4 (div)

Example :ANALYSIS:SBUS1:ANALYZE:TRACE1:
HYSTERESIS 1
:ANALYSIS:SBUS1:ANALYZE:TRACE1:
HYSTERESIS? -> :ANALYSIS:SBUS1:ANALYZE:
TRACE1:HYSTERESIS 1.000E+00

:ANALYSIS:SBUS<x>[:ANALYZE]:

TRACe<x>:LEVEL

Function Sets the level of the threshold level of the source channel of the serial bus signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:TRACe<x>:
LEVEL {<NRf>|<Voltage>|<current>}
:ANALYSIS:SBUS<x>[:ANALYZE]:TRACe<x>:
LEVEL?
<x> of SBUS<x> = 1 or 2
<x> of TRACe<x> = 1 to 8
<NRf>, <Voltage>, and <Current> = See sections 4.2 to 4.6.

Example :ANALYSIS:SBUS1:ANALYZE:TRACE1:
LEVEL 1V
:ANALYSIS:SBUS1:ANALYZE:TRACE1:LEVEL?
-> :ANALYSIS:SBUS1:ANALYZE:TRACE1:
LEVEL 1.000E+00

:ANALYSIS:SBUS<x>[:ANALYZE]:UART?

Function Queries all settings related to the UART bus signal analysis.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:UART?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:UART?
-> :ANALYSIS:SBUS1:ANALYZE:UART:
BITORDER LSBFIRST;BRATE 19200;
BSPACE 10.00E-03;DFORMAT HEXA;
FORMAT BIT7PARITY;GROUPING 1;
PMODE EVEN;POLARITY NEGATIVE;
SPOINT 18.8E+00;TRACE 1

**:ANALYSIS:SBUS<x>[:ANALYZE]:UART:
BITOrder**

Function Sets the UART bus signal analysis bit order or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:UART:
BITOrder {LSBFirst|MSBFirst}
:ANALYSIS:SBUS<x>[:ANALYZE]:UART:
BITOrder?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:UART:
BITORDER LSBFIRST
:ANALYSIS:SBUS1:ANALYZE:UART:BITORDER?
-> :ANALYSIS:SBUS1:ANALYZE:UART:
BITORDER LSBFIRST

:ANALYSIS:SBUS<x>[:ANALYZE]:UART:BRATE

Function Sets the UART bus signal analysis bit rate (data transfer rate) or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:UART:
BRATE {<NRF>|USER,<NRF>}
:ANALYSIS:SBUS<x>[:ANALYZE]:UART:BRATE?
<x> = 1 or 2
<NRF> = 1200, 2400, 4800, 9600, 19200, 38400,
57600, or 115200
<NRF> of USER = See section 4.6.

Example :ANALYSIS:SBUS1:ANALYZE:UART:
BRATE 19200
:ANALYSIS:SBUS1:ANALYZE:UART:BRATE?
-> :ANALYSIS:SBUS1:ANALYZE:UART:
BRATE 19200

**:ANALYSIS:SBUS<x>[:ANALYZE]:UART:
BSPace**

Function Sets the byte space for grouping data that is used in UART signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:UART:BSpace
{<Time>}
:ANALYSIS:SBUS<x>[:ANALYZE]:UART:
BSpace?
<x> = 1 or 2
<Time> = See section 4.6.

Example :ANALYSIS:SBUS1:ANALYZE:UART:
BSPACE 10ms
:ANALYSIS:SBUS1:ANALYZE:UART:BSpace?
-> :ANALYSIS:SBUS1:ANALYZE:UART:BSpace
10.00E-03

**:ANALYSIS:SBUS<x>[:ANALYZE]:UART:
DFORmat**

Function Sets the decoded character display format for UART signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:UART:
DFORmat {ASCIi|HEXA}
:ANALYSIS:SBUS<x>[:ANALYZE]:UART:
DFORmat?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:UART:
DFORMAT ASCII
:ANALYSIS:SBUS1:ANALYZE:UART:DFORMAT?
-> :ANALYSIS:SBUS1:ANALYZE:UART:
DFORMAT ASCII

**:ANALYSIS:SBUS<x>[:ANALYZE]:UART:
FORMat**

Function Sets the UART bus signal analysis data format or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:UART:
FORMat {BIT7parity|BIT8Noparity|
BIT8Parity}
:ANALYSIS:SBUS<x>[:ANALYZE]:UART:
FORMat?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:UART:
FORMAT BIT7PARITY
:ANALYSIS:SBUS1:ANALYZE:UART:FORMAT?
-> :ANALYSIS:SBUS1:ANALYZE:UART:
FORMAT BIT7PARITY

**:ANALYSIS:SBUS<x>[:ANALYZE]:UART:
GROuping**

Function Turns on or off the grouping feature for UART signal analysis or queries the current setting.

Syntax :ANALYSIS:SBUS<x>[:ANALYZE]:UART:
GROuping {<Boolean>}
:ANALYSIS:SBUS<x>[:ANALYZE]:UART:
GROuping?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:UART:
GROUPING ON
:ANALYSIS:SBUS1:ANALYZE:UART:GROUPING?
-> :ANALYSIS:SBUS1:ANALYZE:UART:
GROUPING 1

7.2 ANALysis Group

:ANALysis:SBUS<x>[:ANALyze]:UART:PMODE

Function Sets the UART bus signal analysis parity mode or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:UART:
PMODE {EVEN|ODD}
:ANALysis:SBUS<x>[:ANALyze]:UART:PMODE?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:UART:PMODE EVEN
:ANALYSIS:SBUS1:ANALYZE:UART:PMODE?
-> :ANALYSIS:SBUS1:ANALYZE:UART:PMODE
EVEN

:ANALysis:SBUS<x>[:ANALyze]:UART: POLarity

Function Sets the UART bus signal analysis polarity or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:UART:
POLarity {NEGative|POSitive}
:ANALysis:SBUS<x>[:ANALyze]:UART:
POLarity?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ANALYZE:UART:
POLARITY NEGATIVE
:ANALYSIS:SBUS1:ANALYZE:UART:POLARITY?
-> :ANALYSIS:SBUS1:ANALYZE:UART:
POLARITY NEGATIVE

:ANALysis:SBUS<x>[:ANALyze]:UART: SPOint

Function Sets the UART bus signal analysis sample point or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:UART:
SPOint {<NRf>}
:ANALysis:SBUS<x>[:ANALyze]:UART:
SPOint?
<x> = 1 or 2
<NRf> = 18.8 to 90.6(%)

Example :ANALYSIS:SBUS1:ANALYZE:UART:
SPOINT 18.8
:ANALYSIS:SBUS1:ANALYZE:UART:SPOINT?
-> :ANALYSIS:SBUS1:ANALYZE:UART:
SPOINT 18.8E+00

:ANALysis:SBUS<x>[:ANALyze]:UART:TRACe

Function Sets the UART bus signal analysis trace or queries the current setting.

Syntax :ANALysis:SBUS<x>[:ANALyze]:UART:
TRACe {<NRf>}
:ANALysis:SBUS<x>[:ANALyze]:UART:TRACe?
<x> = 1 or 2
<NRf> = 1 to 8

Example :ANALYSIS:SBUS1:ANALYZE:UART:TRACE 1
:ANALYSIS:SBUS1:ANALYZE:UART:TRACE?
-> :ANALYSIS:SBUS1:ANALYZE:UART:TRACE 1

:ANALysis:SBUS<x>:ZLINKage

Function Sets the zoom link of the serial bus signal analysis or queries the current setting.

Syntax :ANALysis:SBUS<x>:ZLINKage {OFF|Z1|Z2}
:ANALysis:SBUS<x>:ZLINKage?
<x> = 1 or 2

Example :ANALYSIS:SBUS1:ZLINKAGE OFF
:ANALYSIS:SBUS1:ZLINKAGE?
-> :ANALYSIS:SBUS1:ZLINKAGE OFF

:ANALysis:TYPE<x>

Function Sets the analysis feature type or queries the current setting.

Syntax :ANALysis:TYPE<x> {AHISTogram|FFT|SBUS|
WPARAMeter|XY}
:ANALysis:TYPE<x>?
<x> = 1 or 2

Example :ANALYSIS:TYPE1 AHISTOGRAM
:ANALYSIS:TYPE1?
-> :ANALYSIS:TYPE1 AHISTOGRAM

Description {HARMonics|LSBus} can be applied to DL9505L,
DL9510L, DL9705L, and DL9710L.

7.3 MATH Group

:MATH<x>:OPERation

Function Sets the operator or queries the current setting.

Syntax :MATH<x>:OPERation { (ECOunt|FILTer|INTEgral|MINus|MULTiple|PLUS|RCOunt|SBIT), <NRf>, <NRf> } :MATH<x>:OPERation?
 <x> = 1 to 8 (<x> = 1 to 4 only when you select {SBIT})
 <NRf> = 1 to 4

Example :MATH1:OPERATION FILTER,1:MATH1:OPERATION?

-> :MATH1:OPERATION FILTER,1

Description For unary operators (ECOunt|FILTer|INTEgral|SBIT), select the target waveform using the first <NRf>.

For binary operators (MINus|MULTiple|PLUS|RCOunt), select the target waveform of the first term using the first <NRf> and the target waveform of the second term using the second <NRf>.

:MATH<x>:SBIT?

Function Queries all settings related to the stuff bit computation.

Syntax :MATH<x>:SBIT?
 <x> = 1 to 4

Example :MATH1:SBIT?
 -> :MATH1:SBIT:BRATE 1000000;
 HYSTERESIS 600.000E-03;
 LEVEL 0.0000000E+00;RECESSIVE HIGH

:MATH<x>:SBIT:BRATe

Function Sets the bit rate (data transfer rate) of the stuff bit computation or queries the current setting.

Syntax :MATH<x>:SBIT:BRATe { <NRf>|USER, <NRf> }
 :MATH<x>:SBIT:BRATe?
 <x> = 1 to 4
 <NRf> = 83300, 125000, 250000, 500000, 1000000
 <NRf> of USER = See section 4.3.

Example :MATH1:SBIT:BRATE 83300
 :MATH1:SBIT:BRATE?
 -> :MATH1:SBIT:BRATE 83300

:MATH<x>:SBIT:HISTory:ABORt

Function Cancels history computation for stuff bit computation.

Syntax :MATH<x>:SBIT:HISTory:ABORt
 <x>=1-4

Example :MATH1:SBIT:HISTORY:ABORT

:MATH<x>:SBIT:HISTory:EXECute

Function Executes history computation for stuff bit computation.

Syntax :MATH<x>:SBIT:HISTory:EXECute
 <x>=1-4

Example :MATH1:SBIT:HISTORY:EXECUTE

:MATH<x>:SBIT:HYSTEResis

Function Sets the hysteresis of the stuff bit computation or queries the current setting.

Syntax :MATH<x>:SBIT:HYSTEResis { <NRf> }
 :MATH<x>:SBIT:HYSTEResis?
 <x> = 1 to 4
 <NRf> = 0 to 4(div)

Example :MATH1:SBIT:HYSTERESIS 1
 :MATH1:SBIT:HYSTERESIS?
 -> :MATH1:SBIT:HYSTERESIS 1.000000E+00

:MATH<x>:SBIT:LEVel

Function Sets the threshold level of the stuff bit computation or queries the current setting.

Syntax :MATH<x>:SBIT:LEVel { <NRf>|<Voltage>|<Current> }
 :MATH<x>:SBIT:LEVel?
 <x> = 1 to 4

<NRf>, <Voltage>, and <Current> = See section 4.3.

Example :MATH1:SBIT:LEVEL 1
 :MATH1:SBIT:LEVEL?
 -> :MATH1:SBIT:LEVEL 1.0000000E+00

:MATH<x>:SBIT:RECCessive

Function Sets the recessive level (bus level) of the stuff bit computation or queries the current setting.

Syntax :MATH<x>:SBIT:RECCessive {HIGH|LOW}
 :MATH<x>:SBIT:RECCessive?
 <x> = 1 to 4

Example :MATH1:SBIT:RECESSIVE HIGH
 :MATH1:SBIT:RECESSIVE?
 -> :MATH1:SBIT:RECESSIVE HIGH

:MATH<x>:SBIT:SPOint

Function Sets the sample point of the stuff bit computation or queries the current setting.

Syntax :MATH<x>:SBIT:SPOint { <NRf> }
 :MATH<x>:SBIT:SPOint?
 <x> = 1 to 4
 <NRf> = 18.8 to 90.6(%)

Example :MATH1:SBIT:SPOINT 18.8
 :MATH1:SBIT:SPOINT?
 -> :MATH1:SBIT:SPOINT 18.8E+00

7.4 SEARCh Group

SEARCh<x>: CANBus?

Function Queries all settings related to the CAN bus signal search.

Syntax :SEARCh<x>:CANBus?
<x> = 1 or 2

Example :SEARCH1:CANBUS?
-> :SEARCH1:CANBUS:SETUP:ACK DONTCARE;
BRATE 1000000;DATA:BORDER BIG;
CONDITION DONTCARE;DATA1 0.0000000E+00;
DATA2 255.00000E+00;DLC 8;MSBLSB 7,0;
PATTERN "100101100101100001110100010100
100001001101010111101011110111100";
SIGN UNSIGN;:SEARCH1:CANBUS:SETUP:
IDEXT:PATTERN"1100101101110000111011101
1111";:SEARCH1:CANBUS:SETUP:IDSTD:
PATTERN "00011111101";:SEARCH1:CANBUS:
SETUP:MODE SOF;RECESSIVE HIGH;RTR DATA;
SPOINT 62.5E+00;TRACE 1

: SEARCh<x>: CANBus : SETUp?

Function Queries all settings related to the CAN bus signal search setup.

Syntax :SEARCh<x>:CANBus:SETUp?
<x> = 1 or 2

Example :SEARCH1:CANBUS:SETUP?
-> :SEARCH1:CANBUS:SETUP:ACK DONTCARE;
BRATE 1000000;DATA:BORDER BIG;
CONDITION DONTCARE;DATA1 0.0000000E+00;
DATA2 255.00000E+00;DLC 8;MSBLSB 7,0;
PATTERN "100101100101100001110100010100
100001001101010111101011110111100";
SIGN UNSIGN;:SEARCH1:CANBUS:SETUP:
IDEXT:PATTERN "110010110111000011101110
1111";:SEARCH1:CANBUS:SETUP:IDSTD:
PATTERN "00011111101";:SEARCH1:CANBUS:
SETUP:MODE SOF;RECESSIVE HIGH;RTR DATA;
SPOINT 62.5E+00;TRACE 1

: SEARCh<x>: CANBus [: SETUp] : ACK

Function Sets the ACK condition of the CAN bus signal search or queries the current setting.

Syntax :SEARCh<x>:CANBus[:SETUp]:
ACK {ACK|ACKBoth|DONTcare|NONack}
:SEARCh<x>:CANBus[:SETUp]:ACK?
<x> = 1 or 2

Example :SEARCH1:CANBUS:SETUP:ACK ACK
:SEARCH1:CANBUS:SETUP:ACK?
-> :SEARCH1:CANBUS:SETUP:ACK ACK

: SEARCh<x>: CANBus [: SETUp] : BRATe

Function Sets the bit rate (data transfer rate) of the CAN bus signal search or queries the current setting.

Syntax :SEARCh<x>:CANBus[:SETUp]:
BRATe {<NRf>|USER,<NRf>}
:SEARCh<x>:CANBus[:SETUp]:BRATe?
<x> = 1 or 2
<NRf> =33300, 83300, 125000, 250000, 500000,
1000000
<NRf> of USER = See section 5.3.

Example :SEARCH1:CANBUS:SETUP:BRATE 83300
:SEARCH1:CANBUS:SETUP:BRATE?
-> :SEARCH1:CANBUS:SETUP:BRATE 83300

: SEARCh<x>: CANBus [: SETUp] : DATA?

Function Queries all settings related to the CAN bus signal search data.

Syntax :SEARCh<x>:CANBus[:SETUp]:DATA?
<x> = 1 or 2

Example :SEARCH1:CANBUS:SETUP:DATA?
-> :SEARCH1:CANBUS:SETUP:DATA:
BORDER BIG;CONDITION TRUE;
DATA1 0.0000000E+00;
DATA2 255.00000E+00;DLC 8;MSBLSB 7,0;
PATTERN "100101100101100001110100010100
100001001101010111101011110111100";
SIGN UNSIGN

: SEARCh<x>: CANBus [: SETUp] : DATA : BORDER

Function Sets the byte order of the CAN bus signal search data or queries the current setting.

Syntax :SEARCh<x>:CANBus[:SETUp]:DATA:
BORDER {BIG|LITTLE}
:SEARCh<x>:CANBus[:SETUp]:DATA:BORDER?
<x> = 1 or 2

Example :SEARCH1:CANBUS:SETUP:DATA:BORDER BIG
:SEARCH1:CANBUS:SETUP:DATA:BORDER?
-> :SEARCH1:CANBUS:SETUP:DATA:
BORDER BIG

: SEARCh<x>: CANBus [: SETUp] : DATA: CONDition

Function Sets the data condition of the CAN bus signal search or queries the current setting.

Syntax :SEARCh<x>:CANBus [:SETUp] :DATA:
CONDition {BETWEEen|DONTcare|FALSe|
GTHan|LTHan|ORANge|TRUE}
:SEARCh<x>:CANBus [:SETUp] :DATA:
CONDition?
<x> = 1 or 2

Example :SEARCH1:CANBUS:SETUP:DATA:
CONDITION BETWEEN
:SEARCH1:CANBUS:SETUP:DATA:CONDITION?
-> :SEARCH1:CANBUS:SETUP:DATA:
CONDITION BETWEEN

: SEARCh<x>: CANBus [: SETUp] : DATA: DATA<x>

Function Sets the comparison data of the CAN bus signal search data or queries the current setting.

Syntax :SEARCh<x>:CANBus [:SETUp] :DATA:
DATA<x> {<NRF>}
:SEARCh<x>:CANBus [:SETUp] :DATA:DATA<x>?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<NRF> = See section 5.3.

Example :SEARCH1:CANBUS:SETUP:DATA:DATA1 1
:SEARCH1:CANBUS:SETUP:DATA:DATA1?
-> :SEARCH1:CANBUS:SETUP:DATA:
DATA1 1.0000000E+00

Description • **Use** :SEARCh<x>:CANBus [:SETUp] :DATA:
DATA1 **when** :SEARCh<x>:CANBus [:SETUp] :
DATA:CONDition GTHan is specified.
• **Use** :SEARCh<x>:CANBus [:SETUp] :DATA:
DATA2 **when** :SEARCh<x>:CANBus [:SETUp] :
DATA:CONDition LTHan is specified.
• **Use** :SEARCh<x>:CANBus [:SETUp] :DATA:
DATA1 **to set the smaller value and** :SEARCh<x>:
CANBus [:SETUp] :DATA:DATA2 **to set the larger**
value when :SEARCh<x>:CANBus [:SETUp] :
DATA:CONDition BETWEEN|ORANge is
specified.

: SEARCh<x>: CANBus [: SETUp] : DATA: DLC

Function Sets the number of valid bytes (DLC) of the CAN bus signal search data or queries the current setting.

Syntax :SEARCh<x>:CANBus [:SETUp] :DATA:
DLC {<NRF>}
:SEARCh<x>:CANBus [:SETUp] :DATA:DLC?
<x> = 1 or 2
<NRF> = 0 to 8

Example :SEARCH1:CANBUS:SETUP:DATA:DLC 0
:SEARCH1:CANBUS:SETUP:DATA:DLC?
-> :SEARCH1:CANBUS:SETUP:DATA:DLC 0

: SEARCh<x>: CANBus [: SETUp] : DATA: HEXA

Function Sets the CAN bus signal search data in hexadecimal notation.

Syntax :SEARCh<x>:CANBus [:SETUp] :DATA:
HEXA {<String>}
<x> = 1 or 2
<String> = Up to 16 characters by combining '0' to 'F'
and 'X' (in one-byte unit)

Example :SEARCH1:CANBUS:SETUP:DATA:HEXA "A9"

: SEARCh<x>: CANBus [: SETUp] : DATA: MSBLsb

Function Sets the MSB and LSB bits of the CAN bus signal search data or queries the current setting.

Syntax :SEARCh<x>:CANBus [:SETUp] :DATA:
MSBLsb {<NRF>, <NRF>}
:SEARCh<x>:CANBus [:SETUp] :DATA:MSBLsb?
<x> = 1 or 2
<NRF> = See section 5.3.

Example :SEARCH1:CANBUS:SETUP:DATA:MSBLSB 1,0
:SEARCH1:CANBUS:SETUP:DATA:MSBLSB?
-> :SEARCH1:CANBUS:SETUP:DATA:
MSBLSB 1,0

: SEARCh<x>: CANBus [: SETUp] : DATA: PATtern

Function Sets the CAN bus signal search data in binary notation or queries the current setting.

Syntax :SEARCh<x>:CANBus [:SETUp] :DATA:
PATtern {<String>}
:SEARCh<x>:CANBus [:SETUp] :DATA:PATtern?
<x> = 1 or 2
<String> = Up to 64 characters by combining '0','1',
and 'X' (in one-byte unit)

Example :SEARCH1:CANBUS:SETUP:DATA:
PATTERN "11011111"
:SEARCH1:CANBUS:SETUP:DATA:PATTERN?
-> :SEARCH1:CANBUS:SETUP:DATA:
PATTERN "11011111"

: SEARCh<x>: CANBus [: SETUp] : DATA: SIGN

Function Sets the sign of the CAN bus signal search data or queries the current setting.

Syntax :SEARCh<x>:CANBus [:SETUp] :DATA:
SIGN {SIGN|UNSign}
:SEARCh<x>:CANBus [:SETUp] :DATA:SIGN?
<x> = 1 or 2

Example :SEARCH1:CANBUS:SETUP:DATA:SIGN SIGN
:SEARCH1:CANBUS:SETUP:DATA:SIGN?
-> :SEARCH1:CANBUS:SETUP:DATA:SIGN SIGN

7.4 SEARCh Group

: SEARCh<x> : CANBus [: SETUp] : IDEXT?

Function Queries all settings related to the ID of the extended format of the CAN bus signal search.

Syntax :SEARCh<x>:CANBus[:SETUp]:IDEXT?
<x> = 1 or 2

Example :SEARCH1:CANBUS:SETUP:IDEXT?
-> :SEARCH1:CANBUS:SETUP:IDEXT:
PATTERN "11001011011100001110111011111"

: SEARCh<x> : CANBus [: SETUp] : IDEXT : HEXA

Function Sets the ID of the extended format of the CAN bus signal search in hexadecimal notation.

Syntax :SEARCh<x>:CANBus[:SETUp]:IDEXT:
HEXA {<String>}
<x> = 1 or 2

<String> = 8 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:CANBUS:SETUP:IDEXT:
HEXA "1AEF5906"

: SEARCh<x> : CANBus [: SETUp] : IDEXT : PATTErn

Function Sets the ID of the extended format of the CAN bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>:CANBus[:SETUp]:IDEXT:
PATTErn {<String>}
:SEARCh<x>:CANBus[:SETUp]:IDEXT:
PATTErn?
<x> = 1 or 2

<String> = 29 characters by combining '0', '1,' and 'X'

Example :SEARCH1:CANBUS:SETUP:IDEXT:
PATTERN "11001011011100001110111011111"
:SEARCH1:CANBUS:SETUP:IDEXT:PATTERN?
-> :SEARCH1:CANBUS:SETUP:IDEXT:
PATTERN "11001011011100001110111011111"

: SEARCh<x> : CANBus [: SETUp] : IDSTd?

Function Queries all settings related to the ID of the standard format of the CAN bus signal search.

Syntax :SEARCh<x>:CANBus[:SETUp]:IDSTd?
<x> = 1 or 2

Example :SEARCH1:CANBUS:SETUP:IDSTD?
-> :SEARCH1:CANBUS:SETUP:IDSTD:
PATTERN "00011111101"

: SEARCh<x> : CANBus [: SETUp] : IDSTd : HEXA

Function Sets the ID of the standard format of the CAN bus signal search in hexadecimal notation.

Syntax :SEARCh<x>:CANBus[:SETUp]:IDSTd:
HEXA {<String>}
<x> = 1 or 2

<String> = 3 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:CANBUS:SETUP:IDSTD:HEXA "5DF"

: SEARCh<x> : CANBus [: SETUp] : IDSTd : PATTErn

Function Sets the ID of the standard format of the CAN bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>:CANBus[:SETUp]:IDSTd:
PATTErn {<String>}
:SEARCh<x>:CANBus[:SETUp]:IDSTd:
PATTErn?
<x> = 1 or 2

<String> = 11 characters by combining '0', '1,' and 'X'

Example :SEARCH1:CANBUS:SETUP:IDSTD:
PATTERN "10111011111"
:SEARCH1:CANBUS:SETUP:IDSTD:PATTERN?
-> :SEARCH1:CANBUS:SETUP:IDSTD:
PATTERN "10111011111"

: SEARCh<x> : CANBus [: SETUp] : MODE

Function Sets the CAN bus signal search mode or queries the current setting.

Syntax :SEARCh<x>:CANBus[:SETUp]:
MODE {EFrame|IDEXT|IDSTd|SOF}
:SEARCh<x>:CANBus[:SETUp]:MODE?
<x> = 1 or 2

Example :SEARCH1:CANBUS:SETUP:MODE EFRAME
:SEARCH1:CANBUS:SETUP:MODE?
-> :SEARCH1:CANBUS:SETUP:MODE EFRAME

: SEARCh<x> : CANBus [: SETUp] : RECESSive

Function Sets the recessive level (bus level) of the CAN bus signal search or queries the current setting.

Syntax :SEARCh<x>:CANBus[:SETUp]:
RECESSive {HIGH|LOW}
:SEARCh<x>:CANBus[:SETUp]:RECESSive?
<x> = 1 or 2

Example :SEARCH1:CANBUS:SETUP:RECESSIVE HIGH
:SEARCH1:CANBUS:SETUP:RECESSIVE?
-> :SEARCH1:CANBUS:SETUP:RECESSIVE HIGH

: SEARCh<x> : CANBus [: SETUp] : RTR

Function Sets the RTR of the CAN bus signal search or queries the current setting.

Syntax :SEARCh<x>:CANBus[:SETUp]:
RTR {DATA|DONTcare|REMOte}
:SEARCh<x>:CANBus[:SETUp]:RTR?
<x> = 1 or 2

Example :SEARCH1:CANBUS:SETUP:RTR DATA
:SEARCH1:CANBUS:SETUP:RTR?
-> :SEARCH1:CANBUS:SETUP:RTR DATA

: SEARCh<x>: CANBus [: SETUp] : SPOint

Function Sets the sample point of the CAN bus signal search or queries the current setting.

Syntax :SEARCh<x>:CANBus [:SETUp] :
SPOint {<NRf>}
:SEARCh<x>:CANBus [:SETUp] :SPOint?
<x> = 1 or 2
<NRf>=18.8 to 90.6(%)

Example :SEARCH1:CANBUS:SETUP:SPOINT 18.8
:SEARCH1:CANBUS:SETUP:SPOINT?
-> :SEARCH1:CANBUS:SETUP:
SPOINT 18.8E+00

: SEARCh<x>: CANBus [: SETUp] : TRACe

Function Sets the trace of the CAN bus signal search or queries the current setting.

Syntax :SEARCh<x>:CANBus [:SETUp] :TRACe {<NRf>}
:SEARCh<x>:CANBus [:SETUp] :TRACe?
<x> = 1 or 2
<NRf> = 1 to 8

Example :SEARCH1:CANBUS:SETUP:TRACE 1
:SEARCH1:CANBUS:SETUP:TRACE?
-> :SEARCH1:CANBUS:SETUP:TRACE 1

SEARCh<x>: I2CBus?

Function Queries all settings related to the I²C bus signal search.

Syntax :SEARCh<x>:I2CBus?
<x> = 1 or 2

Example :SEARCH1:I2CBUS?
-> :SEARCH1:I2CBUS:CLOCK:SOURCE 1;
SEARCH1:I2CBUS:SETUP:ADATA:
BIT10ADDRESS:PATTERN " 10111011111";;
SEARCH1:I2CBUS:SETUP:ADATA:BIT7ADDRESS:
PATTERN " 11011110";:SEARCH1:I2CBUS:
SETUP:ADATA:BIT7APSUB:ADDRESS:
PATTERN " 11001101";:SEARCH1:I2CBUS:
SETUP:ADATA:BIT7APSUB:SADDRESS:
PATTERN " 11101111";:SEARCH1:I2CBUS:
SETUP:ADATA:TYPE BIT7APSUB;:SEARCH1:
I2CBUS:SETUP:DATA:BYTE 1;
CONDITION TRUE;DPOSITION 0;MODE 0;
PATTERN1 " 10101011";
PATTERN2 " 10101011";
PATTERN3 " 10101011";
PATTERN4 " 10101011";
PMODE DONTCARE;:SEARCH1:I2CBUS:SETUP:
GCALL:BIT7MADDRESS:PATTERN " 1010101";;
SEARCH1:I2CBUS:SETUP:GCALL:
SBYTE BIT7MADDRESS;:SEARCH1:I2CBUS:
SETUP:MODE SBHSMODE;.....

: SEARCh<x>: I2CBus : CLOCk?

Function Queries all settings related to the clock of the I²C bus signal search.

Syntax :SEARCh<x>:I2CBus:CLOCK?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:CLOCK?
-> :SEARCH1:I2CBUS:CLOCK:SOURCE 1

: SEARCh<x>: I2CBus : CLOCk : SOURce

Function Sets the clock trace of the I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:I2CBus:CLOCK:SOURce {<NRf>}
:SEARCh<x>:I2CBus:CLOCK:SOURce?
<x> = 1 or 2
<NRf> = 1 to 8

Example :SEARCH1:I2CBUS:CLOCK:SOURCE 1
:SEARCH1:I2CBUS:CLOCK:SOURCE?
-> :SEARCH1:I2CBUS:CLOCK:SOURCE 1

: SEARCh<x>: I2CBus : SETUp?

Function Queries all settings related to the I²C bus signal search setup.

Syntax :SEARCh<x>:I2CBus:SETUp?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP?
-> :SEARCH1:I2CBUS:SETUP:ADATA:
BIT10ADDRESS:PATTERN " 10111011111";;
SEARCH1:I2CBUS:SETUP:ADATA:
BIT7ADDRESS:PATTERN " 11011110";;
SEARCH1:I2CBUS:SETUP:ADATA:BIT7APSUB:
ADDRESS:PATTERN " 11001101";:SEARCH1:
I2CBUS:SETUP:ADATA:BIT7APSUB:
SADDRESS:PATTERN " 11101111";:SEARCH1:
I2CBUS:SETUP:ADATA:TYPE BIT7APSUB;:
SEARCH1:I2CBUS:SETUP:DATA:BYTE 1;
CONDITION TRUE;DPOSITION 0;MODE 0;
PATTERN1 " 10101011";
PATTERN2 " 10101011";
PATTERN3 " 10101011";
PATTERN4 " 10101011";PMODE DONTCARE;:
SEARCH1:I2CBUS:SETUP:GCALL:
SEARCH1:I2CBUS:SETUP:GCALL:
SBYTE BIT7MADDRESS;:SEARCH1:I2CBUS:
SETUP:MODE SBHSMODE;NAIGNORE:HSMODE 0;
RACCESS 0;SBYTE 0;:SEARCH1:I2CBUS:
SETUP:SBHSMODE:TYPE SBYTE

7.4 SEARCh Group

:SEARCh<x>:I2CBus[:SETup]:ADATa?

Function Queries all settings related to the address of the I²C bus signal search.

Syntax :SEARCh<x>:I2CBus[:SETup]:ADATa?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:ADATa?
-> :SEARCH1:I2CBUS:SETUP:ADATa:
BIT10ADDRESS:PATTERN " 10111011111";:
SEARCH1:I2CBUS:SETUP:ADATa:
BIT7ADDRESS:PATTERN " 11011110";:
SEARCH1:I2CBUS:SETUP:ADATa:
BIT7APSUB:ADDRESS:PATTERN " 11001101";:
SEARCH1:I2CBUS:SETUP:ADATa:BIT7APSUB:
SADDRESS:PATTERN " 11101111";:
SEARCH1:I2CBUS:SETUP:ADATa:
TYPE BIT7APSUB

:SEARCh<x>:I2CBus[:SETup]:ADATa: BIT10address?

Function Queries all settings related to the 10-bit address of the I²C bus signal search.

Syntax :SEARCh<x>:I2CBus[:SETup]:ADATa:
BIT10address?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:
ADATa:BIT10ADDRESS?
-> :SEARCH1:I2CBUS:SETUP:ADATa:
BIT10ADDRESS:PATTERN " 000111111101"

:SEARCh<x>:I2CBus[:SETup]:ADATa: BIT10address:HEXA

Function Sets the 10-bit address of the I²C bus signal search in hexadecimal notation.

Syntax :SEARCh<x>:I2CBus[:SETup]:ADATa:
BIT10address:HEXA {<String>}
<x> = 1 or 2
<String> = 3 characters by combining '0' to 'F' and 'X'
(bit 8 is the R/W bit)

Example :SEARCH1:I2CBUS:SETUP:ADATa:
BIT10ADDRESS:HEXA " 5DF"

:SEARCh<x>:I2CBus[:SETup]:ADATa: BIT10address:PATtern

Function Sets the 10-bit address of the I²C bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>:I2CBus[:SETup]:ADATa:
BIT10address:PATtern {<String>}
:SEARCh<x>:I2CBus[:SETup]:ADATa:
BIT10address:PATtern?
<x> = 1 or 2
<String> = 11 characters by combining '0', '1', and 'X'
(bit 8 is the R/W bit)

Example :SEARCH1:I2CBUS:SETUP:ADATa:
BIT10ADDRESS:PATTERN " 10111011111"
:SEARCH1:I2CBUS:SETUP:ADATa:
BIT10ADDRESS:PATTERN?
-> :SEARCH1:I2CBUS:SETUP:ADATa:
BIT10ADDRESS:PATTERN " 10111011111"

:SEARCh<x>:I2CBus[:SETup]:ADATa: BIT7Address?

Function Queries all settings related to the 7-bit address of the I²C bus signal search.

Syntax :SEARCh<x>:I2CBus[:SETup]:ADATa:
BIT7Address?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:ADATa:
BIT7ADDRESS?
-> :SEARCH1:I2CBUS:SETUP:ADATa:
BIT7ADDRESS:PATTERN " 11011110"

:SEARCh<x>:I2CBus[:SETup]:ADATa: BIT7Address:HEXA

Function Sets the 7-bit address of the I²C bus signal search in hexadecimal notation.

Syntax :SEARCh<x>:I2CBus[:SETup]:ADATa:
BIT7Address:HEXA {<String>}
<x> = 1 or 2
<String> = 2 characters by combining '0' to 'F' and 'X'
(bit 0 is the R/W bit)

Example :SEARCH1:I2CBUS:SETUP:ADATa:
BIT7ADDRESS:HEXA " DE"

**: SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7Address : PATtern**

Function Sets the 7-bit address of the I²C bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7Address: PATtern {<String>}
: SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7Address: PATtern?
<x> = 1 or 2
<String> = 8 characters by combining '0', '1', and 'X'
(bit 0 is the R/W bit)

Example :SEARCH1: I2CBUS: SETUP: ADATA:
BIT7ADDRESS: PATTERN " 11011110"
:SEARCH1: I2CBUS: SETUP: ADATA:
BIT7ADDRESS: PATTERN?
-> :SEARCH1: I2CBUS: SETUP: ADATA:
BIT7ADDRESS: PATTERN " 11011110"

**: SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7APsub?**

Function Queries all settings related to the 7-bit + Sub address of the I²C bus signal search.

Syntax :SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7APsub?
<x> = 1 or 2

Example :SEARCH1: I2CBUS: SETUP: ADATA: BIT7APSUB?
-> :SEARCH1: I2CBUS: SETUP: ADATA:
BIT7APSUB: ADDRESS: PATTERN " 11001101";
:SEARCH1: I2CBUS: SETUP: ADATA: BIT7APSUB:
SADDRESS: PATTERN " 11101111"

**: SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7APsub : ADDRESS?**

Function Queries all settings related to the 7-bit address of the 7-bit + Sub address of the I²C bus signal search.

Syntax :SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7APsub: ADDRESS?
<x> = 1 or 2

Example :SEARCH1: I2CBUS: SETUP: ADATA: BIT7APSUB:
ADDRESS?
-> :SEARCH1: I2CBUS: SETUP: ADATA:
BIT7APSUB: ADDRESS: PATTERN " 11001101"

**: SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7APsub : ADDRESS : HEXA**

Function Sets the 7-bit address of the 7-bit + Sub address of the I²C bus signal search in hexadecimal notation.

Syntax :SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7APsub: ADDRESS: HEXA {<String>}
<x> = 1 or 2
<String> = 2 characters by combining '0' to 'F' and 'X'
(bit 0 is the R/W bit)

Example :SEARCH1: I2CBUS: SETUP: ADATA: BIT7APSUB:
ADDRESS: HEXA " CD"

**: SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7APsub : ADDRESS : PATtern**

Function Sets the 7-bit address of the 7-bit + Sub address of the I²C bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7APsub: ADDRESS: PATtern {<String>}
: SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7APsub: ADDRESS: PATtern?
<x> = 1 or 2
<String> = 8 characters by combining '0', '1', and 'X'
(bit 0 is the R/W bit)

Example :SEARCH1: I2CBUS: SETUP: ADATA: BIT7APSUB:
ADDRESS: PATTERN " 11001101"
:SEARCH1: I2CBUS: SETUP: ADATA: BIT7APSUB:
ADDRESS: PATTERN?
-> :SEARCH1: I2CBUS: SETUP: ADATA:
BIT7APSUB: ADDRESS: PATTERN " 11001101"

**: SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7APsub : SADDRESS?**

Function Queries all settings related to the Sub address of the 7-bit + Sub address of the I²C bus signal search.

Syntax :SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7APsub: SADDRESS?
<x> = 1 or 2

Example :SEARCH1: I2CBUS: SETUP: ADATA: BIT7APSUB:
SADDRESS?
-> :SEARCH1: I2CBUS: SETUP: ADATA:
BIT7APSUB: SADDRESS: PATTERN " 11101111"

**: SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7APsub : SADDRESS : HEXA**

Function Sets the Sub address of the 7-bit + Sub address of the I²C bus signal search in hexadecimal notation.

Syntax :SEARCh<x>: I2Cbus [: SETUp] : ADATa :
BIT7APsub: SADDRESS: HEXA {<String>}
<x> = 1 or 2
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :SEARCH1: I2CBUS: SETUP: ADATA: BIT7APSUB:
SADDRESS: HEXA " EF"

7.4 SEARCh Group

:SEARCh<x>:I2CBus[:SETup]:ADATa:BIT7APsub:SADdResS:PATtern

Function Sets the Sub address of the 7-bit + Sub address of the I²C bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>:I2CBus[:SETup]:ADATa:
BIT7APsub:SADdResS:PATtern {<String>}
:SEARCh<x>:I2CBus[:SETup]:ADATa:
BIT7APsub:SADdResS:PATtern?
<x> = 1 or 2
<String> = 8 characters by combining '0','1,' and 'X'

Example :SEARCH1:I2CBUS:SETUP:ADATA:BIT7APSUB:
SADDRESS:PATTERN " 11101111"
:SEARCH1:I2CBUS:SETUP:ADATA:BIT7APSUB:
SADDRESS:PATTERN?
-> :SEARCH1:I2CBUS:SETUP:ADATA:
BIT7APSUB:SADDRESS:PATTERN " 11101111"

:SEARCh<x>:I2CBus[:SETup]:ADATa:TYPE

Function Sets the address type of the I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:I2CBus[:SETup]:ADATa:
TYPE {BIT10address|BIT7Address|
BIT7APsub}
:SEARCh<x>:I2CBus[:SETup]:ADATa:TYPE?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:ADATA:
TYPE BIT10ADDRESS
:SEARCH1:I2CBUS:SETUP:ADATA:TYPE?
-> :SEARCH1:I2CBUS:SETUP:ADATA:
TYPE BIT10ADDRESS

:SEARCh<x>:I2CBus[:SETup]:DATA?

Function Queries all settings related to the data of the I²C bus signal search.

Syntax :SEARCh<x>:I2CBus[:SETup]:DATA?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:DATA?
-> :SEARCH1:I2CBUS:SETUP:DATA:BYTE 1;
CONDITION TRUE;DPOSITION 0;MODE 0;
PATTERN1 " 10101011";
PATTERN2 " 10101011";
PATTERN3 " 10101011";
PATTERN4 " 10101011";PMODE DONTCARE

:SEARCh<x>:I2CBus[:SETup]:DATA:BYTE

Function Sets the number of data bytes of the I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:I2CBus[:SETup]:DATA:
BYTE {<Nrf>}
:SEARCh<x>:I2CBus[:SETup]:DATA:BYTE?
<x> = 1 or 2
<Nrf> = 1 to 4

Example :SEARCH1:I2CBUS:SETUP:DATA:BYTE 1
:SEARCH1:I2CBUS:SETUP:DATA:BYTE?
-> :SEARCH1:I2CBUS:SETUP:DATA:BYTE 1

:SEARCh<x>:I2CBus[:SETup]:DATA:CONDition

Function Sets the determination method (match or not match) of the data of the I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:I2CBus[:SETup]:DATA:
CONDition {FALSE|TRUE}
:SEARCh<x>:I2CBus[:SETup]:DATA:
CONDition?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:DATA:
CONDITION TRUE
:SEARCH1:I2CBUS:SETUP:DATA:
CONDITION?
-> :SEARCH1:I2CBUS:SETUP:DATA:
CONDITION TRUE

:SEARCh<x>:I2CBus[:SETup]:DATA:DPOsition

Function Sets the position for comparing the data pattern of the I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:I2CBus[:SETup]:DATA:
DPOsition {<Nrf>}
:SEARCh<x>:I2CBus[:SETup]:DATA:
DPOsition?
<x> = 1 or 2
<Nrf> = 0 to 9999

Example :SEARCH1:I2CBUS:SETUP:DATA:DPOSITION 1
:SEARCH1:I2CBUS:SETUP:DATA:
DPOSITION?
-> :SEARCH1:I2CBUS:SETUP:DATA:
DPOSITION 1

:SEARCh<x>:I2CBus[:SETup]:DATA:HEXA<x>

Function Sets the data of the I²C bus signal search in hexadecimal notation.

Syntax :SEARCh<x>:I2CBus[:SETup]:DATA:
HEXA<x> {<String>}
<x> of SEARCh<x> = 1 or 2
<x> of HEXA<x> = 1 to 4
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:I2CBUS:SETUP:DATA:HEXA1 " AB"

:SEARCh<x>:I2CBus[:SETup]:DATA:MODE

Function Enables/Disables the data conditions of the I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:I2CBus[:SETup]:DATA:
MODE {<Boolean>}
:SEARCh<x>:I2CBus[:SETup]:DATA:MODE?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:DATA:MODE ON
:SEARCH1:I2CBUS:SETUP:DATA:MODE?
-> :SEARCH1:I2CBUS:SETUP:DATA:MODE 1

: SEARCh<x>: I2CBus [: SETUp] : DATA: PATTErn<x>

Function Sets the data of the I²C bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>: I2CBus [:SETUp] :DATA: PATTErn<x> {<String>}
:SEARCh<x>: I2CBus [:SETUp] :DATA: PATTErn<x>?
<x> of SEARCh<x> = 1 or 2
<x> of <PATTErn x> = 1 to 4
<String> = 8 characters by combining '0,' '1,' and 'X'

Example :SEARCH1: I2CBUS: SETUP: DATA: PATTERN1 " 10101011"
:SEARCH1: I2CBUS: SETUP: DATA: PATTERN1?
-> :SEARCH1: I2CBUS: SETUP: DATA: PATTERN1 " 10101011"

: SEARCh<x>: I2CBus [: SETUp] : DATA: PMode

Function Sets the pattern comparison start position mode of the data of the I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>: I2CBus [:SETUp] :DATA: PMode {DONTcare|SElect}
:SEARCh<x>: I2CBus [:SETUp] :DATA: PMode?
<x> = 1 or 2

Example :SEARCH1: I2CBUS: SETUP: DATA: PMODE DONTCARE
:SEARCH1: I2CBUS: SETUP: DATA: PMODE?
-> :SEARCH1: I2CBUS: SETUP: DATA: PMODE DONTCARE

: SEARCh<x>: I2CBus [: SETUp] : DATA: TRACe

Function Sets the trace of the data of the I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>: I2CBus [:SETUp] :DATA: TRACe {<Nrf>}
:SEARCh<x>: I2CBus [:SETUp] :DATA: TRACe?
<x> = 1 or 2

Example :SEARCH1: I2CBUS: SETUP: DATA: :TRACe 1
:SEARCH1: I2CBUS: SETUP: DATA: TRACe?
-> :SEARCH1: I2CBUS: SETUP: DATA: :TRACe 1

: SEARCh<x>: I2CBus [: SETUp] : GCALl?

Function Queries all settings related to the general call of the I²C bus signal search.

Syntax :SEARCh<x>: I2CBus [:SETUp] :GCALl?
<x> = 1 or 2

Example :SEARCH1: I2CBUS: SETUP: GCALL?
-> :SEARCH1: I2CBUS: SETUP: GCALL: BIT7MADDRESS: PATTERN " 10101011"; :SEARCH1: I2CBUS: SETUP: GCALL: SBYTE BIT7MADDRESS

: SEARCh<x>: I2CBus [: SETUp] : GCALl: BIT7maddress?

Function Queries all settings related to the 7-bit master address of the general call of the I²C bus signal search.

Syntax :SEARCh<x>: I2CBus [:SETUp] :GCALl: BIT7maddress?
<x> = 1 or 2

Example :SEARCH1: I2CBUS: SETUP: GCALL: BIT7MADDRESS?
-> :SEARCH1: I2CBUS: SETUP: GCALL: BIT7MADDRESS: PATTERN " 10101011"

: SEARCh<x>: I2CBus [: SETUp] : GCALl: BIT7maddress: HEXA

Function Sets the 7-bit master address of the general call of the I²C bus signal search in hexadecimal notation.

Syntax :SEARCh<x>: I2CBus [:SETUp] :GCALl: BIT7maddress: HEXA {<String>}
<x> = 1 or 2
<String> = 2 characters by combining '0' to 'F' and 'X' (bit 0 is fixed 1)

Example :SEARCH1: I2CBUS: SETUP: GCALL: BIT7MADDRESS: HEXA " BA"

: SEARCh<x>: I2CBus [: SETUp] : GCALl: BIT7maddress: PATTErn

Function Sets the 7-bit master address of the general call of the I²C bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>: I2CBus [:SETUp] :GCALl: BIT7maddress: PATTErn {<String>}
:SEARCh<x>: I2CBus [:SETUp] :GCALl: BIT7maddress: PATTErn?
<x> = 1 or 2
<String> = 7 characters by combining '0,' '1,' and 'X'

Example :SEARCH1: I2CBUS: SETUP: GCALL: BIT7MADDRESS: PATTERN " 10101011"
:SEARCH1: I2CBUS: SETUP: GCALL: BIT7MADDRESS: PATTERN?
-> :SEARCH1: I2CBUS: SETUP: GCALL: BIT7MADDRESS: PATTERN " 10101011"

: SEARCh<x>: I2CBus [: SETUp] : GCALl: SBYTe (Second Byte)

Function Sets the second byte type of the general call of the I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>: I2CBus [:SETUp] :GCALl: SBYTe {BIT7maddress|DONTcare|H04|H06}
:SEARCh<x>: I2CBus [:SETUp] :GCALl: SBYTe?
<x> = 1 or 2

Example :SEARCH1: I2CBUS: SETUP: GCALL: SBYTE BIT7MADDRESS
:SEARCH1: I2CBUS: SETUP: GCALL: SBYTE?
-> :SEARCH1: I2CBUS: SETUP: GCALL: SBYTE BIT7MADDRESS

7.4 SEARCh Group

:SEARCh<x>:I2CBus[:SETup]:MODE

Function Sets the search mode of the I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:I2CBus[:SETup]:
MODE {ADATa|ESTart|GCAL1|NAIGNore|
SBHSMode}
:SEARCh<x>:I2CBus[:SETup]:MODE?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:MODE ADATA
:SEARCH1:I2CBUS:SETUP:MODE?
-> :SEARCH1:I2CBUS:SETUP:MODE ADATA

:SEARCh<x>:I2CBus[:SETup]:NAIGNore?

Function Queries all settings related to the NON ACK ignore mode of the I²C bus signal search.

Syntax :SEARCh<x>:I2CBus[:SETup]:NAIGNore?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:NAIGNORE?
-> :SEARCH1:I2CBUS:SETUP:NAIGNORE:
HSMODE 1;RACCESS 1;SBYTE 1

:SEARCh<x>:I2CBus[:SETup]:NAIGNore: HSMode

Function Sets whether to ignore NON ACK in high speed mode of the I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:I2CBus[:SETup]:NAIGNore:
HSMode {<Boolean>}
:SEARCh<x>:I2CBus[:SETup]:NAIGNore:
HSMode?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:NAIGNORE:
HSMODE ON
:SEARCH1:I2CBUS:SETUP:NAIGNORE:HSMODE?
-> :SEARCH1:I2CBUS:SETUP:NAIGNORE:
HSMODE 1

:SEARCh<x>:I2CBus[:SETup]:NAIGNore: RACCEss

Function Sets whether to ignore NON ACK in read access mode of the I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:I2CBus[:SETup]:NAIGNore:
RACCEss {<Boolean>}
:SEARCh<x>:I2CBus[:SETup]:NAIGNore:
RACCEss?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:NAIGNORE:
RACCESS ON
:SEARCH1:I2CBUS:SETUP:NAIGNORE:
RACCESS?
-> :SEARCH1:I2CBUS:SETUP:NAIGNORE:
RACCESS 1

:SEARCh<x>:I2CBus[:SETup]:NAIGNore: SBYTE(Start Byte)

Function Sets whether to ignore NON ACK in the start byte of the I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:I2CBus[:SETup]:NAIGNore:
SBYTE {<Boolean>}
:SEARCh<x>:I2CBus[:SETup]:NAIGNore:
SBYTE?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:NAIGNORE:SBYTE ON
:SEARCH1:I2CBUS:SETUP:NAIGNORE:
SBYTE?
-> :SEARCH1:I2CBUS:SETUP:NAIGNORE:
SBYTE 1

:SEARCh<x>:I2CBus[:SETup]:SBHSMode?

Function Queries all settings related to the start byte and high speed mode of the I²C bus signal search.

Syntax :SEARCh<x>:I2CBus[:SETup]:SBHSMode?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:SBHSMODE?
-> :SEARCH1:I2CBUS:SETUP:SBHSMODE:
TYPE HSMODE

:SEARCh<x>:I2CBus[:SETup]:SBHSMode: TYPE

Function Sets the type of the start byte or high speed mode of the I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:I2CBus[:SETup]:SBHSMode:
TYPE {HSMode|SBYTE}
:SEARCh<x>:I2CBus[:SETup]:SBHSMode:
TYPE?
<x> = 1 or 2

Example :SEARCH1:I2CBUS:SETUP:SBHSMODE:
TYPE HSMODE
:SEARCH1:I2CBUS:SETUP:SBHSMODE:TYPE?
-> :SEARCH1:I2CBUS:SETUP:SBHSMODE:
TYPE HSMODE

: SEARCh<x>: LINBus?

Function Queries all settings related to the LIN bus signal search or queries the current setting.

Syntax SEARCh<x>:LINBus?
<x>=1 or 2

Example :SEARCH1:LINBUS?
-> :SEARCH1:LINBUS:SETUP:BLENGTH 11;
BRATE 19200;DATA:BORDER BIG;BNUM 8;
CONDITION TRUE;DATA1 0.0000000E+00;
DATA2 127.000000E+00;MSBLSB 7,0;
PATTERN "XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
;SIGN SIGN;:SEARCH1:LINBUS:SETUP:ERROR:
CHECKSUM 0;FRAMING 0;PARITY 0;
SYNCH 0;TOUT 0;:SEARCH1:LINBUS:SETUP:
ID:PATTERN "XXXXXX";:SEARCH1:LINBUS:
SETUP:MODE IDDATA;REVISION LIN2_0;
SPOINT 50.0E+00;TRACE 1

: SEARCh<x>: LINBus [: SETUp] ?

Function Queries all settings related to setup of the LIN bus signal search or queries the current setting.

Syntax SEARCh<x>:LINBus [:SETUp] ?
<x>=1 or 2

Example :SEARCH1:LINBUS:SETUP?
-> :SEARCH1:LINBUS:SETUP:BLENGTH 11;
BRATE 19200;DATA:BORDER BIG;BNUM 8;
CONDITION TRUE;DATA1 0.0000000E+00;
DATA2 127.000000E+00;MSBLSB 7,0;
PATTERN "XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
;SIGN SIGN;:SEARCH1:LINBUS:SETUP:ERROR:
CHECKSUM 0;FRAMING 0;PARITY 0;
SYNCH 0;TOUT 0;:SEARCH1:LINBUS:SETUP:
ID:PATTERN "XXXXXX";:SEARCH1:LINBUS:
SETUP:MODE IDDATA;REVISION LIN2_0;
SPOINT 50.0E+00;TRACE 1

: SEARCh<x>: LINBus [: SETUp] : BLENgth

Function Sets the LIN bus signal search break length or queries the current setting.

Syntax :SEARCh<x>:LINBus [:SETUp] :
BLENgth {<Nrf>}
:SEARCh<x>:LINBus [:SETUp] :BLENgth?
<x> = 1 or 2
<Nrf> = 10 to 13

Example :SEARCH1:LINBUS:SETUP:BLENGTH 10
:SEARCH1:LINBUS:SETUP:BLENGTH?
-> :SEARCH1:LINBUS:SETUP:BLENGTH 1

: SEARCh<x>: LINBus [: SETUp] : BRATe

Function Sets the LIN bus signal search bitrate (data transfer rate) or queries the current setting.

Syntax :SEARCh<x>:LINBus [:SETUp] :BRATe {<Nrf>|
USER,<Nrf>}
:SEARCh<x>:LINBus [:SETUp] :BRATe?
<x>=1 or 2
<Nrf>=1200, 2400, 4800, 9600, 19200
USER <Nrf>=See section 5.4.

Example :SEARCH1:LINBUS:SETUP:BRATE 19200
:SEARCH1:LINBUS:SETUP:BRATE?
-> :SEARCH1:LINBUS:SETUP:BRATE 19200

: SEARCh<x>: LINBus [: SETUp] : DATA?

Function Queries all settings related to data of the LIN bus signal search or queries the current setting.

Syntax :SEARCh<x>:LINBus [:SETUp] :DATA?
<x>=1 or 2

Example :SEARCH1:LINBUS:SETUP:DATA?
-> :SEARCH1:LINBUS:SETUP:DATA:
BORDER BIG;BNUM 8;CONDITION DONTCARE;
DATA1 0.0000000E+00;
DATA2 127.000000E+00;MSBLSB 7,0;
PATTERN "XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX";
SIGN SIGN

: SEARCh<x>: LINBus [: SETUp] : DATA : BNUM

Function Sets the number of LIN bus signal search data bytes or queries the current setting.

Syntax :SEARCh<x>:LINBus [:SETUp] :DATA:
BNUM {<Nrf>}
:SEARCh<x>:LINBus [:SETUp] :DATA:BNUM?
<x>=1 or 2
<Nrf>=1-8

Example :SEARCH1:LINBUS:SETUP:DATA:BNUM 1
:SEARCH1:LINBUS:SETUP:DATA:BNUM?
-> :SEARCH1:LINBUS:SETUP:DATA:BNUM 1

: SEARCh<x>: LINBus [: SETUp] : DATA : BORDER

Function Sets the data byte order of the LIN bus signal search or queries the current setting.

Syntax :SEARCh<x>:LINBus [:SETUp] :DATA:
BORDER {BIG|LITtle}
:SEARCh<x>:LINBus [:SETUp] :DATA:BORDER?
<x> = 1 or 2

Example :SEARCH1:LINBUS:SETUP:DATA:BORDER BIG
:SEARCH1:LINBUS:SETUP:DATA:BORDER? ->
:SEARCH1:LINBUS:SETUP:DATA:BORDER BIG

7.4 SEARCh Group

:SEARCh<x>:LINBus[:SETup]:DATA:CONDition

Function Sets the LIN bus signal search data or queries the current setting.

Syntax :SEARCh<x>:LINBus[:SETup]:DATA:
CONDition {BETWeen|DONTcare|FALSE|
GTHan|LTHan|ORANge|TRUE}
:SEARCh<x>:LINBus[:SETup]:DATA:
CONDition?
<x>=1 or 2

Example :SEARCH1:LINBUS:SETUP:DATA:
CONDITION DONTCARE
:SEARCH1:LINBUS:SETUP:DATA:CONDITION?
-> :SEARCH1:LINBUS:SETUP:DATA:
CONDITION DONTCARE

:SEARCh<x>:LINBus[:SETup]:DATA:DATA<x>

Function Sets the comparison data of the LIN bus signal search data or queries the current setting.

Syntax :SEARCh<x>:LINBus[:SETup]:DATA:
DATA<x> {<Nrf>}
:SEARCh<x>:LINBus[:SETup]:DATA:DATA<x>?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<Nrf> = See section 5.4.

Example :SEARCH1:LINBUS:SETUP:DATA:DATA1 1
:SEARCH1:LINBUS:SETUP:DATA:DATA1?
-> :SEARCH1:LINBUS:SETUP:DATA:
DATA1 1.0000000E+00

Description

- For :SEARCh<x>:LINBus[:SETup]:DATA:CONDition GTHan, set using: SEARCh<x>:LINBus[:SETup]:DATA:DATA1.
- For :SEARCh<x>:LINBus[:SETup]:DATA:CONDition LTHan, set using: SEARCh<x>:LINBus[:SETup]:DATA:DATA2.
- For :SEARCh<x>:LINBus[:SETup]:DATA:CONDition BETWeen|ORANge, set small values with: SEARCh<x>:LINBus[:SETup]:DATA:DATA1, and large values with: SEARCh<x>:LINBus[:SETup]:DATA:DATA2.

:SEARCh<x>:LINBus[:SETup]:DATA:HEXA

Function Sets the LIN bus signal search data in hexadecimal.

Syntax :SEARCh<x>:LINBus[:SETup]:DATA:
HEXA {<string>}
<x>=1 or 2
<string>=Combination of up to 16 hex characters ('0'
- 'F' and 'X') (changed with the BNUM setting)

Example :SEARCH1:LINBUS:SETUP:DATA:HEXA "3B"

:SEARCh<x>:LINBus[:SETup]:DATA:MSBLsb

Function Sets the MSB/LSB bit of the LIN bus signal search or queries the current setting.

Syntax :SEARCh<x>:LINBus[:SETup]:DATA:
MSBLsb {<Nrf>,<Nrf>}
:SEARCh<x>:LINBus[:SETup]:DATA:MSBLsb?
<x> = 1 or 2
<Nrf> = See section 5.4.

Example :SEARCH1:LINBUS:SETUP:DATA:MSBLSB 1,0
:SEARCH1:LINBUS:SETUP:DATA:MSBLSB? ->
:SEARCH1:LINBUS:SETUP:DATA:MSBLSB 1,0

:SEARCh<x>:LINBus[:SETup]:DATA:PATtern

Function Sets the LIN bus signal search data in binary or queries the current setting.

Syntax :SEARCh<x>:LINBus[:SETup]:DATA:
PATtern {<string>}
:SEARCh<x>:LINBus[:SETup]:DATA:PATtern?
<x>=1 or 2
<string>=Combination of up to 64 characters ('0','1,'
and 'X') (changed with the BNUM setting)

Example :SEARCH1:LINBUS:SETUP:DATA:
PATTERN "11011111"
:SEARCH1:LINBUS:SETUP:DATA:PATTERN?
-> :SEARCH1:LINBUS:SETUP:DATA:
PATTERN "11011111"

:SEARCh<x>:LINBus[:SETup]:DATA:SIGN

Function Sets the sign order of the LIN bus signal search or queries the current setting.

Syntax :SEARCh<x>:LINBus[:SETup]:DATA:
SIGN {SIGN|UNSign}
:SEARCh<x>:LINBus[:SETup]:DATA:SIGN?
<x> = 1 or 2

Example :SEARCH1:LINBUS:SETUP:DATA:SIGN SIGN
:SEARCH1:LINBUS:SETUP:DATA:SIGN? ->
:SEARCH1:LINBUS:SETUP:DATA:SIGN SIGN

:SEARCh<x>:LINBus[:SETup]:ERROR?

Function Queries all settings related to the LIN bus signal search error.

Syntax :SEARCh<x>:LINBus[:SETup]:ERROR?
<x> = 1 or 2

Example :SEARCH1:LINBUS:SETUP:ERROR? ->
:SEARCH1:LINBUS:SETUP:ERROR:CHECKSUM
1;FRAMING 1;PARITY 1;SYNCH 1;TOUT 1

: SEARCh<x>: LINBus [: SETUp] : ERROr : CHECksum

Function Sets the LIN bus signal search Checksum error or queries the current setting.

Syntax :SEARCh<x>:LINBus [:SETUp] :ERROr:
CHECksum {<Boolean>}
:SEARCh<x>:LINBus [:SETUp] :ERROr:
CHECksum?
<x> = 1 or 2

Example :SEARCH1:LINBUS:SETUP:ERROR:CHECKSUM ON
:SEARCH1:LINBUS:SETUP:ERROR:CHECKSUM?
-> :SEARCH1:LINBUS:SETUP:ERROR:
CHECKSUM 1

: SEARCh<x>: LINBus [: SETUp] : ERROr : FRAMing

Function Sets the LIN bus signal search Framing error or queries the current setting.

Syntax :SEARCh<x>:LINBus [:SETUp] :ERROr:
FRAMing {<Boolean>}
:SEARCh<x>:LINBus [:SETUp] :ERROr:
FRAMing?
<x> = 1 or 2

Example :SEARCH1:LINBUS:SETUP:ERROR:FRAMING ON
:SEARCH1:LINBUS:SETUP:ERROR:FRAMING? ->
:SEARCH1:LINBUS:SETUP:ERROR:FRAMING 1

: SEARCh<x>: LINBus [: SETUp] : ERROr : PARity

Function Sets the LIN bus signal search Parity error or queries the current setting.

Syntax :SEARCh<x>:LINBus [:SETUp] :ERROr:
PARity {<Boolean>}
:SEARCh<x>:LINBus [:SETUp] :ERROr:PARity?
<x> = 1 or 2

Example :SEARCH1:LINBUS:SETUP:ERROR:PARITY ON
:SEARCH1:LINBUS:SETUP:ERROR:PARITY? ->
:SEARCH1:LINBUS:SETUP:ERROR:PARITY 1

: SEARCh<x>: LINBus [: SETUp] : ERROr : SYNCh

Function Sets the LIN bus signal search Synch error or queries the current setting.

Syntax :SEARCh<x>:LINBus [:SETUp] :ERROr:
SYNCh {<Boolean>}
:SEARCh<x>:LINBus [:SETUp] :ERROr:SYNCh?
<x> = 1 or 2

Example :SEARCH1:LINBUS:SETUP:ERROR:SYNCH ON
:SEARCH1:LINBUS:SETUP:ERROR:SYNCH? ->
:SEARCH1:LINBUS:SETUP:ERROR:SYNCH 1

: SEARCh<x>: LINBus [: SETUp] : ERROr : TOUT

Function Sets the LIN bus signal search Timeout error or queries the current setting.

Syntax :SEARCh<x>:LINBus [:SETUp] :ERROr:
TOUT {<Boolean>}
:SEARCh<x>:LINBus [:SETUp] :ERROr:TOUT?
<x> = 1 or 2

Example :SEARCH1:LINBUS:SETUP:ERROR:TOUT ON
:SEARCH1:LINBUS:SETUP:ERROR:TOUT? ->
:SEARCH1:LINBUS:SETUP:ERROR:TOUT 1

: SEARCh<x>: LINBus [: SETUp] : ID?

Function Queries all settings related to ID of the LIN bus signal search or queries the current setting.

Syntax :SEARCh<x>:LINBus [:SETUp] : ID?
<x>=1 or 2

Example :SEARCH1:LINBUS:SETUP:ID?
-> :SEARCH1:LINBUS:SETUP:ID:
PATTERN "101111"

: SEARCh<x>: LINBus [: SETUp] : ID : HEXA

Function Sets the LIN bus signal search ID in hexadecimal.

Syntax :SEARCh<x>:LINBus [:SETUp] : ID:
HEXA {<string>}
<x>=1 or 2
<string>=Combination of up to 2 characters ('0'-'F'
and 'X')

Example :SEARCH1:LINBUS:SETUP:ID:HEXA "2A"

: SEARCh<x>: LINBus [: SETUp] : ID : PATtern

Function Sets the LIN bus signal search ID in binary or queries the current setting.

Syntax :SEARCh<x>:LINBus [:SETUp] : ID:
PATtern {<string>}
:SEARCh<x>:LINBus [:SETUp] : ID:PATtern?
<x>=1 or 2
<string>=Combination of up to 6 characters ('0','1',
and 'X')

Example :SEARCH1:LINBUS:SETUP:ID:
PATTERN "101111"
:SEARCH1:LINBUS:SETUP:ID:PATTERN?
-> :SEARCH1:LINBUS:SETUP:ID:
PATTERN "101111"

: SEARCh<x>: LINBus [: SETUp] : MODE

Function Sets the LIN bus signal search mode or queries the current setting.

Syntax SEARCh<x>:LINBus [:SETUp] :MODE {IDData|
SYNCh}
:SEARCh<x>:LINBus [:SETUp] :MODE?
<x>=1 or 2

Example :SEARCH1:LINBUS:SETUP:MODE IDDATA
:SEARCH1:LINBUS:SETUP:MODE?
-> :SEARCH1:LINBUS:SETUP:MODE IDDATA

7.4 SEARCh Group

:SEARCh<x>:LINBus[:SETup]:REVision

Function Sets the LIN bus signal search revision (1.3, 2.0, or Both) or queries the current setting.

Syntax :SEARCh<x>:LINBus[:SETup]:
REVision {BOTH|LIN1_3|LIN2_0}
:SEARCh<x>:LINBus[:SETup]:REVision?
<x> = 1 or 2

Example :SEARCH1:LINBUS:SETUP:REVISION LIN1_3
:SEARCH1:LINBUS:SETUP:REVISION? ->
:SEARCH1:LINBUS:SETUP:REVISION LIN1_3

:SEARCh<x>:LINBus[:SETup]:SPOint

Function Sets the LIN bus signal search sampling point or queries the current setting.

Syntax :SEARCh<x>:LINBus[:SETup]:
SPOint {<NRf>}
:SEARCh<x>:LINBus[:SETup]:SPOint?
<x> = 1 or 2
<NRf> = 18.8 to 90.6(%)

Example :SEARCH1:LINBUS:SETUP:SPOINT 18.8
:SEARCH1:LINBUS:SETUP:SPOINT? ->
:SEARCH1:LINBUS:SETUP:SPOINT 18.8E+00

:SEARCh<x>:LINBus[:SETup]:TRACe

Function Sets the LIN bus signal search trace or queries the current setting.

Syntax :SEARCh<x>:LINBus[:SETup]:TRACe {<NRf>}
:SEARCh<x>:LINBus[:SETup]:TRACe?
<x>=1 or 2
<NRf>=1-8

Example :SEARCH1:LINBUS:SETUP:TRACE 1
:SEARCH1:LINBUS:SETUP:TRACE?
-> :SEARCH1:LINBUS:SETUP:TRACE 1

:SEARCh<x>:SLOGic:I2CBus?

Function Queries all settings related to the logic I²C bus signal search.

Syntax :SEARCh<x>:SLOGic:I2CBus?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS? -> :SEARCH1:
SLOGIC:I2CBUS:CLOCK:SOURCE A0;:SEARCH1:
SLOGIC:I2CBUSSETUP:ADATA:BIT10ADDRESS:
PATTERN "10111011111";:SEARCH1:SLOGIC:
I2CBUS:SETUP:ADATA:BIT7ADDRESS:
PATTERN "11011110";:SEARCH1:SLOGIC:
I2CBUS:SETUP:ADATA:BIT7APSUB:ADDRESS:
PATTERN "11001101";:SEARCH1:SLOGIC:
I2CBUS:SETUP:ADATA:BIT7APSUB:SADDRESS:
PATTERN "11101111";:SEARCH1:SLOGIC:
I2CBUS:SETUP:ADATA:TYPE BIT10ADDRESS;:
SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
BYTE 1;CONDITION FALSE;DPOSITION 1;
MODE 1;PATTERN1 "10101011";
PATTERN2 "XXXXXXXX";
PATTERN3 "XXXXXXXX";
PATTERN4 "XXXXXXXX";PMODE DONTCARE;
TRACE A0;:SEARCH1:SLOGIC:I2CBUS:SETUP:
GCALL:BIT7MADDRESS:PATTERN "1010101";:
SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL:
SBYTE BIT7MADDRESS;:SEARCH1:SLOGIC:
I2CBUS:SETUP:MODE ADATA;NAIGNORE:
HSMODE 1;RACCESS 1;SBYTE 1;:SEARCH1:
SLOGIC:I2CBUS:SETUP:SBHSMODE:
TYPE HSMODE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus:CLOCK?

Function Queries all settings related to the clock channel of the logic I²C bus signal search.

Syntax :SEARCh<x>:SLOGic:I2CBus:CLOCK?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:
CLOCK? -> :SEARCH1:SLOGIC:I2CBUS:CLOCK:
SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: I2CBus: CLOck: SOURce

Function Sets the clock channel of the logic I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus:CLOck:SOURce {A<y>|B<y>|C<y>|D<y>} :SEARCh<x>:SLOGic:I2CBus:CLOck:SOURce? <x> = 1 or 2 <y> = 0 to 7

Example :SEARCH1:SLOGIC:I2CBUS:CLOCK:SOURCE A0 :SEARCH1:SLOGIC:I2CBUS:CLOCK:SOURCE? -> :SEARCH1:SLOGIC:I2CBUS:CLOCK:SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

: SEARCh<x>: SLOGic: I2CBus [:SETup] ?

Function Queries all settings related to the setup of the logic I²C bus signal search.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]? <x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT10ADDRESS: PATTERN " 10111011111"; :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7ADDRESS: PATTERN " 11011110"; :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:ADDRESS: PATTERN " 11001101"; :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:SADDRESS: PATTERN " 11101111"; :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:TYPE BIT10ADDRESS; :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA: BYTE 1;CONDITION FALSE;DPOSITION 1; MODE 1;PATTERN1 " 10101011"; PATTERN2 " XXXXXXXX"; PATTERN3 " XXXXXXXX"; PATTERN4 " XXXXXXXX";PMODE DONTCARE; TRACE A0; :SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL:BIT7MADDRESS:PATTERN " 1010101"; :SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL:SBYTE BIT7MADDRESS; :SEARCH1:SLOGIC:I2CBUS:SETUP:MODE ADATA;NAIGNORE: HSMODE 1;RACCESS 1;SBYTE 1; :SEARCH1:SLOGIC:I2CBUS:SETUP:SBHSMODE: TYPE HSMODE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: I2CBus [:SETup] : ADATa?

Function Queries all settings related to the address of the logic I²C bus signal search.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa? <x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATa? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATa:BIT10ADDRESS: PATTERN " 10111011111"; :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATa:BIT7ADDRESS: PATTERN " 11011110"; :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATa:BIT7APSUB:ADDRESS: PATTERN " 11001101"; :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATa:BIT7APSUB:SADDRESS: PATTERN " 11101111"; :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATa:TYPE BIT10ADDRESS

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: I2CBus [:SETup] : ADATa: BIT10address?

Function Queries all settings related to the 10-bit address of the logic I²C bus signal search.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT10address? <x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATa:BIT10ADDRESS? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATa:BIT10ADDRESS: PATTERN " 10111011111"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: I2CBus [:SETup] : ADATa: BIT10address: HEXA

Function Sets the 10-bit address of the logic I²C bus signal search in hexadecimal notation.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT10address:HEXA {<String>} <x> = 1 or 2 <String> = 3 characters by combining '0' to 'F' and 'X' (bit 8 is the R/W bit)

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATa:BIT10ADDRESS:HEXA " 5DF"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.4 SEARCh Group

:SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT10address:PATtern

Function Sets the 10-bit address of the logic I²C bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT10address:PATtern {<String>}
:SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT10address:PATtern?
<x> = 1 or 2
<String> = 11 characters by combining '0' to '1' and 'X' (bit 8 is the R/W bit)

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT10ADDRESS:PATTERN "10111011111"
:SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT10ADDRESS:PATTERN? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT10ADDRESS:PATTERN "10111011111"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT7Address?

Function Queries all settings related to the 7-bit address of the logic I²C bus signal search.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT7Address?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7ADDRESS? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7ADDRESS:PATTERN "11011110"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT7Address:HEXA

Function Sets the 7-bit address of the logic I²C bus signal search in hexadecimal notation.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT7Address:HEXA {<String>}
<x> = 1 or 2
<String> = 2 characters by combining '0' to 'F' and 'X' (bit 0 is the R/W bit)

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7ADDRESS:HEXA "DE"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT7Address:PATtern

Function Sets the 7-bit address of the logic I²C bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT7Address:PATtern {<String>}
:SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT7Address:PATtern?
<x> = 1 or 2
<String> = 8 characters by combining '0' to '1' and 'X' (bit 0 is the R/W bit)

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7ADDRESS:PATTERN "11011110"
:SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7ADDRESS:PATTERN? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7ADDRESS:PATTERN "11011110"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT7APsub?

Function Queries all settings related to the 7-bit address + Sub address of the logic I²C bus signal search.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT7APsub?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:ADDRESS:PATTERN "11001101"; :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:SADDRESS:PATTERN "11101111"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT7APsub:ADDRESS?

Function Queries all settings related to the 7-bit address + Sub address of the logic I²C bus signal search.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:ADATa:BIT7APsub:ADDRESS?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:ADDRESS? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:ADDRESS:PATTERN "11001101"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: I2CBus [: SETUp] :**ADATa: BIT7APsub: ADDRess: HEXA**

Function Queries all settings related to the 7-bit address of the 7-bit address + Sub address of the logic I²C bus signal search.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETUp]:ADATa:BIT7APsub:ADDRess:HEXA {<String>}
 <x> = 1 or 2
 <String> = 2 characters by combining '0' to 'F' and 'X' (bit 0 is the R/W bit)

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:ADDRESS:HEXA " CD"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: I2CBus [: SETUp] :**ADATa: BIT7APsub: ADDRess: PATTeRn**

Function Sets the 7-bit address of the 7-bit address + Sub address of the logic I²C bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETUp]:ADATa:BIT7APsub:ADDRess:PATTeRn {<String>}
 :SEARCh<x>:SLOGic:I2CBus[:SETUp]:ADATa:BIT7APsub:ADDRess:PATTeRn?
 <x> = 1 or 2
 <String> = 8 characters by combining '0' to '1' and 'X' (bit 0 is the R/W bit)

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:ADDRESS:PATTERN " 11001101"
 :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:ADDRESS:PATTERN? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:ADDRESS:PATTERN " 11001101"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: I2CBus [: SETUp] :**ADATa: BIT7APsub: SADDRess?**

Function Queries all settings related to the Sub address of the 7-bit address + Sub address of the logic I²C bus signal search.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETUp]:ADATa:BIT7APsub:SADDRess?
 <x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:SADDRESS? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:SADDRESS:PATTERN " 11101111"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: I2CBus [: SETUp] :**ADATa: BIT7APsub: SADDRess: HEXA**

Function Queries all settings related to the Sub address of the 7-bit address + Sub address of the logic I²C bus signal search.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETUp]:ADATa:BIT7APsub:SADDRess:HEXA {<String>}
 <x> = 1 or 2
 <String> = 2 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:SADDRESS:HEXA " EF"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: I2CBus [: SETUp] :**ADATa: BIT7APsub: SADDRess: PATTeRn**

Function Sets the Sub address of the 7-bit address + Sub address of the logic I²C bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETUp]:ADATa:BIT7APsub:SADDRess:PATTeRn {<String>}
 :SEARCh<x>:SLOGic:I2CBus[:SETUp]:ADATa:BIT7APsub:SADDRess:PATTeRn?
 <x> = 1 or 2
 <String> = 8 characters by combining '0' to '1' and 'X'

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:SADDRESS:PATTERN " 11101111"
 :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:SADDRESS:PATTERN? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:BIT7APSUB:SADDRESS:PATTERN " 11101111"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: I2CBus [: SETUp] :**ADATa: TYPE**

Function Sets the address type of the logic I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETUp]:ADATa:TYPE {BIT10address|BIT7Address|BIT7APsub}
 :SEARCh<x>:SLOGic:I2CBus[:SETUp]:ADATa:TYPE?
 <x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:TYPE BIT10ADDRESS
 :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:TYPE? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:ADATA:TYPE BIT10ADDRESS

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.4 SEARCh Group

:SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA?

Function Queries all settings related to the data of the logic I²C bus signal search.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:
DATA? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:
DATA:BYTE 1;CONDITION FALSE;
DPOSITION 1;MODE 1;PATTERN1 " 10101011";
PATTERN2 " XXXXXXXX";
PATTERN3 " XXXXXXXX";
PATTERN4 " XXXXXXXX";PMODE DONTCARE;
TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA:BYTE

Function Sets the number of setup data bytes of the logic I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA:
BYTE {<Nrf>}
:SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA:
BYTE?
<x> = 1 or 2
<Nrf> = 1 to 4

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
BYTE 1
:SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
BYTE? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:
DATA:BYTE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA:CONDition

Function Sets the determination method (match or not match) of the data of the logic I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA:
CONDition {FALSE|TRUE}
:SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA:
CONDition?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
CONDITION FALSE
:SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
CONDITION? -> :SEARCH1:SLOGIC:I2CBUS:
SETUP:DATA:CONDITION FALSE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA:DPOSITION

Function Sets the position for comparing the data pattern of the logic I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA:
DPOSITION {<Nrf>}
:SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA:
DPOSITION?
<x> = 1 or 2
<Nrf> = 0 to 9999

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
DPOSITION 1
:SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
DPOSITION? -> :SEARCH1:SLOGIC:I2CBUS:
SETUP:DATA:DPOSITION 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA:HEXA<x>

Function Sets the data of the logic I²C bus signal search in hexadecimal notation.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA:
HEXA<x> {<String>}
<x> of SEARCh<x> = 1 or 2
<x> of HEXA<x> = 1 to 4
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
HEXA1 " AB"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA:MODE

Function Enables/disables the data conditions of the logic I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA:
MODE {<Boolean>}
:SEARCh<x>:SLOGic:I2CBus[:SETup]:DATA:
MODE?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
MODE ON
:SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
MODE? -> :SEARCH1:SLOGIC:I2CBUS:
SETUP:DATA:MODE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**: SEARCh<x>: SLOGic: I2CBus [: SETUp] :
DATA: PATTErn<x>**

Function Sets the data of the logic I²C bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETUp]:DATA:
PATTErn<x> {<String>}
:SEARCh<x>:SLOGic:I2CBus[:SETUp]:DATA:
PATTErn<x>?

<x> of SEARCh<x> = 1 or 2

<x> of PATTErn<x> = 1 to 4

<String> = 8 characters by combining '0' to '1' and 'X'

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
PATTERN1 " 10101011"
:SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
PATTERN1? -> :SEARCH1:SLOGIC:I2CBUS:
SETUP:DATA:PATTERN1 " 10101011"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**: SEARCh<x>: SLOGic: I2CBus [: SETUp] :
DATA: PMODE**

Function Sets the pattern comparison start position mode of the logic I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETUp]:DATA:
PMODE {DONTcare|SElect}
:SEARCh<x>:SLOGic:I2CBus[:SETUp]:DATA:
PMODE?

<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
PMODE DONTCARE
:SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
PMODE? -> :SEARCH1:SLOGIC:I2CBUS:
SETUP:DATA:PMODE DONTCARE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**: SEARCh<x>: SLOGic: I2CBus [: SETUp] :
DATA: TRACe**

Function Sets the data trace of the logic I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETUp]:DATA:
TRACe {A<y>|B<y>|C<y>|D<y>}
:SEARCh<x>:SLOGic:I2CBus[:SETUp]:DATA:
TRACe?

<x> = 1 or 2

<y> = 0 to 7

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
TRACE A0
:SEARCH1:SLOGIC:I2CBUS:SETUP:DATA:
TRACE? -> :SEARCH1:SLOGIC:I2CBUS:
SETUP:DATA:TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

{A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

**: SEARCh<x>: SLOGic: I2CBus [: SETUp] :
GCALl?**

Function Queries all settings related to the general call of the logic I²C bus signal search.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETUp]:GCALl?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:
GCALL? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:
GCALL:BIT7MADDRESS:PATTERN " 10101011";
SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL:
SBYTE BIT7MADDRESS

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**: SEARCh<x>: SLOGic: I2CBus [: SETUp] :
GCALl: BIT7maddress?**

Function Queries all settings related to the 7-bit master address of the general code of the logic I²C bus signal search.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETUp]:GCALl:
BIT7maddress?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL:
BIT7MADDRESS? -> :SEARCH1:SLOGIC:
I2CBUS:SETUP:GCALL:BIT7MADDRESS:
PATTERN " 10101011"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**: SEARCh<x>: SLOGic: I2CBus [: SETUp] :
GCALl: BIT7maddress: HEXA**

Function Sets the 7-bit master address of the general call of the logic I²C bus signal search in hexadecimal notation.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETUp]:GCALl:
BIT7maddress:HEXA {<String>}
<x> = 1 or 2

<String> = 2 characters by combining '0' to 'F' and 'X' (bit 0 is fixed 1)

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL:
BIT7MADDRESS:HEXA " BA"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.4 SEARCh Group

:SEARCh<x>:SLOGic:I2CBus[:SETup]:GCALl:BIT7maddress:PATtern

Function Sets the 7-bit master address of the general call of the logic I²C bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:GCALl:BIT7maddress:PATtern {<String>}
:SEARCh<x>:SLOGic:I2CBus[:SETup]:GCALl:BIT7maddress:PATtern?
<x> = 1 or 2
<String> = 7 characters by combining '0' to '1' and 'X'

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL:BIT7MADDRESS:PATTERN " 1010101"
:SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL:BIT7MADDRESS:PATTERN? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL:BIT7MADDRESS:PATTERN " 1010101"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus[:SETup]:GCALl:SBYte (Second Byte)

Function Sets the second byte type of the general call of the logic I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:GCALl:SBYte {BIT7maddress|DONTcare|H04|H06}
:SEARCh<x>:SLOGic:I2CBus[:SETup]:GCALl:SBYte?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL:SBYTE BIT7MADDRESS
:SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL:SBYTE? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:GCALL:SBYTE BIT7MADDRESS

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus[:SETup]:MODE

Function Sets the search mode of the logic I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:MODE {ADATa|ESTart|GCALl|NAIGNore|SBHSmode}
:SEARCh<x>:SLOGic:I2CBus[:SETup]:MODE?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:MODE ADATA
:SEARCH1:SLOGIC:I2CBUS:SETUP:MODE? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:MODE ADATA

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus[:SETup]:NAIGNore?

Function Queries all settings related to the NON ACK ignore mode of the logic I²C bus signal search.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:NAIGNore?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:NAIGNORE? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:NAIGNORE:HSMODE 1;RACCESS 1;SBYTE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus[:SETup]:NAIGNore:HSMode

Function Sets whether to ignore NON ACK in high speed mode of the logic I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:NAIGNore:HSMode {<Boolean>}
:SEARCh<x>:SLOGic:I2CBus[:SETup]:NAIGNore:HSMode?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:NAIGNORE:HSMODE ON
:SEARCH1:SLOGIC:I2CBUS:SETUP:NAIGNORE:HSMODE? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:NAIGNORE:HSMODE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:I2CBus[:SETup]:NAIGNore:RACcEss

Function Sets whether to ignore NON ACK in read access mode of the logic I²C bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:I2CBus[:SETup]:NAIGNore:RACcEss {<Boolean>}
:SEARCh<x>:SLOGic:I2CBus[:SETup]:NAIGNore:RACcEss?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:I2CBUS:SETUP:NAIGNORE:RACCESS ON
:SEARCH1:SLOGIC:I2CBUS:SETUP:NAIGNORE:RACCESS? -> :SEARCH1:SLOGIC:I2CBUS:SETUP:NAIGNORE:RACCESS 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: LINBus [: SETUp] : DATA: DATA<x>

Function Sets the comparison data of the logic LIN bus signal search data or queries the current setting.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:DATA<x> {<NRf>}
:SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:DATA<x>?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<NRf> = See section 5.4.

Example :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:DATA1 1
:SEARCH1:SLOGIC:LINBUS:SETUP:DATA:DATA1? -> :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:DATA1 1.0000000E+00

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

- For :SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:CONDition GTHan, set using: SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:DATA1.
- For :SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:CONDition LTHan, set using: SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:DATA2.
- For :SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:CONDition BETWen|ORANge, set small values with: SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:DATA1, and large values with: SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:DATA2.

: SEARCh<x>: SLOGic: LINBus [: SETUp] : DATA: HEXA

Function Sets the data of the logic LIN bus signal search in hexadecimal notation.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:HEXA {<String>}
<x> = 1 or 2
<String> = Up to 16 characters by combining '0' to 'F' and 'X' (varies depending on the BNUM setting)

Example :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:HEXA " 3B"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: LINBus [: SETUp] : DATA: MSBLSb

Function Sets the MSB/LSB bit of the logic LIN bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:MSBLSb {<NRf>, <NRf>}
:SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:MSBLSb?
<x> = 1 or 2
<NRf> = See section 5.4.

Example :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:MSBLSB 1,0
:SEARCH1:SLOGIC:LINBUS:SETUP:DATA:MSBLSB? -> :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:MSBLSB 1,0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: LINBus [: SETUp] : DATA: PATtern

Function Sets the data of the logic LIN bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:PATtern {<String>}
:SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:PATtern?
<x> = 1 or 2
<String> = Up to 64 characters by combining '0' to '1' and 'X' (varies depending on the BNUM setting)

Example :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:PATTERN " 11011111"
:SEARCH1:SLOGIC:LINBUS:SETUP:DATA:PATTERN? -> :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:PATTERN " 11011111"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: LINBus [: SETUp] : DATA: SIGN

Function Sets the data sign of the logic LIN bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:SIGN {SIGN|UNSign}
:SEARCh<x>:SLOGic:LINBus[:SETUp]:DATA:SIGN?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:SIGN SIGN
:SEARCH1:SLOGIC:LINBUS:SETUP:DATA:SIGN? -> :SEARCH1:SLOGIC:LINBUS:SETUP:DATA:SIGN SIGN

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.4 SEARCh Group

:SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR?

Function Queries all settings related to the logic LIN bus signal search error.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:ERROR? ->
:SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:
CHECKSUM 1;FRAMING 1;PARITY 1;SYNCH 1;
TOUT 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR:CHECKsum

Function Sets the logic LIN bus signal search Checksum error or queries the current setting.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR:
CHECKsum {<Boolean>}
:SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR:
CHECKsum?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:
CHECKSUM ON
:SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:
CHECKSUM? -> :SEARCH1:SLOGIC:LINBUS:
SETUP:ERROR:CHECKSUM 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR:FRAMing

Function Sets the logic LIN bus signal search Framing error or queries the current setting.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR:
FRAMing {<Boolean>}
:SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR:
FRAMing?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:
FRAMING ON
:SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:
FRAMING? -> :SEARCH1:SLOGIC:LINBUS:
SETUP:ERROR:FRAMING 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR:PARity

Function Sets the logic LIN bus signal search Parity error or queries the current setting.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR:
PARity {<Boolean>}
:SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR:
PARity?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:
PARITY ON
:SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:
PARITY? -> :SEARCH1:SLOGIC:LINBUS:
SETUP:ERROR:PARITY 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR:SYNCh

Function Sets the logic LIN bus signal search Synch error or queries the current setting.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR:
SYNCh {<Boolean>}
:SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR:
SYNCh?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:
SYNCH ON
:SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:
SYNCH? -> :SEARCH1:SLOGIC:LINBUS:SETUP:
ERROR:SYNCH 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR:TOUT

Function Sets the logic LIN bus signal search Timeout error or queries the current setting.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR:
TOUT {<Boolean>}
:SEARCh<x>:SLOGic:LINBus[:SETup]:ERROR:
TOUT?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:
TOUT ON
:SEARCH1:SLOGIC:LINBUS:SETUP:ERROR:
TOUT? -> :SEARCH1:SLOGIC:LINBUS:SETUP:
ERROR:TOUT 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: LINBus [: SETUp] : ID?

Function Queries all settings related to the ID of the logic LIN bus signal search.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETUp]:ID?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:
ID? -> :SEARCH1:SLOGIC:LINBUS:SETUP:
ID:PATTERN " 101111"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: LINBus [: SETUp] : ID: HEXA

Function Sets the ID of the logic LIN bus signal search in hexadecimal notation.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETUp]:ID:
HEXA {<String>}
<x> = 1 or 2
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:SLOGIC:LINBUS:SETUP:ID:
HEXA " 2A"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: LINBus [: SETUp] : ID: PATTErn

Function Sets the ID of the logic LIN bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETUp]:ID:
PATTErn {<String>}
:SEARCh<x>:SLOGic:LINBus[:SETUp]:ID:
PATTErn?
<x> = 1 or 2
<String> = 6 characters by combining '0' to '1' and 'X'

Example :SEARCH1:SLOGIC:LINBUS:SETUP:ID:
PATTERN " 101111"
:SEARCH1:SLOGIC:LINBUS:SETUP:ID:
PATTERN? -> :SEARCH1:SLOGIC:LINBUS:
SETUP:ID:PATTERN " 101111"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: LINBus [: SETUp] :**MODE**

Function Sets the logic LIN bus signal search mode or queries the current setting.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETUp]:
MODE {IDData|SYNCh}
:SEARCh<x>:SLOGic:LINBus[:SETUp]:MODE?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:MODE
IDDATA
:SEARCH1:SLOGIC:LINBUS:SETUP:
MODE? -> :SEARCH1:SLOGIC:LINBUS:SETUP:
MODE IDDATA

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: LINBus [: SETUp] :**REVisioN**

Function Sets the logic LIN bus signal search revision (1.3, 2.0, or Both) or queries the current setting.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETUp]:
REVisioN {BOTH|LIN1_3|LIN2_0}
:SEARCh<x>:SLOGic:LINBus[:SETUp]:
REVisioN?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:LINBUS:SETUP:
REVISION LIN1_3
:SEARCH1:SLOGIC:LINBUS:SETUP:REVISION?
-> :SEARCH1:SLOGIC:LINBUS:SETUP:
REVISION LIN1_3

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: LINBus [: SETUp] :**SPOint**

Function Sets the logic LIN bus signal search sampling point or queries the current setting.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETUp]:
SPOint {<NRf>}
:SEARCh<x>:SLOGic:LINBus[:SETUp]:
SPOint?
<x> = 1 or 2
<NRf> = 18.8 to 90.6(%)

Example :SEARCH1:SLOGIC:LINBUS:SETUP:
SPOINT 18.8
:SEARCH1:SLOGIC:LINBUS:SETUP:SPOINT?
-> :SEARCH1:SLOGIC:LINBUS:SETUP:
SPOINT 18.8E+00

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.4 SEARCh Group

:SEARCh<x>:SLOGic:LINBus[:SETup]:TRACe

Function Sets the trace of the logic LIN bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:LINBus[:SETup]:TRACe {A<y>|B<y>|C<y>|D<y>}
:SEARCh<x>:SLOGic:LINBus[:SETup]:TRACe?<x> = 1 or 2
<y> = 0 to 7

Example :SEARCH1:SLOGIC:LINBUS:SETUP:TRACE A0
:SEARCH1:SLOGIC:LINBUS:SETUP:TRACE? -> :SEARCH1:SLOGIC:LINBUS:SETUP:TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:SEARCh<x>:SLOGic:SPIBUS?

Function Queries all settings related to the logic SPI bus signal search.

Syntax :SEARCh<x>:SLOGic:SPIBUS?<x> = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS? -> :SEARCH1:SLOGIC:SPIBUS:CLOCK:POLARITY FALL;
SOURCE A0; :SEARCH1:SLOGIC:SPIBUS:CS:ACTIVE HIGH;TRACE A0; :SEARCH1:SLOGIC:SPIBUSSETUP:BITORDER LSBFIRST;DATA1:BYTE 1;CONDITION FALSE;DPOSITION 1;DSIZE 1;
PATTERN1 " 11101111";
PATTERN2 " XXXXXXXX";
PATTERN3 " XXXXXXXX";
PATTERN4 " XXXXXXXX";TRACE A0; :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA2:BYTE 1;CONDITION TRUE;DPOSITION 0;DSIZE 1;
PATTERN1 " XXXXXXXX";
PATTERN2 " XXXXXXXX";
PATTERN3 " XXXXXXXX";
PATTERN4 " XXXXXXXX";TRACE A2; :SEARCH1:SLOGIC:SPIBUS:SETUP:EMSBLBS 1,7;FSIZE 4;ITIME 10.0000E-09;MODE WIRE3

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:SPIBUS:CLOCK?

Function Queries all settings related to the clock signal channel of the logic SPI bus signal search.

Syntax :SEARCh<x>:SLOGic:SPIBUS:CLOCK?<x> = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:CLOCK? -> :SEARCH1:SLOGIC:SPIBUS:CLOCK:POLARITY FALL;SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:SPIBUS:CLOCK:POLARity

Function Sets the polarity of the clock signal channel of the logic SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:SPIBUS:CLOCK:POLARity {FALL|RISE}
:SEARCh<x>:SLOGic:SPIBUS:CLOCK:POLARity?<x> = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:CLOCK:POLARITY FALL
:SEARCH1:SLOGIC:SPIBUS:CLOCK:POLARITY? -> :SEARCH1:SLOGIC:SPIBUS:CLOCK:POLARITY FALL

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:SPIBUS:CLOCK:SOURce

Function Sets the clock signal channel of the logic SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:SPIBUS:CLOCK:SOURce {A<y>|B<y>|C<y>|D<y>}
:SEARCh<x>:SLOGic:SPIBUS:CLOCK:SOURce?<x> = 1 or 2
<y> = 0 to 7

Example :SEARCH1:SLOGIC:SPIBUS:CLOCK:SOURCE A0
:SEARCH1:SLOGIC:SPIBUS:CLOCK:SOURCE? -> :SEARCH1:SLOGIC:SPIBUS:CLOCK:SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:SEARCh<x>:SLOGic:SPIBUS:CS?

Function Queries all settings related to the chip select signal channel of the logic SPI bus signal search.

Syntax :SEARCh<x>:SLOGic:SPIBUS:CS?<x> = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:CS? -> :SEARCH1:SLOGIC:SPIBUS:CS:ACTIVE HIGH;TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: SPIBus: CS: ACTIVE

Function Sets the active level of the chip select signal channel of the logic SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:SPIBus:CS:
ACTive {HIGH|LOW}
:SEARCh<x>:SLOGic:SPIBus:CS:ACTive?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:CS:ACTIVE HIGH
:SEARCH1:SLOGIC:SPIBUS:CS:
ACTIVE? -> :SEARCH1:SLOGIC:SPIBUS:CS:
ACTIVE HIGH

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: SPIBus: CS: TRACe

Function Sets the chip select signal channel of the logic SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:SPIBus:CS:
TRACe {A<y>|B<y>|C<y>|D<y>|NONE}
:SEARCh<x>:SLOGic:SPIBus:CS:TRACe?
<x> = 1 or 2
<y> = 0 to 7

Example :SEARCH1:SLOGIC:SPIBUS:CS:TRACE A0
:SEARCH1:SLOGIC:SPIBUS:CS:
TRACE? -> :SEARCH1:SLOGIC:SPIBUS:CS:
TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>|NONE} can be applied to the DL9705L and DL9710L. {A<y>|C<y>|NONE} can be applied to the DL9505L and DL9510L.

: SEARCh<x>: SLOGic: SPIBus [: SETUp] ?

Function Queries all settings related to the setup of the logic SPI bus signal search.

Syntax :SEARCh<x>:SLOGic:SPIBus[:SETUp]?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:SETUP?
-> :SEARCH1:SLOGIC:SPIBUS:SETUP:
BITORDER LSBFIRST;DATA1:BYTE 1;
CONDITION FALSE;DPOSITION 1;DSIZE 1;
PATTERN1 "11101111";
PATTERN2 "XXXXXXXX";
PATTERN3 "XXXXXXXX";
PATTERN4 "XXXXXXXX";TRACE A0;:SEARCH1
:SLOGIC:SPIBUS:SETUP:DATA2:BYTE 1;
CONDITION TRUE;DPOSITION 0;DSIZE 1;
PATTERN1 "XXXXXXXX";
PATTERN2 "XXXXXXXX";
PATTERN3 "XXXXXXXX";
PATTERN4 "XXXXXXXX";TRACE A2;:
SEARCH1:SLOGIC:SPIBUS:SETUP:MODE WIRE3

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: SPIBus [: SETUp] : BITOrder

Function Sets the bit order of the logic SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:SPIBus[:SETUp]:
BITOrder {LSBFirst|MSBFirst}
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:
BITOrder?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:
BITORDER LSBFIRST
:SEARCH1:SLOGIC:SPIBUS:SETUP:
BITORDER? -> :SEARCH1:SLOGIC:SPIBUS:
SETUP:BITORDER LSBFIRST

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: SPIBus [: SETUp] : DATA<x>?

Function Queries all settings related to each data of the logic SPI bus signal search.

Syntax :SEARCh<x>:SLOGic:SPIBus[:SETUp]:
DATA<x>?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:
DATA1? -> :SEARCH1:SLOGIC:SPIBUS:SETUP:
DATA1:BYTE 1;CONDITION FALSE;
DPOSITION 1;DSIZE 1;PATTERN1 "11101111";
PATTERN2 "XXXXXXXX";
PATTERN3 "XXXXXXXX";
PATTERN4 "XXXXXXXX";TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

DATA2 is valid when :SEARCh<x>:SLOGic:
SPIBus[:SETUp]:MODE WIRE4 is specified.

: SEARCh<x>: SLOGic: SPIBus [: SETUp] : DATA<x>: BYTE

Function Sets the data size (in bytes) of each data of the logic SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:SPIBus[:SETUp]:
DATA<x>:BYTE {<Nrf>}
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:
DATA<x>:BYTE?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<Nrf> = 1 to 4

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:
BYTE 1
:SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:
BYTE? -> :SEARCH1:SLOGIC:SPIBUS:SETUP:
DATA1:BYTE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.4 SEARCh Group

:SEARCh<x>:SLOGic:SPIBUS[:SETup]:DATA<x>:CONDition

Function Sets the determination method (match/mismatch) of the data of the logic SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:SPIBUS[:SETup]:DATA<x>:CONDition {FALSE|TRUE}
:SEARCh<x>:SLOGic:SPIBUS[:SETup]:DATA<x>:CONDition?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:CONDITION FALSE
:SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:CONDITION? -> :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:CONDITION FALSE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:SPIBUS[:SETup]:DATA<x>:DPOSITION

Function Sets the pattern comparison start position of the logic SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:SPIBUS[:SETup]:DATA<x>:DPOSITION {<Nrf>}
:SEARCh<x>:SLOGic:SPIBUS[:SETup]:DATA<x>:DPOSITION?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<Nrf> = 0 to 9999

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:DPOSITION 1
:SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:DPOSITION? -> :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:DPOSITION 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:SPIBUS[:SETup]:DATA<x>:DSIZE

Function Sets the number of fields in the data used for logic SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:SPIBUS[:SETup]:DATA<x>:DSIZE {<Nrf>}
:SEARCh<x>:SLOGic:SPIBUS[:SETup]:DATA<x>:DSIZE?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<Nrf> = 1 to 4

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:DSIZE 1
:SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:DSIZE? -> :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:DSIZE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:SPIBUS[:SETup]:DATA<x>:HEXA<x>

Function Sets the data of the logic SPI bus signal search in hexadecimal notation.

Syntax :SEARCh<x>:SLOGic:SPIBUS[:SETup]:DATA<x>:HEXA<x> {<String>}
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<x> of HEXA<x> = 1 to 4
<String> = Up to 8 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:HEXA1 " EF"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:SPIBUS[:SETup]:DATA<x>:PATTERN<x>

Function Sets the data of the logic SPI bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>:SLOGic:SPIBUS[:SETup]:DATA<x>:PATTERN<x> {<String>}
:SEARCh<x>:SLOGic:SPIBUS[:SETup]:DATA<x>:PATTERN<x>?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<x> of PATTERN<x> = 1 to 4
<String> = Up to 32 characters by combining '0' to '1' and 'X'

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:PATTERN1 " 11101111"
:SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:PATTERN1? -> :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:PATTERN1 " 11101111"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: SPIBus [: SETUp] : DATA<x>: TRACe

Function Sets the source channel of each data of the logic SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:SPIBus[:SETUp]:
DATA<x>:TRACe {A<y>|B<y>|C<y>|D<y>}
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:
DATA<x>:TRACe?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<y> = 0 to 7

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:
TRACE A0
:SEARCH1:SLOGIC:SPIBUS:SETUP:DATA1:
TRACE? -> :SEARCH1:SLOGIC:SPIBUS:
SETUP:DATA1:TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

: SEARCh<x>: SLOGic: SPIBus [: SETUp] : EMSBLSB

Function Sets the enabled range of the field used for logic SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:SPIBus[:SETUp]:
EMSBLSB {<NRf>,<NRf>}
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:
EMSBLSB?
<x> = 1 or 2
<NRf> = See section 5.5.

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:
EMSBLSB 1,7
:SEARCH1:SLOGIC:SPIBUS:SETUP:
EMSBLSB? -> :SEARCH1:SLOGIC:SPIBUS:
SETUP:EMSBLSB 1,7

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: SPIBus [: SETUp] : FSIZE

Function Sets the field size used for logic SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:SPIBus[:SETUp]:
FSIZE {<NRf>}
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:FSIZE?
<x> = 1 or 2
<NRf> = 4 to 32

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:FSIZE 4
:SEARCH1:SLOGIC:SPIBUS:SETUP:FSIZE? ->
:SEARCH1:SLOGIC:SPIBUS:SETUP:FSIZE 4

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: SPIBus [: SETUp] : ITIME

Function Sets the idle time used in logic SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:SPIBus[:SETUp]:
ITIME {<Time>|DONTcare}
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:ITIME?
<x> = 1 or 2
<Time> = 10ns to 1ms in 10-ns steps

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:ITIME 10NS
:SEARCH1:SLOGIC:SPIBUS:SETUP:
ITIME? -> :SEARCH1:SLOGIC:SPIBUS:SETUP:
ITIME 10.0000E-09

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: SPIBus [: SETUp] : MODE

Function Sets the wiring system of the logic SPI bus signal search (three-wire or four-wire) or queries the current setting.

Syntax :SEARCh<x>:SLOGic:SPIBus[:SETUp]:
MODE {WIRE3|WIRE4}
:SEARCh<x>:SLOGic:SPIBus[:SETUp]:MODE?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:SPIBUS:SETUP:MODE WIRE3
:SEARCH1:SLOGIC:SPIBUS:SETUP:
MODE? -> :SEARCH1:SLOGIC:SPIBUS:SETUP:
MODE WIRE3

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: UART?

Function Queries all settings related to the logic UART bus signal search.

Syntax :SEARCh<x>:SLOGic:UART?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:UART? -> :SEARCH1:
SLOGIC:UART:BRATE 19200;DATA:
BITORDER LSBFIRST;DSIZE 1;
PATTERN "X0101001";:SEARCH1:SLOGIC:
UART:ERROR:FRAMING 1;PARITY 1;
PMODE EVEN;;:SEARCH1:SLOGIC:UART:
FORMAT BIT7PARITY;MODE DATA;
POLARITY NEGATIVE;SPOINT 18.8E+00;
TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.4 SEARCh Group

:SEARCh<x>:SLOGic:UART:BRATe

Function Sets the logic UART bus signal search bit rate (data transfer rate) or queries the current setting.

Syntax :SEARCh<x>:SLOGic:UART:
BRATe {<NRf>|USER,<NRf>}
:SEARCh<x>:SLOGic:UART:BRATe?
<x> = 1 or 2
<NRf> = 1200, 2400, 4800, 9600, 19200, 38400,
57600, 115200
<NRf> of USER = See section 5.6.

Example :SEARCH1:SLOGIC:UART:BRATE 19200
:SEARCH1:SLOGIC:UART:BRATE? ->
:SEARCH1:SLOGIC:UART:BRATE 19200

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:UART:DATA?

Function Queries all settings related to data of the logic UART bus signal search.

Syntax :SEARCh<x>:SLOGic:UART:DATA?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:UART:DATA? -> :SEARCH1:
SLOGIC:UART:DATA:BITORDER LSBFIRST;
DSIZE 1;PATTERN "X0101001"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:UART:DATA:BITOrder

Function Sets the data bit order of the logic UART bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:UART:DATA:
BITOrder {LSBFirst|MSBFirst}
:SEARCh<x>:SLOGic:UART:DATA:BITOrder?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:UART:DATA:
BITORDER LSBFIRST
:SEARCH1:SLOGIC:UART:DATA:BITORDER?
-> :SEARCH1:SLOGIC:UART:DATA:
BITORDER LSBFIRST

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:UART:DATA:DSIZE

Function Sets the number of data bytes of the logic UART bus signal search or queries the current setting.

Syntax :SEARCh<x>:SLOGic:UART:DATA:
DSIZE {<NRf>}
:SEARCh<x>:SLOGic:UART:DATA:DSIZE?
<x> = 1 or 2
<NRf> = 1 to 4

Example :SEARCH1:SLOGIC:UART:DATA:DSIZE 1
:SEARCH1:SLOGIC:UART:DATA:DSIZE? ->
:SEARCH1:SLOGIC:UART:DATA:DSIZE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:UART:DATA:HEXA

Function Sets the logic UART bus signal search data in hexadecimal.

Syntax :SEARCh<x>:SLOGic:UART:DATA:
HEXA {<String>}
<x> = 1 or 2
<String> = Up to 8 characters by combining '0' to 'F'
and 'X,' units of 1 byte

Example :SEARCH1:SLOGIC:UART:DATA:HEXA "A9"
Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:UART:DATA:PATtern

Function Sets the data of the logic UART bus signal search in binary or queries the current setting.

Syntax :SEARCh<x>:SLOGic:UART:DATA:
PATtern {<String>}
:SEARCh<x>:SLOGic:UART:DATA:PATtern?
<x> = 1 or 2
<String> = Up to 32 characters by combining '0','1,'
and 'X,' units of 1 byte

Example :SEARCH1:SLOGIC:UART:DATA:
PATTERN "11011111"
:SEARCH1:SLOGIC:UART:DATA:PATTERN?
-> :SEARCH1:SLOGIC:UART:DATA:
PATTERN "11011111"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:UART:ERROR?

Function Queries all settings related to the logic UART bus signal search error.

Syntax :SEARCh<x>:SLOGic:UART:ERROR?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:UART:ERROR? ->
:SEARCH1:SLOGIC:UART:ERROR:
FRAMING 1;PARITY 1;PMODE EVEN

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:SEARCh<x>:SLOGic:UART:ERROR:FRAMing

Function Sets the logic UART bus signal search Framing error or queries the current setting.

Syntax :SEARCh<x>:SLOGic:UART:ERROR:
FRAMing {<Boolean>}
:SEARCh<x>:SLOGic:UART:ERROR:FRAMing?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:UART:ERROR:FRAMING ON
:SEARCH1:SLOGIC:UART:ERROR:FRAMING? ->
:SEARCH1:SLOGIC:UART:ERROR:FRAMING 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: UART: ERROr: PARity

Function Sets the logic UART bus signal search Parity error or queries the current setting.

Syntax :SEARCh<x>:SLOGic:UART:ERROr:
PARity {<Boolean>}
:SEARCh<x>:SLOGic:UART:ERROr:PARity?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:UART:ERROR:PARITY ON
:SEARCH1:SLOGIC:UART:ERROR:PARITY? ->
:SEARCH1:SLOGIC:UART:ERROR:PARITY 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: UART: ERROr: PMODE

Function Sets the logic UART bus signal search Parity mode or queries the current setting.

Syntax :SEARCh<x>:SLOGic:UART:ERROr:
PMODE {EVEN|ODD}
:SEARCh<x>:SLOGic:UART:ERROr:PMODE?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:UART:ERROR:PMODE EVEN
:SEARCH1:SLOGIC:UART:ERROR:PMODE? ->
:SEARCH1:SLOGIC:UART:ERROR:PMODE EVEN

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: UART: FORMat

Function Sets the logic UART bus signal search format or queries the current setting.

Syntax :SEARCh<x>:SLOGic:UART:
FORMat {BIT7parity|BIT8Noparity|
BIT8Parity}
:SEARCh<x>:SLOGic:UART:FORMat?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:UART:FORMAT BIT7PARITY
:SEARCH1:SLOGIC:UART:FORMAT? ->
:SEARCH1:SLOGIC:UART:FORMAT BIT7PARITY

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: UART: MODE

Function Sets the logic UART bus signal search mode or queries the current setting.

Syntax :SEARCh<x>:SLOGic:UART:
MODE {DATA|ERRor}
:SEARCh<x>:SLOGic:UART:MODE?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:UART:MODE DATA
:SEARCH1:SLOGIC:UART:MODE? -> :SEARCH1:
SLOGIC:UART:MODE DATA

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: UART: POLarity

Function Sets the logic UART bus signal search polarity or queries the current setting.

Syntax :SEARCh<x>:SLOGic:UART:
POLarity {NEGative|POSitive}
:SEARCh<x>:SLOGic:UART:POLarity?
<x> = 1 or 2

Example :SEARCH1:SLOGIC:UART:POLARITY NEGATIVE
:SEARCH1:SLOGIC:UART:POLARITY? ->
:SEARCH1:SLOGIC:UART:POLARITY NEGATIVE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: UART: SPOint

Function Sets the logic UART bus signal search sampling point or queries the current setting.

Syntax :SEARCh<x>:SLOGic:UART:SPOint {<NRF>}
:SEARCh<x>:SLOGic:UART:SPOint?
<x> = 1 or 2
<NRF> = 18.8 to 90.6(%)

Example :SEARCH1:SLOGIC:UART:SPOINT 18.8
:SEARCH1:SLOGIC:UART:SPOINT? ->
:SEARCH1:SLOGIC:UART:SPOINT 18.8E+00

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: SLOGic: UART: TRACe

Function Sets the logic UART bus signal search trace or queries the current setting.

Syntax :SEARCh<x>:SLOGic:UART:TRACe
{A<y>|B<y>|C<y>|D<y>}
:SEARCh<x>:SLOGic:UART:TRACe?
<x> = 1 or 2
<y> = 0 to 7

Example :SEARCH1:SLOGIC:UART:TRACE A0
:SEARCH1:SLOGIC:UART:TRACE? ->
:SEARCH1:SLOGIC:UART:TRACE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

7.4 SEARCh Group

:SEARCh<x>:SPIBUS?

Function Queries all settings related to the SPI bus signal search.

Syntax :SEARCh<x>:SPIBUS?
<x> = 1 or 2

Example :SEARCH1:SPIBUS?
-> :SEARCH1:SPIBUS:CLOCK:POLARITY FALL;
SOURCE 1;:SEARCH1:SPIBUS:CS:
ACTIVE HIGH;TRACE 1;:SEARCH1:SPIBUS:
SETUP:BITORDER LSBFIRST;DATA1:BYTE 1;
CONDITION TRUE;DPOSITION 1;DSIZE 1;
PATTERN1 " 00010010";
PATTERN2 " 00110100";
PATTERN3 " 01010110";
PATTERN4 " 01111000";TRACE 1;:SEARCH1:
SPIBUS:SETUP:DATA2:BYTE 1;
CONDITION TRUE;DPOSITION 1;DSIZE 1;
PATTERN1 " 00010010";
PATTERN2 " 00110100";
PATTERN3 " 01010110";
PATTERN4 " 01111000";TRACE 1;:SEARCH1:
SPIBUS:SETUP:EMSBLB 1,7;FSIZE 4;
ITIME 10.0000E-09;MODE WIRE3

:SEARCh<x>:SPIBUS:CLOCK

Function Queries all settings related to the clock channel of the SPI bus signal search.

Syntax :SEARCh<x>:SPIBUS:CLOCK?
<x> = 1 or 2

Example :SEARCH1:SPIBUS:CLOCK?
-> :SEARCH1:SPIBUS:CLOCK:POLARITY FALL;
SOURCE 1

:SEARCh<x>:SPIBUS:CLOCK:POLarity

Function Sets the polarity of the clock channel of the SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SPIBUS:CLOCK:
POLarity {FALL|RISE}
:SEARCh<x>:SPIBUS:CLOCK:POLarity?
<x> = 1 or 2

Example :SEARCH1:SPIBUS:CLOCK:POLARITY FALL
:SEARCH1:SPIBUS:CLOCK:POLARITY?
-> :SEARCH1:SPIBUS:CLOCK:POLARITY FALL

:SEARCh<x>:SPIBUS:CLOCK:SOURce

Function Sets the clock channel of the SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SPIBUS:CLOCK:SOURce {<NRf>}
:SEARCh<x>:SPIBUS:CLOCK:SOURce?
<x> = 1 or 2
<NRf> = 1 to 8

Example :SEARCH1:SPIBUS:CLOCK:SOURCE 1
:SEARCH1:SPIBUS:CLOCK:SOURCE?
-> :SEARCH1:SPIBUS:CLOCK:SOURCE 1

:SEARCh<x>:SPIBUS:CS?

Function Queries all settings related to the chip select channel of the SPI bus signal search.

Syntax :SEARCh<x>:SPIBUS:CS?
<x> = 1 or 2

Example :SEARCH1:SPIBUS:CS?
-> :SEARCH1:SPIBUS:CS:ACTIVE HIGH;
TRACE 1

:SEARCh<x>:SPIBUS:CS:ACTive

Function Sets the active level of the chip select channel of the SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SPIBUS:CS:ACTive {HIGH|LOW}
:SEARCh<x>:SPIBUS:CS:ACTive?
<x> = 1 or 2

Example :SEARCH1:SPIBUS:CS:ACTIVE HIGH
:SEARCH1:SPIBUS:CS:ACTIVE?
-> :SEARCH1:SPIBUS:CS:ACTIVE HIGH

:SEARCh<x>:SPIBUS:CS:TRACe

Function Sets the chip select channel of the SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SPIBUS:CS:TRACe {<NRf>|NONE}
:SEARCh<x>:SPIBUS:CS:TRACe?
<x> = 1 or 2
<NRf> = 1 to 8

Example :SEARCH1:SPIBUS:CS:TRACE 1
:SEARCH1:SPIBUS:CS:TRACE?
-> :SEARCH1:SPIBUS:CS:TRACE 1

:SEARCh<x>:SPIBUS:SETup?

Function Queries all settings related to the SPI bus signal search setup.

Syntax :SEARCh<x>:SPIBUS:SETup?
<x> = 1 or 2

Example :SEARCH1:SPIBUS:SETUP?
-> :SEARCH1:SPIBUS:SETUP:
BITORDER LSBFIRST;DATA1:BYTE 1;
CONDITION TRUE;DPOSITION 1;DSIZE 1;
PATTERN1 " 00010010";
PATTERN2 " 00110100";
PATTERN3 " 01010110";
PATTERN4 " 01111000";TRACE 1;:SEARCH1:
SPIBUS:SETUP:DATA2:BYTE 1;
CONDITION TRUE;DPOSITION 1;DSIZE 1;
PATTERN1 " 00010010";
PATTERN2 " 00110100";
PATTERN3 " 01010110";
PATTERN4 " 01111000";TRACE 1;:SEARCH1:
SPIBUS:SETUP:EMSBLB 1,7;FSIZE 4;
ITIME 10.0000E-09;MODE WIRE3

: SEARCh<x>: SPIBUS [: SETUp] : BITOrder

Function Sets the bit order of the SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SPIBUS[:SETUp]:
BITOrder {LSBFirst|MSBFirst}
:SEARCh<x>:SPIBUS[:SETUp]:BITOrder?
<x> = 1 or 2

Example :SEARCH1:SPIBUS:SETUP:BITORDER LSBFIRST
:SEARCH1:SPIBUS:SETUP:BITORDER?
-> :SEARCH1:SPIBUS:SETUP:
BITORDER LSBFIRST

: SEARCh<x>: SPIBUS [: SETUp] : DATA<x>?

Function Queries all settings related to the data of the SPI bus signal search.

Syntax :SEARCh<x>:SPIBUS[:SETUp]:DATA<x>?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2

Example :SEARCH1:SPIBUS:SETUP:DATA1?
-> :SEARCH1:SPIBUS:SETUP:DATA1:BYTE 1;
CONDITION TRUE;DPOSITION 1;DSIZE 1;
PATTERN1 " 00010010";
PATTERN2 " 00110100";
PATTERN3 " 01010110";
PATTERN4 " 01111000";TRACE 1

Description DATA2 is valid when :SEARCh<x>:
SPIBUS[:SETUp]:MODE WIRE4 is specified.

: SEARCh<x>: SPIBUS [: SETUp] : DATA<x>: BYTE

Function Sets the number of bytes of the data of the SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SPIBUS[:SETUp]:DATA<x>:
BYTE {<Nrf>}
:SEARCh<x>:SPIBUS[:SETUp]:DATA<x>:BYTE?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<Nrf> = 1 to 4

Example :SEARCH1:SPIBUS:SETUP:DATA1:BYTE 1
:SEARCH1:SPIBUS:SETUP:DATA1:BYTE?
-> :SEARCH1:SPIBUS:SETUP:DATA1:BYTE 1

: SEARCh<x>: SPIBUS [: SETUp] : DATA<x>: CONDITION

Function Sets the determination method (match or not match) of the data of the SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SPIBUS[:SETUp]:DATA<x>:
CONDItion {FALSE|TRUE}
:SEARCh<x>:SPIBUS[:SETUp]:DATA<x>:
CONDItion?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2

Example :SEARCH1:SPIBUS:SETUP:DATA1:
CONDITION TRUE
:SEARCH1:SPIBUS:SETUP:DATA1:
CONDITION?
-> :SEARCH1:SPIBUS:SETUP:DATA1:
CONDITION TRUE

: SEARCh<x>: SPIBUS [: SETUp] : DATA<x>: DPOSITION

Function Sets the pattern comparison start position of the data of the SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SPIBUS[:SETUp]:DATA<x>:
DPOSITION {<Nrf>}
:SEARCh<x>:SPIBUS[:SETUp]:DATA<x>:
DPOSITION?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<Nrf> = 0 to 9999

Example :SEARCH1:SPIBUS:SETUP:DATA1:DPOSITION 1
:SEARCH1:SPIBUS:SETUP:DATA1:
DPOSITION?
-> :SEARCH1:SPIBUS:SETUP:DATA1:
DPOSITION 1

: SEARCh<x>: SPIBUS [: SETUp] : DATA<x>: DSIZE

Function Sets the number of fields in the data used for SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SPIBUS[:SETUp]:DATA<x>:
DSIZE {<Nrf>}
:SEARCh<x>:SPIBUS[:SETUp]:DATA<x>:
DSIZE?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<Nrf> = 1 to 4

Example :SEARCH1:SPIBUS:SETUP:DATA1:DSIZE 1
:SEARCH1:SPIBUS:SETUP:DATA1:DSIZE?
-> :SEARCH1:SPIBUS:SETUP:DATA1:DSIZE 1

7.4 SEARCh Group

: SEARCh<x> : SPIBus [: SETUp] : DATA<x> : HEXA<x>

Function Sets the data of the SPI bus signal search in hexadecimal notation.

Syntax :SEARCh<x>:SPIBus[:SETUp]:DATA<x>:
HEXA<x> {<String>}
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<x> of HEXA<x> = 1 to 4
<String> = Up to 8 characters by combining '0' to 'F' and 'X'

Example :SEARCH1:SPIBUS:SETUP:DATA1:HEXA1 " EF"

: SEARCh<x> : SPIBus [: SETUp] : DATA<x> : PATTErn<x>

Function Sets the data of the SPI bus signal search in binary notation or queries the current setting.

Syntax :SEARCh<x>:SPIBus[:SETUp]:DATA<x>:
PATTErn<x> {<String>}
:SEARCh<x>:SPIBus[:SETUp]:DATA<x>:
PATTErn<x>?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<x> of PATTErn <x> = 1 to 4
<String> = Up to 32 characters by combining '0', '1,' and 'X'

Example :SEARCH1:SPIBUS:SETUP:DATA1:
PATTERN1 " 11101111"
:SEARCH1:SPIBUS:SETUP:DATA1:
PATTERN1?
-> :SEARCH1:SPIBUS:SETUP:DATA1:
PATTERN1 " 11101111"

: SEARCh<x> : SPIBus [: SETUp] : DATA<x> : TRACe

Function Sets the source channel of the data of the SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SPIBus[:SETUp]:DATA<x>:
TRACe {<Nrf>}
:SEARCh<x>:SPIBus[:SETUp]:DATA<x>:
TRACe?
<x> of SEARCh<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<Nrf> = 1 to 8

Example :SEARCH1:SPIBUS:SETUP:DATA1:TRACE 1
:SEARCH1:SPIBUS:SETUP:DATA1:TRACE?
-> :SEARCH1:SPIBUS:SETUP:DATA1:TRACE 1

: SEARCh<x> : SPIBus [: SETUp] : EMSBLSB

Function Sets the enabled range of the field used for SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SPIBus[:SETUp]:
EMSBLSB {<Nrf>, <Nrf>}
:SEARCh<x>:SPIBus[:SETUp]:EMSBLSB?
<x> = 1 or 2
<Nrf> = See section 5.5.

Example :SEARCH1:SPIBUS:SETUP:EMSBLSB 1,7
:SEARCH1:SPIBUS:SETUP:EMSBLSB?
-> :SEARCH1:SPIBUS:SETUP:EMSBLSB 1,7

: SEARCh<x> : SPIBus [: SETUp] : FSIZE

Function Sets the field size used for SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SPIBus[:SETUp]:FSIZE {<Nrf>}
:SEARCh<x>:SPIBus[:SETUp]:FSIZE?
<x> = 1 or 2
<Nrf> = 4 to 32

Example :SEARCH1:SPIBUS:SETUP:FSIZE 4
:SEARCH1:SPIBUS:SETUP:FSIZE?
-> :SEARCH1:SPIBUS:SETUP:FSIZE 4

: SEARCh<x> : SPIBus [: SETUp] : ITIME

Function Sets the idle time used in SPI bus signal search or queries the current setting.

Syntax :SEARCh<x>:SPIBus[:SETUp]:
ITIME {<Time>|DONTcare}
:SEARCh<x>:SPIBus[:SETUp]:ITIME?
<x> = 1 or 2
<Time> = 10ns to 1ms in 10-ns steps

Example :SEARCH1:SPIBUS:SETUP:ITIME 10NS
:SEARCH1:SPIBUS:SETUP:ITIME?
-> :SEARCH1:SPIBUS:SETUP:ITIME
10.0000E-09

: SEARCh<x> : SPIBus [: SETUp] : MODE

Function Sets the wiring system of the SPI bus signal search (three-wire or four-wire) or queries the current setting.

Syntax :SEARCh<x>:SPIBus[:SETUp]:
MODE {WIRE3|WIRE4}
:SEARCh<x>:SPIBus[:SETUp]:MODE?
<x> = 1 or 2

Example :SEARCH1:SPIBUS:SETUP:MODE WIRE3
:SEARCH1:SPIBUS:SETUP:MODE?
-> :SEARCH1:SPIBUS:SETUP:MODE WIRE3

: SEARCh<x>: TRACe<x>: LEVel

Function Sets the threshold level of the trace or queries the current setting.

Syntax :SEARCh<x>:TRACe<x>:LEVel {<Nrf>|<Voltage>|<Current>}
:SEARCh<x>:TRACe<x>:LEVel?
<x> of SEARCh<x> = 1 or 2
<x> of TRACe<x> = 1 to 8
<Nrf>, <Voltage>, and <Current> = See sections 5.2 to 5.6.

Example :SEARCH1:TRACE1:LEVEL 0
:SEARCH1:TRACE1:LEVEL?
-> :SEARCH1:TRACE1:LEVEL 0.000E+00

Description This command applies to the channel corresponding to the source specified by the following commands.

- :SEARCh<x>:I2Cbus:CLOCK:SOURCE
- :SEARCh<x>:STRace
- :SEARCh<x>:SPIbus:CLOCK:SOURCE
- :SEARCh<x>:SPIbus:CS:TRACe
- :SEARCh<x>:SPIbus:DATA[1-2]:TRACe

: SEARCh<x>: TYPE

Function Sets the search type or queries the current setting.

Syntax :SEARCh<x>:TYPE {CANbus|EDGE|EQUalify|I2Cbus|LEDGe|LI2Cbus|LINbus|LLINbus|LQUalify|LSPAttern|LSPibus|LState|LUARt|LWIDth|SPAttern|SPIbus|STATe|UART|WIDTh}
:SEARCh<x>:TYPE?
<x> = 1 or 2

Example :SEARCH1:TYPE CANbus
:SEARCH1:TYPE? -> :SEARCH1:TYPE CANbus

Description {LEDGe|LI2Cbus|LLINbus|LQUalify|LSPAttern|LSPibus|LState|LUARt|LWIDth} can be applied to DL9505L, DL9510L, DL9705L, and DL9710L.

: SEARCh<x>: UART?

Function Queries all settings related to the UART bus signal search.

Syntax :SEARCh<x>:UART?
<x> = 1 or 2

Example :SEARCH1:UART? -> :SEARCH1:UART:
BRATE 19200;DATA:BITORDER LSBFIRST;
DSIZE 1;PATTERN "X0101001";:SEARCH1:
UART:ERROR:FRAMING 1;PARITY 1;
PMODE EVEN;:SEARCH1:UART:
FORMAT BIT7PARITY;MODE DATA;
POLARITY NEGATIVE;SPOINT 18.8E+00;
TRACE 1

: SEARCh<x>: UART: BRATe

Function Sets the UART bus signal search bit rate (data transfer rate) or queries the current setting.

Syntax :SEARCh<x>:UART:
BRATe {<Nrf>|USER,<Nrf>}
:SEARCh<x>:UART:BRATe?
<x> = 1 or 2
<Nrf> = 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
<Nrf> of USER = See section 5.6.

Example :SEARCH1:UART:BRATE 19200
:SEARCH1:UART:BRATE? -> :SEARCH1:UART:
BRATE 19200

: SEARCh<x>: UART: DATA?

Function Queries all settings related to data of the UART bus signal search

Syntax :SEARCh<x>:UART:DATA?
<x> = 1 or 2

Example :SEARCH1:UART:DATA? -> :SEARCH1:UART:
DATA:BITORDER LSBFIRST;DSIZE 1;
PATTERN "X0101001"

: SEARCh<x>: UART: DATA: BITOrder

Function Sets the data bit order of the UART bus signal search or queries the current setting.

Syntax :SEARCh<x>:UART:DATA:
BITOrder {LSBFirst|MSBFirst}
:SEARCh<x>:UART:DATA:BITOrder?
<x> = 1 or 2

Example :SEARCH1:UART:DATA:BITORDER LSBFIRST
:SEARCH1:UART:DATA:BITORDER? ->
:SEARCH1:UART:DATA:BITORDER LSBFIRST

: SEARCh<x>: UART: DATA: DSIZE

Function Sets the number of data bytes of the UART bus signal search or queries the current setting.

Syntax :SEARCh<x>:UART:DATA:DSIZE {<Nrf>}
:SEARCh<x>:UART:DATA:DSIZE?
<x> = 1 or 2
<Nrf> = 1 to 4

Example :SEARCH1:UART:DATA:DSIZE 1
:SEARCH1:UART:DATA:DSIZE? ->
:SEARCH1:UART:DATA:DSIZE 1

: SEARCh<x>: UART: DATA: HEXA

Function Sets the UART bus signal search data in hexadecimal.

Syntax :SEARCh<x>:UART:DATA:HEXA {<String>}
<x> = 1 or 2
<String> = Up to 8 characters by combining '0' to 'F' and 'X,' units of 1 byte

Example :SEARCH1:UART:DATA:HEXA "A9"

7.4 SEARCh Group

:SEARCh<x>:UART:DATA:PATtern

Function Sets the data of the UART bus signal search in binary or queries the current setting.

Syntax :SEARCh<x>:UART:DATA:PATtern {<String>}
:SEARCh<x>:UART:DATA:PATtern?

<x> = 1 or 2

<String> = Up to 32 characters by combining '0,' '1,' and 'X,' units of 1 byte

Example :SEARCH1:UART:DATA:PATTERN "11011111"
:SEARCH1:UART:DATA:PATTERN? ->
:SEARCH1:UART:DATA:PATTERN "11011111"

:SEARCh<x>:UART:ERRor?

Function Queries all settings related to the UART bus signal search error.

Syntax :SEARCh<x>:UART:ERRor?

<x> = 1 or 2

Example :SEARCH1:UART:ERROR? -> :SEARCH1:UART:
ERROR:FRAMING 1;PARITY 1;PMODE EVEN

:SEARCh<x>:UART:ERRor:FRAMing

Function Sets the UART bus signal search Framing error or queries the current setting.

Syntax :SEARCh<x>:UART:ERRor:
FRAMing {<Boolean>}
:SEARCh<x>:UART:ERRor:FRAMing?

<x> = 1 or 2

Example :SEARCH1:UART:ERROR:FRAMING ON
:SEARCH1:UART:ERROR:FRAMING? ->
:SEARCH1:UART:ERROR:FRAMING 1

:SEARCh<x>:UART:ERRor:PARity

Function Sets the UART bus signal search Parity error or queries the current setting.

Syntax :SEARCh<x>:UART:ERRor:
PARity {<Boolean>}
:SEARCh<x>:UART:ERRor:PARity?

<x> = 1 or 2

Example :SEARCH1:UART:ERROR:PARITY ON
:SEARCH1:UART:ERROR:PARITY? ->
:SEARCH1:UART:ERROR:PARITY 1

:SEARCh<x>:UART:ERRor:PMODE

Function Sets the UART bus signal search Parity mode or queries the current setting.

Syntax :SEARCh<x>:UART:ERRor:PMODE {EVEN|ODD}
:SEARCh<x>:UART:ERRor:PMODE?

<x> = 1 or 2

Example :SEARCH1:UART:ERROR:PMODE EVEN
:SEARCH1:UART:ERROR:PMODE? -> :SEARCH1:
UART:ERROR:PMODE EVEN

:SEARCh<x>:UART:FORMat

Function Sets the UART bus signal search format or queries the current setting.

Syntax :SEARCh<x>:UART:FORMat {BIT7parity|
BIT8Noparity|BIT8Parity}

:SEARCh<x>:UART:FORMat?

<x> = 1 or 2

Example :SEARCH1:UART:FORMAT BIT7PARITY
:SEARCH1:UART:FORMAT? -> :SEARCH1:UART:
FORMAT BIT7PARITY

:SEARCh<x>:UART:MODE

Function Sets the UART bus signal search mode or queries the current setting.

Syntax :SEARCh<x>:UART:MODE {DATA|ERRor}

:SEARCh<x>:UART:MODE?

<x> = 1 or 2

Example :SEARCH1:UART:MODE DATA
:SEARCH1:UART:MODE? -> :SEARCH1:UART:
MODE DATA

:SEARCh<x>:UART:POLarity

Function Sets the UART bus signal search polarity or queries the current setting.

Syntax :SEARCh<x>:UART:
POLarity {NEGative|POSitive}

:SEARCh<x>:UART:POLarity?

<x> = 1 or 2

Example :SEARCH1:UART:POLARITY NEGATIVE
:SEARCH1:UART:POLARITY? -> :SEARCH1:
UART:POLARITY NEGATIVE

:SEARCh<x>:UART:SPOint

Function Sets the UART bus signal search sample point or queries the current setting.

Syntax :SEARCh<x>:UART:SPOint {<Nrf>}

:SEARCh<x>:UART:SPOint?

<x> = 1 or 2

<Nrf> = 18.8 to 90.6(%)

Example :SEARCH1:UART:SPOINT 18.8
:SEARCH1:UART:SPOINT? -> :SEARCH1:UART:
SPOINT 18.8E+00

:SEARCh<x>:UART:TRACe

Function Sets the UART bus signal search trace or queries the current setting.

Syntax :SEARCh<x>:UART:TRACe {<Nrf>}

:SEARCh<x>:UART:TRACe?

<x> = 1 or 2

<Nrf> = 1 to 8

Example :SEARCH1:UART:TRACE 1
:SEARCH1:UART:TRACE? -> :SEARCH1:UART:
TRACE 1

7.5 SERIALbus Group

:SERialbus?

Function Queries all settings related to the serial bus setup.

Syntax :SERialbus?

Example :SERIALBUS? -> :SERIALBUS:SETUP1:
 CANBUS:BRATE 83300;RECESSIVE HIGH;
 TRACE 1;SPOINT 18.8E+00;:
 SERIALBUS:SETUP1:I2CBUS:CLOCK 1;
 DTRACE 1;:SERIALBUS:SETUP1:LINBUS:BRATE
 19200;REVISION LIN1_3;TRACE 1;
 SPOINT 18.8E+00;:SERIALBUS:SETUP1:
 SPIBUS:BITORDER LSBFIRST;CLOCK:POLARITY
 FALL;TRACE 1;:SERIALBUS:SETUP1:SPIBUS:
 CS:ACTIVE HIGH;
 TRACE 1;:SERIALBUS:SETUP1:SPIBUS:DATA1:
 ACTIVE HIGH;TRACE 1;:SERIALBUS:SETUP1:
 SPIBUS:DATA2:ACTIVE HIGH;
 TRACE 3;:SERIALBUS:SETUP1:SPIBUS:
 MODE WIRE3;:SERIALBUS:SETUP1:TRACE1:
 HYSTERESIS 1.0000000E+00;
 LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
 TRACE2:
 HYSTERESIS 300.00000E-03;
 LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
 TRACE3:
 HYSTERESIS 300.00000E-03;
 LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
 TRACE4:
 HYSTERESIS 300.00000E-03;
 LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
 TRACE5:
 HYSTERESIS 300.00000E-03;
 LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
 TRACE6:
 HYSTERESIS 300.00000E-03;
 LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
 TRACE7:
 HYSTERESIS 300.00000E-03;
 LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
 TRACE8:
 HYSTERESIS 300.00000E-03;
 LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
 TYPE CANBUS;UART:
 BITORDER LSBFIRST;BRATE 19200;
 FORMAT BIT7PARITY;PMODE EVEN;
 POLARITY NEGATIVE;TRACE 1;
 SPOINT 18.8E+00;:SERIALBUS:SETUP2:
 CANBUS:BRATE 500000;RECESSIVE HIGH;
 TRACE 1;SPOINT 62.5E+00.....

:SERialbus:SETup<x>?

Function Queries all settings related to each setup of the serial bus setup.

Syntax :SERialbus:SETup<x>?
 <x> = 1 or 2

Example :SERIALBUS:SETUP1? -> :SERIALBUS:
 SETUP1:CANBUS:BRATE 83300;
 RECESSIVE HIGH;TRACE 1;
 SPOINT 18.8E+00;:SERIALBUS:
 SETUP1:I2CBUS:CLOCK 1;DTRACE 1;:
 SERIALBUS:SETUP1:LINBUS:BRATE 19200;
 REVISION LIN1_3;TRACE 1;
 SPOINT 18.8E+00;:SERIALBUS:SETUP1:
 SPIBUS:BITORDER LSBFIRST;CLOCK:POLARITY
 FALL;TRACE 1;:SERIALBUS:SETUP1:SPIBUS:
 CS:ACTIVE HIGH;
 TRACE 1;:SERIALBUS:SETUP1:SPIBUS:DATA1:
 ACTIVE HIGH;TRACE 1;:SERIALBUS:SETUP1:
 SPIBUS:DATA2:ACTIVE HIGH;
 TRACE 3;:SERIALBUS:SETUP1:SPIBUS:
 MODE WIRE3;:SERIALBUS:SETUP1:TRACE1:
 HYSTERESIS 1.0000000E+00;
 LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
 TRACE2:
 HYSTERESIS 300.00000E-03;
 LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
 TRACE3:
 HYSTERESIS 300.00000E-03;
 LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
 TRACE4:
 HYSTERESIS 300.00000E-03;
 LEVEL 0.0000000E+00;:SERIALBUS:SETUP1:
 TRACE5:
 HYSTERESIS 300.00000E-03;
 LEVEL 0.0000000E+00;:
 SERIALBUS:SETUP1:TRACE5:
 HYSTERESIS 300.00000E-03;
 LEVEL 0.0000000E+00.....

:SERialbus:SETup<x>:ASETup:ABORT

Function Cancels auto setup of the serial bus setup.

Syntax :SERialbus:SETup<x>:ASETup:ABORT
 <x> = 1 or 2

Example :SERIALBUS:SETUP1:ASETUP:ABORT

:SERialbus:SETup<x>:ASETup:EXECute

Function Executes auto setup of the serial bus setup.

Syntax :SERialbus:SETup<x>:ASETup:EXECute
 <x> = 1 or 2

Example :SERIALBUS:SETUP1:ASETUP:EXECUTE

7.5 SERIALbus Group

:SERIALbus:SETup<x>:ASETup:UNDO

Function Undoes the executed auto setup of the serial bus setup.

Syntax :SERIALbus:SETup<x>:ASETup:UNDO
<x> = 1 or 2

Example :SERIALBUS:SETUP1:ASETUP:UNDO

:SERIALbus:SETup<x>:CANBus?

Function Queries all settings related to the CAN bus setup.

Syntax :SERIALbus:SETup<x>:CANBus?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:CANBUS?
-> :SERIALBUS:SETUP1:CANBUS:
BRATE 83300;RECESSIVE HIGH;TRACE 1;
SPOINT 18.8E+00

:SERIALbus:SETup<x>:CANBus:BRATE

Function Sets the CAN bus setup bit rate (data transfer rate) or queries the current setting.

Syntax :SERIALbus:SETup<x>:CANBus:
BRATE {<Nrf>|USER,<Nrf>}
:SERIALbus:SETup<x>:CANBus:BRATE?
<x> = 1 or 2
<Nrf> = 33300, 83300, 125000, 250000, 500000,
1000000
<Nrf> of USER = See section 5.3.

Example :SERIALBUS:SETUP1:CANBUS:BRATE 83300
:SERIALBUS:SETUP1:CANBUS:BRATE?
-> :SERIALBUS:SETUP1:CANBUS:BRATE 83300

:SERIALbus:SETup<x>:CANBus:REcessive

Function Sets the CAN bus setup recessive level (bus level) or queries the current setting.

Syntax :SERIALbus:SETup<x>:CANBus:
REcessive {HIGH|LOW}
:SERIALbus:SETup<x>:CANBus:
REcessive?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:CANBUS:RECESSIVE HIGH
:SERIALBUS:SETUP1:CANBUS:RECESSIVE?
-> :SERIALBUS:SETUP1:CANBUS:
RECESSIVE HIGH

:SERIALbus:SETup<x>:CANBus:SPOint

Function Sets the CAN bus setup sample point or queries the current setting.

Syntax :SERIALbus:SETup<x>:CANBus:
SPOint {<Nrf>}
:SERIALbus:SETup<x>:CANBus:SPOint?
<x> = 1 or 2
<Nrf> = 18.8 to 90.6(%)

Example :SERIALBUS:SETUP1:CANBUS:SPOINT 18.8
:SERIALBUS:SETUP1:CANBUS:SPOINT?
-> :SERIALBUS:SETUP1:CANBUS:
SPOINT 18.8E+00

:SERIALbus:SETup<x>:CANBus:TRACe

Function Sets the CAN bus setup trace or queries the current setting.

Syntax :SERIALbus:SETup<x>:CANBus:
TRACe {<Nrf>}
:SERIALbus:SETup<x>:CANBus:TRACe?
<x> = 1 or 2
<Nrf> = 1 to 8

Example :SERIALBUS:SETUP1:CANBUS:TRACE 1
:SERIALBUS:SETUP1:CANBUS:TRACE?
-> :SERIALBUS:SETUP1:CANBUS:TRACE 1

:SERIALbus:SETup<x>:I2CBus?

Function Queries all settings related to the I2C bus setup.

Syntax :SERIALbus:SETup<x>:I2CBus?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:I2CBUS?
-> :SERIALBUS:SETUP1:I2CBUS:CLOCK 1;
TRACE 1

:SERIALbus:SETup<x>:I2CBus:CLOCK

Function Sets the I2C bus setup clock channel or queries the current setting.

Syntax :SERIALbus:SETup<x>:I2CBus:
CLOCK {<Nrf>|A<y>|B<y>|C<y>|D<y>}
:SERIALbus:SETup<x>:I2CBus:CLOCK?
<x> = 1 or 2
<Nrf> = 1 to 8
<y> = 0 to 7

Example :SERIALBUS:SETUP1:I2CBUS:CLOCK 1
:SERIALBUS:SETUP1:I2CBUS:CLOCK?
-> :SERIALBUS:SETUP1:I2CBUS:CLOCK 1

Description {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:SERIALbus:SETup<x>:I2CBus:DTRace

Function Sets the I2C bus signal analysis data channel or queries the current setting.

Syntax :SERIALbus:SETup<x>:I2CBus:
DTRace {<Nrf>|A<y>|B<y>|C<y>|D<y>}
:SERIALbus:SETup<x>:I2CBus:DTRace?
<x> = 1 or 2
<Nrf> = 1 to 8
<y> = 0 to 7

Example :SERIALBUS:SETUP1:I2CBUS:DTRACE 1
:SERIALBUS:SETUP1:I2CBUS:DTRACE?
-> :SERIALBUS:SETUP1:I2CBUS:DTRACE 1

Description {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

: SERIALBUS:SETUP<x>:LINBUS?

Function Queries all settings related to the LIN bus setup.

Syntax :SERIALBUS:SETUP<x>:LINBUS?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:LINBUS?
-> :SERIALBUS:SETUP1:LINBUS:
BRATE 19200;REVISION LIN1_3;TRACE 1;
SPOINT 18.8E+00

: SERIALBUS:SETUP<x>:LINBUS:BRATE

Function Sets the LIN bus setup bit rate (data transfer rate) or queries the current setting.

Syntax :SERIALBUS:SETUP<x>:LINBUS:
BRATE {<NRF>|USER,<NRF>}
:SERIALBUS:SETUP<x>:LINBUS:BRATE?
<x> = 1 or 2

<NRF> = 1200, 2400, 4800, 9600, 19200
<NRF> of USER = See section 5.4.

Example :SERIALBUS:SETUP1:LINBUS:BRATE 19200
:SERIALBUS:SETUP1:LINBUS:BRATE?
-> :SERIALBUS:SETUP1:LINBUS:BRATE 19200

: SERIALBUS:SETUP<x>:LINBUS:REVISION

Function Sets the LIN bus setup revision (1.3, 2.0, or Both) or queries the current setting.

Syntax :SERIALBUS:SETUP<x>:LINBUS:
REVISION {BOTH|LIN1_3|LIN2_0}
:SERIALBUS:SETUP<x>:LINBUS:REVISION?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:LINBUS:
REVISION LIN1_3
:SERIALBUS:SETUP1:LINBUS:REVISION?
-> :SERIALBUS:SETUP1:LINBUS:
REVISION LIN1_3

: SERIALBUS:SETUP<x>:LINBUS:SPOINT

Function Sets the LIN bus setup sample point or queries the current setting.

Syntax :SERIALBUS:SETUP<x>:LINBUS:
SPOINT {<NRF>}
:SERIALBUS:SETUP<x>:LINBUS:SPOINT?
<x> = 1 or 2

<NRF> = 18.8 to 90.6(%)

Example :SERIALBUS:SETUP1:LINBUS:SPOINT 18.8
:SERIALBUS:SETUP1:LINBUS:SPOINT?
-> :SERIALBUS:SETUP1:LINBUS:
SPOINT 18.8E+00

: SERIALBUS:SETUP<x>:LINBUS:TRACE

Function Sets the LIN bus setup trace or queries the current setting.

Syntax :SERIALBUS:SETUP<x>:LINBUS:
TRACE {<NRF>|A<y>|B<y>|C<y>|D<y>}
:SERIALBUS:SETUP<x>:LINBUS:TRACE?
<x> = 1 or 2
<NRF> = 1 to 8
<y> = 0 to 7

Example :SERIALBUS:SETUP1:LINBUS:TRACE 1
:SERIALBUS:SETUP1:LINBUS:TRACE?
-> :SERIALBUS:SETUP1:LINBUS:TRACE 1

Description {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

: SERIALBUS:SETUP<x>:SPIBUS?

Function Queries all settings related to the SPI bus setup.

Syntax :SERIALBUS:SETUP<x>:SPIBUS?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:SPIBUS?
-> :SERIALBUS:SETUP1:SPIBUS:
BITORDER LSBFIRST;CLOCK:POLARITY FALL;
TRACE 1;:SERIALBUS:SETUP1:SPIBUS:CS:
ACTIVE HIGH;TRACE 1;:SERIALBUS:SETUP1:
SPIBUS:DATA1:ACTIVE HIGH;TRACE 1;:
SERIALBUS:SETUP1:SPIBUS:DATA2:
ACTIVE HIGH;TRACE 3;:SERIALBUS:SETUP1:
SPIBUS:ITIME 10.0000E-09;MODE WIRE3

: SERIALBUS:SETUP<x>:SPIBUS:BITORDER

Function Sets the SPI bus setup bit order or queries the current setting.

Syntax :SERIALBUS:SETUP<x>:SPIBUS:
BITORDER {LSBFirst|MSBFirst}
:SERIALBUS:SETUP<x>:SPIBUS:BITORDER?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:SPIBUS:
BITORDER LSBFIRST
:SERIALBUS:SETUP1:SPIBUS:BITORDER?
-> :SERIALBUS:SETUP1:SPIBUS:
BITORDER LSBFIRST

: SERIALBUS:SETUP<x>:SPIBUS:CLOCK?

Function Queries all settings related to the channel of the clock signal of the SPI bus setup.

Syntax :SERIALBUS:SETUP<x>:SPIBUS:CLOCK?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:SPIBUS:CLOCK?
-> :SERIALBUS:SETUP1:SPIBUS:CLOCK:
POLARITY FALL;TRACE 1

7.5 SERIALbus Group

:SERIALbus:SETUP<x>:SPIBUS:CLOCK:POLARITY

Function Sets the polarity of the channel of the clock signal of the SPI bus setup.

Syntax :SERIALbus:SETUP<x>:SPIBUS:CLOCK:
POLARITY {FALL|RISE}
:SERIALbus:SETUP<x>:SPIBUS:CLOCK:
POLARITY?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:SPIBUS:CLOCK:
POLARITY FALL
:SERIALBUS:SETUP1:SPIBUS:CLOCK:
POLARITY? -> :SERIALBUS:SETUP1:SPIBUS:
CLOCK:POLARITY FALL

:SERIALbus:SETUP<x>:SPIBUS:CLOCK:TRACE

Function Sets the channel of the clock signal of the SPI bus setup or queries the current setting.

Syntax :SERIALbus:SETUP<x>:SPIBUS:CLOCK:
TRACE {<NRF>|A<y>|B<y>|C<y>|D<y>}
:SERIALbus:SETUP<x>:SPIBUS:CLOCK:
TRACE?
<x> = 1 or 2
<NRF> = 1 to 8
<y> = 0 to 7

Example :SERIALBUS:SETUP1:SPIBUS:CLOCK:
TRACE 1
:SERIALBUS:SETUP1:SPIBUS:CLOCK:TRACE?
-> :SERIALBUS:SETUP1:SPIBUS:CLOCK:
TRACE 1

Description {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:SERIALbus:SETUP<x>:SPIBUS:CS?

Function Queries all settings related to the channel of the chip select signal of the SPI bus setup.

Syntax :SERIALbus:SETUP<x>:SPIBUS:CS?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:SPIBUS:CS?
-> :SERIALBUS:SETUP1:SPIBUS:CS:
ACTIVE HIGH;TRACE 1

:SERIALbus:SETUP<x>:SPIBUS:CS:ACTIVE

Function Sets the active level of the channel of the chip select signal of the SPI bus setup or queries the current setting.

Syntax :SERIALbus:SETUP<x>:SPIBUS:CS:
ACTIVE {HIGH|LOW}
:SERIALbus:SETUP<x>:SPIBUS:CS:ACTIVE?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:SPIBUS:CS:ACTIVE HIGH
:SERIALBUS:SETUP1:SPIBUS:CS:ACTIVE?
-> :SERIALBUS:SETUP1:SPIBUS:CS:
ACTIVE HIGH

:SERIALbus:SETUP<x>:SPIBUS:CS:TRACE

Function Sets the channel of the chip select signal of the SPI bus setup or queries the current setting.

Syntax :SERIALbus:SETUP<x>:SPIBUS:CS:
TRACE {<NRF>|A<y>|B<y>|C<y>|D<y>|ANONE
|LNONE}
:SERIALbus:SETUP<x>:SPIBUS:CS:TRACE?
<x> = 1 or 2
<NRF> = 1 to 8
<y> = 0 to 7

Example :SERIALBUS:SETUP1:SPIBUS:CS:TRACE 1
:SERIALBUS:SETUP1:SPIBUS:CS:TRACE?
-> :SERIALBUS:SETUP1:SPIBUS:CS:TRACE 1

Description • {A<y>|B<y>|C<y>|D<y>|ANONE|LNONE} can be applied to the DL9705L and DL9710L. {A<y>|C<y>|ANONE|LNONE} can be applied to the DL9505L and DL9510L.

- Specify ANONE when you want to use the idle time to control the analog SPI bus data start position.
- Specify LNONE when you want to use the idle time to control the logic SPI bus data start position.

:SERIALbus:SETUP<x>:SPIBUS:DATA<x>?

Function Queries all settings related to each data of the SPI bus setup.

Syntax :SERIALbus:SETUP<x>:SPIBUS:DATA<x>?
<x> of SETUP<x> = 1 or 2
<x> of DATA<x> = 1 or 2

Example :SERIALBUS:SETUP1:SPIBUS:DATA1?
-> :SERIALBUS:SETUP1:SPIBUS:DATA1:
ACTIVE HIGH;TRACE 1

:SERIALbus:SETUP<x>:SPIBUS:DATA<x>:ACTIVE

Function Sets the active level of each data of the SPI bus setup or queries the current setting.

Syntax :SERIALbus:SETUP<x>:SPIBUS:DATA<x>:
ACTIVE {HIGH|LOW}
:SERIALbus:SETUP<x>:SPIBUS:DATA<x>:
ACTIVE?
<x> of SETUP<x> = 1 or 2
<x> of DATA<x> = 1 or 2

Example :SERIALBUS:SETUP1:SPIBUS:DATA1:
ACTIVE HIGH
:SERIALBUS:SETUP1:SPIBUS:DATA1:ACTIVE?
-> :SERIALBUS:SETUP1:SPIBUS:DATA1:
ACTIVE HIGH

: SERIALBUS:SETUP<x>:SPIBUS:DATA<x>:TRACE

Function Sets each data channel of the SPI bus setup or queries the current setting.

Syntax :SERIALBUS:SETUP<x>:SPIBUS:DATA<x>:
TRACE {<NRf>|A<y>|B<y>|C<y>|D<y>}
:SERIALBUS:SETUP<x>:SPIBUS:DATA<x>:
TRACE?
<x> of SETUP<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<NRf> = 1 to 8
<y> = 0 to 7

Example :SERIALBUS:SETUP1:SPIBUS:DATA1:
TRACE 1
:SERIALBUS:SETUP1:SPIBUS:DATA1:TRACE?
-> :SERIALBUS:SETUP1:SPIBUS:DATA1:
TRACE 1

Description {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

: SERIALBUS:SETUP<x>:SPIBUS:ITIME

Function Sets the idle time used in SPI bus setup or queries the current setting.

Syntax :SERIALBUS:SETUP<x>:SPIBUS:
ITIME {<Time>}
:SERIALBUS:SETUP<x>:SPIBUS:ITIME?
<x> = 1 or 2
<Time> = 10ns to 1ms in 10-ns steps

Example :SERIALBUS:SETUP1:SPIBUS:ITIME 10NS
:SERIALBUS:SETUP1:SPIBUS:ITIME?
-> :SERIALBUS:SETUP1:SPIBUS:
ITIME 10.0000E-09

: SERIALBUS:SETUP<x>:SPIBUS:MODE

Function Sets the wiring method (3-wire/4-wire) of the SPI bus setup or queries the current setting.

Syntax :SERIALBUS:SETUP<x>:SPIBUS:
MODE {WIRE3|WIRE4}
:SERIALBUS:SETUP<x>:SPIBUS:MODE?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:SPIBUS:MODE WIRE3
:SERIALBUS:SETUP1:SPIBUS:MODE?
-> :SERIALBUS:SETUP1:SPIBUS:MODE WIRE3

: SERIALBUS:SETUP<x>:TRACE<x>?

Function Queries all settings related to each trace.

Syntax :SERIALBUS:SETUP<x>:TRACE<x>?
<x> of SETUP<x> = 1 or 2
<x> of TRACE<x> = 1 to 8

Example :SERIALBUS:SETUP1:TRACE1?
-> :SERIALBUS:SETUP1:TRACE1:
HYSTERESIS 1.0000000E+00;
LEVEL 0.0000000E+00

**: SERIALBUS:SETUP<x>:TRACE<x>:
HYSTERESIS**

Function Sets the hysteresis of the threshold level of each trace or queries the current setting.

Syntax :SERIALBUS:SETUP<x>:TRACE<x>:
HYSTERESIS {<NRf>}
:SERIALBUS:SETUP<x>:TRACE<x>:
HYSTERESIS?
<x> of SETUP<x> = 1 or 2
<x> of TRACE<x> = 1 to 8
<NRf> = 0 to 4(div, in 0.1-div steps)

Example :SERIALBUS:SETUP1:TRACE1:HYSTERESIS 1
:SERIALBUS:SETUP1:TRACE1:HYSTERESIS?
-> :SERIALBUS:SETUP1:TRACE1:
HYSTERESIS 1.000E+00

: SERIALBUS:SETUP<x>:TRACE<x>:LEVEL

Function Sets the threshold level of each trace or queries the current setting.

Syntax :SERIALBUS:SETUP<x>:TRACE<x>:
LEVEL {<NRf>|<Voltage>|<Current>}
:SERIALBUS:SETUP<x>:TRACE<x>:LEVEL?
<x> of SETUP<x> = 1 or 2
<x> of TRACE<x> = 1 to 8
<NRf>, <Voltage>, <Current> = See sections 5.2 to 5.6.

Example :SERIALBUS:SETUP1:TRACE1:LEVEL 0
:SERIALBUS:SETUP1:TRACE1:LEVEL?
-> :SERIALBUS:SETUP1:TRACE1:
LEVEL 0.000E+00

: SERIALBUS:SETUP<x>:TYPE

Function Sets the serial bus setup type or queries the current setting.

Syntax :SERIALBUS:SETUP<x>:TYPE {CANBus|
I2CBus|LINBus|SPIBus|UART}
:SERIALBUS:SETUP<x>:TYPE?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:TYPE CANBUS
:SERIALBUS:SETUP1:TYPE?
-> :SERIALBUS:SETUP1:TYPE CANBUS

: SERIALBUS:SETUP<x>:UART?

Function Queries all settings related to the UART bus setup.

Syntax :SERIALBUS:SETUP<x>:UART?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:UART? -> :SERIALBUS:
SETUP1:UART:BITORDER LSBFIRST;
BRATE 19200;FORMAT BIT7PARITY;
PMODE EVEN;POLARITY NEGATIVE;TRACE 1;
SPOINT 18.8E+00

7.5 SERIALbus Group

:SERIALbus:SETUP<x>:UART:BITOrder

Function Sets the UART bus setup bit order or queries the current setting.

Syntax :SERIALbus:SETUP<x>:UART:
BITOrder {LSBFirst|MSBFirst}
:SERIALbus:SETUP<x>:UART:BITOrder?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:UART:BITORDER
LSBFIRST
:SERIALBUS:SETUP1:UART:BITORDER?
-> :SERIALBUS:SETUP1:UART:
BITORDER LSBFIRST

:SERIALbus:SETUP<x>:UART:BRATE

Function Sets the UART bus setup bit rate (data transfer rate) or queries the current setting.

Syntax :SERIALbus:SETUP<x>:UART:
BRATE {<Nrf>|USER,<Nrf>}
:SERIALbus:SETUP<x>:UART:BRATE?
<x> = 1 or 2
<Nrf> = 1200, 2400, 4800, 9600, 19200, 38400,
57600, 115200

Example :SERIALBUS:SETUP1:UART:BRATE 19200
:SERIALBUS:SETUP1:UART:BRATE?
-> :SERIALBUS:SETUP1:UART:BRATE 19200

:SERIALbus:SETUP<x>:UART:FORMat

Function Sets the UART bus setup data format or queries the current setting.

Syntax :SERIALbus:SETUP<x>:UART:
FORMat {BIT7parity|BIT8Noparity|
BIT8Parity}
:SERIALbus:SETUP<x>:UART:FORMat?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:UART:
FORMAT BIT7PARITY
:SERIALBUS:SETUP1:UART:FORMAT?
-> :SERIALBUS:SETUP1:UART:
FORMAT BIT7PARITY

:SERIALbus:SETUP<x>:UART:PMODE

Function Sets the UART bus setup Parity mode or queries the current setting.

Syntax :SERIALbus:SETUP<x>:UART:
PMODE {EVEN|ODD}
:SERIALbus:SETUP<x>:UART:PMODE?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:UART:PMODE EVEN
:SERIALBUS:SETUP1:UART:PMODE?
-> :SERIALBUS:SETUP1:UART:PMODE EVEN

:SERIALbus:SETUP<x>:UART:POLarity

Function Sets the UART bus setup polarity or queries the current setting.

Syntax :SERIALbus:SETUP<x>:UART:
POLarity {NEGative|POSitive}
:SERIALbus:SETUP<x>:UART:POLarity?
<x> = 1 or 2

Example :SERIALBUS:SETUP1:UART:POLARITY
NEGATIVE
:SERIALBUS:SETUP1:UART:POLARITY?
-> :SERIALBUS:SETUP1:UART:
POLARITY NEGATIVE

:SERIALbus:SETUP<x>:UART:SPOINT

Function Sets the UART bus setup sample point or queries the current setting.

Syntax :SERIALbus:SETUP<x>:UART:SPOINT {<Nrf>}
:SERIALbus:SETUP<x>:UART:SPOINT?
<x> = 1 or 2
<Nrf> = 18.8 to 90.6(%)

Example :SERIALBUS:SETUP1:UART:SPOINT 18.8
:SERIALBUS:SETUP1:UART:SPOINT?
-> :SERIALBUS:SETUP1:UART:
SPOINT 18.8E+00

:SERIALbus:SETUP<x>:UART:TRACe

Function Sets the UART bus setup trace or queries the current setting.

Syntax :SERIALbus:SETUP<x>:UART:
TRACe {<Nrf>|A<y>|B<y>|C<y>|D<y>}
:SERIALbus:SETUP<x>:UART:TRACe?
<x> = 1 or 2
<Nrf> = 1 to 8
<y> = 0 to 7

Example :SERIALBUS:SETUP1:UART:TRACE 1
:SERIALBUS:SETUP1:UART:TRACE?
-> :SERIALBUS:SETUP1:UART:TRACE 1

Description {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:SERIALbus:TLINK

Function Sets the serial bus setup trigger link or queries the current setting.

Syntax :SERIALbus:TLINK {OFF|SETUP1|SETUP2}
:SERIALbus:TLINK?

Example :SERIALBUS:TLINK OFF
:SERIALBUS:TLINK?
-> :SERIALBUS:TLINK OFF

7.6 TRIGger Group

:TRIGger:EINterval:EVENT<x>:CANBus?

Function Queries all settings related to the CAN bus trigger of the event.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
ACK DONTCARE;BRATE 1000000;DATA:
BORDER BIG;CONDITION DONTCARE;
DATA1 0.0000000E+00;
DATA2 255.00000E+00;DLC 8;MSBLSB 7,0;
PATTERN "111001010110010001111000100100
110010101000100001000111111111010";
SIGNUNSIGN;:TRIGGER:EINTERVAL:EVENT1:
CANBUS:IDEXT:PATTERN "XXXXXXXXXXXXXXXXXX
XXXXXXXXXXXX";:TRIGGER:EINTERVAL:
EVENT1:CANBUS:IDOR:ID1:ACK DONTCARE;
DATA:BORDER BIG;CONDITION DONTCARE;
DATA1 0.0000000E+00;
DATA2 255.00000E+00;DLC 8;MSBLSB 7,0;
PATTERN "000000010010001101000101011001
1110001001101010111100110111101111";
SIGN UNSIGN;:TRIGGER:EINTERVAL:EVENT1:
CANBUS:IDOR:ID1:FORMAT STD;IDEXT:
PATTERN "11010101111001101111011110000";:
TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:IDSTD:PATTERN "00100100011";:
TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:MODE 0;RTR DATA;:TRIGGER:EINTERVAL:
EVENT1:CANBUS:IDOR:ID2:ACK DONTCARE;
DATA:BORDER BIG;CONDITION DONTCARE;
DATA1 0.0000000E+00;
DATA2 255.00000E+00;DLC 8;MSBLSB 7,0;
PATTERN "111111101101110010111010100110
0001110110010101000011001000010000";
SIGN UNSIGN;:TRIGGER:EINTERVAL:EVENT1:
CANBUS:IDOR:ID2:FORMAT STD;IDEXT:
PATTERN "10010001101000101011001111000"
;:
TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID2:IDSTD:PATTERN "10001010110";:
TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID2:MODE 0.....

:TRIGger:EINterval:EVENT<x>:CANBus:ACK

Function Sets the ACK condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
ACK {ACK|ACKBoth|DONTcare|NONack}
:TRIGger:EINterval:EVENT<x>:CANBus:ACK?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:
ACK ACK
:TRIGGER:EINTERVAL:EVENT1:CANBUS:ACK?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
ACK ACK

:TRIGger:EINterval:EVENT<x>:CANBus:BRATe

Function Sets the bit rate (data transfer rate) of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
BRATe {<Nrf>|USER,<Nrf>}
:TRIGger:EINterval:EVENT<x>:CANBus:
BRATe?
<x> = 1 or 2

<Nrf> = 33300, 83300, 125000, 250000, 500000,
1000000
<Nrf> of USER = See section 3.2.
Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:
BRATE 83300
:TRIGGER:EINTERVAL:EVENT1:CANBUS:
BRATE?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
BRATE 83300

:TRIGger:EINterval:EVENT<x>:CANBus:DATA?

Function Queries all settings related to the CAN bus signal trigger data.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
DATA?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:
DATA?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
DATA:BORDER BIG;CONDITION DONTCARE;
DATA1 0.0000000E+00;
DATA2 255.00000E+00;DLC 8;MSBLSB 7,0;
PATTERN "111001010110010001111000100100
110010101000100001000111111111010";
SIGN UNSIGN

7.6 TRIGger Group

:TRIGger:EINterval:EVENT<x>:CANBus:DATA:BORDER

Function Sets the byte order of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
DATA:BORDER {BIG|LITTLe}
:TRIGger:EINterval:EVENT<x>:CANBus:
DATA:BORDER?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:DATA:
BORDER BIG
:TRIGGER:EINTERVAL:EVENT1:CANBUS:DATA:
BORDER?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
DATA:BORDER BIG

:TRIGger:EINterval:EVENT<x>:CANBus:DATA:CONDition

Function Sets the data condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
DATA:CONDition {BETween|DONTcare|FALSe|
GTHan|LTHan|ORANge|TRUE}
:TRIGger:EINterval:EVENT<x>:CANBus:
DATA:CONDition?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:DATA:
CONDITION BETWEEN
:TRIGGER:EINTERVAL:EVENT1:CANBUS:DATA:
CONDITION?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
DATA:CONDITION BETWEEN

:TRIGger:EINterval:EVENT<x>:CANBus:DATA:DATA<x>

Function Sets the comparison data of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
DATA:DATA<x> {<NRf>}
:TRIGger:EINterval:EVENT<x>:CANBus:
DATA:DATA<x>?
<x> of EVENT<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<NRf> = See section 3.2.

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:
DATA:DATA1 1
:TRIGGER:EINTERVAL:EVENT1:CANBUS:DATA:
DATA1?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
DATA:DATA1 1.0000000E+00

Description

- **Use** :TRIGger:EINterval:EVENT<x>:CANBus:DATA:DATA1 when :TRIGger:EINterval:EVENT<x>:CANBus:DATA:CONDition GTHan is specified.
- **Use** :TRIGger:EINterval:EVENT<x>:CANBus:DATA:DATA2 when :TRIGger:EINterval:EVENT<x>:CANBus:DATA:CONDition LTHan is specified.
- **Use** :TRIGger:EINterval:EVENT<x>:CANBus:DATA:DATA1 to set the smaller value and :TRIGger:EINterval:EVENT<x>:CANBus:DATA:DATA2 to set the larger value when :TRIGger:EINterval:EVENT<x>:CANBus:DATA:CONDition BETWEEN|ORANge is specified.

:TRIGger:EINterval:EVENT<x>:CANBus:DATA:DLC

Function Sets the number of valid bytes (DLC) of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
DATA:DLC {<NRf>}
:TRIGger:EINterval:EVENT<x>:CANBus:
DATA:DLC?
<x> = 1 or 2
<NRf> = 0 to 8

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:DATA:
DLC 0
:TRIGGER:EINTERVAL:EVENT1:CANBUS:DATA:
DLC?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
DATA:DLC 0

:TRIGger:EINterval:EVENT<x>:CANBus:**DATA:HEXA**

Function Sets the CAN bus signal trigger data in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
DATA:HEXA {<String>}
<x> = 1 or 2
<String> = Up to 16 characters by combining '0' to 'F' and 'X' (in one-byte unit)

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:
DATA:HEXA "A9"

:TRIGger:EINterval:EVENT<x>:CANBus:**DATA:MSBLSb**

Function Sets the MSB and LSB bits of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
DATA:MSBLSb {<Nrf>,<Nrf>}
:TRIGger:EINterval:EVENT<x>:CANBus:
DATA:MSBLSb?
<x> = 1 or 2
<Nrf> = See section 3.2.

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:DATA:
MSBLSB 1,0
:TRIGGER:EINTERVAL:EVENT1:CANBUS:DATA:
MSBLSB?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
DATA:MSBLSB 1,0

:TRIGger:EINterval:EVENT<x>:CANBus:**DATA:PATtern**

Function Sets the CAN bus signal trigger data in binary notation or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
DATA:PATtern {<String>}
:TRIGger:EINterval:EVENT<x>:CANBus:
DATA:PATtern?
<x> = 1 or 2
<String> = Up to 64 characters by combining '0','1,' and 'X' (in one-byte unit)

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:DATA:
PATTERN "11011111"
:TRIGGER:EINTERVAL:EVENT1:CANBUS:DATA:
PATTERN?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
DATA:PATTERN "11011111"

:TRIGger:EINterval:EVENT<x>:CANBus:**DATA:SIGN**

Function Sets the sign of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
DATA:SIGN {SIGN|UNSign}
:TRIGger:EINterval:EVENT<x>:CANBus:
DATA:SIGN?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:DATA:
SIGN SIGN
:TRIGGER:EINTERVAL:EVENT1:CANBUS:DATA:
SIGN?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
DATA:SIGN SIGN

:TRIGger:EINterval:EVENT<x>:CANBus:**IDExt?**

Function Queries all settings related to the ID of the extended format of the CAN bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
IDExt?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDEXT?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDEXT:PATTERN "110010110111000011101110
11111"

:TRIGger:EINterval:EVENT<x>:CANBus:**IDExt:HEXA**

Function Sets the ID of the extended format of the CAN bus signal trigger in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
IDExt:
HEXA {<String>}
<x> = 1 or 2
<String> = 8 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDEXT:
HEXA "1AEP5906"

7.6 TRIGger Group

:TRIGger:EINterval:EVENT<x>:CANBus:IDEXt:PATtern

Function Sets the ID of the extended format of the CAN bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:IDEXt:PATtern {<String>}
:TRIGger:EINterval:EVENT<x>:CANBus:IDEXt:PATtern?

<x> = 1 or 2

<String> = 29 characters by combining '0','1,' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDEXT:PATTERN "11001011011100001110111011111"
:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDEXT:PATTERN? -> :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDEXT:PATTERN "11001011011100001110111011111"

:TRIGger:EINterval:EVENT<x>:CANBus:IDOR?

Function Queries all settings related to the OR condition of the CAN bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:IDOR?

<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR? -> :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:ACK DONTCARE;DATA: BORDER BIG;CONDITION DONTCARE; DATA1 0.000000E+00; DATA2 255.00000E+00;DLC 8;MSBLSB 7,0; PATTERN "00000010010001101000101011001111000100110101111001101111011111"; SIGN UNSIGN;:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:FORMAT STD;IDEXT: PATTERN "11010101111001101111011110000";: TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:IDSTD:PATTERN "00100100011";: TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:MODE 0;RTR DATA;:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID2:ACK DONTCARE; DATA:BORDER BIG;CONDITION DONTCARE; DATA1 0.000000E+00; DATA2 255.00000E+00;DLC 8;MSBLSB 7,0; PATTERN "111111101101110010111010100110001101100010000"; SIGN UNSIGN;:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID2:FORMAT STD;IDEXT: PATTERN"10010001101000101011001111000";: TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID2:IDSTD:PATTERN "10001010110";: TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID2:MODE 0;RTR DATA;:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID3:ACK DONTCARE; DATA:BORDER BIG;CONDITION DONTCARE; DATA1 0.000000E+00; DATA2 255.00000E+00;DLC 8.....

:TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>?

Function Queries all settings related to each ID of the OR condition of the CAN bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>?

<x> of EVENT<x> = 1 or 2

<x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:ACK DONTCARE;DATA: BORDER BIG;CONDITION DONTCARE; DATA1 0.000000E+00; DATA2 255.00000E+00;DLC 8;MSBLSB 7,0; PATTERN "00000010010001101000101011001111000100110101111001101111011111"; SIGN UNSIGN;:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:FORMAT STD;IDEXT: PATTERN "11010101111001101111011110000";:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:IDSTD: PATTERN"00100100011";:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:MODE 0;RTR DATA

:TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:ACK

Function Sets each ACK trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:ACK {ACK|ACKBoth|DONTcare|NONack}

:TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:ACK?

<x> of EVENT<x> = 1 or 2

<x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:ACK ACK
:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:ACK?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:ACK ACK

:TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA?

Function Queries all settings related to each data of the OR condition of the CAN bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA?
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:DATA?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:DATA:BORDER BIG;
CONDITION DONTCARE;DATA1 0.0000000E+00;
DATA2 255.00000E+00;DLC 8;MSBLSB 7,0;
PATTERN "00000001001000110100010101100111100010011011100110111101111";
SIGN UNSIGN

:TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:BORDER

Function Sets byte order of each data of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:BORDER {BIG|LITTLE}
:TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:BORDER?
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:DATA:BORDER BIG
:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:DATA:BORDER?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:DATA:BORDER BIG

:TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:CONDition

Function Sets each data condition of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:CONDition {BETween|DONTcare|FALSe|GTHan|LTHan|ORANge|TRUE}
:TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:CONDition?
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:DATA:CONDITION BETWEEN
:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:DATA:CONDITION?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:DATA:CONDITION BETWEEN

:TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:DATA<x>

Function Sets comparison data of each data of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:DATA<x> {<NRF>}
:TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:DATA<x>?
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4
<x> of DATA<x> = 1 or 2
<NRF> = See section 3.2.

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:DATA:DATA1 1
:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:DATA:DATA1?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:DATA:DATA1 1.0000000E+00

Description • Use :TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:DATA1 when :TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:CONDition GTHan is specified.
• Use :TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:DATA2 when :TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:CONDition LTHan is specified.
• Use :TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:DATA1 to set the smaller value and :TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:DATA2 to set the larger value when :TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:CONDition BETWEE|ORANge is specified.

:TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:DLC

Function Sets the number of valid bytes (DLC) of each data of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:DLC {<NRF>}
:TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:DATA:DLC?
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4
<NRF> = 0 to 8

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:DATA:DLC 0
:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:DATA:DLC?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:DATA:DLC 0

7.6 TRIGger Group

:TRIGger:EINterval:EVENT<x>:CANBus: IDOR:ID<x>:DATA:HEXA

Function Sets each data of the OR condition of the CAN bus signal trigger in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:DATA:HEXA {<String>}
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4
<String> = Up to 16 characters by combining '0' to 'F' and 'X' (in one-byte unit)

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:DATA:HEXA "A9"

:TRIGger:EINterval:EVENT<x>:CANBus: IDOR:ID<x>:DATA:MSBLSb

Function Sets the MSB and LSB bits of each data of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:DATA:MSBLSb {<Nrf>,<Nrf>}
:TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:DATA:MSBLSb?
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4
<Nrf> = See section 3.2.

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:DATA:MSBLSB 1,0
:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:DATA:MSBLSB?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:DATA:MSBLSB 1,0

:TRIGger:EINterval:EVENT<x>:CANBus: IDOR:ID<x>:DATA:PATtern

Function Sets each data of the OR condition of the CAN bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:DATA:PATtern {<String>}
:TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:DATA:PATtern?
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4
<String> = Up to 64 characters by combining '0','1,' and 'X' (in one-byte unit)

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:DATA:PATTERN "11011111"
:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:DATA:PATTERN?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:DATA:PATTERN "11011111"

:TRIGger:EINterval:EVENT<x>:CANBus: IDOR:ID<x>:DATA:SIGN

Function Sets sign of each data of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:DATA:SIGN {SIGN|UNSign}
:TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:DATA:SIGN?
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:DATA:SIGN SIGN
:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:DATA:SIGN?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:DATA:SIGN SIGN

:TRIGger:EINterval:EVENT<x>:CANBus: IDOR:ID<x>:FORMat

Function Sets each message format (standard or extended) of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:FORMat {STD|EXT}
:TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:FORMat?
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:FORMAT STD
:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:FORMAT?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:FORMAT STD

:TRIGger:EINterval:EVENT<x>:CANBus: IDOR:ID<x>:IDEXt?

Function Queries all settings related to the ID of each extended format of the OR condition of the CAN bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:IDEXt?
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:IDEXT?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:IDEXT:PATTERN "110010110111
00001110111011111"

**:TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:IDEXt:HEXA**

Function Sets the ID of each extended format of the OR condition of the CAN bus signal trigger in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:IDEXt:HEXA {<String>}
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4
<String> = 8 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:IDEXT:HEXA "1AEF5906"

**:TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:IDEXt:PATtern**

Function Sets the ID of each extended format of the OR condition of the CAN bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:IDEXt:PATtern {<String>}
:TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:IDEXt:PATtern?
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4
<String> = 29 characters by combining '0','1,' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:IDEXT:PATTERN "11001011011100001110
1110111111"
:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:IDEXT:PATTERN?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:IDEXT:PATTERN "110010110111
000011101110111111"

**:TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:IDSTd?**

Function Queries all settings related to the ID of each standard format of the OR condition of the CAN bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:IDSTd?
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:IDSTD?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:IDSTD:PATTERN "00011111101"

**:TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:IDSTd:HEXA**

Function Sets the ID of each standard format of the OR condition of the CAN bus signal trigger in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:IDSTd:HEXA {<String>}
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4
<String> = 3 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:IDSTD:HEXA "5DF"

**:TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:IDSTd:PATtern**

Function Sets the ID of each standard format of the OR condition of the CAN bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:IDSTd:PATtern {<String>}
:TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:IDSTd:PATtern?
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4
<String> = 11 characters by combining '0','1,' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:IDSTD:PATTERN "10111011111"
:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:IDSTD:PATTERN?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:IDSTD:PATTERN "10111011111"

**:TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:MODE**

Function Enables or disables each condition of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:MODE {<Boolean>}
:TRIGger:EINterval:EVENT<x>:CANBus:
IDOR:ID<x>:MODE?
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:MODE ON
:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:
ID1:MODE?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
IDOR:ID1:MODE 1

7.6 TRIGger Group

:TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:RTR

Function Sets each RTR of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:RTR {DATA|DONTcare|REMOte}
:TRIGger:EINterval:EVENT<x>:CANBus:IDOR:ID<x>:RTR?
<x> of EVENT<x> = 1 or 2
<x> of ID<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:RTR DATA
:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:RTR?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDOR:ID1:RTR DATA

:TRIGger:EINterval:EVENT<x>:CANBus:IDSTd?

Function Queries all settings related to the ID of the standard format of the CAN bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:IDSTd?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDSTd?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDSTd:PATTERN "00011111101"

:TRIGger:EINterval:EVENT<x>:CANBus:IDSTd:HEXA

Function Sets the ID of the standard format of the CAN bus signal trigger in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:IDSTd:HEXA {<String>}
<x> = 1 or 2
<String> = 8 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDSTd:HEXA "5DF"

:TRIGger:EINterval:EVENT<x>:CANBus:IDSTd:PATtern

Function Sets the ID of the standard format of the CAN bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:IDSTd:PATtern {<String>}
:TRIGger:EINterval:EVENT<x>:CANBus:IDSTd:PATtern?
<x> = 1 or 2
<String> = 11 characters by combining '0', '1,' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDSTd:PATTERN "10111011111"
:TRIGGER:EINTERVAL:EVENT1:CANBUS:IDSTd:PATTERN?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:IDSTd:PATTERN "10111011111"

:TRIGger:EINterval:EVENT<x>:CANBus:MODE

Function Sets the CAN bus signal trigger mode or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:MODE {EFrame|IDExt|IDOR|IDSTd|SOF}
:TRIGger:EINterval:EVENT<x>:CANBus:MODE?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:MODE EFRAME
:TRIGGER:EINTERVAL:EVENT1:CANBUS:MODE?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:MODE EFRAME

:TRIGger:EINterval:EVENT<x>:CANBus:REcessive

Function Sets the recessive level (bus level) of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:REcessive {HIGH|LOW}
:TRIGger:EINterval:EVENT<x>:CANBus:REcessive?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:RECESSIVE HIGH
:TRIGGER:EINTERVAL:EVENT1:CANBUS:RECESSIVE?
-> :TRIGGER:EINTERVAL:EVENT1:CANBUS:RECESSIVE HIGH

:TRIGger:EINterval:EVENT<x>:CANBus:RTR
 Function Sets the RTR of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
 RTR {DATA|DONTcare|REMOte}
 :TRIGger:EINterval:EVENT<x>:CANBus:RTR?
 <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:
 RTR DATA
 :TRIGGER:EINTERVAL:EVENT1:CANBUS:
 RTR?
 -> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
 RTR DATA

:TRIGger:EINterval:EVENT<x>:CANBus:SOURCE

Function Sets the trigger source of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
 SOURCE {<NRF>}
 :TRIGger:EINterval:EVENT<x>:CANBus:
 SOURCE?
 <x> = 1 or 2
 <NRF> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:
 SOURCE 1
 :TRIGGER:EINTERVAL:EVENT1:CANBUS:
 SOURCE?
 -> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
 SOURCE 1

:TRIGger:EINterval:EVENT<x>:CANBus:SPOint

Function Sets the sample point of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:CANBus:
 SPOint {<NRF>}
 :TRIGger:EINterval:EVENT<x>:CANBus:
 SPOint?
 <x> = 1 or 2
 <NRF> = 18.8 to 90.6(%)

Example :TRIGGER:EINTERVAL:EVENT1:CANBUS:
 SPOINT 18.8
 :TRIGGER:EINTERVAL:EVENT1:CANBUS:
 SPOINT?
 -> :TRIGGER:EINTERVAL:EVENT1:CANBUS:
 SPOINT 18.8E+00

:TRIGger:EINterval:EVENT<x>:I2CBus?
 Function Queries all settings related to the I²C bus signal trigger of the event.

Syntax :TRIGger:EINterval:EVENT<x>:I2CBus?
 <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS?
 -> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:
 ADATA:BIT10ADDRESS:
 PATTERN " 10111011111";:TRIGGER:
 EINTERVAL:EVENT1:I2CBUS:ADATA:
 BIT7ADDRESS:PATTERN " 11011110";:
 TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
 BIT7APSUB:ADDRESS:PATTERN " 10101011";:
 TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
 BIT7APSUB:SADDRESS:PATTERN " 10101011";:
 TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
 TYPE BIT10ADDRESS;:TRIGGER:EINTERVAL:
 EVENT1:I2CBUS:CLOCK:SOURCE 1;:TRIGGER:
 EINTERVAL:EVENT1:I2CBUS:DATA:BYTE 1;
 CONDITION TRUE;DPOSITION 1;MODE 1;
 PATTERN1 " 10101011";
 PATTERN2 " 10101010";
 PATTERN3 " 10101111";
 PATTERN4 " 10101011";PMODE DONTCARE;
 SOURCE 1;:TRIGGER:EINTERVAL:EVENT1:
 I2CBUS:GCALL:BIT7MADDRESS:
 PATTERN " 1010101";:TRIGGER:EINTERVAL:
 EVENT1:I2CBUS:GCALL:
 SBYTE BIT7MADDRESS;:TRIGGER:EINTERVAL:
 EVENT1:I2CBUS:MODE ADATA;NAIGNORE:
 HSMODE 1;RACCESS 1;SBYTE 1;:TRIGGER:
 EINTERVAL:EVENT1:I2CBUS:SBHSMODE:
 TYPE HSMODE

:TRIGger:EINterval:EVENT<x>:I2CBus:ADATa?

Function Queries all settings related to the address of the I²C bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:I2CBus:
 ADATa?
 <x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA?
 -> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:
 ADATA:BIT10ADDRESS:
 PATTERN " 10111011111";:TRIGGER:
 EINTERVAL:EVENT1:I2CBUS:ADATA:
 BIT7ADDRESS:
 PATTERN " 11011110";:TRIGGER:EINTERVAL:
 EVENT1:I2CBUS:ADATA:BIT7APSUB:ADDRESS:
 PATTERN " 10101011";:TRIGGER:EINTERVAL:
 EVENT1:I2CBUS:ADATA:BIT7APSUB:SADDRESS:
 PATTERN " 10101011";:TRIGGER:EINTERVAL:
 EVENT1:I2CBUS:ADATA:TYPE BIT10ADDRESS

7.6 TRIGger Group

:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT10address?

Function Queries all settings related to the 10-bit address of the I²C bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:
ADATa:BIT10address?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
BIT10ADDRESS?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:
ADATA:BIT10ADDRESS:
PATTERN " 10111011111"

:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT10address:HEXA

Function Sets the 10-bit address of the I²C bus signal trigger in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:
ADATa:BIT10address:HEXA {<String>}
<x> = 1 or 2
<String> = 3 characters by combining '0' to 'F' and 'X'
(bit 8 is the R/W bit)

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
BIT10ADDRESS:HEXA " 7AB"

:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT10address:PATtern

Function Sets the 10-bit address of the I²C bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:
ADATa:BIT10address:PATtern {<String>}
:TRIGger:EINterval:EVENT<x>:I2Cbus:
ADATa:BIT10address:PATtern?
<x> = 1 or 2
<String> = 11 characters by combining '0', '1', and 'X'
(bit 8 is the R/W bit)

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
BIT10ADDRESS:PATTERN " 10111011111"
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
BIT10ADDRESS:PATTERN?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:
ADATA:BIT10ADDRESS:
PATTERN " 10111011111"

:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7Address?

Function Queries all settings related to the 7-bit address of the I²C bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:
ADATa:BIT7Address?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
BIT7ADDRESS?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:
ADATA:BIT7ADDRESS:PATTERN " 11011110"

:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7Address:HEXA

Function Sets the 7-bit address of the I²C bus signal trigger in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:
ADATa:BIT7Address:HEXA {<String>}
<x> = 1 or 2

<String> = 2 characters by combining '0' to 'F' and 'X'
(bit 0 is the R/W bit)

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
BIT7ADDRESS:HEXA " DE"

:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7Address:PATtern

Function Sets the 7-bit address of the I²C bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:
ADATa:BIT7Address:PATtern {<String>}
:TRIGger:EINterval:EVENT<x>:I2Cbus:
ADATa:BIT7Address:PATtern?
<x> = 1 or 2

<String> = 8 characters by combining '0', '1', and 'X'
(bit 0 is the R/W bit)

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
BIT7ADDRESS:PATTERN " 11011110"
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
BIT7ADDRESS:PATTERN?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:
ADATA:BIT7ADDRESS:PATTERN " 11011110"

:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7APsub?

Function Queries all settings related to the 7-bit + Sub address of the I²C bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:
ADATa:BIT7APsub?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:
BIT7APSUB?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:
ADATA:BIT7APSUB:ADDRESS:
PATTERN " 10101011";:TRIGGER:EINTERVAL:
EVENT1:I2CBUS:ADATA:BIT7APSUB:
SADDRESS:PATTERN " 10101011"

:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7APsub:ADDRESS?

Function Queries all settings related to the 7-bit address of the 7-bit + Sub address of the I²C bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7APsub:ADDRESS?<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:BIT7APSUB:ADDRESS?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:BIT7APSUB:ADDRESS:PATTERN " 10101011"

:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7APsub:ADDRESS:HEXA

Function Sets the 7-bit address of the 7-bit + Sub address of the I²C bus signal trigger in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7APsub:ADDRESS:HEXA {<String>}<x> = 1 or 2
<String> = 2 characters by combining '0' to 'F' and 'X' (bit 0 is the R/W bit)

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:BIT7APSUB:ADDRESS:HEXA " AB"

:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7APsub:ADDRESS:PATtern

Function Sets the 7-bit address of the 7-bit + Sub address of the I²C bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7APsub:ADDRESS:PATtern {<String>}
:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7APsub:ADDRESS:PATtern?<x> = 1 or 2
<String> = 8 characters by combining '0', '1', and 'X' (bit 0 is the R/W bit)

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:BIT7APSUB:ADDRESS:PATTERN " 10101011"
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:BIT7APSUB:ADDRESS:PATTERN?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:BIT7APSUB:ADDRESS:PATTERN " 10101011"

:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7APsub:SADDRESS?

Function Queries all settings related to the Sub address of the 7-bit + Sub address of the I²C bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7APsub:SADDRESS?<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:BIT7APSUB:SADDRESS?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:BIT7APSUB:SADDRESS:PATTERN " 10101011"

:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7APsub:SADDRESS:HEXA

Function Sets the Sub address of the 7-bit + Sub address of the I²C bus signal trigger in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7APsub:SADDRESS:HEXA {<String>}<x> = 1 or 2
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:BIT7APSUB:SADDRESS:HEXA " EF"

:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7APsub:SADDRESS:PATtern

Function Sets the Sub address of the 7-bit + Sub address of the I²C bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7APsub:SADDRESS:PATtern {<String>}
:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:BIT7APsub:SADDRESS:PATtern?<x> = 1 or 2
<String> = 8 characters by combining '0', '1', and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:BIT7APSUB:SADDRESS:PATTERN " 10101011"
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:BIT7APSUB:SADDRESS:PATTERN?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATA:BIT7APSUB:SADDRESS:PATTERN " 10101011"

7.6 TRIGger Group

:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:TYPE

Function Sets the address type of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:TYPE {BIT10address|BIT7Address|BIT7APsub}
:TRIGger:EINterval:EVENT<x>:I2Cbus:ADATa:TYPE?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATa:TYPE BIT10ADDRESS
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATa:TYPE? -> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:ADATa:TYPE BIT10ADDRESS

:TRIGger:EINterval:EVENT<x>:I2Cbus:CLOCK?

Function Queries all settings related to the clock channel of the I²C bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:CLOCK?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:CLOCK? -> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:CLOCK:SOURCE 1

:TRIGger:EINterval:EVENT<x>:I2Cbus:CLOCK:SOURCE

Function Sets the clock channel of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:CLOCK:SOURCE {<NRF>}
:TRIGger:EINterval:EVENT<x>:I2Cbus:CLOCK:SOURCE?
<x> = 1 or 2
<NRF> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:CLOCK:SOURCE 1
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:CLOCK:SOURCE?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:CLOCK:SOURCE 1

:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA?

Function Queries all settings related to the data of the I²C bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:DATA?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:BYTE 1;CONDITION TRUE;DPOSITION 1;MODE 1;PATTERN1 " 10101011";
PATTERN2 " 10101010";
PATTERN3 " 10101111";
PATTERN4 " 10101011";PMODE DONTCARE;
SOURCE 1

:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:BYTE

Function Sets the number of data bytes of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:BYTE {<NRF>}
:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:BYTE?
<x> = 1 or 2
<NRF> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:BYTE 1
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:BYTE?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:BYTE 1

:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:CONDITION

Function Sets the determination method (match or not match) of the data of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:CONDITION {FALSE|TRUE}
:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:CONDITION?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:CONDITION TRUE
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:CONDITION?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:CONDITION TRUE

:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:DPOSITION

Function Sets the position for comparing the data pattern of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:DPOSITION {<Nrf>}
:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:DPOSITION?
<x> = 1 or 2
<Nrf> = 0 to 9999

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:DPOSITION 1
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:DPOSITION?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:DPOSITION 1

:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:HEXA<x>

Function Sets the data of the I²C bus signal trigger in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:HEXA<x> {<String>}
<x> of EVENT<x> = 1 or 2
<x> of HEXA<x> = 1 to 4
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:HEXA1 " AB"

:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:MODE

Function Enables/Disables the data conditions of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:MODE {<Boolean>}
:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:MODE?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:MODE ON
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:MODE?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:MODE 1

:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:PATTERN<x>

Function Sets the data of the I²C bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:PATTERN<x> {<String>}
:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:PATTERN<x>?
<x> of EVENT<x> = 1 or 2
<x> of <PATTERN x> = 1 to 4
<String> = 8 characters by combining '0', '1', and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:PATTERN1 " 10101011"
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:PATTERN1?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:PATTERN1 " 10101011"

:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:PMODE

Function Sets the pattern comparison start position mode of the data of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:PMODE {DONTcare|SELECT}
:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:PMODE?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:PMODE SELECT
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:PMODE?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:PMODE SELECT

:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:SOURCE

Function Sets the data channel of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:SOURCE {<Nrf>}
:TRIGger:EINterval:EVENT<x>:I2Cbus:DATA:SOURCE?
<x> = 1 or 2
<Nrf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:SOURCE 1
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:SOURCE?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:DATA:SOURCE 1

7.6 TRIGger Group

:TRIGger:EINterval:EVENT<x>:I2Cbus:GCAL1?

Function Queries all settings related to the general call of the I²C bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:GCAL1?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:BIT7MADDRESS:PATTERN " 1010101";
TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:SBYTE BIT7MADDRESS

:TRIGger:EINterval:EVENT<x>:I2Cbus:GCAL1:BIT7maddress?

Function Queries all settings related to the 7-bit master address of the general call of the I²C bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:GCAL1:BIT7maddress?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:BIT7MADDRESS?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:BIT7MADDRESS:PATTERN " 1010101"

:TRIGger:EINterval:EVENT<x>:I2Cbus:GCAL1:BIT7maddress:HEXA

Function Sets the 7-bit master address of the general call of the I²C bus signal trigger in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:GCAL1:BIT7maddress:HEXA {<String>}
<x> = 1 or 2
<String> = 2 characters by combining '0' to 'F' and 'X' (bit 0 is fixed to 1)

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:BIT7MADDRESS:HEXA " AB"

:TRIGger:EINterval:EVENT<x>:I2Cbus:GCAL1:BIT7maddress:PATtern

Function Sets the 7-bit master address of the general call of the I²C bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:GCAL1:BIT7maddress:PATtern {<String>}
:TRIGger:EINterval:EVENT<x>:I2Cbus:GCAL1:BIT7maddress:PATtern?
<x> = 1 or 2
<String> = 7 characters by combining '0', '1', and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:BIT7MADDRESS:PATTERN " 1010101"
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:BIT7MADDRESS:PATTERN?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:BIT7MADDRESS:PATTERN " 1010101"

:TRIGger:EINterval:EVENT<x>:I2Cbus:GCAL1:SBYTE (Second Byte)

Function Sets the second byte type of the general call of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:GCAL1:SBYTE {BIT7maddress|DONTcare|H04|H06}
:TRIGger:EINterval:EVENT<x>:I2Cbus:GCAL1:SBYTE?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:SBYTE BIT7MADDRESS
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:SBYTE?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:GCALL:SBYTE BIT7MADDRESS

:TRIGger:EINterval:EVENT<x>:I2Cbus:MODE

Function Sets the trigger mode of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:MODE {ADATa|ESTart|GCAL1|NAIgnore|SBHSmode}
:TRIGger:EINterval:EVENT<x>:I2Cbus:MODE?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:MODE ADATA
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:MODE?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:MODE ADATA

:TRIGger:EINterval:EVENT<x>:I2Cbus:NAIgnore?

Function Queries all settings related to the NON ACK ignore mode of the I²C bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:NAIgnore?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:NAIGNORE?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:NAIGNORE:HSMODE 1;RACCESS 1;SBYTE 1

:TRIGger:EINterval:EVENT<x>:I2Cbus:NAIghore:HSMode

Function Sets whether to ignore NON ACK in high speed mode of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:NAIghore:HSMode {<Boolean>}
:TRIGger:EINterval:EVENT<x>:I2Cbus:NAIghore:HSMode?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:NAIGNORE:HSMODE ON
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:NAIGNORE:HSMODE?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:NAIGNORE:HSMODE 1

:TRIGger:EINterval:EVENT<x>:I2Cbus:NAIghore:RACcess

Function Sets whether to ignore NON ACK in read access mode of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:NAIghore:RACcess {<Boolean>}
:TRIGger:EINterval:EVENT<x>:I2Cbus:NAIghore:RACcess?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:NAIGNORE:RACCESS ON
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:NAIGNORE:RACCESS?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:NAIGNORE:RACCESS 1

:TRIGger:EINterval:EVENT<x>:I2Cbus:NAIghore:SBYTE (Start Byte)

Function Sets whether to ignore NON ACK in the start byte of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:NAIghore:SBYTE {<Boolean>}
:TRIGger:EINterval:EVENT<x>:I2Cbus:NAIghore:SBYTE?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:NAIGNORE:SBYTE ON
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:NAIGNORE:SBYTE?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:NAIGNORE:SBYTE 1

:TRIGger:EINterval:EVENT<x>:I2Cbus:SBHSMode?

Function Queries all settings related to the start byte and high speed mode of the I²C bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:SBHSMode?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:SBHSMODE?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:SBHSMODE:TYPE HSMODE

:TRIGger:EINterval:EVENT<x>:I2Cbus:SBHSMode:TYPE

Function Sets the type of the start byte or high speed mode of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:I2Cbus:SBHSMode:TYPE {HSMODE|SBYTE}
:TRIGger:EINterval:EVENT<x>:I2Cbus:SBHSMode:TYPE?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:I2CBUS:SBHSMODE:TYPE HSMODE
:TRIGGER:EINTERVAL:EVENT1:I2CBUS:SBHSMODE:TYPE?
-> :TRIGGER:EINTERVAL:EVENT1:I2CBUS:SBHSMODE:TYPE HSMODE

:TRIGger:EINterval:EVENT<x>:LINbus?

Function Queries all settings related to LIN bus signal triggers of each event.

Syntax :TRIGger:EINterval:EVENT<x>:LINbus?
<x>=1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS?
-> :TRIGGER:EINTERVAL:EVENT1:LINBUS:BRATE 19200;SOURCE 1

:TRIGger:EINterval:EVENT<x>:LINbus:BRATE

Function Sets the LIN bus signal trigger bitrate (data transfer rate) or queries the current setting.

Syntax TRIGger:EINterval:EVENT<x>:LINbus:BRATE {<Nrf>|USER,<Nrf>}
:TRIGger:EINterval:EVENT<x>:LINbus:BRATE?
<x>=1 or 2
<Nrf>=1200, 2400, 4800, 9600, 19200
USER <Nrf>=See section 3.3.

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:BRATE 19200
:TRIGGER:EINTERVAL:EVENT1:LINBUS:BRATE?
-> :TRIGGER:EINTERVAL:EVENT1:LINBUS:BRATE 19200

7.6 TRIGger Group

:TRIGger:EINterval:EVENT<x>:LINBus:SOURCE

Function Sets the LIN bus signal trigger source or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:LINBus:SOURCE {<NRf>}
:TRIGger:EINterval:EVENT<x>:LINBus:SOURCE?
<x>=1 or 2
<NRf>=1-4

Example :TRIGGER:EINTERVAL:EVENT1:LINBUS:SOURCE 1
:TRIGGER:EINTERVAL:EVENT1:LINBUS:SOURCE? -> :TRIGGER:EINTERVAL:EVENT1:LINBUS:SOURCE 1

:TRIGger:EINterval:EVENT<x>:LOGic:I2CBus?

Function Queries all settings related to the logic I²C bus trigger of the event.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:I2CBus?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS? -> :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:BIT10ADDRESS:PATTERN " 10111011111";:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:BIT7ADDRESS:PATTERN " 11011110";:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:BIT7APSUB:ADDRESS:PATTERN " 10101011";:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:BIT7APSUB:SADDRESS:PATTERN " 10101011";:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:ATYPE BIT7ADDRESS;:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:CLOCK:SOURCE A0;:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:DATA:BYTE 1;CONDITION FALSE;DPOSITION 1;MODE 1;PATTERN1 " 10101011";PATTERN2 " XXXXXXXX";PATTERN3 " XXXXXXXX";PATTERN4 " XXXXXXXX";PMODE DONTCARE;SOURCE A0;:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:GCALL:BIT7MADDRESS:PATTERN " 1010101";:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:GCALL:SBYTE BIT7MADDRESS;:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:MODE ADATA;NAIGNORE:HSMODE 1;RACCESS 1;SBYTE 1;:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:SBHSMODE:TYPE HSMODE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINterval:EVENT<x>:LOGic:I2CBus:ADATa?

Function Queries all settings related to the address of the logic I²C bus trigger.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:I2CBus:ADATa?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATa? -> :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:BIT10ADDRESS:PATTERN " 10111011111";:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:BIT7ADDRESS:PATTERN " 11011110";:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:BIT7APSUB:ADDRESS:PATTERN " 10101011";:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:BIT7APSUB:SADDRESS:PATTERN " 10101011";:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:TYPE BIT7ADDRESS

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINterval:EVENT<x>:LOGic:I2CBus:ADATa:BIT10address?

Function Queries all settings related to the 10-bit address of the logic I²C bus trigger.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:I2CBus:ADATa:BIT10address?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATa:BIT10ADDRESS? -> :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATa:BIT10ADDRESS:PATTERN " 10111011111"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINterval:EVENT<x>:LOGic:I2CBus:ADATa:BIT10address:HEXA

Function Sets the 10-bit address of the logic I²C bus trigger in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:I2CBus:ADATa:BIT10address:HEXA {<String>}
<x> = 1 or 2
<String> = 3 characters by combining '0' to 'F' and 'X' (bit 8 is the R \bar{W} bit)

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATa:BIT10ADDRESS:HEXA " 7AB"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINTerval:EVENT<x>:LOGic:**I2CBus:ADATa:BIT10address:PATtern**

Function Sets the 10-bit address of the logic I²C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT10address:
PATtern {<String>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT10address:PATtern?
<x> = 1 or 2
<String> = 11 characters by combining '0' to '1' and 'X'
(bit 8 is the R/W bit)

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:
I2CBUS:ADATA:BIT10ADDRESS:
PATTERN " 10111011111"
:TRIGGER:EINTERVAL:EVENT1:LOGIC:
I2CBUS:ADATA:BIT10ADDRESS:
PATTERN? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:I2CBUS:ADATA:BIT10ADDRESS:
PATTERN " 10111011111"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINTerval:EVENT<x>:LOGic:**I2CBus:ADATa:BIT7Address?**

Function Queries all settings related to the 7-bit address of the logic I²C bus trigger.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7Address?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
ADATA:BIT7ADDRESS? -> :TRIGGER:
EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:
BIT7ADDRESS:PATTERN " 11011110"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINTerval:EVENT<x>:LOGic:**I2CBus:ADATa:BIT7Address:HEXA**

Function Sets the 7-bit address of the logic I²C bus trigger in hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7Address:
HEXA {<String>}
<x> = 1 or 2
<String> = 2 characters by combining '0' to 'F' and 'X'
(bit 0 is the R/W bit)

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
ADATA:BIT7ADDRESS:HEXA " DE"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINTerval:EVENT<x>:LOGic:**I2CBus:ADATa:BIT7Address:PATtern**

Function Sets the 7-bit address of the logic I²C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7Address:
PATtern {<String>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7Address:PATtern?
<x> = 1 or 2
<String> = 8 characters by combining '0' to '1' and 'X'
(bit 0 is the R/W bit)

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
ADATA:BIT7ADDRESS:PATTERN " 11011110"
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
ADATA:BIT7ADDRESS:PATTERN? -> :TRIGGER:
EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:
BIT7ADDRESS:PATTERN " 11011110"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINTerval:EVENT<x>:LOGic:**I2CBus:ADATa:BIT7APsub?**

Function Queries all settings related to the 7-bit address of the 7-bit + Sub address of the logic I²C bus trigger.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7APsub?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
ADATA:BIT7APSUB? -> :TRIGGER:
EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:
BIT7APSUB:ADDRESS:PATTERN " 10101011";;
TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
ADATA:BIT7APSUB:SADDRESS:
PATTERN " 10101011"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINTerval:EVENT<x>:LOGic:**I2CBus:ADATa:BIT7APsub:ADDRESS?**

Function Queries all settings related to the 7-bit address of the 7-bit + Sub address of the logic I²C bus trigger.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7APsub:ADDRESS?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
ADATA:BIT7APSUB:ADDRESS? -> :TRIGGER:
EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:
BIT7APSUB:ADDRESS:PATTERN " 10101011"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.6 TRIGger Group

**:TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7APsub:ADDRESS:HEXA**

Function Sets the 7-bit address of the 7-bit + Sub address of the logic I²C bus trigger in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7APsub:ADDRESS:
HEXA {<String>}
<x> = 1 or 2
<String> = 2 characters by combining '0' to 'F' and 'X'
(bit 0 is the R/W bit)

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
ADATA:BIT7APSUB:ADDRESS:HEXA " AB"

Description This command can be applied to the DL9505L,
DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7APsub:ADDRESS:
PATTERN**

Function Sets the 7-bit address of the 7-bit + Sub address of the logic I²C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7APsub:ADDRESS:
PATTERN {<String>}
:TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7APsub:ADDRESS:PATTERN?
<x> = 1 or 2
<String> = 8 characters by combining '0' to '1' and 'X'
(bit 0 is the R/W bit)

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
ADATA:BIT7APSUB:ADDRESS:
PATTERN " 10101011"
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
ADATA:BIT7APSUB:ADDRESS:
PATTERN? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:I2CBUS:ADATA:BIT7APSUB:ADDRESS:
PATTERN " 10101011"

Description This command can be applied to the DL9505L,
DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7APsub:SADDRESS?**

Function Queries all settings related to the Sub address of the 7-bit + Sub address of the logic I²C bus trigger.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7APsub:SADDRESS?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
ADATA:BIT7APSUB:SADDRESS? -> :TRIGGER:
EINTERVAL:EVENT1:LOGIC:I2CBUS:ADATA:
BIT7APSUB:SADDRESS:PATTERN " 10101011"

Description This command can be applied to the DL9505L,
DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7APsub:SADDRESS:HEXA**

Function Sets the Sub address of the 7-bit + Sub address of the logic I²C bus trigger in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7APsub:SADDRESS:
HEXA {<String>}
<x> = 1 or 2
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
ADATA:BIT7APSUB:SADDRESS:HEXA " EF"

Description This command can be applied to the DL9505L,
DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7APsub:SADDRESS:
PATTERN**

Function Sets the Sub address of the 7-bit + Sub address of the logic I²C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7APsub:SADDRESS:
PATTERN {<String>}
:TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:ADATa:BIT7APsub:SADDRESS:
PATTERN?
<x> = 1 or 2
<String> = 8 characters by combining '0' to '1' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:
I2CBUS:ADATA:BIT7APSUB:SADDRESS:
PATTERN " 10101011"
:TRIGGER:EINTERVAL:EVENT1:LOGIC:
I2CBUS:ADATA:BIT7APSUB:SADDRESS:
PATTERN? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:I2CBUS:ADATA:BIT7APSUB:SADDRESS:
PATTERN " 10101011"

Description This command can be applied to the DL9505L,
DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:ADATa:TYPE**

Function Sets the address type of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:ADATa:TYPE {BIT10address|
BIT7Address|BIT7APsub}
:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:ADATa:TYPE?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
ADATA:TYPE BIT10ADDRESS
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
ADATA:TYPE? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:I2CBUS:ADATA:
TYPE BIT10ADDRESS

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:CLOCK?**

Function Queries all settings related to the clock of the logic I²C bus trigger.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:CLOCK?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
CLOCK? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:I2CBUS:CLOCK:SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:CLOCK:SOURce**

Function Sets the clock trace of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:CLOCK:SOURce {A<y>|B<y>|C<y>|
D<y>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:CLOCK:SOURce?
<x> = 1 or 2
<y> = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
CLOCK:SOURCE A0
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
CLOCK:SOURCE? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:I2CBUS:CLOCK:SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:DATA?**

Function Queries all settings related to the data of the logic I²C bus trigger.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:DATA?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
DATA? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:I2CBUS:DATA:BYTE 1;
CONDITION FALSE;DPOSITION 1;
MODE 1;PATTERN1 " 10101011";
PATTERN2 " XXXXXXXX";
PATTERN3 " XXXXXXXX";
PATTERN4 " XXXXXXXX";PMODE DONTCARE;
SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:DATA:BYTE**

Function Sets the number of data bytes of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:DATA:BYTE {<NRF>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:DATA:BYTE?
<x> = 1 or 2
<NRF> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
DATA:BYTE 1
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
DATA:BYTE? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:I2CBUS:DATA:BYTE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:DATA:CONDition**

Function Sets the determination method (match or not match) of the data of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:DATA:CONDition {FALSe|TRUE}
:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:DATA:CONDition?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:
I2CBUS:DATA:CONDITION FALSE
:TRIGGER:EINTERVAL:EVENT1:LOGIC:
I2CBUS:DATA:CONDITION? -> :TRIGGER:
EINTERVAL:EVENT1:LOGIC:I2CBUS:DATA:
CONDITION FALSE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.6 TRIGger Group

:TRIGger:EINterval:EVENT<x>:LOGic: I2CBus:DATA:DPOSITION

Function Sets the position for comparing the data pattern of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:DATA:DPOSITION {<NRf>}
:TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:DATA:DPOSITION?
<x> = 1 or 2
<NRf> = 0 to 9999

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:
I2CBUS:DATA:DPOSITION 1
:TRIGGER:EINTERVAL:EVENT1:LOGIC:
I2CBUS:DATA:DPOSITION? -> :TRIGGER:
EINTERVAL:EVENT1:LOGIC:I2CBUS:DATA:
DPOSITION 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINterval:EVENT<x>:LOGic: I2CBus:DATA:HEXA<x>

Function Sets the data of the logic I²C bus trigger in hexadecimal notation.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:DATA:HEXA<x> {<String>}
<x> of EVENT<x> = 1 or 2
<x> of HEXA<x> = 1 to 4
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:
I2CBUS:DATA:HEXA1 " AB"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINterval:EVENT<x>:LOGic: I2CBus:DATA:MODE

Function Enables/disables the data conditions of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:DATA:MODE {<Boolean>}
:TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:DATA:MODE?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
DATA:MODE ON
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
DATA:MODE? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:I2CBUS:DATA:MODE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINterval:EVENT<x>:LOGic: I2CBus:DATA:PATtern<x>

Function Sets the data of the I²C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:DATA:PATtern<x> {<String>}
:TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:DATA:PATtern<x>?
<x> of EVENT<x> = 1 or 2
<x> of PATtern<x> = 1 to 4
<String> = 8 characters by combining '0' to '1' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
DATA:PATTERN1 " 10101011"
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
DATA:PATTERN1? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:I2CBUS:DATA:
PATTERN1 " 10101011"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINterval:EVENT<x>:LOGic: I2CBus:DATA:PMODE

Function Sets the pattern comparison start position mode of the data of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:DATA:PMODE {DONTcare|SElect}
:TRIGger:EINterval:EVENT<x>:LOGic:
I2CBus:DATA:PMODE?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
DATA:PMODE DONTCARE
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
DATA:PMODE? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:I2CBUS:DATA:PMODE DONTCARE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:DATA:SOURce**

Function Sets the data trace of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:DATA:SOURce {A<y>|B<y>|C<y>|
D<y>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:DATA:SOURce?
<x> = 1 or 2
<y> = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
DATA:SOURCE A0
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
DATA:SOURCE? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:I2CBUS:DATA:SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:GCALl?**

Function Queries all settings related to the general call of the logic I²C bus trigger.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:GCALl?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
GCALL?
-> :TRIGGER:EINTERVAL:EVENT1:LOGIC:
I2CBUS:GCALL:BIT7MADDRESS:
PATTERN " 1010101"; :TRIGGER:EINTERVAL:
EVENT1:LOGIC:I2CBUS:GCALL:
SBYTE BIT7MADDRESS

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:GCALl:BIT7maddress?**

Function Queries all settings related to the 7-bit master address of the general code of the logic I²C bus trigger.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:GCALl:BIT7maddress?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
GCALL:BIT7MADDRESS? -> :TRIGGER:
EINTERVAL:EVENT1:LOGIC:I2CBUS:GCALL:
BIT7MADDRESS:PATTERN " 1010101"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:GCALl:BIT7maddress:HEXA**

Function Sets the 7-bit master address of the general call of the logic I²C bus trigger in hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:GCALl:BIT7maddress:
HEXA {<String>}
<x> = 1 or 2
<String> = 2 characters by combining '0' to 'F' and 'X'
(bit 0 is fixed 1)

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
GCALL:BIT7MADDRESS:HEXA " AB"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:GCALl:BIT7maddress:PATtern**

Function Sets the 7-bit master address of the general call of the logic I²C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:GCALl:BIT7maddress:
PATtern {<String>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:GCALl:BIT7maddress:PATtern?
<x> = 1 or 2
<String> = 7 characters by combining '0' to '1' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
GCALL:BIT7MADDRESS:PATTERN " 1010101"
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
GCALL:BIT7MADDRESS:
PATTERN? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:I2CBUS:GCALL:BIT7MADDRESS:
PATTERN " 1010101"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.6 TRIGger Group

:TRIGger:EINTerval:EVENT<x>:LOGic: I2CBus:GCALl:SBYTe (Second Byte)

Function Sets the second byte type of the general call of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:GCALl:SBYTe {BIT7maddress|
DONTcare|H04|H06}
:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:GCALl:SBYTe?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
GCALL:SBYTE BIT7MADDRESS
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
GCALL:SBYTE? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:I2CBUS:GCALL:
SBYTE BIT7MADDRESS

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINTerval:EVENT<x>:LOGic: I2CBus:MODE

Function Sets the trigger mode of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:MODE {ADATa|ESTart|GCALl|
NAIGNore|SBHSmode}
:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:MODE?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
MODE ADATA
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
MODE? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:I2CBUS:MODE ADATA

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINTerval:EVENT<x>:LOGic: I2CBus:NAIGNore?

Function Queries all settings related to the NON ACK ignore mode of the logic I²C bus trigger.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:NAIGNore?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
NAIGNORE? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:I2CBUS:NAIGNORE:
HSMODE 1;RACCESS 1;SBYTE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINTerval:EVENT<x>:LOGic: I2CBus:NAIGNore:HSMode

Function Sets whether to ignore NON ACK in high speed mode of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:NAIGNore:HSMode {<Boolean>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:NAIGNore:HSMode?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
NAIGNORE:HSMODE ON
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
NAIGNORE:HSMODE? -> :TRIGGER:
EINTERVAL:EVENT1:LOGIC:I2CBUS:NAIGNORE:
HSMODE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINTerval:EVENT<x>:LOGic: I2CBus:NAIGNore:RACcEss

Function Sets whether to ignore NON ACK in read access mode of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:NAIGNore:RACcEss {<Boolean>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:NAIGNore:RACcEss?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
NAIGNORE:RACCESS ON
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
NAIGNORE:RACCESS? -> :TRIGGER:
EINTERVAL:EVENT1:LOGIC:I2CBUS:NAIGNORE:
RACCESS 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINTerval:EVENT<x>:LOGic: I2CBus:NAIGNore:SBYTe (Start Byte)

Function Sets whether to ignore NON ACK in the start byte of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:NAIGNore:SBYTe {<Boolean>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:NAIGNore:SBYTe?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
NAIGNORE:SBYTE ON
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
NAIGNORE:SBYTE? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:I2CBUS:NAIGNORE:SBYTE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:SBHSmode?**

Function Queries all settings related to the start byte and high speed mode of the logic I²C bus trigger.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:SBHSmode?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
SBHSMODE? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:I2CBUS:SBHSMODE:TYPE HSMODE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:SBHSmode:TYPE**

Function Sets the type of start byte and high speed mode of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:SBHSmode:TYPE {HSMode|SBYTE}
:TRIGger:EINTerval:EVENT<x>:LOGic:
I2CBus:SBHSmode:TYPE?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
SBHSMODE:TYPE HSMODE
:TRIGGER:EINTERVAL:EVENT1:LOGIC:I2CBUS:
SBHSMODE:TYPE? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:I2CBUS:SBHSMODE:
TYPE HSMODE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
LINBus?**

Function Queries all settings related to the logic LIN bus trigger of the event.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
LINBus?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:
LINBUS? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:LINBUS:BRATE 19200;SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
LINBus:BRATe**

Function Sets the bit rate (data transfer rate) of the logic LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
LINBus:BRATe {<Nrf>|USER,<Nrf>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
LINBus:BRATe?
<x> = 1 or 2

<Nrf> = 1200, 2400, 4800, 9600, or 19200
<Nrf> of USER = See section 3.3.

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:
LINBUS:BRATE 19200
:TRIGGER:EINTERVAL:EVENT1:LOGIC:
LINBUS:BRATE? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:LINBUS:BRATE 19200

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
LINBus:SOURce**

Function Sets the trigger source of the logic LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
LINBus:SOURce {A<y>|B<y>|C<y>|D<y>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
LINBus:SOURce?
<x> = 1 or 2
<y> = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:
SOURCE A0
:TRIGGER:EINTERVAL:EVENT1:LOGIC:LINBUS:
SOURCE? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:LINBUS:SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

7.6 TRIGger Group

:TRIGger:EINterval:EVNt<x>:LOGic:SPIBus?

Function Queries all settings related to the logic SPI bus trigger of the event.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:SPIBus?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS? -> :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:BITORDER LSBFIRST;CLOCK:POLARITY FALL;SOURCE A0;:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:CS:ACTIVE HIGH;SOURCE A0;:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:DATA1:BYTE 1;CONDITION FALSE;DPOSITION 1;PATTERN1 " 10101011";PATTERN2 " XXXXXXXX";PATTERN3 " XXXXXXXX";PATTERN4 " XXXXXXXX";SOURCE A0;:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:DATA2:BYTE 1;CONDITION TRUE;DPOSITION 0;PATTERN1 " XXXXXXXX";PATTERN2 " XXXXXXXX";PATTERN3 " XXXXXXXX";PATTERN4 " XXXXXXXX";SOURCE A2;:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:MODE WIRE3

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINterval:EVENT<x>:LOGic:SPIBus:BITorder

Function Sets the bit order of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:SPIBus:BITorder {LSBFirst|MSBFirst}
:TRIGger:EINterval:EVENT<x>:LOGic:SPIBus:BITorder?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:BITORDER LSBFIRST
:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:BITORDER? -> :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:BITORDER LSBFIRST

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINterval:EVENT<x>:LOGic:SPIBus:CLOCK?

Function Queries all settings related to the clock of the logic SPI bus trigger.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:SPIBus:CLOCK?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:CLOCK? -> :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:CLOCK:POLARITY FALL;SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINterval:EVENT<x>:LOGic:SPIBus:CLOCK:POLarity

Function Sets the polarity of the clock trace of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:LOGic:SPIBus:CLOCK:POLarity {FALL|RISE}
:TRIGger:EINterval:EVENT<x>:LOGic:SPIBus:CLOCK:POLarity?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:CLOCK:POLARITY FALL
:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:CLOCK:POLARITY? -> :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:CLOCK:POLARITY FALL

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:CLOck:SOURce**

Function Sets the clock trace of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:CLOck:SOURce {A<y>|B<y>|C<y>|
D<y>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:CLOck:SOURce?
<x> = 1 or 2
<y> = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
CLOCK:SOURCE A0
:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
CLOCK:SOURCE? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:SPIBUS:CLOCK:SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:CS?**

Function Queries all settings related to the chip select of the logic SPI bus trigger.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:CS?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
CS? -> :TRIGGER:EINTERVAL:EVENT1:LOGIC:
SPIBUS:CS:ACTIVE HIGH;SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:CS:ACTive**

Function Sets the active level of the chip select of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:CS:ACTive {HIGH|LOW}
:TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:CS:ACTive?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
CS:ACTIVE HIGH
:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
CS:ACTIVE? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:SPIBUS:CS:ACTIVE HIGH

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:CS:SOURce**

Function Sets the chip select trace of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:CS:SOURce {A<y>|B<y>|C<y>|D<y>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:CS:SOURce?
<x> = 1 or 2
<y> = 0 to 7

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
CS:SOURCE A0
:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
CS:SOURCE? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:SPIBUS:CS:SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

**:TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:DATA<x>?**

Function Queries all settings related to the data of the logic SPI bus trigger.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:DATA<x>?
<x> of EVENT<x> = 1 or 2
<x> of DATA<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
DATA1? -> :TRIGGER:EINTERVAL:EVENT1:
LOGIC:SPIBUS:DATA1:BYTE 1;
CONDITION FALSE;DPOSITION 1;
PATTERN1 " 10101011";
PATTERN2 " XXXXXXXX";
PATTERN3 " XXXXXXXX";
PATTERN4 " XXXXXXXX";SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. DATA2 is valid when :TRIGger:EINTerval:EVENT<x>:LOGic:SPIBus:MODE WIRE4 is specified.

7.6 TRIGger Group

:TRIGger:EINTerval:EVENT<x>:LOGic: SPIBus:DATA<x>:BYTE

Function Sets the number of bytes of the data of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:DATA<x>:BYTE {<Nrf>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:DATA<x>:BYTE?
<x> of EVENT<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<Nrf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
DATA1:BYTE 1
:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
DATA1:BYTE? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:SPIBUS:DATA1:BYTE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINTerval:EVENT<x>:LOGic: SPIBus:DATA<x>:CONDition

Function Sets the determination method (match or not match) of the data of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:DATA<x>:CONDition {FALSE|TRUE}
:TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:DATA<x>:CONDition?
<x> of EVENT<x> = 1 or 2
<x> of DATA<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
DATA1:CONDITION FALSE
:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
DATA1:CONDITION? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:SPIBUS:DATA1:
CONDITION FALSE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINTerval:EVENT<x>:LOGic: SPIBus:DATA<x>:DPOSition

Function Sets the pattern comparison start position of the data of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:DATA<x>:DPOSITION {<Nrf>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:DATA<x>:DPOSITION?
<x> of EVENT<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<Nrf> = 0 to 9999

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
DATA1:DPOSITION 1
:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
DATA1:DPOSITION? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:SPIBUS:DATA1:DPOSITION 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINTerval:EVENT<x>:LOGic: SPIBus:DATA<x>:HEXA<x>

Function Sets the data of the logic SPI bus trigger in hexadecimal notation.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:DATA<x>:HEXA<x> {<String>}
<x> of EVENT<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<x> of HEXA<x> = 1 to 4
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
DATA1:HEXA1 " AB"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:EINTerval:EVENT<x>:LOGic: SPIBus:DATA<x>:PATtern<x>

Function Sets the data of the logic SPI bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:DATA<x>:PATTERN<x> {<String>}
:TRIGger:EINTerval:EVENT<x>:LOGic:
SPIBus:DATA<x>:PATTERN<x>?
<x> of EVENT<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<x> of PATTERN<x> = 1 to 4
<String> = 8 characters by combining '0' to '1' and 'X'

Example :TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
DATA1:PATTERN1 " 10101011"
:TRIGGER:EINTERVAL:EVENT1:LOGIC:SPIBUS:
DATA1:PATTERN1? -> :TRIGGER:EINTERVAL:
EVENT1:LOGIC:SPIBUS:DATA1:
PATTERN1 " 10101011"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: TRIGger: EINTerval: EVENT<x>: LOGic:**SPIBus: DATA<x>: SOURce**

Function Sets the trace of the data of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger: EINTerval: EVENT<x>: LOGic:
SPIBus: DATA<x>: SOURce {A<y>|B<y>|C<y>|
D<y>}
:TRIGger: EINTerval: EVENT<x>: LOGic:
SPIBus: DATA<x>: SOURce?
<x> of EVENT<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<y> = 0 to 7

Example :TRIGGER: EINTerval: EVENT1: LOGIC: SPIBUS:
DATA1: SOURCE A0
:TRIGGER: EINTerval: EVENT1: LOGIC: SPIBUS:
DATA1: SOURCE? -> :TRIGGER: EINTerval:
EVENT1: LOGIC: SPIBUS: DATA1: SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

: TRIGger: EINTerval: EVENT<x>: LOGic:**SPIBus: MODE**

Function Sets the wiring system of the logic SPI bus trigger (three-wire or four-wire) or queries the current setting.

Syntax :TRIGger: EINTerval: EVENT<x>: LOGic:
SPIBus: MODE {WIRE3|WIRE4}
:TRIGger: EINTerval: EVENT<x>: LOGic:
SPIBus: MODE?
<x> = 1 or 2

Example :TRIGGER: EINTerval: EVENT1: LOGIC: SPIBUS:
MODE WIRE3
:TRIGGER: EINTerval: EVENT1: LOGIC: SPIBUS:
MODE? -> :TRIGGER: EINTerval: EVENT1:
LOGIC: SPIBUS: MODE WIRE3

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

: TRIGger: EINTerval: EVENT<x>: SPIBus?

Function Queries all settings related to the SPI bus signal trigger of the event.

Syntax :TRIGger: EINTerval: EVENT<x>: SPIBus?
<x> = 1 or 2

Example :TRIGGER: EINTerval: EVENT1: SPIBUS?
-> :TRIGGER: EINTerval: EVENT1: SPIBUS:
BITORDER LSBFIRST; CLOCK: POLARITY FALL;
SOURCE 1; :TRIGGER: EINTerval: EVENT1:
SPIBUS: CS: ACTIVE HIGH; SOURCE 1;
TRIGGER: EINTerval: EVENT1: SPIBUS: DATA1:
BYTE 1; CONDITION TRUE; DPOSITION 1;
PATTERN1 " 00010010";
PATTERN2 " 00110100";
PATTERN3 " 01010110";
PATTERN4 " 00010010"; SOURCE 3; :TRIGGER:
EINTerval: EVENT1: SPIBUS: DATA2: BYTE 4;
CONDITION TRUE; DPOSITION 1;
PATTERN1 " 00010010";
PATTERN2 " 00110100";
PATTERN3 " 01010110";
PATTERN4 " 00010010"; SOURCE 3; :TRIGGER:
EINTerval: EVENT1: SPIBUS: MODE WIRE3

: TRIGger: EINTerval: EVENT<x>: SPIBus: BITOrder

Function Sets the bit order of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger: EINTerval: EVENT<x>: SPIBus:
BITOrder {LSBFirst|MSBFirst}
:TRIGger: EINTerval: EVENT<x>: SPIBus:
BITOrder?
<x> = 1 or 2

Example :TRIGGER: EINTerval: EVENT1: SPIBUS:
BITORDER LSBFIRST
:TRIGGER: EINTerval: EVENT1: SPIBUS:
BITORDER?
-> :TRIGGER: EINTerval: EVENT1: SPIBUS:
BITORDER LSBFIRST

: TRIGger: EINTerval: EVENT<x>: SPIBus: CLOCK?

Function Queries all settings related to the clock channel of the SPI bus signal trigger.

Syntax :TRIGger: EINTerval: EVENT<x>: SPIBus:
CLOCK?
<x> = 1 or 2

Example :TRIGGER: EINTerval: EVENT1: SPIBUS:
CLOCK?
-> :TRIGGER: EINTerval: EVENT1: SPIBUS:
CLOCK: POLARITY FALL; SOURCE 1

7.6 TRIGger Group

:TRIGger:EINterval:EVENT<x>:SPIBus: CLOCK:POLarity

Function Sets the polarity of the clock channel of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:SPIBus:
CLOCK:POLarity {FALL|RISE}
:TRIGger:EINterval:EVENT<x>:SPIBus:
CLOCK:POLarity?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:CLOCK:
POLARITY FALL
:TRIGGER:EINTERVAL:EVENT1:SPIBUS:CLOCK:
POLARITY?
-> :TRIGGER:EINTERVAL:EVENT1:SPIBUS:
CLOCK:POLARITY FALL

:TRIGger:EINterval:EVENT<x>:SPIBus: CLOCK:SOURce

Function Sets the clock channel of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:SPIBus:
CLOCK:SOURce {<Nrf>}
:TRIGger:EINterval:EVENT<x>:SPIBus:
CLOCK:SOURce?
<x> = 1 or 2
<Nrf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:CLOCK:
SOURCE 1
:TRIGGER:EINTERVAL:EVENT1:SPIBUS:CLOCK:
SOURCE?
-> :TRIGGER:EINTERVAL:EVENT1:SPIBUS:
CLOCK:SOURCE 1

:TRIGger:EINterval:EVENT<x>: SPIBus:CS?

Function Queries all settings related to the chip select channel of the SPI bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:SPIBus:CS?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:CS?
-> :TRIGGER:EINTERVAL:EVENT1:SPIBUS:CS:
ACTIVE HIGH;SOURCE 1

:TRIGger:EINterval:EVENT<x>:SPIBus: CS:ACTive

Function Sets the active level of the chip select channel of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:SPIBus:CS:
ACTive {HIGH|LOW}
:TRIGger:EINterval:EVENT<x>:SPIBus:CS:
ACTive?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:CS:
ACTIVE HIGH
:TRIGGER:EINTERVAL:EVENT1:SPIBUS:CS:
ACTIVE?
-> :TRIGGER:EINTERVAL:EVENT1:SPIBUS:CS:
ACTIVE HIGH

:TRIGger:EINterval:EVENT<x>:SPIBus: CS:SOURce

Function Sets the chip select channel of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:SPIBus:CS:
SOURce {<Nrf>}
:TRIGger:EINterval:EVENT<x>:SPIBus:CS:
SOURce?
<x> = 1 or 2
<Nrf> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:CS:
SOURCE 1
:TRIGGER:EINTERVAL:EVENT1:SPIBUS:CS:
SOURCE?
-> :TRIGGER:EINTERVAL:EVENT1:SPIBUS:CS:
SOURCE 1

:TRIGger:EINterval:EVENT<x>:SPIBus: DATA<x>?

Function Queries all settings related to the data of the SPI bus signal trigger.

Syntax :TRIGger:EINterval:EVENT<x>:SPIBus:
DATA<x>?
<x> of EVENT<x> = 1 or 2
<x> of DATA<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:
DATA1?
-> :TRIGGER:EINTERVAL:EVENT1:SPIBUS:
DATA1:BYTE 1;CONDITION TRUE;
DPOSITION 1;PATTERN1 "00010010";
PATTERN2 "00110100";
PATTERN3 "01010110";
PATTERN4 "00010010";SOURCE 3

Description DATA2 is valid when :TRIGger:EINterval:
EVENT<x>:SPIBus:MODE WIRE4 is specified.

: TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: BYTE

Function Sets the number of bytes of the data of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: BYTE {<Nrf>}
:TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: BYTE?
<x> of EVENT<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<Nrf> = 1 to 4

Example :TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: BYTE 1
:TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: BYTE?
-> :TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: BYTE 1

: TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: CONDition

Function Sets the determination method (match or not match) of the data of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: CONDition {FALSE|TRUE}
:TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: CONDition?
<x> of EVENT<x> = 1 or 2
<x> of DATA<x> = 1 or 2

Example :TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: CONDITION TRUE
:TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: CONDITION?
-> :TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: CONDITION TRUE

: TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: DPOSITION

Function Sets the pattern comparison start position of the data of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: DPOSITION {<Nrf>}
:TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: DPOSITION?
<x> of EVENT<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<Nrf> = 0 to 9999

Example :TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: DPOSITION 1
:TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: DPOSITION?
-> :TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: DPOSITION 1

: TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: HEXA<x>

Function Sets the data of the SPI bus signal trigger in hexadecimal notation.

Syntax :TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: HEXA<x> {<String>}
<x> of EVENT<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<x> of HEXA<x> = 1 to 4
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: HEXA1 " AB"

: TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: PATtern<x>

Function Sets the data of the SPI bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: PATtern<x> {<String>}
:TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: PATtern<x>?
<x> of EVENT<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<x> of <PATtern x> = 1 to 4
<String> = 8 characters by combining '0', '1', and 'X'

Example :TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: PATTERN1 " 10101011"
:TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: PATTERN1?
-> :TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: PATTERN1 " 10101011"

: TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: SOURCE

Function Sets the trace of the data of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: SOURCE {<Nrf>}
:TRIGger: EINTerval: EVENT<x>: SPIBus: DATA<x>: SOURCE?
<x> of EVENT<x> = 1 or 2
<x> of DATA<x> = 1 or 2
<Nrf> = 1 to 4

Example :TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: SOURCE 1
:TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: SOURCE?
-> :TRIGGER: EINTERVAL: EVENT1: SPIBUS: DATA1: SOURCE 1

7.6 TRIGger Group

:TRIGger:EINterval:EVENT<x>:SPIBus:

MODE

Function Sets the wiring system of the SPI bus signal trigger (three-wire or four-wire) or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:SPIBus:
MODE {WIRE3|WIRE4}
:TRIGger:EINterval:EVENT<x>:SPIBus:
MODE?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:SPIBUS:
MODE WIRE3
:TRIGGER:EINTERVAL:EVENT1:SPIBUS:
MODE?
-> :TRIGGER:EINTERVAL:EVENT1:SPIBUS:
MODE WIRE3

:TRIGger:EINterval:EVENT<x>:STATE:CHANNEL<x>

Function Sets the condition to be satisfied of the channel or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:STATE:
CHANnel<x> {DONTcare|HIGH|LOW}
:TRIGger:EINterval:EVENT<x>:STATE:
CHANnel<x>?
<x> of EVENT<x> = 1 or 2
<x> of CHANnel<x> = 1 to 4

Example :TRIGGER:EINTERVAL:EVENT1:STATE:
CHANNEL1 HIGH
:TRIGGER:EINTERVAL:EVENT1:STATE:
CHANNEL1?
-> :TRIGGER:EINTERVAL:EVENT1:STATE:
CHANNEL1 HIGH

Description This command is valid when :TRIGger:
EINterval:EVENT<x>:TYPE I2Cbus.

:TRIGger:EINterval:EVENT<x>:TYPE

Function Sets the trigger type of the event or queries the current setting.

Syntax :TRIGger:EINterval:EVENT<x>:
TYPE {CANBus|EDGE|EQUalify|I2Cbus|
LINbus|PQUalify|PState|PULse|SPATtern|
SPIBus|STATE}
:TRIGger:EINterval:EVENT<x>:TYPE?
<x> = 1 or 2

Example :TRIGGER:EINTERVAL:EVENT1:TYPE CANBUS
:TRIGGER:EINTERVAL:EVENT1:TYPE?
-> :TRIGGER:EINTERVAL:EVENT1:
TYPE CANBUS

Description {LEDge|LI2Cbus|LLINbus|LSPATtern|LSPIBus|
LPState|LPULse|LQUalify|LState} can be applied to
DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:ENHanced:CANBus?

Function Queries all settings related to the CAN bus signal trigger.

Syntax :TRIGger:ENHanced:CANBus?

Example :TRIGGER:ENHANCED:CANBUS?
-> :TRIGGER:ENHANCED:CANBUS:
ACK DONTCARE;BRATE 1000000;DATA:
BORDER BIG;CONDITION DONTCARE;
DATA1 0.0000000E+00;
DATA2 255.000000E+00;DLC 8;MSBLSB 7,0;
PATTERN "111001010110010001111000100100
110010101000100001000111111111010";
SIGN UNSIGN;:TRIGGER:ENHANCED:CANBUS:
IDEXT:PATTERN "XXXXXXXXXXXXXXXXXXXXXX
XXXXX";:TRIGGER:ENHANCED:CANBUS:IDOR:
ID1:ACK DONTCARE;DATA:BORDER BIG;
CONDITION DONTCARE;DATA1 0.0000000E+00;
DATA2 255.000000E+00;DLC 8;MSBLSB 7,0;
PATTERN "000000010010001101000101011001
1110001001101010111100110111101111";
SIGN UNSIGN;:TRIGGER:ENHANCED:CANBUS:
IDOR:ID1:FORMAT STD;IDEXT:
PATTERN "11010101111001101111011110000";:
TRIGGER:ENHANCED:CANBUS:IDOR:ID1:IDSTD:
PATTERN "00100100011";:TRIGGER:
ENHANCED:CANBUS:IDOR:ID1:MODE 0;
RTR DATA;:TRIGGER:ENHANCED:CANBUS:IDOR:
ID2:ACK DONTCARE;DATA:BORDER BIG;
CONDITION DONTCARE;DATA1 0.0000000E+00;
DATA2 255.000000E+00;DLC 8;MSBLSB 7,0;
PATTERN "11111101101110010111010100110
000110110010101000011001000010000";
SIGN UNSIGN;:TRIGGER:ENHANCED:CANBUS:
IDOR:ID2:FORMAT STD;IDEXT:
PATTERN "10010001101000101011001111000"
;:
TRIGGER:ENHANCED:CANBUS:IDOR:ID2:IDSTD:
PATTERN "10001010110";:TRIGGER:
ENHANCED:CANBUS:IDOR:ID2:MODE 0.....

:TRIGger:ENHanced:CANBus:ACK

Function Sets the ACK condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:
ACK {ACK|ACKBoth|DONTcare|NONack}
:TRIGger:ENHanced:CANBus:ACK?

Example :TRIGGER:ENHANCED:CANBUS:ACK ACK
:TRIGGER:ENHANCED:CANBUS:ACK?
-> :TRIGGER:ENHANCED:CANBUS:ACK ACK

: TRIGger : ENHanced : CANBus : BRATe

Function Sets the bit rate (data transfer rate) of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:
BRATe {<Nrf>|USER,<Nrf>}
:TRIGger:ENHanced:CANBus:BRATe?
<Nrf> = 33300, 83300, 125000, 250000, 500000,
1000000
<Nrf> of USER = See section 3.2.

Example :TRIGGER:ENHANCED:CANBUS:BRATE 83300
:TRIGGER:ENHANCED:CANBUS:BRATE?
-> :TRIGGER:ENHANCED:CANBUS:BRATE 83300

: TRIGger : ENHanced : CANBus : DATA ?

Function Queries all settings related to the CAN bus signal trigger data.

Syntax :TRIGger:ENHanced:CANBus:DATA?
Example :TRIGGER:ENHANCED:CANBUS:DATA?
-> :TRIGGER:ENHANCED:CANBUS:DATA:
BORDER BIG;CONDITION DONTCARE;
DATA1 0.0000000E+00;
DATA2 255.00000E+00;DLC 8;MSBLSB 7,0;
PATTERN "111001010110010001111000100100
110010101000100001000111111111010";
SIGN UNSIGN

: TRIGger : ENHanced : CANBus : DATA : BORDER

Function Sets the byte order of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:DATA:
BORDER {BIG|LITTLE}
:TRIGger:ENHanced:CANBus:DATA:BORDER?

Example :TRIGGER:ENHANCED:CANBUS:DATA:
BORDER BIG
:TRIGGER:ENHANCED:CANBUS:DATA:
BORDER?
-> :TRIGGER:ENHANCED:CANBUS:DATA:
BORDER BIG

: TRIGger : ENHanced : CANBus : DATA : CONDITION

Function Sets the data condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:DATA:
CONDITION {BETWEEN|DONTcare|FALSE|
GTHan|LTHan|ORANge|TRUE}
:TRIGger:ENHanced:CANBus:DATA:
CONDition?

Example :TRIGGER:ENHANCED:CANBUS:DATA:
CONDITION BETWEEN
:TRIGGER:ENHANCED:CANBUS:DATA:
CONDITION?
-> :TRIGGER:ENHANCED:CANBUS:DATA:
CONDITION BETWEEN

: TRIGger : ENHanced : CANBus : DATA : DATA<x>

Function Sets the comparison data of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:DATA:
DATA<x> {<Nrf>}
:TRIGger:ENHanced:CANBus:DATA:DATA<x>?
<x> = 1 or 2
<Nrf> = See section 3.2.

Example :TRIGGER:ENHANCED:CANBUS:DATA:DATA1 1
:TRIGGER:ENHANCED:CANBUS:DATA:DATA1?
-> :TRIGGER:ENHANCED:CANBUS:DATA:
DATA1 1.0000000E+00

Description • **Use** :TRIGger:ENHANCED:CANBus:DATA:
DATA1 when :TRIGger:ENHANCED:CANBus:
DATA:CONDition GTHan is specified.
• **Use** :TRIGger:ENHANCED:CANBus:DATA:
DATA2 when :TRIGger:ENHANCED:CANBus:
DATA:CONDition LTHan is specified.
• **Use** :TRIGger:ENHANCED:CANBus:DATA:
DATA1 to set the smaller value and :TRIGger:
ENHANCED:CANBus:DATA:DATA2 to set the larger
value when :TRIGger:ENHANCED:CANBus:
DATA:CONDition BETWEEN|ORANge is
specified.

: TRIGger : ENHanced : CANBus : DATA : DLC

Function Sets the number of valid bytes (DLC) of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:DATA:
DLC {<Nrf>}
:TRIGger:ENHanced:CANBus:DATA:DLC?
<Nrf> = 0 to 8

Example :TRIGGER:ENHANCED:CANBUS:DATA:DLC 0
:TRIGGER:ENHANCED:CANBUS:DATA:DLC?
-> :TRIGGER:ENHANCED:CANBUS:DATA:DLC 0

: TRIGger : ENHanced : CANBus : DATA : HEXA

Function Sets the CAN bus signal trigger data in hexadecimal notation.

Syntax :TRIGger:ENHanced:CANBus:DATA:
HEXA {<String>}
<String> = Up to 16 characters by combining '0' to 'F'
and 'X' (in one-byte unit)

Example :TRIGGER:ENHANCED:CANBUS:DATA:HEXA "A9"

7.6 TRIGger Group

:TRIGger:ENHanced:CANBus:DATA:MSBLSb

Function Sets the MSB and LSB bits of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:DATA:
MSBLSb {<Nrf>,<Nrf>}
:TRIGger:ENHanced:CANBus:DATA:MSBLSb?
<Nrf> = See section 3.2.

Example :TRIGGER:ENHANCED:CANBUS:DATA:
MSBLSB 1,0
:TRIGGER:ENHANCED:CANBUS:DATA:
MSBLSB? -> :TRIGGER:ENHANCED:CANBUS:
DATA:MSBLSB 1,0

:TRIGger:ENHanced:CANBus:DATA:PATtern

Function Sets the CAN bus signal trigger data in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:DATA:
PATtern {<String>}
:TRIGger:ENHanced:CANBus:DATA:PATtern?
<String> = Up to 64 characters by combining '0','1,'
and 'X' (in one-byte unit)

Example :TRIGGER:ENHANCED:CANBUS:DATA:
PATTERN "11011111"
:TRIGGER:ENHANCED:CANBUS:DATA:
PATTERN?
-> :TRIGGER:ENHANCED:CANBUS:DATA:
PATTERN "11011111"

:TRIGger:ENHanced:CANBus:DATA:SIGN

Function Sets the sign of the CAN bus signal trigger data or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:DATA:
SIGN {SIGN|UNSign}
:TRIGger:ENHanced:CANBus:DATA:SIGN?

Example :TRIGGER:ENHANCED:CANBUS:DATA:SIGN SIGN
:TRIGGER:ENHANCED:CANBUS:DATA:SIGN?
-> :TRIGGER:ENHANCED:CANBUS:DATA:
SIGN SIGN

:TRIGger:ENHanced:CANBus:IDEXt?

Function Queries all settings related to the ID of the extended format of the CAN bus signal trigger.

Syntax :TRIGger:ENHanced:CANBus:IDEXt?

Example :TRIGGER:ENHANCED:CANBUS:IDEXT?
-> :TRIGGER:ENHANCED:CANBUS:IDEXT:
PATTERN "110010110111000011101110111111"

:TRIGger:ENHanced:CANBus:IDEXt:HEXA

Function Sets the ID of the extended format of the CAN bus signal trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:CANBus:IDEXt:
HEXA {<String>}
<String> = 8 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:ENHANCED:CANBUS:IDEXT:
HEXA "1AEF5906"

:TRIGger:ENHanced:CANBus:IDEXt:PATtern

Function Sets the ID of the extended format of the CAN bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDEXt:
PATtern {<String>}
:TRIGger:ENHanced:CANBus:IDEXt:PATtern?
<String> = 29 characters by combining '0','1,' and 'X'

Example :TRIGGER:ENHANCED:CANBUS:IDEXT:
PATTERN "110010110111000011101110111111"
:TRIGGER:ENHANCED:CANBUS:IDEXT:
PATTERN?
-> :TRIGGER:ENHANCED:CANBUS:IDEXT:
PATTERN "110010110111000011101110111111"

:TRIGger:ENHanced:CANBus:IDOR?

Function Queries all settings related to the OR condition of the CAN bus signal trigger.

Syntax :TRIGger:ENHanced:CANBus:IDOR?

Example :TRIGGER:ENHANCED:CANBUS:IDOR?
-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
ACK DONTCARE;DATA:BORDER BIG;
CONDITION DONTCARE;DATA1 0.000000E+00;
DATA2 255.00000E+00;DLC 8;MSBLSB 7,0;
PATTERN "00000010010001101000101011001
11100010011010101111001101111011111";
SIGN UNSIGN;:TRIGGER:ENHANCED:CANBUS:
IDOR:ID1:FORMAT STD;IDEXT:
PATTERN "11010101111001101111011110000";:
TRIGGER:ENHANCED:CANBUS:IDOR:ID1:IDSTD:
PATTERN "00100100011";:TRIGGER:
ENHANCED:CANBUS:IDOR:ID1:MODE 0;
RTR DATA;:TRIGGER:ENHANCED:CANBUS:IDOR:
ID2:ACK DONTCARE;DATA:BORDER BIG;
CONDITION DONTCARE;DATA1 0.000000E+00;
DATA2 255.00000E+00;DLC 8;MSBLSB 7,0;
PATTERN "1111110110111001011101010100110
000110110010101000011001000010000";
SIGN UNSIGN;:TRIGGER:ENHANCED:CANBUS:
IDOR:ID2:FORMAT STD;IDEXT:
PATTERN "1001000110100010101100111100
0";:TRIGGER:ENHANCED:CANBUS:IDOR:ID2:
IDSTD:PATTERN "10001010110";:TRIGGER:
ENHANCED:CANBUS:IDOR:ID2:MODE 0;
RTR DATA;:TRIGGER:ENHANCED:CANBUS:IDOR:
ID3:ACK DONTCARE;DATA:BORDER BIG;
CONDITION DONTCARE;DATA1 0.000000E+00;
DATA2 255.00000E+00;DLC 8.....

: TRIGger: ENHanced: CANBus: IDOR: ID<x>?

Function Queries all settings related to each ID of the OR condition of the CAN bus signal trigger.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>?
<x> = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1?
-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
ACK DONTCARE;DATA:BORDER BIG;
CONDITION DONTCARE;DATA1 0.000000E+00;
DATA2 255.00000E+00;DLC 8;MSLSB
7,0;PATTERN "0000001001000110100010101
10011110001001101010111100110111101111";
SIGN UNSIGN;:TRIGGER:ENHANCED:CANBUS:
IDOR:ID1:FORMAT STD;IDEXT:
PATTERN "11010101111001101111011110000";:
TRIGGER:ENHANCED:CANBUS:IDOR:ID1:IDSTD:
PATTERN "00100100011";:TRIGGER:
ENHANCED:CANBUS:IDOR:ID1:MODE 0;
RTR DATA

: TRIGger: ENHanced: CANBus: IDOR: ID<x>:**ACK**

Function Sets each ACK condition of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:
ACK {ACK|ACKBoth|DONTcare|NONack}
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:
ACK?
<x> = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
ACK ACK
:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
ACK?
-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
ACK ACK

: TRIGger: ENHanced: CANBus: IDOR: ID<x>:**DATA?**

Function Queries all settings related to each data of the OR condition of the CAN bus signal trigger.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:
DATA?
<x> = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
DATA?
-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
DATA:BORDER BIG;CONDITION DONTCARE;
DATA1 0.000000E+00;
DATA2 255.00000E+00;DLC 8;MSLSB 7,0;
PATTERN "00000010010001101000101011001
1110001001101010111100110111101111";
SIGN UNSIGN

: TRIGger: ENHanced: CANBus: IDOR: ID<x>:**DATA: BORDER**

Function Sets byte order of each data of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:
DATA:BORDER {BIG|LITTLE}
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:
DATA:BORDER?
<x> = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:DATA:
BORDER BIG
:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:DATA:
BORDER?
-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
DATA:BORDER BIG

: TRIGger: ENHanced: CANBus: IDOR: ID<x>:**DATA: CONDITION**

Function Sets each data condition of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:
DATA:CONDITION {BETWEEN|DONTcare|FALSE|
GTHan|LTHan|ORANGE|TRUE}
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:
DATA:CONDITION?
<x> = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:DATA:
CONDITION BETWEEN
:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:DATA:
CONDITION?
-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
DATA:CONDITION BETWEEN

7.6 TRIGger Group

: TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: DATA<x>

Function Sets comparison data of each data of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax : TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: DATA<x> {<Nrf>}
: TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: DATA<x>?
<x> of ID<x> = 1 to 4
<x> of DATA<x> = 1 or 2
<Nrf> = See section 3.2.

Example : TRIGGER: ENHANCED: CANBUS: IDOR: ID1: DATA: DATA1 1
: TRIGGER: ENHANCED: CANBUS: IDOR: ID1: DATA: DATA1?
-> : TRIGGER: ENHANCED: CANBUS: IDOR: ID1: DATA: DATA1 1.0000000E+00

Description

- **Use** : TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: DATA1 when : TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: CONDITION GTHan is specified.
- **Use** : TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: DATA2 when : TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: CONDITION LTHan is specified.
- **Use** : TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: DATA1 to set the smaller value and : TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: DATA2 to set the larger value when : TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: CONDITION BETWEEN|ORANGE is specified.

: TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: DLC

Function Sets the number of valid bytes (DLC) of each data of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax : TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: DLC {<Nrf>}
: TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: DLC?
<x> = 1 to 4
<Nrf> = 0 to 8

Example : TRIGGER: ENHANCED: CANBUS: IDOR: ID1: DATA: DLC 0
: TRIGGER: ENHANCED: CANBUS: IDOR: ID1: DATA: DLC?
-> : TRIGGER: ENHANCED: CANBUS: IDOR: ID1: DATA: DLC 0

: TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: HEXA

Function Sets each data of the OR condition of the CAN bus signal trigger in hexadecimal notation.

Syntax : TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: HEXA {<String>}
<x> = 1 to 4

<String> = Up to 16 characters by combining '0' to 'F' and 'X' (in one-byte unit)

Example : TRIGGER: ENHANCED: CANBUS: IDOR: ID1: DATA: HEXA "A9"

: TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: MSBLsb

Function Sets the MSB and LSB bits of each data of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax : TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: MSBLsb {<Nrf>, <Nrf>}
: TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: MSBLsb?

<x> = 1 to 4
<Nrf> = See section 3.2.

Example : TRIGGER: ENHANCED: CANBUS: IDOR: ID1: DATA: MSBLSB 1, 0
: TRIGGER: ENHANCED: CANBUS: IDOR: ID1: DATA: MSBLSB?
-> : TRIGGER: ENHANCED: CANBUS: IDOR: ID1: DATA: MSBLSB 1, 0

: TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: PATtern

Function Sets each data of the OR condition of the CAN bus signal trigger in binary notation or queries the current setting.

Syntax : TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: PATtern {<String>}
: TRIGger: ENHanced: CANBus: IDOR: ID<x>: DATA: PATtern?

<x> = 1 to 4
<String> = Up to 64 characters by combining '0', '1,' and 'X' (in one-byte unit)

Example : TRIGGER: ENHANCED: CANBUS: IDOR: ID1: DATA: PATtern "11011111"
: TRIGGER: ENHANCED: CANBUS: IDOR: ID1: DATA: PATtern?
-> : TRIGGER: ENHANCED: CANBUS: IDOR: ID1: DATA: PATtern "11011111"

: TRIGger: ENHanced: CANBus: IDOR: ID<x>:**DATA: SIGN**

Function Sets sign of each data of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:
DATA:SIGN {SIGN|UNSign}
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:
DATA:SIGN?
<x> = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:DATA:
SIGN SIGN
:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:DATA:
SIGN?
-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
DATA:SIGN SIGN

: TRIGger: ENHanced: CANBus: IDOR: ID<x>:**FORMat**

Function Sets each message format (standard or extended) of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:
FORMat {STD|EXT}
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:
FORMat?
<x> = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
FORMAT STD
:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
FORMAT?
-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
FORMAT STD

: TRIGger: ENHanced: CANBus: IDOR: ID<x>:**IDEXt?**

Function Queries all settings related to the ID of each extended format of the OR condition of the CAN bus signal trigger.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:
IDEXt?
<x> = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
IDEXT?
-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
IDEXT:PATTERN "110010110111000011101110
11111"

: TRIGger: ENHanced: CANBus: IDOR: ID<x>:**IDEXt: HEXA**

Function Sets the ID of each extended format of the OR condition of the CAN bus signal trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:
IDEXt:HEXA {<String>}
<x> = 1 to 4
<String> = 8 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
IDEXT:HEXA "1AEF5906"

: TRIGger: ENHanced: CANBus: IDOR: ID<x>:**IDEXt: PATtern**

Function Sets the ID of each extended format of the OR condition of the CAN bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:
IDEXt:PATtern {<String>}
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:
IDEXt:PATtern?
<x> = 1 to 4

<String> = 29 characters by combining '0','1,' and 'X'
Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
IDEXT:PATTERN "110010110111000011101110
11111"
:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
IDEXT:PATTERN?
-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
IDEXT:PATTERN "110010110111000011101110
11111"

: TRIGger: ENHanced: CANBus: IDOR: ID<x>:**IDSTd?**

Function Queries all settings related to the ID of each standard format of the OR condition of the CAN bus signal trigger.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:
IDSTd?
<x> = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
IDSTD?
-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
IDSTD:PATTERN "00011111101"

: TRIGger: ENHanced: CANBus: IDOR: ID<x>:**IDSTd: HEXA**

Function Sets the ID of each standard format of the OR condition of the CAN bus signal trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:
IDSTd:HEXA {<String>}
<x> = 1 to 4
<String> = 3 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:
IDSTD:HEXA "5DF"

7.6 TRIGger Group

:TRIGger:ENHanced:CANBus:IDOR:ID<x>:IDSTd:PATtern

Function Sets the ID of each standard format of the OR condition of the CAN bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:IDSTd:PATtern {<String>}
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:IDSTd:PATtern?
<x> = 1 to 4
<String> = 11 characters by combining '0','1,' and 'X'

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:IDSTD:PATTERN "10111011111"
:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:IDSTD:PATTERN?
-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:IDSTD:PATTERN "10111011111"

:TRIGger:ENHanced:CANBus:IDOR:ID<x>:MODE

Function Enables or disables each condition of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:MODE {<Boolean>}
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:MODE?
<x> = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:MODE ON
:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:MODE?
-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:MODE 1

:TRIGger:ENHanced:CANBus:IDOR:ID<x>:RTR

Function Sets each RTR of the OR condition of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDOR:ID<x>:RTR {DATA|DONTcare|REMOte}
:TRIGger:ENHanced:CANBus:IDOR:ID<x>:RTR?
<x> = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:RTR DATA
:TRIGGER:ENHANCED:CANBUS:IDOR:ID1:RTR?
-> :TRIGGER:ENHANCED:CANBUS:IDOR:ID1:RTR DATA

:TRIGger:ENHanced:CANBus:IDSTd?

Function Queries all settings related to the ID of the standard format of the CAN bus signal trigger.

Syntax :TRIGger:ENHanced:CANBus:IDSTd?

Example :TRIGGER:ENHANCED:CANBUS:IDSTD?
-> :TRIGGER:ENHANCED:CANBUS:IDSTD:PATTERN "00011111101"

:TRIGger:ENHanced:CANBus:IDSTd:HEXA

Function Sets the ID of the standard format of the CAN bus signal trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:CANBus:IDSTd:HEXA {<String>}
<String> = 3 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:ENHANCED:CANBUS:IDSTD:HEXA "5DF"

:TRIGger:ENHanced:CANBus:IDSTd:PATtern

Function Sets the ID of the standard format of the CAN bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:IDSTd:PATtern {<String>}
:TRIGger:ENHanced:CANBus:IDSTd:PATtern?
<String> = 11 characters by combining '0','1,' and 'X'

Example :TRIGGER:ENHANCED:CANBUS:IDSTD:PATTERN "10111011111"
:TRIGGER:ENHANCED:CANBUS:IDSTD:PATTERN?
-> :TRIGGER:ENHANCED:CANBUS:IDSTD:PATTERN "10111011111"

:TRIGger:ENHanced:CANBus:MODE

Function Sets the CAN bus signal trigger mode or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:MODE {EFrame|IDExt|IDOR|IDSTd|SOF}
:TRIGger:ENHanced:CANBus:MODE?

Example :TRIGGER:ENHANCED:CANBUS:MODE EFRAME
:TRIGGER:ENHANCED:CANBUS:MODE?
-> :TRIGGER:ENHANCED:CANBUS:MODE EFRAME

:TRIGger:ENHanced:CANBus:REcessive

Function Sets the recessive level (bus level) of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:REcessive {HIGH|LOW}
:TRIGger:ENHanced:CANBus:REcessive?

Example :TRIGGER:ENHANCED:CANBUS:RECESSIVE HIGH
:TRIGGER:ENHANCED:CANBUS:RECESSIVE?
-> :TRIGGER:ENHANCED:CANBUS:RECESSIVE HIGH

:TRIGger:ENHanced:CANBus:RTR

Function Sets the RTR of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:
RTR {DATA|DONTcare|REMOte}
:TRIGger:ENHanced:CANBus:RTR?

Example :TRIGGER:ENHANCED:CANBUS:RTR DATA
:TRIGGER:ENHANCED:CANBUS:RTR?
-> :TRIGGER:ENHANCED:CANBUS:RTR DATA

:TRIGger:ENHanced:CANBus:SOURce

Function Sets the trigger source of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:SOURce {<Nrf>}
:TRIGger:ENHanced:CANBus:SOURce?
<Nrf> = 1 to 4

Example :TRIGGER:ENHANCED:CANBUS:SOURCE 1
:TRIGGER:ENHANCED:CANBUS:SOURCE?
-> :TRIGGER:ENHANCED:CANBUS:SOURCE 1

:TRIGger:ENHanced:CANBus:SPOint

Function Sets the sample point of the CAN bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:CANBus:SPOint {<Nrf>}
:TRIGger:ENHanced:CANBus:SPOint?
<Nrf> = 18.8 to 90.6(%)

Example :TRIGGER:ENHANCED:CANBUS:SPOINT 18.8
:TRIGGER:ENHANCED:CANBUS:SPOINT?
-> :TRIGGER:ENHANCED:CANBUS:
SPOINT 18.8E+00

:TRIGger:ENHanced:I2CBus?

Function Queries all settings related to the I²C bus signal trigger.

Syntax :TRIGger:ENHanced:I2CBus?
Example :TRIGGER:ENHANCED:I2CBUS?
-> :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT10ADDRESS:PATTERN " 10111011111";;
TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7ADDRESS:PATTERN " 11011110";;
TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7APSUB:ADDRESS:PATTERN " 10101011";;
TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7APSUB:SADDRESS:PATTERN " 10101011";;
TRIGGER:ENHANCED:I2CBUS:ADATA:
TYPE BIT10ADDRESS;:TRIGGER:ENHANCED:
I2CBUS:CLOCK:SOURCE 1;:TRIGGER:
ENHANCED:I2CBUS:DATA:BYTE 1;
CONDITION TRUE;DPOSITION 1;MODE 1;
PATTERN1 " 10101011";
PATTERN2 " 10101010";
PATTERN3 " 10101111";
PATTERN4 " 10101011";PMODE DONTCARE;
SOURCE 1;:TRIGGER:ENHANCED:I2CBUS:
GCALL:BIT7MADDRESS:PATTERN " 1010101";;
TRIGGER:ENHANCED:I2CBUS:GCALL:
SBYTE BIT7MADDRESS;:TRIGGER:ENHANCED:
I2CBUS:MODE ADATA;NAIGNORE:HSMODE 1;
RACCESS 1;SBYTE 1;:TRIGGER:ENHANCED:
I2CBUS:SBHSMODE:TYPE HSMODE

:TRIGger:ENHanced:I2CBus:ADATa?

Function Queries all settings related to the address of the I²C bus signal trigger.

Syntax :TRIGger:ENHanced:I2CBus:ADATa?
Example :TRIGGER:ENHANCED:I2CBUS:ADATA?
-> :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT10ADDRESS:PATTERN " 10111011111";;
TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7ADDRESS:PATTERN " 11011110";;
TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7APSUB:ADDRESS:PATTERN " 10101011";;
TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7APSUB:SADDRESS:PATTERN " 10101011";;
TRIGGER:ENHANCED:I2CBUS:ADATA:
TYPE BIT10ADDRESS

**:TRIGger:ENHanced:I2CBus:ADATa:
BIT10address?**

Function Queries all settings related to the 10-bit address of the I²C bus signal trigger.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:
BIT10address?

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT10ADDRESS?
-> :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT10ADDRESS:PATTERN " 10111011111"

7.6 TRIGger Group

:TRIGger:ENHanced:I2CBus:ADATa:BIT10address:HEXA

Function Sets the 10-bit address of the I²C bus signal trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:
BIT10address:HEXA {<String>}
<String> = 3 characters by combining '0' to 'F' and 'X'
(bit 8 is the R/W bit)

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT10ADDRESS:HEXA " 7AB"

:TRIGger:ENHanced:I2CBus:ADATa:BIT10address:PATtern

Function Sets the 10-bit address of the I²C bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:
BIT10address:PATtern {<String>}
:TRIGger:ENHanced:I2CBus:ADATa:
BIT10address:PATtern?
<String> = 11 characters by combining '0', '1', and 'X'
(bit 8 is the R/W bit)

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT10ADDRESS:PATTERN " 10111011111"
:TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT10ADDRESS:PATTERN?
-> :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT10ADDRESS:PATTERN " 10111011111"

:TRIGger:ENHanced:I2CBus:ADATa:BIT7Address?

Function Queries all settings related to the 7-bit address of the I²C bus signal trigger.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:
BIT7Address?

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7ADDRESS?
-> :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7ADDRESS:PATTERN " 11011110"

:TRIGger:ENHanced:I2CBus:ADATa:BIT7Address:HEXA

Function Sets the 7-bit address of the I²C bus signal trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:
BIT7Address:HEXA {<String>}
<String> = 2 characters by combining '0' to 'F' and 'X'
(bit 0 is the R/W bit)

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7ADDRESS:HEXA " DE"

:TRIGger:ENHanced:I2CBus:ADATa:BIT7Address:PATtern

Function Sets the 7-bit address of the I²C bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:
BIT7Address:PATtern {<String>}
:TRIGger:ENHanced:I2CBus:ADATa:
BIT7Address:PATtern?
<String> = 8 characters by combining '0', '1', and 'X'
(bit 0 is the R/W bit)

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7ADDRESS:PATTERN " 11011110"
:TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7ADDRESS:PATTERN?
-> :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7ADDRESS:PATTERN " 11011110"

:TRIGger:ENHanced:I2CBus:ADATa:BIT7APsub?

Function Queries all settings related to the 7-bit + Sub address of the I²C bus signal trigger.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:
BIT7APsub?

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7APSUB?
-> :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7APSUB:ADDRESS:PATTERN " 10101011";:
TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7APSUB:SADDRESS:PATTERN " 10101011"

:TRIGger:ENHanced:I2CBus:ADATa:BIT7APsub:ADDRESS?

Function Queries all settings related to the 7-bit address of the 7-bit + Sub address of the I²C bus signal trigger.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:
BIT7APsub:ADDRESS?

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7APSUB:ADDRESS?
-> :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7APSUB:ADDRESS:PATTERN " 10101011"

:TRIGger:ENHanced:I2CBus:ADATa:BIT7APsub:ADDRESS:HEXA

Function Sets the 7-bit address of the 7-bit + Sub address of the I²C bus signal trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:
BIT7APsub:ADDRESS:HEXA {<String>}
<String> = 2 characters by combining '0' to 'F' and 'X'
(bit 0 is the R/W bit)

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:
BIT7APSUB:ADDRESS:HEXA " AB"

:TRIGger:ENHanced:I2CBus:ADATa:BIT7APsub:ADDRESS:PATtern

Function Sets the 7-bit address of the 7-bit + Sub address of the I²C bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:BIT7APsub:ADDRESS:PATtern {<String>}
:TRIGger:ENHanced:I2CBus:ADATa:BIT7APsub:ADDRESS:PATtern?
<String> = 8 characters by combining '0', '1', and 'X' (bit 0 is the R/W bit)

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:BIT7APSUB:ADDRESS:PATTERN " 10101011"
:TRIGGER:ENHANCED:I2CBUS:ADATA:BIT7APSUB:ADDRESS:PATTERN?
-> :TRIGGER:ENHANCED:I2CBUS:ADATA:BIT7APSUB:ADDRESS:PATTERN " 10101011"

:TRIGger:ENHanced:I2CBus:ADATa:BIT7APsub:SADDRESS?

Function Queries all settings related to the Sub address of the 7-bit + Sub address of the I²C bus signal trigger.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:BIT7APsub:SADDRESS?

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:BIT7APSUB:SADDRESS?
-> :TRIGGER:ENHANCED:I2CBUS:ADATA:BIT7APSUB:SADDRESS:PATTERN " 10101011"

:TRIGger:ENHanced:I2CBus:ADATa:BIT7APsub:SADDRESS:HEXA

Function Sets the Sub address of the 7-bit + Sub address of the I²C bus signal trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:BIT7APsub:SADDRESS:HEXA {<String>}
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:BIT7APSUB:SADDRESS:HEXA " EF"

:TRIGger:ENHanced:I2CBus:ADATa:BIT7APsub:SADDRESS:PATtern

Function Sets the Sub address of the 7-bit + Sub address of the I²C bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:BIT7APsub:SADDRESS:PATtern {<String>}
:TRIGger:ENHanced:I2CBus:ADATa:BIT7APsub:SADDRESS:PATtern?
<String> = 8 characters by combining '0', '1', and 'X'

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:BIT7APSUB:SADDRESS:PATTERN " 10101011"
:TRIGGER:ENHANCED:I2CBUS:ADATA:BIT7APSUB:SADDRESS:PATTERN?
-> :TRIGGER:ENHANCED:I2CBUS:ADATA:BIT7APSUB:SADDRESS:PATTERN " 10101011"

:TRIGger:ENHanced:I2CBus:ADATa:TYPE

Function Sets the address type of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:ADATa:TYPE {BIT10address|BIT7Address|BIT7APsub}
:TRIGger:ENHanced:I2CBus:ADATa:TYPE?

Example :TRIGGER:ENHANCED:I2CBUS:ADATA:TYPE BIT10ADDRESS
:TRIGGER:ENHANCED:I2CBUS:ADATA:TYPE?
-> :TRIGGER:ENHANCED:I2CBUS:ADATA:TYPE BIT10ADDRESS

:TRIGger:ENHanced:I2CBus:CLOCK?

Function Queries all settings related to the clock channel of the I²C bus signal trigger.

Syntax :TRIGger:ENHanced:I2CBus:CLOCK?

Example :TRIGGER:ENHANCED:I2CBUS:CLOCK?
-> :TRIGGER:ENHANCED:I2CBUS:CLOCK:SOURCE 1

:TRIGger:ENHanced:I2CBus:CLOCK:SOURCE

Function Sets the clock channel of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:CLOCK:SOURCE {<Nrf>}
:TRIGger:ENHanced:I2CBus:CLOCK:SOURCE?
<Nrf> = 1 to 4

Example :TRIGGER:ENHANCED:I2CBUS:CLOCK:SOURCE 1
:TRIGGER:ENHANCED:I2CBUS:CLOCK:SOURCE?
-> :TRIGGER:ENHANCED:I2CBUS:CLOCK:SOURCE 1

:TRIGger:ENHanced:I2CBus:DATA?

Function Queries all settings related to the data of the I²C bus signal trigger.

Syntax :TRIGger:ENHanced:I2CBus:DATA?
<x> = 1 or 2

Example :TRIGGER:ENHANCED:I2CBUS:DATA?
-> :TRIGGER:ENHANCED:I2CBUS:DATA:BYTE 1;CONDITION TRUE;DPOSITION 1;MODE 1;PATTERN1 " 10101011";PATTERN2 " 10101010";PATTERN3 " 10101111";PATTERN4 " 10101011";PMODE DONTCARE;SOURCE 1

7.6 TRIGger Group

:TRIGger:ENHanced:I2CBus:DATA:BYTE

Function Sets the number of data bytes of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:DATA:
BYTE {<Nrf>}
:TRIGger:ENHanced:I2CBus:DATA:BYTE?
<Nrf> = 1 to 4

Example :TRIGGER:ENHANCED:I2CBUS:DATA:BYTE 1
:TRIGGER:ENHANCED:I2CBUS:DATA:BYTE?
-> :TRIGGER:ENHANCED:I2CBUS:DATA:BYTE 1

:TRIGger:ENHanced:I2CBus:DATA:CONDition

Function Sets the determination method (match or not match) of the data of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:DATA:
CONDition {FALSE|TRUE}
:TRIGger:ENHanced:I2CBus:DATA:
CONDition?

Example :TRIGGER:ENHANCED:I2CBUS:DATA:
CONDITION TRUE
:TRIGGER:ENHANCED:I2CBUS:DATA:
CONDITION?
-> :TRIGGER:ENHANCED:I2CBUS:DATA:
CONDITION TRUE

:TRIGger:ENHanced:I2CBus:DATA:DPOsition

Function Sets the position for comparing the data pattern of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:DATA:
DPOsition {<Nrf>}
:TRIGger:ENHanced:I2CBus:DATA:
DPOsition?
<Nrf> = 0 to 9999

Example :TRIGGER:ENHANCED:I2CBUS:DATA:
DPOSITION 1
:TRIGGER:ENHANCED:I2CBUS:DATA:
DPOSITION?
-> :TRIGGER:ENHANCED:I2CBUS:DATA:
DPOSITION 1

:TRIGger:ENHanced:I2CBus:DATA:HEXA<x>

Function Sets the data of the I²C bus signal trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:I2CBus:DATA:
HEXA<x> {<String>}
<x> = 1 to 4
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:ENHANCED:I2CBUS:DATA:
HEXA1 " AB"

:TRIGger:ENHanced:I2CBus:DATA:MODE

Function Enables/Disables the data conditions of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:DATA:
MODE {<Boolean>}
:TRIGger:ENHanced:I2CBus:DATA:MODE?

Example :TRIGGER:ENHANCED:I2CBUS:DATA:MODE ON
:TRIGGER:ENHANCED:I2CBUS:DATA:MODE?
-> :TRIGGER:ENHANCED:I2CBUS:DATA:MODE 1

:TRIGger:ENHanced:I2CBus:DATA:PATTern<x>

Function Sets the data of the I²C bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:DATA:
PATTern<x> {<String>}
:TRIGger:ENHanced:I2CBus:DATA:
PATTern<x>?
<x> = 1 to 4
<String> = 8 characters by combining '0', '1', and 'X'

Example :TRIGGER:ENHANCED:I2CBUS:DATA:
PATTERN1 " 10101011"
:TRIGGER:ENHANCED:I2CBUS:DATA:
PATTERN1?
-> :TRIGGER:ENHANCED:I2CBUS:DATA:
PATTERN1 " 10101011"

:TRIGger:ENHanced:I2CBus:DATA:PMODE

Function Sets the pattern comparison start position mode of the data of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:DATA:
PMODE {DONTcare|SElect}
:TRIGger:ENHanced:I2CBus:DATA:PMODE?

Example :TRIGGER:ENHANCED:I2CBUS:DATA:
PMODE SELECT
:TRIGGER:ENHANCED:I2CBUS:DATA:PMODE?
-> :TRIGGER:ENHANCED:I2CBUS:DATA:
PMODE SELECT

:TRIGger:ENHanced:I2CBus:DATA:SOURce

Function Sets the data trace of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:DATA:
SOURce {<Nrf>}
:TRIGger:ENHanced:I2CBus:DATA:
SOURce?
<Nrf> = 1 to 4

Example :TRIGGER:ENHANCED:I2CBUS:DATA:SOURCE 1
:TRIGGER:ENHANCED:I2CBUS:DATA:
SOURCE?
-> :TRIGGER:ENHANCED:I2CBUS:DATA:
SOURCE 1

:TRIGger:ENHanced:I2Cbus:GCAL1?

Function Queries all settings related to the general call of the I²C bus signal trigger.

Syntax :TRIGger:ENHanced:I2Cbus:GCAL1?
<x> = 1 or 2

Example :TRIGGER:ENHANCED:I2CBUS:GCALL?
-> :TRIGGER:ENHANCED:I2CBUS:GCALL:
BIT7MADDRESS:PATTERN " 1010101";
TRIGGER:ENHANCED:I2CBUS:GCALL:
SBYTE BIT7MADDRESS

:TRIGger:ENHanced:I2Cbus:GCAL1:BIT7maddress?

Function Queries all settings related to the 7-bit master address of the general call of the I²C bus signal trigger.

Syntax :TRIGger:ENHanced:I2Cbus:GCAL1:
BIT7maddress?
<x> = 1 or 2

Example :TRIGGER:ENHANCED:I2CBUS:GCALL:
BIT7MADDRESS?
-> :TRIGGER:ENHANCED:I2CBUS:GCALL:
BIT7MADDRESS:PATTERN " 1010101"

:TRIGger:ENHanced:I2Cbus:GCAL1:BIT7maddress:HEXA

Function Sets the 7-bit master address of the general call of the I²C bus signal trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:I2Cbus:GCAL1:
BIT7maddress:HEXA {<String>}
<x> = 1 or 2
<String> = 2 characters by combining '0' to 'F' and 'X'
(bit 0 is fixed to '1')

Example :TRIGGER:ENHANCED:I2CBUS:GCALL:
BIT7MADDRESS:HEXA " AB"

:TRIGger:ENHanced:I2Cbus:GCAL1:BIT7maddress:PATtern

Function Sets the 7-bit master address of the general call of the I²C bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:I2Cbus:GCAL1:
BIT7maddress:PATtern {<String>}
:TRIGger:ENHanced:I2Cbus:GCAL1:
BIT7maddress:PATtern?
<x> = 1 or 2
<String> = 7 characters by combining '0', '1', and 'X'

Example :TRIGGER:ENHANCED:I2CBUS:GCALL:
BIT7MADDRESS:PATTERN " 1010101"
:TRIGGER:ENHANCED:I2CBUS:GCALL:
BIT7MADDRESS:PATTERN?
-> :TRIGGER:ENHANCED:I2CBUS:GCALL:
BIT7MADDRESS:PATTERN " 1010101"

:TRIGger:ENHanced:I2Cbus:GCAL1:SBYTE (Second Byte)

Function Sets the second byte type of the general call of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2Cbus:GCAL1:
SBYTE {BIT7maddress|DONTcare|H04|H06}
:TRIGger:ENHanced:I2Cbus:GCAL1:SBYTE?

Example :TRIGGER:ENHANCED:I2CBUS:GCALL:
SBYTE BIT7MADDRESS
:TRIGGER:ENHANCED:I2CBUS:GCALL:
SBYTE?
-> :TRIGGER:ENHANCED:I2CBUS:GCALL:
SBYTE BIT7MADDRESS

:TRIGger:ENHanced:I2Cbus:MODE

Function Sets the trigger mode of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2Cbus:
MODE {ADATa|ESTart|GCAL1|NAIGnore|
SBHSmode}
:TRIGger:ENHanced:I2Cbus:MODE?

Example :TRIGGER:ENHANCED:I2CBUS:MODE ADATA
:TRIGGER:ENHANCED:I2CBUS:MODE?
-> :TRIGGER:ENHANCED:I2CBUS:MODE ADATA

:TRIGger:ENHanced:I2Cbus:NAIGnore?

Function Queries all settings related to the NON ACK ignore mode of the I²C bus signal trigger.

Syntax :TRIGger:ENHanced:I2Cbus:NAIGnore?
Example :TRIGGER:ENHANCED:I2CBUS:NAIGNORE:
-> :TRIGGER:ENHANCED:I2CBUS:NAIGNORE:
HSMODE 1;RACCESS 1;SBYTE 1

:TRIGger:ENHanced:I2Cbus:NAIGnore:HSMode

Function Sets whether to ignore NON ACK in high speed mode of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2Cbus:NAIGnore:
HSMode {<Boolean>}
:TRIGger:ENHanced:I2Cbus:NAIGnore:
HSMode?

Example :TRIGGER:ENHANCED:I2CBUS:NAIGNORE:
HSMODE ON
:TRIGGER:ENHANCED:I2CBUS:NAIGNORE:
HSMODE?
-> :TRIGGER:ENHANCED:I2CBUS:NAIGNORE:
HSMODE 1

7.6 TRIGger Group

:TRIGger:ENHanced:I2CBus:NAIGnore:RACcEss

Function Sets whether to ignore NON ACK in read access mode of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:NAIGnore:RACcEss {<Boolean>}
:TRIGger:ENHanced:I2CBus:NAIGnore:RACcEss?

Example :TRIGGER:ENHANCED:I2CBUS:NAIGNORE:RACCESS ON
:TRIGGER:ENHANCED:I2CBUS:NAIGNORE:RACCESS?
-> :TRIGGER:ENHANCED:I2CBUS:NAIGNORE:RACCESS 1

:TRIGger:ENHanced:I2CBus:NAIGnore:SBYTe (Start Byte)

Function Sets whether to ignore NON ACK in the start byte of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:NAIGnore:SBYTe {<Boolean>}
:TRIGger:ENHanced:I2CBus:NAIGnore:SBYTe?

Example :TRIGGER:ENHANCED:I2CBUS:NAIGNORE:SBYTE ON
:TRIGGER:ENHANCED:I2CBUS:NAIGNORE:SBYTE?
-> :TRIGGER:ENHANCED:I2CBUS:NAIGNORE:SBYTE 1

:TRIGger:ENHanced:I2CBus:SBHSmode?

Function Queries all settings related to the start byte and high speed mode of the I²C bus signal trigger.

Syntax :TRIGger:ENHanced:I2CBus:SBHSmode?

Example :TRIGGER:ENHANCED:I2CBUS:SBHSMODE?
-> :TRIGGER:ENHANCED:I2CBUS:SBHSMODE:TYPE HSMODE

:TRIGger:ENHanced:I2CBus:SBHSmode:TYPE

Function Sets the type of the start byte or high speed mode of the I²C bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:I2CBus:SBHSmode:TYPE {HSMODE|SBYTE}
:TRIGger:ENHanced:I2CBus:SBHSmode:TYPE?

Example :TRIGGER:ENHANCED:I2CBUS:SBHSMODE:TYPE HSMODE
:TRIGGER:ENHANCED:I2CBUS:SBHSMODE:TYPE?
-> :TRIGGER:ENHANCED:I2CBUS:SBHSMODE:TYPE HSMODE

:TRIGger:ENHanced:LINBus?

Function Queries all settings related to the LIN bus trigger or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus?

Example :TRIGGER:ENHANCED:LINBUS?
-> :TRIGGER:ENHANCED:LINBUS:BRATE 19200;SOURCE 1

:TRIGger:ENHanced:LINBus:BRATe

Function Sets the LIN bus signal trigger bitrate (data transfer rate) or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:BRATe {<Nrf>|USER,<Nrf>}

:TRIGger:ENHanced:LINBus:BRATe?<Nrf>=1200, 2400, 4800, 9600, 19200
USER <Nrf>=See section 3.3.

Example :TRIGGER:ENHANCED:LINBUS:BRATE 19200
:TRIGGER:ENHANCED:LINBUS:BRATE?
-> :TRIGGER:ENHANCED:LINBUS:BRATE 19200

:TRIGger:ENHanced:LINBus:SOURce

Function Sets the LIN bus signal trigger source or queries the current setting.

Syntax :TRIGger:ENHanced:LINBus:SOURce {<Nrf>}
:TRIGger:ENHanced:LINBus:SOURce?

<Nrf>=1-4
Example :TRIGGER:ENHANCED:LINBUS:SOURCE 1
:TRIGGER:ENHANCED:LINBUS:SOURCE?
-> :TRIGGER:ENHANCED:LINBUS:SOURCE 1

:TRIGger:ENHanced:SPIBus?

Function Queries all settings related to the SPI bus signal trigger.

Syntax :TRIGger:ENHanced:SPIBus?

Example :TRIGGER:ENHANCED:SPIBUS?
-> :TRIGGER:ENHANCED:SPIBUS:BITORDER LSBFIRST;CLOCK:POLARITY FALL;SOURCE 1;:TRIGGER:ENHANCED:SPIBUS:CS:ACTIVE HIGH;SOURCE 1;:TRIGGER:ENHANCED:SPIBUS:DATA1:BYTE 1;CONDITION TRUE;DPOSITION 1;PATTERN1 "00010010";PATTERN2 "00110100";PATTERN3 "01010110";PATTERN4 "00010010";SOURCE 3;:TRIGGER:ENHANCED:SPIBUS:DATA2:BYTE 4;CONDITION TRUE;DPOSITION 1;PATTERN1 "00010010";PATTERN2 "00110100";PATTERN3 "01010110";PATTERN4 "00010010";SOURCE 3;:TRIGGER:ENHANCED:SPIBUS:MODE WIRE3

: TRIGger: ENHanced: SPIBus: BITOrder

Function Sets the bit order of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:
BITOrder {LSBFirst|MSBFirst}
:TRIGger:ENHanced:SPIBus:BITOrder?

Example :TRIGGER:ENHANCED:SPIBUS:
BITORDER LSBFIRST
:TRIGGER:ENHANCED:SPIBUS:BITORDER?
-> :TRIGGER:ENHANCED:SPIBUS:
BITORDER LSBFIRST

: TRIGger: ENHanced: SPIBus: CLOCK?

Function Queries all settings related to the clock channel of the SPI bus signal trigger.

Syntax :TRIGger:ENHanced:SPIBus:CLOCK?

Example :TRIGGER:ENHANCED:SPIBUS:CLOCK?
-> :TRIGGER:ENHANCED:SPIBUS:CLOCK:
POLARITY FALL;SOURCE 1

: TRIGger: ENHanced: SPIBus: CLOCK: POLarity

Function Sets the polarity of the clock channel of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:CLOCK:
POLarity {FALL|RISE}
:TRIGger:ENHanced:SPIBus:CLOCK:
POLarity?

Example :TRIGGER:ENHANCED:SPIBUS:CLOCK:
POLARITY FALL
:TRIGGER:ENHANCED:SPIBUS:CLOCK:
POLARITY?
-> :TRIGGER:ENHANCED:SPIBUS:CLOCK:
POLARITY FALL

: TRIGger: ENHanced: SPIBus: CLOCK: SOURCE

Function Sets the clock channel of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:CLOCK:
SOURCE {<Nrf>}
:TRIGger:ENHanced:SPIBus:CLOCK:SOURCE?
<Nrf> = 1 to 4

Example :TRIGGER:ENHANCED:SPIBUS:CLOCK:SOURCE 1
:TRIGGER:ENHANCED:SPIBUS:CLOCK:
SOURCE? -> :TRIGGER:ENHANCED:SPIBUS:
CLOCK:SOURCE 1

: TRIGger: ENHanced: SPIBus: CS?

Function Queries all settings related to the chip select channel of the SPI bus signal trigger.

Syntax :TRIGger:ENHanced:SPIBus:CS?

Example :TRIGGER:ENHANCED:SPIBUS:CS?
-> :TRIGGER:ENHANCED:SPIBUS:CS:ACTIVE
HIGH;SOURCE 1

: TRIGger: ENHanced: SPIBus: CS: ACTive

Function Sets the active level of the chip select channel of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:CS:
ACTive {HIGH|LOW}
:TRIGger:ENHanced:SPIBus:CS:ACTive?

Example :TRIGGER:ENHANCED:SPIBUS:CS:ACTIVE HIGH
:TRIGGER:ENHANCED:SPIBUS:CS:ACTIVE?
-> :TRIGGER:ENHANCED:SPIBUS:CS:
ACTIVE HIGH

: TRIGger: ENHanced: SPIBus: CS: SOURCE

Function Sets the chip select channel of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:CS:
SOURCE {<Nrf>}
:TRIGger:ENHanced:SPIBus:CS:SOURCE?
<Nrf> = 1 to 4

Example :TRIGGER:ENHANCED:SPIBUS:CS:SOURCE 1
:TRIGGER:ENHANCED:SPIBUS:CS:SOURCE?
-> :TRIGGER:ENHANCED:SPIBUS:CS:SOURCE 1

: TRIGger: ENHanced: SPIBus: DATA<x>?

Function Queries all settings related to the data of the SPI bus signal trigger.

Syntax :TRIGger:ENHanced:SPIBus:DATA<x>?
<x> = 1 or 2

Example :TRIGGER:ENHANCED:SPIBUS:DATA1?
-> :TRIGGER:ENHANCED:SPIBUS:DATA1:
BYTE 1;CONDITION TRUE;DPOSITION 1;
PATTERN1 " 00010010";
PATTERN2 " 00110100";
PATTERN3 " 01010110";
PATTERN4 " 00010010";SOURCE 3

Description DATA2 is valid when :TRIGger:ENHanced:
SPIBus:MODE WIRE4 is specified.

: TRIGger: ENHanced: SPIBus: DATA<x>: BYTE

Function Sets the number of bytes of the data of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:DATA<x>:
BYTE {<Nrf>}
:TRIGger:ENHanced:SPIBus:DATA<x>:BYTE?
<x> = 1 or 2
<Nrf> = 1 to 4

Example :TRIGGER:ENHANCED:SPIBUS:DATA1:BYTE 1
:TRIGGER:ENHANCED:SPIBUS:DATA1:BYTE?
-> :TRIGGER:ENHANCED:SPIBUS:DATA1:
BYTE 1

7.6 TRIGger Group

:TRIGger:ENHanced:SPIBus:DATA<x>:CONDition

Function Sets the determination method (match or not match) of the data of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:DATA<x>:
CONDition {FALSE|TRUE}
:TRIGger:ENHanced:SPIBus:DATA<x>:
CONDition?
<x> = 1 or 2

Example :TRIGGER:ENHANCED:SPIBUS:DATA1:
CONDITION TRUE
:TRIGGER:ENHANCED:SPIBUS:DATA1:
CONDITION?
-> :TRIGGER:ENHANCED:SPIBUS:DATA1:
CONDITION TRUE

:TRIGger:ENHanced:SPIBus:DATA<x>:DPOsition

Function Sets the pattern comparison start position of the data of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:DATA<x>:
DPOsition {<Nrf>}
:TRIGger:ENHanced:SPIBus:DATA<x>:
DPOsition?
<x> = 1 or 2
<Nrf> = 0 to 9999

Example :TRIGGER:ENHANCED:SPIBUS:DATA1:
DPOSITION 1
:TRIGGER:ENHANCED:SPIBUS:DATA1:
DPOSITION?
-> :TRIGGER:ENHANCED:SPIBUS:DATA1:
DPOSITION 1

:TRIGger:ENHanced:SPIBus:DATA<x>:HEXA<x>

Function Sets the data of the SPI bus signal trigger in hexadecimal notation.

Syntax :TRIGger:ENHanced:SPIBus:DATA<x>:
HEXA<x> {<String>}
<x> of DATA<x> = 1 or 2
<x> of HEXA<x> = 1 to 4
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:ENHANCED:SPIBUS:DATA1:
HEXA1 " AB"

:TRIGger:ENHanced:SPIBus:DATA<x>:PATtern<x>

Function Sets the data of the SPI bus signal trigger in binary notation or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:DATA<x>:
PATtern<x> {<String>}
:TRIGger:ENHanced:SPIBus:DATA<x>:
PATtern<x>?
<x> of DATA<x> = 1 or 2
<x> of <PATtern x> = 1 to 4
<String> = 8 characters by combining '0', '1', and 'X'

Example :TRIGGER:ENHANCED:SPIBUS:DATA1:
PATTERN1 " 10101011"
:TRIGGER:ENHANCED:SPIBUS:DATA1:
PATTERN1?
-> :TRIGGER:ENHANCED:SPIBUS:DATA1:
PATTERN1 " 10101011"

:TRIGger:ENHanced:SPIBus:DATA<x>:SOURce

Function Sets the source channel of the data of the SPI bus signal trigger or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:DATA<x>:
SOURce {<Nrf>}
:TRIGger:ENHanced:SPIBus:DATA<x>:
SOURce?
<x> = 1 or 2
<Nrf> = 1 to 4

Example :TRIGGER:ENHANCED:SPIBUS:DATA1:SOURCE 1
:TRIGGER:ENHANCED:SPIBUS:DATA1:
SOURCE? -> :TRIGGER:ENHANCED:SPIBUS:
DATA1:SOURCE 1

:TRIGger:ENHanced:SPIBus::MODE

Function Sets the wiring system of the SPI bus signal trigger (three-wire or four-wire) or queries the current setting.

Syntax :TRIGger:ENHanced:SPIBus:
MODE {WIRE3|WIRE4}
:TRIGger:ENHanced:SPIBus:MODE?

Example :TRIGGER:ENHANCED:SPIBUS:MODE WIRE3
:TRIGGER:ENHANCED:SPIBUS:MODE?
-> :TRIGGER:ENHANCED:SPIBUS:MODE WIRE3

: TRIGger: ENHanced: UART?

Function Queries all settings related to the UART bus signal trigger.

Syntax :TRIGger:ENHanced:UART?

Example :TRIGGER:ENHANCED:UART? -> :TRIGGER:
ENHANCED:UART:BRATE 19200;
FORMAT BIT7PARITY;POLARITY NEGATIVE;
SOURCE 1;SPOINT 18.8E+00

: TRIGger: ENHanced: UART: BRATe

Function Sets the UART bus signal trigger bit rate (data transfer rate) or queries the current setting.

Syntax :TRIGger:ENHanced:UART:

BRATe {<Nrf>|USER, <Nrf>}
:TRIGger:ENHanced:UART:BRATe?
<Nrf> = 1200, 2400, 4800, 9600, 19200, 38400,
57600, 115200
<Nrf> of USER = See section 3.5.

Example :TRIGGER:ENHANCED:UART:BRATE 19200
:TRIGGER:ENHANCED:UART:BRATE? ->
:TRIGGER:ENHANCED:UART:BRATE 19200

: TRIGger: ENHanced: UART: FORMat

Function Sets the UART bus signal trigger format or queries the current setting.

Syntax :TRIGger:ENHanced:UART:

FORMat {BIT7parity|BIT8Noparity|
BIT8Parity}
:TRIGger:ENHanced:UART:FORMat?

Example :TRIGGER:ENHANCED:UART:
FORMAT BIT7PARITY
:TRIGGER:ENHANCED:UART:FORMAT? ->
:TRIGGER:ENHANCED:UART:
FORMAT BIT7PARITY

: TRIGger: ENHanced: UART: POLarity

Function Sets the UART bus signal trigger polarity or queries the current setting.

Syntax :TRIGger:ENHanced:UART:

POLarity {NEGative|POSitive}
:TRIGger:ENHanced:UART:POLarity?

Example :TRIGGER:ENHANCED:UART:
POLARITY NEGATIVE
:TRIGGER:ENHANCED:UART:POLARITY? ->
:TRIGGER:ENHANCED:UART:
POLARITY NEGATIVE

: TRIGger: ENHanced: UART: SOURce

Function Sets the UART bus signal trigger source or queries the current setting.

Syntax :TRIGger:ENHanced:UART:SOURce {<Nrf>}

:TRIGger:ENHanced:UART:SOURce?
<Nrf> = 1 to 4

Example :TRIGGER:ENHANCED:UART:SOURCE 1
:TRIGGER:ENHANCED:UART:SOURCE? ->
:TRIGGER:ENHANCED:UART:SOURCE 1

: TRIGger: ENHanced: UART: SPOint

Function Sets the UART bus signal trigger sample point or queries the current setting.

Syntax :TRIGger:ENHanced:UART:SPOint {<Nrf>}

:TRIGger:ENHanced:UART:SPOint?
<Nrf> = 18.8 to 90.6(%)

Example :TRIGGER:ENHANCED:UART:SPOINT 18.8
:TRIGGER:ENHANCED:UART:SPOINT? ->
:TRIGGER:ENHANCED:UART:SPOINT 18.8E+00

: TRIGger: LOGic: I2CBus?

Function Queries all settings related to the logic I²C bus trigger.

Syntax :TRIGger:LOGic:I2CBus?

Example :TRIGGER:LOGIC:I2CBUS? -> :TRIGGER:
LOGIC:I2CBUS:ADATA:BIT10ADDRESS:
PATTERN " 1011101111";:TRIGGER:LOGIC:
I2CBUS:ADATA:BIT7ADDRESS:
PATTERN " 11011110";:TRIGGER:LOGIC:
I2CBUS:ADATA:BIT7APSUB:ADDRESS:
PATTERN " 10101011";:TRIGGER:LOGIC:
I2CBUS:ADATA:BIT7APSUB:SADDRESS:
PATTERN " 10101011";:TRIGGER:LOGIC:
I2CBUS:ADATA:TYPE BIT10ADDRESS;:
TRIGGER:LOGIC:I2CBUS:CLOCK:SOURCE A0;:
TRIGGER:LOGIC:I2CBUS:DATA:BYTE 1;
CONDITION FALSE;DPOSITION 1;MODE 1;
PATTERN1 " 10101011";
PATTERN2 " XXXXXXXX";
PATTERN3 " XXXXXXXX";
PATTERN4 " XXXXXXXX";
PMODE DONTCARE;SOURCE A0;:
TRIGGER:LOGIC:I2CBUS:GCALL:
BIT7MADDRESS:PATTERN " 1010101";:
TRIGGER:LOGIC:I2CBUS:GCALL:
SBYTE BIT7MADDRESS;:TRIGGER:LOGIC:
I2CBUS:MODE ADATA;NAIGNORE:HSMODE 1;
RACCESS 1;SBYTE 1;:TRIGGER:LOGIC:
I2CBUS:SBHSMODE:TYPE HSMODE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.6 TRIGger Group

:TRIGger:LOGic:I2CBus:ADATa?

Function Queries all settings related to the address of the logic I²C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:ADATa?

Example :TRIGGER:LOGIC:I2CBUS:
ADATa? -> :TRIGGER:LOGIC:I2CBUS:ADATa:
BIT10ADDRESS:PATTERN " 10111011111";:
TRIGGER:LOGIC:I2CBUS:ADATa:
BIT7ADDRESS:PATTERN " 11011110";:
TRIGGER:LOGIC:I2CBUS:ADATa:BIT7APSUB:
ADDRESS:PATTERN " 10101011";:TRIGGER:
LOGIC:I2CBUS:ADATa:BIT7APSUB:
SADDRESS:PATTERN " 10101011";:TRIGGER:
LOGIC:I2CBUS:ADATa:TYPE BIT10ADDRESS

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:ADATa: BIT10address?

Function Queries all settings related to the 10-bit address of the logic I²C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:ADATa:
BIT10address?

Example :TRIGGER:LOGIC:I2CBUS:ADATa:
BIT10ADDRESS? -> :TRIGGER:LOGIC:I2CBUS:
ADATa:BIT10ADDRESS:
PATTERN " 10111011111"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:ADATa: BIT10address:HEXA

Function Sets the 10-bit address of the logic I²C bus trigger in hexadecimal notation.

Syntax :TRIGger:LOGic:I2CBus:ADATa:
BIT10address:HEXA {<String>}
<String> = 3 characters by combining '0' to 'F' and 'X'
(bit 8 is the R/W bit)

Example :TRIGGER:LOGIC:I2CBUS:ADATa:
BIT10ADDRESS:HEXA " 7AB"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:ADATa: BIT10address:PATtern

Function Sets the 10-bit address of the logic I²C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:ADATa:
BIT10address:PATtern {<String>}
:TRIGger:LOGic:I2CBus:ADATa:
BIT10address:PATtern?
<String> = 11 characters by combining '0' to '1' and 'X'
(bit 8 is the R/W bit)

Example :TRIGGER:LOGIC:I2CBUS:ADATa:
BIT10ADDRESS:PATTERN " 10111011111"
:TRIGGER:LOGIC:I2CBUS:ADATa:
BIT10ADDRESS:PATTERN? -> :TRIGGER:
LOGIC:I2CBUS:ADATa:BIT10ADDRESS:
PATTERN " 10111011111"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:ADATa: BIT7Address?

Function Queries all settings related to the 7-bit address of the logic I²C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:ADATa:
BIT7Address?

Example :TRIGGER:LOGIC:I2CBUS:ADATa:
BIT7ADDRESS? -> :TRIGGER:LOGIC:
I2CBUS:ADATa:BIT7ADDRESS:
PATTERN " 11011110"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:ADATa: BIT7Address:HEXA

Function Sets the 7-bit address of the logic I²C bus trigger in hexadecimal notation.

Syntax :TRIGger:LOGic:I2CBus:ADATa:
BIT7Address:HEXA {<String>}
<String> = 2 characters by combining '0' to 'F' and 'X'
(bit 0 is the R/W bit)

Example :TRIGGER:LOGIC:I2CBUS:ADATa:
BIT7ADDRESS:HEXA " DE"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:ADATa:**BIT7ADDRESS:PATtern**

Function Sets the 7-bit address of the logic I²C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:ADATa:
BIT7ADDRESS:PATtern {<String>}
:TRIGger:LOGic:I2CBus:ADATa:
BIT7ADDRESS:PATtern?
<String> = 8 characters by combining '0' to '1' and 'X'
(bit 0 is the R/W bit)

Example :TRIGGER:LOGIC:I2CBUS:ADATA:
BIT7ADDRESS:PATTERN " 11011110"
:TRIGGER:LOGIC:I2CBUS:ADATA:
BIT7ADDRESS:PATTERN? -> :TRIGGER:
LOGIC:I2CBUS:ADATA:BIT7ADDRESS:
PATTERN " 11011110"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:ADATa:**BIT7APsub?**

Function Queries all settings related to the 7-bit + Sub address of the logic I²C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:ADATa:BIT7APsub?
Example :TRIGGER:LOGIC:I2CBUS:ADATA:
BIT7APSUB? -> :TRIGGER:LOGIC:I2CBUS:
ADATA:BIT7APSUB:ADDRESS
:PATTERN " 10101011"; :TRIGGER:LOGIC:
I2CBUS:ADATA:BIT7APSUB:SADDRESS
:PATTERN " 10101011"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:ADATa:**BIT7APsub:ADDRESS?**

Function Queries all settings related to the 7-bit address of the 7-bit + Sub address of the logic I²C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:ADATa:BIT7APsub:
ADDRESS?
Example :TRIGGER:LOGIC:I2CBUS:ADATA:BIT7APSUB:
ADDRESS? -> :TRIGGER:LOGIC:I2CBUS:
ADATA:BIT7APSUB:ADDRESS:
PATTERN " 10101011"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:ADATa:**BIT7APsub:ADDRESS:HEXA**

Function Sets the 7-bit address of the 7-bit + Sub address of the logic I²C bus trigger in hexadecimal notation.

Syntax :TRIGger:LOGic:I2CBus:ADATa:BIT7APsub:
ADDRESS:HEXA {<String>}
<String> = 2 characters by combining '0' to 'F' and 'X'
(bit 0 is the R/W bit)

Example :TRIGGER:LOGIC:I2CBUS:ADATA:BIT7APSUB:
ADDRESS:HEXA " AB"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:ADATa:**BIT7APsub:ADDRESS:PATtern**

Function Sets the 7-bit address of the 7-bit + Sub address of the logic I²C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:ADATa:BIT7APsub:
ADDRESS:PATtern {<String>}
:TRIGger:LOGic:I2CBus:ADATa:BIT7APsub:
ADDRESS:PATtern?
<String> = 8 characters by combining '0' to '1' and 'X'
(bit 0 is the R/W bit)

Example :TRIGGER:LOGIC:I2CBUS:ADATA:BIT7APSUB:
ADDRESS:PATTERN " 10101011"
:TRIGGER:LOGIC:I2CBUS:ADATA:BIT7APSUB:
ADDRESS:PATTERN? -> :TRIGGER:LOGIC:
I2CBUS:ADATA:BIT7APSUB:ADDRESS:
PATTERN " 10101011"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:ADATa:**BIT7APsub:SADDRESS?**

Function Queries all settings related to the Sub address of the 7-bit + Sub address of the logic I²C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:ADATa:BIT7APsub:
SADDRESS?
Example :TRIGGER:LOGIC:I2CBUS:ADATA:BIT7APSUB:
SADDRESS? -> :TRIGGER:LOGIC:I2CBUS:
ADATA:BIT7APSUB:SADDRESS:
PATTERN " 10101011"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.6 TRIGger Group

:TRIGger:LOGic:I2CBus:ADATa:

BIT7APsub:SADdress:HEXA

Function Sets the Sub address of the 7-bit + Sub address of the logic I²C bus trigger in hexadecimal notation.

Syntax :TRIGger:LOGic:I2CBus:ADATa:BIT7APsub:
SADdress:HEXA {<String>}
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:LOGIC:I2CBUS:ADATA:BIT7APSUB:
SADDRESS:HEXA " EF"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:ADATa:

BIT7APsub:SADdress:PATtern

Function Sets the Sub address of the 7-bit + Sub address of the logic I²C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:ADATa:BIT7APsub:
SADdress:PATtern {<String>}
:TRIGger:LOGic:I2CBus:ADATa:BIT7APsub:
SADdress:PATtern?
<String> = 8 characters by combining '0' to '1' and 'X'

Example :TRIGGER:LOGIC:I2CBUS:ADATA:BIT7APSUB:
SADDRESS:PATTERN " 10101011"
:TRIGGER:LOGIC:I2CBUS:ADATA:BIT7APSUB:
SADDRESS:PATTERN? -> :TRIGGER:LOGIC:
I2CBUS:ADATA:BIT7APSUB:SADDRESS:
PATTERN " 10101011"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:ADATa:TYPE

Function Sets the address type of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:ADATa:
TYPE {BIT10address|BIT7Address|
BIT7APsub}
:TRIGger:LOGic:I2CBus:ADATa:TYPE?

Example :TRIGGER:LOGIC:I2CBUS:ADATA:
TYPE BIT10ADDRESS
:TRIGGER:LOGIC:I2CBUS:ADATA:
TYPE? -> :TRIGGER:LOGIC:I2CBUS:ADATA:
TYPE BIT10ADDRESS

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:CLOCK?

Function Queries all settings related to the clock of the logic I²C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:CLOCK?

Example :TRIGGER:LOGIC:I2CBUS:
CLOCK? -> :TRIGGER:LOGIC:I2CBUS:CLOCK:
SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:CLOCK:SOURce

Function Sets the clock trace of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:CLOCK:
SOURce {A<x>|B<x>|C<x>|D<x>}
:TRIGger:LOGic:I2CBus:CLOCK:SOURce?
<x> = 0 to 7

Example :TRIGGER:LOGIC:I2CBUS:CLOCK:SOURCE A0
:TRIGGER:LOGIC:I2CBUS:CLOCK:
SOURCE? -> :TRIGGER:LOGIC:I2CBUS:CLOCK:
SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:TRIGger:LOGic:I2CBus:DATA?

Function Queries all settings related to the data of the logic I²C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:DATA?

Example :TRIGGER:LOGIC:I2CBUS:
DATA? -> :TRIGGER:LOGIC:I2CBUS:DATA:
BYTE 1;CONDITION FALSE;DPOSITION 1;
MODE 1;PATTERN1 " 10101011";
PATTERN2 " XXXXXXXX";
PATTERN3 " XXXXXXXX";
PATTERN4 " XXXXXXXX";PMODE DONTCARE;
SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:DATA:BYTE

Function Sets the number of data bytes of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:DATA:BYTE {<Nrf>}
:TRIGger:LOGic:I2CBus:DATA:BYTE?
<Nrf> = 1 to 4

Example :TRIGGER:LOGIC:I2CBUS:DATA:BYTE 1
:TRIGGER:LOGIC:I2CBUS:DATA:
BYTE? -> :TRIGGER:LOGIC:I2CBUS:DATA:
BYTE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2Cbus:DATA:CONDition

Function Sets the determination method (match or not match) of the data of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2Cbus:DATA:
CONDition {FALSE|TRUE}
:TRIGger:LOGic:I2Cbus:DATA:CONDition?

Example :TRIGGER:LOGIC:I2CBUS:DATA:
CONDITION FALSE
:TRIGGER:LOGIC:I2CBUS:DATA:
CONDITION? -> :TRIGGER:LOGIC:I2CBUS:
DATA:CONDITION FALSE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2Cbus:DATA:DPOSition

Function Sets the position for comparing the data pattern of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2Cbus:DATA:DPOSition
{<Nrf>}
:TRIGger:LOGic:I2Cbus:DATA:DPOSition?
<Nrf> = 0 to 9999

Example :TRIGGER:LOGIC:I2CBUS:DATA:DPOSITION 1
:TRIGGER:LOGIC:I2CBUS:DATA:
DPOSITION? -> :TRIGGER:LOGIC:I2CBUS:
DATA:DPOSITION 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2Cbus:DATA:HEXA<x>

Function Sets the data of the logic I²C bus trigger in hexadecimal notation.

Syntax :TRIGger:LOGic:I2Cbus:DATA:
HEXA<x> {<String>}
<x> = 1 to 4
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:LOGIC:I2CBUS:DATA:HEXA1 " AB"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2Cbus:DATA:MODE

Function Enables/disables the data conditions of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2Cbus:DATA:
MODE {<Boolean>}
:TRIGger:LOGic:I2Cbus:DATA:MODE?

Example :TRIGGER:LOGIC:I2CBUS:DATA:MODE ON
:TRIGGER:LOGIC:I2CBUS:DATA:
MODE? -> :TRIGGER:LOGIC:I2CBUS:DATA:
MODE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2Cbus:DATA:**PATtern<x>**

Function Sets the data of the I²C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:LOGic:I2Cbus:DATA:PATtern<x>
{<String>}
:TRIGger:LOGic:I2Cbus:DATA:PATtern<x>?
<x> = 1 to 4
<String> = 8 characters by combining '0' to '1' and 'X'

Example :TRIGGER:LOGIC:I2CBUS:DATA:PATTERN1
" 10101011"
:TRIGGER:LOGIC:I2CBUS:
PATTERN1? -> :TRIGGER:LOGIC:I2CBUS:
DATA:PATTERN1 " 10101011"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2Cbus:DATA:PMODE

Function Sets the pattern comparison start position mode of the data of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2Cbus:DATA:
PMODE {DONTcare|SElect}
:TRIGger:LOGic:I2Cbus:DATA:PMODE?

Example :TRIGGER:LOGIC:I2CBUS:DATA:
PMODE DONTCARE
:TRIGGER:LOGIC:I2CBUS:DATA:
PMODE? -> :TRIGGER:LOGIC:I2CBUS:DATA:
PMODE DONTCARE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2Cbus:DATA:SOURce

Function Sets the data trace of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2Cbus:DATA:
SOURce {A<x>|B<x>|C<x>|D<x>}
:TRIGger:LOGic:I2Cbus:DATA:SOURce?
<x> = 0 to 7

Example :TRIGGER:LOGIC:I2CBUS:DATA:SOURCE A0
:TRIGGER:LOGIC:I2CBUS:DATA:
SOURCE? -> :TRIGGER:LOGIC:I2CBUS:DATA:
SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

7.6 TRIGger Group

:TRIGger:LOGic:I2CBus:GCALl?

Function Queries all settings related to the general call of the logic I²C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:GCALl?

Example :TRIGGER:LOGIC:I2CBUS:
GCALL? -> :TRIGGER:LOGIC:I2CBUS:GCALL:
BIT7MADDRESS:PATTERN " 1010101";:
TRIGGER:LOGIC:I2CBUS:GCALL:
SBYTE BIT7MADDRESS

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:GCALl: BIT7maddress?

Function Queries all settings related to the 7-bit master address of the general code of the logic I²C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:GCALl:
BIT7maddress?

Example :TRIGGER:LOGIC:I2CBUS:GCALL:
BIT7MADDRESS? -> :TRIGGER:LOGIC:I2CBUS:
GCALL:BIT7MADDRESS:PATTERN " 1010101"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:GCALl: BIT7maddress:HEXA

Function Sets the 7-bit master address of the general call of the logic I²C bus trigger in hexadecimal notation.

Syntax :TRIGger:LOGic:I2CBus:GCALl:
BIT7maddress:HEXA {<String>}
<String> = 2 characters by combining '0' to 'F' and 'X'
(bit 0 is fixed 1)

Example :TRIGGER:LOGIC:I2CBUS:GCALL:
BIT7MADDRESS:HEXA " AB"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:GCALl: BIT7maddress:PATtern

Function Sets the 7-bit master address of the general call of the logic I²C bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:GCALl:
BIT7maddress:PATtern {<String>}
:TRIGger:LOGic:I2CBus:GCALl:
BIT7maddress:PATtern?

<String> = 7 characters by combining '0' to '1' and 'X'

Example :TRIGGER:LOGIC:I2CBUS:GCALL:
BIT7MADDRESS:PATTERN " 1010101"
:TRIGGER:LOGIC:I2CBUS:GCALL:
BIT7MADDRESS:PATTERN? -> :TRIGGER:
LOGIC:I2CBUS:GCALL:BIT7MADDRESS:
PATTERN " 1010101"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:GCALl: SBYTE (Second Byte)

Function Sets the second byte type of the general call of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:GCALl:
SBYTE {BIT7maddress|DONTcare|H04|H06}
:TRIGger:LOGic:I2CBus:GCALl:SBYTE?

Example :TRIGGER:LOGIC:I2CBUS:GCALL:
SBYTE BIT7MADDRESS
:TRIGGER:LOGIC:I2CBUS:GCALL:
SBYTE? -> :TRIGGER:LOGIC:I2CBUS:GCALL:
SBYTE BIT7MADDRESS

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:MODE

Function Sets the trigger mode of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:
MODE {ADATa|ESTart|GCALl|NAIgnore|
SBHSmode}
:TRIGger:LOGic:I2CBus:MODE?

Example :TRIGGER:LOGIC:I2CBUS:MODE ADATA
:TRIGGER:LOGIC:I2CBUS:
MODE? -> :TRIGGER:LOGIC:I2CBUS:
MODE ADATA

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:NAIGnore?

Function Queries all settings related to the NON ACK ignore mode of the logic I²C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:NAIGnore?

Example :TRIGGER:LOGIC:I2CBUS:
NAIGNORE? -> :TRIGGER:LOGIC:I2CBUS:
NAIGNORE:HSMODE 1;RACCESS 1;SBYTE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:NAIGnore:HSMode

Function Sets whether to ignore NON ACK in high speed mode of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:NAIGnore:
HSMode {<Boolean>}
:TRIGger:LOGic:I2CBus:NAIGnore:HSMode?

Example :TRIGGER:LOGIC:I2CBUS:NAIGNORE:
HSMODE ON
:TRIGGER:LOGIC:I2CBUS:NAIGNORE:
HSMODE? -> :TRIGGER:LOGIC:I2CBUS:
NAIGNORE:HSMODE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:NAIGnore:RACCEss

Function Sets whether to ignore NON ACK in read access mode of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:NAIGnore:
RACCEss {<Boolean>}
:TRIGger:LOGic:I2CBus:NAIGnore:RACCEss?

Example :TRIGGER:LOGIC:I2CBUS:NAIGNORE:
RACCESS ON
:TRIGGER:LOGIC:I2CBUS:NAIGNORE:
RACCESS? -> :TRIGGER:LOGIC:I2CBUS:
NAIGNORE:RACCESS 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:NAIGnore:SBYTE (Start Byte)

Function Sets whether to ignore NON ACK in the start byte of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:NAIGnore:
SBYTE {<Boolean>}
:TRIGger:LOGic:I2CBus:NAIGnore:SBYTE?

Example :TRIGGER:LOGIC:I2CBUS:NAIGNORE:SBYTE ON
:TRIGGER:LOGIC:I2CBUS:NAIGNORE:
SBYTE? -> :TRIGGER:LOGIC:I2CBUS:
NAIGNORE:SBYTE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:SBHSMode?

Function Queries all settings related to the start byte and high speed mode of the logic I²C bus trigger.

Syntax :TRIGger:LOGic:I2CBus:SBHSMode?

Example :TRIGGER:LOGIC:I2CBUS:
SBHSMODE? -> :TRIGGER:LOGIC:I2CBUS:
SBHSMODE:TYPE HSMODE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:I2CBus:SBHSMode:TYPE

Function Sets the type of start byte and high speed mode of the logic I²C bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:I2CBus:SBHSMode:TYPE
{HSMode|SBYTE}
:TRIGger:LOGic:I2CBus:SBHSMode:TYPE?

Example :TRIGGER:LOGIC:I2CBUS:SBHSMODE:
TYPE HSMODE
:TRIGGER:LOGIC:I2CBUS:SBHSMODE:
TYPE? -> :TRIGGER:LOGIC:I2CBUS:
SBHSMODE:TYPE HSMODE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:LINBus?

Function Queries all settings related to the logic LIN bus signal trigger.

Syntax :TRIGger:LOGic:LINBus?

Example :TRIGGER:LOGIC:LINBUS? -> :TRIGGER:
LOGIC:LINBUS:BRATE 19200;SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:LINBus:BRATE

Function Sets the bit rate (data transfer rate) of the logic LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:LOGic:LINBus:BRATE
{<Nrf>|USER,<Nrf>}
:TRIGger:LOGic:LINBus:BRATE?
<Nrf> = 1200, 2400, 4800, 9600, or 19200
<Nrf> of USER = See section 3.3.

Example :TRIGGER:LOGIC:LINBUS:BRATE 19200
:TRIGGER:LOGIC:LINBUS:
BRATE? -> :TRIGGER:LOGIC:LINBUS:
BRATE 19200

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.6 TRIGger Group

:TRIGger:LOGic:LINBus:SOURce

Function Sets the trigger source of the logic LIN bus signal trigger or queries the current setting.

Syntax :TRIGger:LOGic:LINBus:SOURce
{A<x>|B<x>|C<x>|D<x>}
:TRIGger:LOGic:LINBus:SOURce?
<x> = 0 to 7

Example :TRIGGER:LOGIC:LINBUS:SOURCE A0
:TRIGGER:LOGIC:LINBUS:
SOURCE? -> :TRIGGER:LOGIC:LINBUS:
SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:TRIGger:LOGic:SPIBus?

Function Queries all settings related to the logic SPI bus trigger.

Syntax :TRIGger:LOGic:SPIBus?
Example :TRIGGER:LOGIC:SPIBUS? -> :TRIGGER:
LOGIC:SPIBUS:BITORDER LSBFIRST;CLOCK:
POLARITY FALL;SOURCE A0;:TRIGGER:
LOGIC:SPIBUS:CS:ACTIVE HIGH;SOURCE A0;:
TRIGGER:LOGIC:SPIBUS:DATA1:BYTE 1;
CONDITION FALSE;DPOSITION 1;
PATTERN1 " 10101011";
PATTERN2 " XXXXXXXX";
PATTERN3 " XXXXXXXX";
PATTERN4 " XXXXXXXX";SOURCE A0;:
TRIGGER:LOGIC:SPIBUS:DATA2:BYTE 1;
CONDITION TRUE;DPOSITION 0;
PATTERN1 " XXXXXXXX";
PATTERN2 " XXXXXXXX";
PATTERN3 " XXXXXXXX";
PATTERN4 " XXXXXXXX";SOURCE A2;:
TRIGGER:LOGIC:SPIBUS:MODE WIRE3

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:SPIBus:BITorder

Function Sets the bit order of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPIBus:
BITorder {LSBFirst|MSBFirst}
:TRIGger:LOGic:SPIBus:BITorder?
Example :TRIGGER:LOGIC:SPIBUS:BITORDER LSBFIRST
:TRIGGER:LOGIC:SPIBUS:
BITORDER? -> :TRIGGER:LOGIC:SPIBUS:
BITORDER LSBFIRST

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:SPIBus:CLOCK?

Function Queries all settings related to the clock of the logic SPI bus trigger.

Syntax :TRIGger:LOGic:SPIBus:CLOCK?
Example :TRIGGER:LOGIC:SPIBUS:
CLOCK? -> :TRIGGER:LOGIC:SPIBUS:CLOCK:
POLARITY FALL;SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:SPIBus:CLOCK:POLarity

Function Sets the polarity of the clock trace of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPIBus:CLOCK:
POLarity {FALL|RISE}
:TRIGger:LOGic:SPIBus:CLOCK:POLarity?
Example :TRIGGER:LOGIC:SPIBUS:CLOCK:
POLARITY FALL

:TRIGGER:LOGIC:SPIBUS:CLOCK:
POLARITY? -> :TRIGGER:LOGIC:SPIBUS:
CLOCK:POLARITY FALL

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:SPIBus:CLOCK:SOURce

Function Sets the clock trace of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPIBus:CLOCK:
SOURce {A<x>|B<x>|C<x>|D<x>}
:TRIGger:LOGic:SPIBus:CLOCK:SOURce?
<x> = 0 to 7

Example :TRIGGER:LOGIC:SPIBUS:CLOCK:SOURCE A0
:TRIGGER:LOGIC:SPIBUS:CLOCK:
SOURCE? -> :TRIGGER:LOGIC:SPIBUS:
CLOCK:SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:TRIGger:LOGic:SPIBus:CS?

Function Queries all settings related to the chip select of the logic SPI bus trigger.

Syntax :TRIGger:LOGic:SPIBus:CS?
Example :TRIGGER:LOGIC:SPIBUS:
CS? -> :TRIGGER:LOGIC:SPIBUS:CS:
ACTIVE HIGH;SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:SPIBus:CS:ACTive

Function Sets the active level of the chip select of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPIBus:CS:
ACTive {HIGH|LOW}
:TRIGger:LOGic:SPIBus:CS:ACTive?

Example :TRIGGER:LOGIC:SPIBUS:CS:ACTIVE HIGH
:TRIGGER:LOGIC:SPIBUS:CS:
ACTIVE? -> :TRIGGER:LOGIC:SPIBUS:CS:
ACTIVE HIGH

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:SPIBus:CS:SOURce

Function Sets the chip select trace of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPIBus:CS:
SOURce {A<x>|B<x>|C<x>|D<x>}
:TRIGger:LOGic:SPIBus:CS:SOURce?
<x> = 0 to 7

Example :TRIGGER:LOGIC:SPIBUS:CS:SOURCE A0
:TRIGGER:LOGIC:SPIBUS:CS:
SOURCE? -> :TRIGGER:LOGIC:SPIBUS:CS:
SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:TRIGger:LOGic:SPIBus:DATA<x>?

Function Queries all settings related to the data of the logic SPI bus trigger.

Syntax :TRIGger:LOGic:SPIBus:DATA<x>?
<x> = 1 or 2

Example :TRIGGER:LOGIC:SPIBUS:
DATA1? -> :TRIGGER:LOGIC:SPIBUS:DATA1:
BYTE 1;CONDITION FALSE;DPOSITION 1;
PATTERN1 " 10101011";
PATTERN2 " XXXXXXXX";
PATTERN3 " XXXXXXXX";
PATTERN4 " XXXXXXXX";SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:SPIBus:DATA<x>:BYTE

Function Sets the number of bytes of the data of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPIBus:DATA<x>:
BYTE {<Nrf>}
:TRIGger:LOGic:SPIBus:DATA<x>:BYTE?
<x> = 1 or 2
<Nrf> = 1 to 4

Example :TRIGGER:LOGIC:SPIBUS:DATA1:BYTE 1
:TRIGGER:LOGIC:SPIBUS:DATA1:
BYTE? -> :TRIGGER:LOGIC:SPIBUS:DATA1:
BYTE 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:SPIBus:DATA<x>:CONDITION

Function Sets the determination method (match or not match) of the data of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPIBus:DATA<x>:
CONDition {FALSE|TRUE}
:TRIGger:LOGic:SPIBus:DATA<x>:
CONDition?
<x> = 1 or 2

Example :TRIGGER:LOGIC:SPIBUS:DATA1:
CONDITION FALSE
:TRIGGER:LOGIC:SPIBUS:DATA1:
CONDITION? -> :TRIGGER:LOGIC:SPIBUS:
DATA1:CONDITION FALSE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:SPIBus:DATA<x>:DPOSITION

Function Sets the pattern comparison start position of the data of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPIBus:DATA<x>:
DPOSITION {<Nrf>}
:TRIGger:LOGic:SPIBus:DATA<x>:
DPOSITION?
<x> = 1 or 2
<Nrf> = 0 to 9999

Example :TRIGGER:LOGIC:SPIBUS:DATA1:DPOSITION 1
:TRIGGER:LOGIC:SPIBUS:DATA1:
DPOSITION? -> :TRIGGER:LOGIC:SPIBUS:
DATA1:DPOSITION 1

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

7.6 TRIGger Group

:TRIGger:LOGic:SPIBus:DATA<x>:HEXA<x>

Function Sets the data of the logic SPI bus trigger in hexadecimal notation.

Syntax :TRIGger:LOGic:SPIBus:DATA<x>:HEXA<x>
{<String>}
<x> of DATA<x> = 1 or 2
<x> of HEXA<x> = 1 to 4
<String> = 2 characters by combining '0' to 'F' and 'X'

Example :TRIGGER:LOGIC:SPIBUS:DATA1:HEXA1 " AB"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:SPIBus:DATA<x>:PATTERn<x>

Function Sets the data of the logic SPI bus trigger in binary notation or queries the current setting.

Syntax :TRIGger:LOGic:SPIBus:DATA<x>:
PATTERn<x> {<String>}
:TRIGger:LOGic:SPIBus:DATA<x>:
PATTERn<x>?
<x> of DATA<x> = 1 or 2
<x> of PATTERn<x> = 1 to 4
<String> = 8 characters by combining '0' to '1' and 'X'

Example :TRIGGER:LOGIC:SPIBUS:DATA1:
PATTERN1 " 10101011"
:TRIGGER:LOGIC:SPIBUS:DATA1:
PATTERN1? -> :TRIGGER:LOGIC:SPIBUS:
DATA1:PATTERN1 " 10101011"

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:SPIBus:DATA<x>:SOURCE

Function Sets the trace of the data of the logic SPI bus trigger or queries the current setting.

Syntax :TRIGger:LOGic:SPIBus:DATA<x>:
SOURCE {A<y>|B<y>|C<y>|D<y>}
:TRIGger:LOGic:SPIBus:DATA<x>:SOURCE?
<x> = 1 or 2
<y> = 0 to 7

Example :TRIGGER:LOGIC:SPIBUS:DATA1:SOURCE A0
:TRIGGER:LOGIC:SPIBUS:DATA1:
SOURCE? -> :TRIGGER:LOGIC:SPIBUS:DATA1:
SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.
{A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:TRIGger:LOGic:SPIBus:MODE

Function Sets the wiring system of the logic SPI bus trigger (three-wire or four-wire) or queries the current setting.

Syntax :TRIGger:LOGic:SPIBus:MODE {WIRE3|
WIRE4}
:TRIGger:LOGic:SPIBus:MODE?

Example :TRIGGER:LOGIC:SPIBUS:MODE WIRE3
:TRIGGER:LOGIC:SPIBUS:
MODE? -> :TRIGGER:LOGIC:SPIBUS:
MODE WIRE3

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:UART?

Function Queries all settings related to the logic UART bus signal trigger.

Syntax :TRIGger:LOGic:UART?
Example :TRIGGER:LOGIC:UART? -> :TRIGGER:
LOGIC:UART:BRATE 19200;DATA:
BITORDER LSBFIRST;DSIZE 1;
PATTERN "X1011111";:TRIGGER:
LOGIC:UART:ERROR:FRAMING 1;
PARITY 1;PMODE EVEN;:TRIGGER:LOGIC:
UART:FORMAT BIT7PARITY;MODE DATA;
POLARITY NEGATIVE;SOURCE A0;
SPOINT 18.8E+00

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:UART:BRATE

Function Sets the logic UART bus signal trigger bit rate (data transfer rate) or queries the current setting.

Syntax :TRIGger:LOGic:UART:
BRATE {<Nrf>|USER, <Nrf>}
:TRIGger:LOGic:UART:BRATE?
<Nrf> = 1200, 2400, 4800, 9600, 19200, 38400,
57600, 115200
<Nrf> of USER = See section 3.5.

Example :TRIGGER:LOGIC:UART:BRATE 19200
:TRIGGER:LOGIC:UART:BRATE? -> :TRIGGER:
LOGIC:UART:BRATE 19200

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:UART:FORMat

Function Sets the logic UART bus signal trigger format or queries the current setting.

Syntax :TRIGger:LOGic:UART:FORMat {BIT7parity|
BIT8Noparity|BIT8Parity}
:TRIGger:LOGic:UART:FORMat?

Example :TRIGGER:LOGIC:UART:FORMAT BIT7PARITY
:TRIGGER:LOGIC:UART:FORMAT? ->
:TRIGGER:LOGIC:UART:FORMAT BIT7PARITY

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:UART:POLarity

Function Sets the logic UART bus signal trigger polarity or queries the current setting.

Syntax :TRIGger:LOGic:UART:POLarity
{NEGative|POSitive}
:TRIGger:LOGic:UART:POLarity?

Example :TRIGGER:LOGIC:UART:POLARITY NEGATIVE
:TRIGGER:LOGIC:UART:POLARITY? ->
:TRIGGER:LOGIC:UART:POLARITY NEGATIVE

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:LOGic:UART:SOURce

Function Sets the logic UART bus signal trigger source or queries the current setting.

Syntax :TRIGger:LOGic:UART:SOURce {A<x>}
:TRIGger:LOGic:UART:SOURce?
<x> = 0 to 7

Example :TRIGGER:LOGIC:UART:SOURCE A0
:TRIGGER:LOGIC:UART:SOURCE?
-> :TRIGGER:LOGIC:UART:SOURCE A0

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L. {A<y>|B<y>|C<y>|D<y>} can be applied to the DL9705L and DL9710L. {A<y>|C<y>} can be applied to the DL9505L and DL9510L.

:TRIGger:LOGic:UART:SPOint

Function Sets the logic UART bus signal trigger sample point or queries the current setting.

Syntax :TRIGger:LOGic:UART:SPOint {<NRf>}
:TRIGger:LOGic:UART:SPOint?
<NRf> = 18.8 to 90.6(%)

Example :TRIGGER:LOGIC:UART:SPOINT 18.8
:TRIGGER:LOGIC:UART:SPOINT? ->
:TRIGGER:LOGIC:UART:SPOINT 18.8E+00

Description This command can be applied to the DL9505L, DL9510L, DL9705L, and DL9710L.

:TRIGger:SOURce:CHANnel<x>:LEVel

Function Sets the trigger level of the channel or queries the current setting.

Syntax :TRIGger:SOURce:CHANnel<x>:
LEVel {<Voltage>|<Current>}
:TRIGger:SOURce:CHANnel<x>:LEVel?
<x> = 1 to 4
<Voltage> and <Current> = See sections 3.1 or 3.4.

Example :TRIGGER:SOURCE:CHANNEL1:LEVEL 1V
:TRIGGER:SOURCE:CHANNEL1:LEVEL?
-> :TRIGGER:SOURCE:CHANNEL1:
LEVEL 1.000E+00

Description This command applies to the channel corresponding to the source specified by the following commands.

- :TRIGger:ENHanced:I2Cbus:CLOCK:SOURce
- :TRIGger:ENHanced:I2Cbus:DATA:SOURce
- :TRIGger:ENHanced:SPIbus:CLOCK:SOURce
- :TRIGger:ENHanced:SPIbus:CS:SOURce
- :TRIGger:ENHanced:SPIbus:DATA[1-2]:SOURce

:TRIGger:SOURce:CHANnel<x>:STATe

Function Sets the condition to be satisfied of the channel or queries the current setting.

Syntax :TRIGger:SOURce:CHANnel<x>:
STATe {DONTcare|HIGH|LOW}
:TRIGger:SOURce:CHANnel<x>:STATe?
<x> = 1 to 4

Example :TRIGGER:SOURCE:CHANNEL1:STATE HIGH
:TRIGGER:SOURCE:CHANNEL1:STATE?
-> :TRIGGER:SOURCE:CHANNEL1:STATE HIGH

Description • This command is valid when :TRIGger:TYPE I2Cbus.

:TRIGger:TYPE

Function Sets the trigger type or queries the current setting.

Syntax :TRIGger:TYPE {CANbus|EDGE|EICYcle|
EIDelay|EISequence|EOR|EQualify|
I2Cbus|LEDge|LINbus|LI2Cbus|
LLINbus|LSPAttern|LSPiBus|LPStAtte|
LPULse|LQQualify|LStAtte|LUARt|
PQQualify|PStAtte|PULSe|SPAttern|
SPIbus|STATe|TV|UART}
:TRIGger:TYPE?

Example :TRIGGER:TYPE CANBUS
:TRIGGER:TYPE?
-> :TRIGGER:TYPE CANBUS

Description {LEDge|LI2Cbus|LLINbus|LSPAttern|LSPiBus|LPStAtte|LPULse|LQQualify|LStAtte|LUARt} can be applied to DL9505L, DL9510L, DL9705L, and DL9710L.

8.1 I²C Bus Signal Analysis

Item	Specifications
Bus transfer rate	Up to 3.4 Mbit/s
Address mode	7 bits or 10 bits
Triggering	
Trigger source	On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4. On the DL9500/DL9700 Series, select the source from CH1 to CH4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
Mode	<p>Every Start: Triggers on a start condition</p> <p>ADR&DATA: Triggers by comparing with the specified address or data</p> <p>Address type</p> <ul style="list-style-type: none"> • 7-bit address • 7-bit + sub address • 10-bit address <p>NON ACK: Triggers on a Nack bit</p> <p>General Call: Triggers by comparing with the second byte pattern of the general call address</p> <p>Start Byte/HS Mode: Triggers on a start byte or an HS mode master address</p>
Analysis	
Signal	On the DL9040/DL9140/DL9240 Series, select the signal from CH1 to CH4 or from M1 to M4. On the DL9500/DL9700 Series, select the signal from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
Analyzable data bytes	Up to 40000 bytes (20000 bytes before and after the analysis reference point)
Analysis result display	<p>Simple display</p> <p>Analysis number (No.), start condition/stop condition (S/P), hexadecimal data display, address/data (form), read/write signal (R/W), acknowledge bit</p> <p>Detail display</p> <p>Analysis number (No.), start condition/stop condition (S/P), time from the trigger position (ms), binary data display, hexadecimal data display, address/data (form), read/write signal (R/W), acknowledge bit, data info</p>
Zoom link	Zoom position (the center of the zoom box) movable to the highlighted byte in the analysis result list. Changing the zoom position also changes the highlighted frame in the analysis result list.
Item	
Data storage of the analysis result list	Saves the simple or detail display data of the analysis result list in CSV format (.csv extension).
Data search	Searches waveforms for specified address pattern, data pattern, or acknowledge bit state. When a waveform that meets the conditions is found, the zoom box moves to that point, and the SB5000 displays the specified waveform in the zoom waveform area.

8.2 CAN Bus Signal Analysis

Item	Specifications
Version	CAN Version 2.0B
Bit rate	Settable to 1 M, 500 k, 250 k, 125 k, 83.3 k, 33.3 kbps or to any bit rate from 10 k to 1 Mbps in 0.1-kbps steps. Supports High-speed CAN (ISO11898) and Low-speed CAN (ISO11519-2).
Triggering	
Trigger source	Selectable from CH1 to CH4.
Mode	<p>SOF: Triggers on SOF (Start of Frame)</p> <p>Error Frame: Triggers on an error frame</p> <p>ID Std/Data: Triggers on a data frame or remote frame (ID: standard format)</p> <p>ID Ext/Data: Triggers on a data frame or remote frame (ID: extended format)</p> <p>ID/Data OR: Triggers on the OR logic of four data frame and remote frame types Standard or extended format selectable for each ID</p>
Analysis	
Signal	Select from CH1 to CH4 or from M1 to M4.
Analyzable frames	Up to 3000 frames (1500 frames before and after the analysis reference point)
Analyzed frames	Data frame, remote frame, error frame, and overload frame
Analysis result display	<p>Simple display</p> <p>Analysis number (No.), frame type, hexadecimal ID display, hexadecimal data display, ACK slot state</p> <p>Detail display</p> <p>Analysis number (No.), frame type, time from the trigger position (ms), hexadecimal ID display, hexadecimal DLC display, binary data display, hexadecimal data display, hexadecimal CRC sequence display, ACK slot state</p>
Zoom link	<p>Zoom link</p> <p>Zoom position (the center of the zoom box) movable to the start of the highlighted frame in the analysis result list. Changing the zoom position also changes the highlighted frame in the analysis result list.</p> <p>Field jump</p> <p>When zoom link is enabled, the zoom position can be moved to the start of the specified field of the highlighted frame in the analysis result list. Selectable fields are SOF, ID, control field, data field, CRC, and ACK.</p>
Data storage of the analysis result list	Saves the simple or detail display data of the analysis result list in CSV format (.csv extension).
Data search	Searches waveforms for specified field or frame conditions. When a waveform that meets the conditions is found, the zoom box moves to that point, and the SB5000 displays the specified waveform in the zoom waveform area.
Stuff bit computation	Extracts stuff bits from the CAN bus signal waveform and displays them as a MATH waveform (from MATH1 to MATH4). Supports bit stuffing. Decoded display available.

8.3 LIN Bus Signal Analysis

Item	Specifications
Revision	LIN 1.3 or LIN 2.0
Bit rate	Settable to 1200 bps, 2400 bps, 4800 bps, 9600 bps, 19200 bps or to any bit rate from 1 k to 20 kbps in 10-bps steps.
Triggering	
Trigger source	On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4. On the DL9500/DL9700 Series, select the source from CH1 to CH4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
Mode	Break: Triggers on the break delimiter
Analysis	
Signal	On the DL9040/DL9140/DL9240 Series, select the signal from CH1 to CH4 or from M1 to M4. On the DL9500/DL9700 Series, select the signal from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
Analyzable frames	Up to 3000 frames (1500 frames before and after the analysis reference point)
Analyzed fields	Break, Synch, ID, Data, Checksum
Analyzable revisions	LIN 2.0, LIN 1.3, or Both
Analysis result display	Simple display Analysis number (No.), hexadecimal ID display, hexadecimal data display, hexadecimal checksum display Detail display Analysis number (No.), time from the trigger position (ms), hexadecimal ID display, hexadecimal ID-Field display, binary data display, hexadecimal data display, hexadecimal checksum display, additional information
Zoom link	Zoom link Zoom position (the center of the zoom box) movable to the start of the highlighted frame in the analysis result list. Changing the zoom position also changes the highlighted frame in the analysis result list. Field jump When zoom link is enabled, the zoom position can be moved to the start of the specified field of the highlighted frame in the analysis result list. Selectable fields are break, synch, ID, data, and checksum.
Data storage of the analysis result list	Saves the simple or detail display data of the analysis result list in CSV format (.csv extension).
Data search	Searches waveforms for specified field or frame conditions. When a waveform that meets the conditions is found, the zoom box moves to that point, and the SB5000 displays the specified waveform in the zoom waveform area.

8.4 SPI Bus Signal Analysis

Item	Specifications
Triggering	
Trigger source	On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4. On the DL9500/DL9700 Series, select the source from CH1 to CH4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
Mode	Three-wire or four-wire Triggers by comparing the data the specified number of bytes after the CS assertion. Data length to be compared is selectable from 1 to 4 bytes.
Analysis	
Signal	On the DL9040/DL9140/DL9240 Series, select the signal from CH1 to CH4 or from M1 to M4. On the DL9500/DL9700 Series, select the signal from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
Analyzable data bytes	Up to 40000 bytes (20000 bytes before and after the analysis reference point)
Analyzed frames	Data
Analysis result display	Simple display Analysis number (No.), hexadecimal data 1 display, hexadecimal data 2 display, CS status Detail display Analysis number (No.), time from the trigger position to the start bit of each data byte (ms), binary data 1 display, hexadecimal data 1 display, binary data 2 display, hexadecimal data 2 display, CS status, start position/stop position of the active period (S/P)
Zoom link	Zoom position (the center of the zoom box) movable to the highlighted byte in the analysis result list. Changing the zoom position also changes the highlighted frame in the analysis result list.
Data storage of the analysis result list	Saves the simple or detail display data of the analysis result list in CSV format (.csv extension).
Data search	Searches waveforms for the specified data pattern. When a waveform that meets the pattern is found, the zoom box moves to that point, and the SB5000 displays the specified waveform in the zoom waveform area.

8.5 UART Signal Analysis

Item	Specifications
Bit rate	Settable to 1200 bps, 2400 bps, 4800 bps, 9600 bps, 19200 bps, 38400 bps, 57600 bps, 115200 bps or to any bit rate from 1 k to 200 kbps in 100-bps steps.
Data format	8-bit data (no parity bit) 7-bit data + parity bit (selectable only for error trigger) 8-bit data + parity bit (selectable only for error trigger)
Triggering	
Trigger source	On the DL9040/DL9140/DL9240 Series, select the source from CH1 to CH4. On the DL9500/DL9700 Series, select the source from CH1 to CH4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
Mode	Every Data: Triggers on the stop bit of all data frames.
Analysis	
Signal	On the DL9040/DL9140/DL9240 Series, select the signal from CH1 to CH4 or from M1 to M4. On the DL9500/DL9700 Series, select the signal from CH1 to CH4, from M1 to M4, from A0 to A7, from B0 to B7, from C0 to C7, or from D0 to D7 (from CH1 to CH4, from M1 to M4, from A0 to A7, or from C0 to C7 on the DL9505L/DL9510L).
Analyzable frames	Up to 3000 bytes (1500 bytes before and after the analysis reference point)
Analyzed fields	Data, additional information (parity error and framing error)
Analysis result display	Simple display Analysis number (No.) and hexadecimal data display ¹ Detail display Analysis number (No.), time from the trigger position (ms), binary data display ¹ , hexadecimal data display ¹ , additional information Display Mode ASCII display of hexadecimal values, grouping of data
Zoom link	Zoom position (the center of the zoom box) movable to the start of the highlighted frame in the analysis result list. Changing the zoom position also changes the highlighted frame in the analysis result list.
Data storage of the analysis result list	Saves the simple or detail display data of the analysis result list in CSV format (.csv extension).
Data search	Searches waveforms for specified field or frame conditions. When a waveform that meets the conditions is found, the zoom box moves to that point, and the SB5000 displays the specified waveform in the zoom waveform area.

¹ If you set the display mode to ASCII, data is displayed using ASCII codes.

Index

A	Page
ACK	3-18
acknowledge bit	3-7
address	3-5
ADR & DATA mode	3-5
ANALYSIS Group	7-24
analysis reference point, CAN	4-16
analysis reference point, I2C	4-12
analysis reference point, LIN	4-19
analysis reference point, SPI	4-23
analysis reference point, UART	4-26
analysis results, CAN	4-6
analysis results, FlexRay	4-4
analysis results, I2C	4-4
analysis results, LIN	4-7
analysis results, saving	4-10
analysis results, SPI	4-8
analysis results, UART	4-9
analysis type	4-4
auto setup, serial bus	2-1

B	Page
big endian	3-17
bit order	3-25
bit rate, CAN	3-19
bit rate, LIN	3-22
bit rate, UART	3-28
byte order, CAN	3-17

C	Page
CAN bus	8-2
CAN bus signal searching	5-11
CAN trigger	3-16
checksum	5-24
chip select	3-26
common items	2-8
CS, SPI	3-26

D	Page
data, CAN	3-17
data, I2C	3-6
data frame	3-16, 3-20
Decode soft key	4-2
detail scroll mode	4-2
DLC	3-16
dominant level	3-19

E	Page
error frame	3-20
error frame mode	3-16
error message	6-1
Every Start mode	3-5

F	Page
field jump	4-10
format	3-28
found-point mark	5-3
found-point number	5-3
found point, CAN	5-17
found point, I2C	5-10
found point, LIN	5-25

found point, SPI	5-30
found point, UART	5-34
four-wire	3-25
frame type	3-16
framing, LIN	5-24

G	Page
general call address	3-7
General Call mode	3-7

H	Page
H/V soft key	5-1
high-speed CAN	1-3
high-speed mode	3-8
HS mode	3-8
hysteresis	3-9

I	Page
I2C bus	8-1
I2C bus signal analysis	4-11
I2C bus signal searching	5-4
I2C trigger	3-5
ID, CAN	3-16
ID/Data OR mode, CAN	3-18
ID Ext/Data mode	3-16
ID Std/Data mode	3-16

L	Page
LIN bus	8-3
LIN bus signal analysis	4-18
LIN bus signal searching	5-18
List Setup soft key	4-2
List soft key	4-2
little endian	3-17
low-speed CAN	1-3
LSB, CAN	3-18

M	Page
MATH	4-14
MATH Group	7-43
Math on History Exec soft key	4-15
message	6-1
MSB, CAN	3-18
MSB/LSB, CAN	3-18

N	Page
No Link	2-4
NON ACK mode	3-7
notations	iii

O	Page
Operation	4-14

P	Page
parity, LIN	5-24
Pattern#/Mark soft key	5-3
position, I2C	3-6

Index

R	Page
recessive level	3-19
remote frame	3-16, 3-20
revisions	ii
RTR	3-16

S	Page
sample point, CAN.....	3-19
SCL.....	3-9
Scroll Direction soft key.....	4-2
SDA	3-9
SEARch Group.....	7-44
search result.....	5-3
search start point.....	5-3
search type.....	5-3
Search Type soft key.....	5-1
second byte	3-7
SERialbus Group.....	7-79
serial clock.....	3-9, 4-12
serial data	3-9, 4-12
settings, sharing	2-7
Setup 1	2-1, 2-7
Setup 2	2-1, 2-7
sign	3-18
sign, CAN	3-18
simple scroll mode.....	4-2
size, I2C.....	3-6
size, SPI	3-25
SOF mode	3-16
SPI bus	8-4
SPI bus signal analysis.....	4-20
SPI bus signal searching.....	5-26
SPI trigger.....	3-25
start byte.....	3-8
Start Byte/HS mode.....	3-8
stuff bit	4-14
stuff bit computation	4-17
symbols	iii
synch, LIN.....	5-24

T	Page
three-wire.....	3-25
timeout, LIN	5-24
trademarks.....	ii
transfer rate, CAN.....	3-19
transfer rate, LIN.....	3-22
transfer rate, UART	3-28
trigger feature, linking to.....	2-6
TRIGger Group.....	7-85
trigger point, CAN.....	3-20
trigger point, SPI.....	3-26

U	Page
UART	8-5
UART signal analysis	4-24
UART signal searching.....	5-31
UART trigger.....	3-28

W	Page
wiring system.....	3-25

Z	Page
zoom link	4-10
Zoom Link soft key	4-3