MONITOUCH

Technical Information

May 22, 2013

Theme	**Quick guide for "Error Code received" (Mitsubishi PLC, Fuji PLC)**		
Model	V8, V7, V6, TELLUS3, TELLUS	No. TI-M-0062	1/8

1. Purpose

"Communication Error: Error Code received XXXX" displayed on the V series is an error (NAK) code sent by the PLC (connected device).　This technical information describes the cause and measure of the common error codes.

Example: Connecting V8 series and Mitsubishi Q03UD

Command

Error (NAK)
Code: 40 31

PLC: Q03UD

Comm. Error Handling: Stop

Communication Error
PLC1 Error Code received

　Screen No.: 0
　Received Code: 40 31

RETRY

Comm. Error Handling: Continue

PLC1 Communication Error
Received Code: 40 31
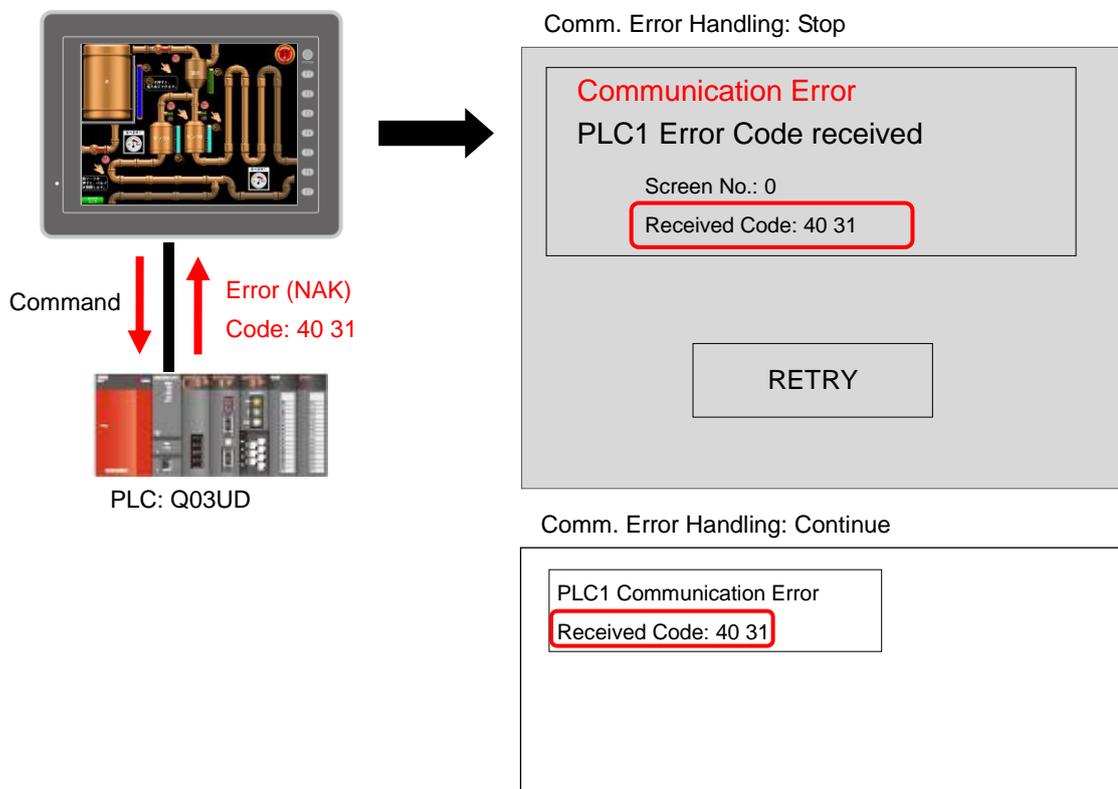
It can be easier to identify the cause by judging from when the error occurs as follows.

- After the screen is displayed for an instant
    - → The PLC memory specified on the screen may be the cause of the error.
- Right after the V series switched to RUN mode
    - → The PLC memory used in any of the settings below may be the cause of the error:
    - ♦ Read/Write Area
    - ♦ Buffering Area
    - ♦ Macro Setting (Initial Macro, Event Timer Macro)
- Occasionally
    - → It might be the noise or hardware issue.

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Contents

2. MITSUBISHI ELECTRIC

2-1. QnU/QnH Series Serial Connection

Error Code Table

Code	Error	Description	Measure
4006	Common Error	Initial communication failed.	**V series** • Check if the PLC series is selected correctly on V-SFT. Example: You want to connect Q00UJCPU, but "Q00J/00/01 CPU" is currently selected on V-SFT. -> Change the PLC series as "QnU series CPU". **PLC** • Check if the CPU unit type is selected correctly on PLC software. • If serial communication function is set on PLC software, disable the setting. • Disable GOT Transparent Function. * It is required to power off and on the PLC after transferring data.
4030	CPU device specified error	The specified device name cannot be handled.	**V series** Check and correct if any address exceeding the PLC memory range is specified on the screen program.
4031		The specified device No. is outside the range.	
4032		There is a mistake in the specified device qualification. The unusable device name (TS, TC, SS, SC, CS, CC) must be specified in: - Random reading/writing (word) - Monitor registration - Monitor command	
7167	Cannot execute a command during RUN	A write command was designated when "Disable write during RUN" was set.	**PLC** [PC parameter] > [I/O assignment] > [Switch setting] check the "Enable online change". * It is required to power off and on the PLC after transferring data.

716C	System error	The OS of the QJ71C24x detected some error.	**PLC (Only when using QnUDE (Built-in LAN port))**
			• If using an old version of QJ71C24x:
			  Replace the unit by another one with Serial No: 10042, Function: Ver. B or later.
			• Check if QJ71C24x, power supply module and CPU module are mounted to base unit correctly.
			• Check if QJ71C24x is used in the environment which meets General specifications of CPU module.
			• Check if the power capacity is enough.
			• Refer to the manuals of each unit and see if there is any hardware problem on QJ71C24x, CPU module or base unit is normal.
			  * It is required to power off and on the PLC after transferring data.

7E47	Continuous request error	The next request was received before a response message was returned for the preceding request.	**V series** • Set [Time-out Time] longer. • Set [Send Delay Time] longer. **PLC** Match the monitoring time of timer 1 with [Time-out Time] of V series. * It is required to power off and on the PLC after transferring data.
7F01	Buffer full error	The next data was received before processing of the previous data was completed. Multiple requests was simultaneously issued for one channel.	**V series** Set [Time-out Time] longer.

* For more details and other error codes, refer to the manuals of MITSUBISHI ELECTRIC.
"QCPU User's Manual (Hardware Design, Maintenance and Inspection)"
"Q Corresponding Serial Communication Module User's Manual (Basic)"

2-2. QnU/QnH Series Ethernet Connection

Error Code Table

Code	Description	Measure
4031 0000	The specified device No. is out of range.	**V series** Check and correct if any address exceeding the PLC memory range is specified on the screen program.
0055 0000	Although online change is disabled, the connected device requested the RUN-state CPU module for data writing.	**PLC** From [Network parameter] > [Operational settings] or [PC parameter] > [Built-in Ethernet port], check "Enable Write at RUN time". * It is required to power off and on the PLC after transferring data.

C056 0000	The read or write request exceeds the maximum address. The address is set as 0.	**V series** Check and correct if any address exceeding the PLC memory range is specified on the screen program.
		PLC Correct the initial address or the number of read/write points as it does not exceed the maximum address, and send to the Ethernet unit again. * It is required to power off and on the PLC after transferring data.
C059 0000	The command and/or subcommand are specified incorrectly.	**V series** This error occurs when "QnH(Q) series (Ethernet)" is selected to connect to the built-in LAN port of QnUCPU. • Uncheck [Batch Readout of Multiple Blocks] option, and check [Random Readout]. • Select "QnU series (Built-in Ethernet)" instead.
C05E 0000	The communication time between the Ethernet module and the programmable controller CPU exceeded the CPU monitoring timer value.	**PLC** Set [CPU monitoring timer] longer. Check if the CPU is operating properly. * It is required to power off and on the PLC after transferring data.
C070 0000	The device memory extension cannot be specified for the target station.	**V series** Check and correct if any address exceeding the PLC memory range is specified on the screen program.

* For more details and other error codes, refer to the manuals of MITSUBISHI ELECTRIC.

"QnUCPU User's Manual (Communication via Built-in Ethernet Port)"

"Q Corresponding Ethernet Interface Module User's Manual (Basic)"

2-3. FX Series Serial Connection

Error Code Table

Code	Error	Description	Measure
06	Character area error	Designated device number does not exist in CPU.	**V series** Check and correct if any address exceeding the PLC memory range is specified on the screen program.

* For more details and other error codes, refer to the manuals of MITSUBISHI ELECTRIC.

"FX User's Manual"

2-4. FX3U ENET-L Ethernet Connection

Error Code Table

Code	Description	Measure
50 0000	Codes for command/response type of sub-header are not within the specifications.	**PLC** Make PLC settings on [Ethernet open settings] > [Connection No. 3 or No.4]. No.3, 4: MC protocol (No.1, 2: Fixed buffer) * It is required to power off and on the PLC after transferring data.

* For more details and other error codes, refer to the manuals of MITSUBISHI ELECTRIC.

"FX3U-ENET-L User's Manual"

2-5. CC-LINK Connection

Error Code Table

Code	Error	Description	Measure
0000	-	Station number setting is not correct.	**V series** • V8 series: [Device Connection Setting] > [Communication Setting] > [Target Port No.] set as [0]. • V7/V6 series: [PLC Communication] > [Communication Parameter] > [Detail] > [Target Port No. Monitoring] set as [0].
B404	Response error	A response is not received from the request destination station within the monitoring time.	**PLC** • Set [monitoring timer] longer. • Take noise measurement. * It is required to power off and on the PLC after transferring data.
B608	Mode setting error	Transient transmission was performed to CPU in the I/O mode.	**PLC** Power off the PLC and set the condition setting switch 8 to OFF (Intelligent mode).
B807	Device number error	The start device number is outside the range. Or the address was not multiples of 16 when the bit device was accessed.	**V series** Check and correct if any address exceeding the PLC memory range is specified on the screen program.

* **For more details and other error codes, refer to the manuals of MITSUBISHI ELECTRIC.**
   "CC-Link System Master/Local Module User's Manual"

2-6. A Series Link Serial Connection

Error Code table

Code	Error	Description	Measure
06	Character area error	Designated device number does not exist in CPU.	**V series** Check and correct if any address exceeding the PLC memory range is specified on the screen program.

* **For more details and other error codes, refer to the manuals of MITSUBISHI ELECTRIC.**
   "Computer Link/Multidrop Link Module (Com. link func./Print. func.) User's Manual"

3. Fuji Electric

3-1. MICREX-SX Serial Connection

Error Code Table

Code	Description	Measure
22	Parameter error	Take noise measurement.
44	Specified address exceeds the valid range.	**V series**
45		Check and correct if any address exceeding the PLC memory range is specified on the screen program.
A0	No module exists at the specified destination CPU No.	**V series** • Check the PLC memory (CPU No.) which is specified on the screen program. • To use X/Y (input/output memory), it is necessary to import the INI file exported from SX project file.

    * For more details and other error codes, refer to the manuals of Fuji Electric.

3-2. MICREX-SX Ethernet Connection

Error Code Table

Code	Description	Measure
44	Specified address exceeds the valid range.	**V series**
45		Check and correct if any address exceeding the PLC memory range is specified on the screen program.
A0	No module exists at the specified destination CPU No.	**V series** • Check the PLC memory (CPU No.) which is specified on the screen program. • To use X/Y (input/output memory), it is necessary to import the INI file exported from SX project file.

    * For more details and other error codes, refer to the manuals of Fuji Electric.

3-3. MICREX-SX SX BUS Connection

Error Code Table

Code	Description	Measure
22	Parameter error	Take noise measurement.
28	Requested command from V series cannot be executed because other command from PLC loader is now being executed. (Transferring program etc.)	Restart communication after PLC loader processing is completed.
44	Specified address exceeds the valid range.	**V series**
45		Check and correct if any address exceeding the PLC memory range is specified on the screen program.
A0	No module exists at the specified destination CPU No.	**V series** • Check the PLC memory (CPU No.) which is specified on the screen program. • To use X/Y (input/output memory), it is necessary to import the INI file exported from SX project file.

    * For more details and other error codes, refer to the manuals of Fuji Electric.

3-4. MICREX-SX T-Link Connection

Error Code Table

Code	Description	Measure
A0	No module exists at the specified destination CPU No.	**V series** • Check the PLC memory (CPU No.) which is specified on the screen program. • To use X/Y (input/output memory), it is necessary to import the INI file exported from SX project file.

* **For more details and other error codes, refer to the manuals of Fuji Electric.**

3-5. MICREX-F T-Link Connection

Error Code Table

Code	Description	Measure
32	There is no corresponding memory in the PLC.	**V series** Check the PLC memory (BD, WM etc.) which is specified on the screen program and correct the setting if they exceed the range.
36	There are not enough registered monitoring points.	**PLC** Correct the number of registered monitoring points to be within each CPU's limitation on the number per set. * It is required to power off and on the PLC after transferring data.

* **For more details and other error codes, refer to the manuals of Fuji Electric.**