

Allen-Bradley

Bulletin 1201 Graphic Programming Terminal

Version 3.xx

User Manual

Introduction	1-1
Chapter Objectives	1-1
GPT Description	1-1
Four different interface boxes (Figure 1.2) appear on the GPT display	1.0
to provide you with pertinent information. These boxes include:	1-2
Kevnad Description	1-2
Key Descriptions	1-4
Optional Run Time Keys	1-6
GPT Operation	1–6
Parameter Option	2-1
General	 0 1
Accessing the Linear Parameter Mode	2-1
Accessing a Parameter in the Linear Mode	2-2
Changing a Parameter Value	2-4
Saving Parameter Values	2-5
Accessing the FGE Mode	2-6
File Selection	2-6
Group Selection	2-8
Element Selection	2-8
Changing Value Base	2-9
Exiting the FGE Mode	2-10
Returning to the Linear Mode	2-10
Fault & Warning Queues	3-1
Introduction	3-1
Accessing the Fault Queue	3-1
Clearing Faults	3-2
Accessing the Warning Queue	3–4
Clearing Warnings	3–5
This Page Intentionally Blank	3–6
EE/BRAM Functions	4-1
General	4-1
Accessing the EE/BRAM Function	4-1
Saving Parameters to EE	4-2
Recalling EE Parameters	4-2
Saving Factory Defaults to RAM	4-3
This Page Intentionally Blank	4–4

Link Summary	5-1
General	5-1
Accessing the Link Summary	5–1
Searching for Linked Parameters	5-2
Changing or Adding Parameter Links	5-3
Saving Parameter Links	5-4
Clearing All Links in the System:	5-4
Changing or Adding Function Block Links	5-7
Clock Data	6-1
General	6-1
Accessing the Clock Data Function	<u>6-1</u>
Setting the Clock	6-2
Setting the Reference	6-3
Loading the Reference	6-4
Zeroing the RT Accumulator	6-4
Process Display	7-1
General	7-1
Accessing the Process Display	7-1
Accessing the Drive Status Mode	7-2
Accessing the Metering Mode	7–3
Accessing the Configuration Mode	7-4
Disabling a Process Display Variable	7-4
Recalling a Process Display Variable	7–5
Programming a Configurable Variable	7–5
This Page Intentionally Blank	7–8
Special Menu	8-1
General	8-1
Accessing the Special Menu Function	8-1
Changing & Entering a Password	8-2
Inspecting Version Information	8-4
Changing Drive Identity	8-5
Changing Drive Identity in Hex	8-7
Accessing the Data Transfer Function	8-8
Uploading	8-8
Downloading	8-9

Chapter Objectives

GPT Description

Introduction

Chapter 1 describes the various controls and indicators found on the optional Graphics Programming Terminal (1201 GPT). The GPT is an enhanced control that provides a means of programming, viewing operating parameters, on-line troubleshooting and analyzing of all SCANbusTM products.

When an optional GPT (Figure 1.1) is supplied, it will be either mounted to the front of a Drive as a panel mount terminal or supplied as a remote device with a 1.8 meter (6 foot) long cable. The GPT offers a 40 by 8 character display that can also be used as a graphics display to show bartype graphs, etc.

Figure 1.1 1201 Graphics Programming Terminal



NOTE: This manual shows examples based on a 1336 FORCETM Drive using a PLC Comm Adapter Board. On other SCANbus products or 1336T drives equipped with other adapter boards, some options may not be active or displays may vary slightly from the examples shown here.

1336 FORCE and SCANbus are trademarks of Allen–Bradley Company, Inc

Display FeaturesFour different interface boxes (Figure 1.2) appear on the GPT display to
provide you with pertinent information. These boxes include:Help Box:This box provides help information related to the function being
currently displayed. The Help Box will provide you with information on
what can be accessed or programmed using this specific menu function.Info Box:This box provides you with information about the data currently
on the screen. This information typically includes minimum or maximum
values, operation modes, and data references. If the data being displayed is a
parameter value, the Info Box will provide the min, max, linear number and
base type (Engr, Hex, Octal, Signed/Unsigned Decimal) of the data.Status Bar:This box provides you with status information about processes
or provide the provide you with status information about processes

status Bar: This box provides you with status information about processes within the Drive or Terminal. Information such as the present Drive condition (speed, mode, state) or Processing Status (such as percent of uploading or downloading completed) are typical displays.

Fault Annunciation Box: When a fault occurs, this box will supply you information such as the fault code and fault text string. This box will be annunciated on the screen for three seconds or until you acknowledge the condition by pressing the ESCape key.

Figure 1.2 Display Screen Components



Fault/Warning Annunciation Text String ~

Information Box: Under some conditions, when immediate USER interaction is required a fifth **Dialog or Fault Annunciation Box** (Figure 1.3) will appear. These boxes will appear on top of all other information when an immediate USER response to an error condition, command verification or data input is required.

Figure 1.3 Information Boxes

Dialog Box

Command Verification Data Entry Information Run Time Command Information **Fault Annunciation Box**

Error Annunciation Fault Annunciation

Cursor Types: In most cases carets (< >) are used to indicate selected functions and the data entry area. In some cases a \$ sign or # sign may be

used to indicate the selected letter or numeral in a text string.

Soft Key Designators : Four soft designators are located at the bottom of the Display screen (SWFunc1, SWFunc2, SWFunc3, SWFunc4). These soft designators (Figure 1.2) are tied to the F1 thru F4 keys on the Graphics Programming Terminal (Figure 1.4). Various selection options will appear on the screen at the F1 thru F4 positions. These options are typically answers to screen prompts, (Yes/No, Save/Don't Save, Load/Clear etc.).

Backlight: The GPT terminal provides a backlight option which can be used for better visibility in low light conditions. To activate the backlight

press the ALTernate key ALT and then the DELete key .

Contrast: The GPT terminal provides an adjustment for increased/decreased contrast ratio to compensate for temperature and visual angle consideration. To increase contrast press the ALTernate



Keypad Description

The GPT keyboard (Figure 1.4) is provided as either a 24 key version (non-runtime) or 28 key (runtime version). The runtime version as shown in Figure 1.4 provides additional Start, Stop, Jog and Direction keys.

Figure 1.4 GPT Keypad



Key Descriptions



The keys on the GPT keypad control the following functions:

ESCape

When pressed, this key will cause the current function to be aborted and will return you to the previous menu screen. In the case of a dialog box, only the dialog entry will be aborted.

ALTernate

When pressed, this key selects the secondary key functions for keys with ALTernate functions such as the Num/Preset keys. Alternate functions are always identified in (color) at the upper left of a key.



ALT

INC/DEC

These keys allow you to to increment or decrement a value, or scroll through different groups or parameters. When used in conjunction with the ALTernate key, the screen contrast can be adjusted up or down.



ENTer

When pressed, this key executes the selected function.



DELete

When pressed, this key deletes the last key stroke entry. This key is also used in conjunction with the ALTernate key to toggle the backlight.



NEXT

When pressed, this key allows field to field cursor movement.



PREVious

When pressed, this key allows reverse field movement.



Dec Pt/Preset 1

This key allows you to enter a decimal point or to select Preset 1 when used in conjunction with the ALTernate key. (ALT function on Runtime Version only).



Num 0/Preset 2

This key allows you to enter the number zero or to select Preset 2 when used in conjunction with the ALTernate key. (ALT function on Runtime Version only).



Sign/Preset 3

This key allows signed entry of data or it allows you to select Preset 3 when used in conjunction with the ALTernate key. (ALT function on Runtime Version only).



Num 1/Preset 4

This key allows you to enter the number 1 or to select Preset 4 when used in conjunction with the ALTernate key. (ALT function on Runtime Version only).



Num 2/Preset 5

This key allows you to enter the number 2 or to select Preset 5 when used in conjunction with the ALTernate key. (ALT function on Runtime Version only).



Numeric 3/Xref

This key allows you to enter the number 3 or to select XREF 1 when used in conjunction with the ALTernate key. (ALT function on Runtime Version only).

Numeric 4/A

This key allows you to enter the number 4 or to enter the letter A when used in conjunction with the ALTernate key.



F1

F2

F3

С



This key allows you to enter the number 5 or to enter the letter B when used in conjunction with the ALTernate key.

Numeric 6/C

This key allows you to enter the number 6 or to enter the letter C when used in conjunction with the ALTernate key.

Numeric 7/D

This key allows you to enter the number 7 or to enter the letter D when used in conjunction with the ALTernate key.

Numeric 8/E

This key allows you to enter the number 8 or to enter the letter E when used in conjunction with the ALTernate key.

Numeric 9/F

This key allows you to enter the number 9 or to enter the letter F when used in conjunction with the ALTernate key.

F1 SW Key

This key will change meaning for each screen, as it is programmable by the terminal firmware.

F2 SW Key

This key will change meaning for each screen, as it is programmable by the terminal firmware.



This key will change meaning for each screen, as it is programmable by the terminal firmware.

F4 SW Key

This key will change meaning for each screen, as it is programmable by the terminal firmware.



Optional Run Time Keys



START

The Start key will initiate drive operation if no other control devices are sending a Stop command.

STOP

If the drive is running, pressing the Stop key will cause the drive to stop, using the selected stop mode. Refer to the Drive user manual. If the drive has stopped due to a fault, pressing this key will clear the fault and reset the drive.



JOG

When pressed, jog will be initiated if no other control devices are sending a stop command. Releasing the key will cause the drive to stop, using the selected stop mode. Refer to the Drive user manual.



DIR

Pressing this key will cause the drive to ramp down to zero speed and then ramp up to set speed in the opposite direction. Refer to the Drive user manual.

GPT Operation

When power is first applied to the drive or device, a series of hardware diagnostic tests will run before the Power Up Logo Screen shown in Figure 1.5 appears. Once the initialization has been completed and all information from the drive is uploaded, the terminal will display either the Main Menu screen or the Process Display screen depending on the terminal setup information.

Figure 1.5 GPT Power Up Logo Screen



If it has not been deactivated through the terminal during setup, the Process Display Screen (Figure 1.6) showing you the programmed process variables will appear next. If the Process Display Screen is deactivated, the Main Menu Screen (Figure 1.7) will appear first.

In the case of a 1336 FORCE Drive equipped with a PLC Comm Adapter Board, eight menu options will be available as shown in Figure 1.7. When the Process Display Screen is active, it is necessary to press the Main Menu Option (F2 soft designator) on the Process Display to reach the Main Menu. The Main Menu contains the password option that provides a highlighted dialog box for password entry.

The Configuration option (F1 soft designator) allows you to directly access Process parameters from the Process Display screen. The Display Mode option (F3 soft designator) allows you to enter the Logo, Status or Meter modes for the Process Display parameters.



0.00 Freq (0.00 Vel FE 0.00 COMF 0.00 MTR 1 0.00 MTR 1 0.00 Torq F	CMD 3 9 PWR / FB FB FB	Sts: Not Enabled Dir: Forward Out:
Config	MainMenu	DSP_Mode

IMPORTANT: Main Menu screens are dynamic and will change based on functionality provided by adapter and drive status.





IMPORTANT: Only 5 of the 8 Main Menu options are displayed at one time on the screen. Scroll with the Inc/Dec keys to access all eight selections.

* Currently not implemented

Figure 1.8 details the complete menu tree for the GPT Programming Terminal. This menu is dynamic and all options may not be supported by your Drive or SCANbus device. If you need more detailed information on Key functions, Menu Screens or general Terminal operation refer to the appropriate chapter in this manual.

Figure 1.8 GPT Programming Options



[•] This list is dynamic and will change for various Drive States and Drive Product functions.

Currently not implemented.

Chapter 1 Introduction

CI	na	pt	er	1	
In	tro	dι	IC	io	n

>



Parameter Option

General

The Parameter Option provides you with access to the Drive parameter database. Any parameter can be directly accessed by number in the Linear Mode as shown in Figure 2.1, or any parameter can be viewed by File, Group or Element as shown in Figure 2.2. The Element option is accessed by pressing the Return key while the initial File/Group display is active.

Figure 2.1





Figure 2.2 (File/Group/Element Mode Initial Screen)



Accessing the Linear To access the Linear Parameter Mode from the Main Menu (Figure 2.3), Parameter Mode press the Increment **O**+ or Decrement **O** – key to move the cursor to selection #1 "Parameter". Figure 2.3 Main Menu Main Menu: Help : < 1 - Parameter > 2 – Link Summary 3 - Fault Queue 4 - Warning 5 – EEPROM Password ProcDspy Press the Enter Key , the terminal will go into either File/Group/Element or Linear Mode, depending on which mode was last used. The initial default on startup is the FGE mode. If the FGE Mode appears first, press the soft designator and the Linear F4 Parameter Mode will appear, showing the current parameter value, minimum and maximum values and any links that are present (Fig. 2.4). Figure 2.4 Linear Parameter Mode Linear: [40] = Par = Auto Tune Speed Value : 50.0 < Auto Tune T Limit > Min : 25.0 Not Used Max : 100.0 Not Used Link : None Param # Val Base FGE Mode **F1 F2** F3 F4

Chapter 2 Parameter Option

Accessing a Parameter in the Linear Mode

With the Linear Parameter Screen (Figure 2.5) displayed, perform the following steps:

- Step 1 Use the **O**+ key to scroll through the or parameter numbers; or
- Step 2 If you wish to enter a parameter number directly, press the



2.5 will appear.

Figure 2.5

Linear Direct Access Screen

= Par Auto Tune Spe			
Auto Tune I Lir	Enter Parar	meter : < >	
Not Used	Min : 1	Max 497	



parameter number within the cursors (Figure 2.6).

Figure 2.6

Parameter Number Entry



to enter your selected Linear Parameter number. The

information on your selected parameter (90 in this case) will appear as shown in Figure 2.7.



Press

without entering a parameter number (no digits), the

PRESET 2

display will return to the previous parameter. Toggling between 2 parameters is allowed (Present & Previous).

Figure 2.7

Linear Parameter Number Screen



Changing a Parameter Value

Move to the Value area of the screen by pressing the selection

Key. The cursor will move to the current value in RPM.

Figure 2.8

Linear Parameter Value Screen



IMPORTANT: In some cases you may find it is not possible to change the value of a parameter. In cases where a parameter is being used as a source or a link, you will be blocked from making any value changes.



IMPORTANT: If you are making more than one parameter change, it is not necessary to save every new parameter value at the time you make a value change. All parameter changes can be saved at one time using the EE/BRAM option detailed in Chapter 4.

Accessing the FGE Mode

In addition to accessing parameters one-by-one in the Linear Parameter mode, it is also possible to access parameters that have been grouped in special Files. The number of Files will vary depending on what type of Drive or Device you are using with the GPT, and how the Drive or Device is configured. For Example; a 1336 FORCE Drive equipped with a PLC Communication Adapter Board would have all parameters broken down into four files which include:

- 1. Startup File
- 2. Communication IO File
- 3. Velocity Torque File
- 4. Diagnostics File

If you are in the Linear Parameter Mode, press the **F4** soft

designator key to to reach the File/Group/Element Mode (Fig. 2-11).

Figure 2.11 File/Group/Element Initial Screen



four available File choices will appear as in Figure 2.12.

File Selection





Use the **O**+ or **O**- keys to place the cursors on your File choice and press the key.

In the example in Figure 2.13 you are in the Communication IO File and the Group options are available on the right hand side of the display.

Figure 2.13 Group Selection







Changing Value Base



Enter the number for the base value you wish to use and press



The screen will alter to show all element values in the selected base value. An indicator will appear to the right of the value to indicate the base selection (Fig. 2.17).

Figure 2.17 Base Value Selection





Group screen. The GPT will return to the Linear Mode and display the parameter that was last accessed before the FGE Mode was selected.



Chapter





The latest four (4) fault entries will be displayed. If one of the four entries caused the drive to trip, a TP designator will precede the fault text string.



designator for NO. Upon successful completion of the clear, the #1 entry in the Queue will display CLEAR FAULTS to indicate Faults have been cleared.

To clear the Fault & Warning QUEUE without leaving a visual record, press the **F2** soft designator. A verification request will appear

(Figure 3.4).

cleared.

Figure 3.4 Clear Fault Queue Verification Message

Clear Fault Queue Are you sure (Y/N) ? Press F1 soft designator for YES and F4 soft designator for NO. Upon successful completion of the clear, the #1 entry in the Queue will display CLEAR FAULTS to indicate the Queue has been

To reset the drive while in the Fault Queue, press the **F3**

designator. A verification message will appear as shown in Figure 3.5.

Figure 3.5 Reset Drive Verification Message

> Reset the Drive Are you sure (Y/N) ?

To return to the Main Menu, press the **ESC** key.

soft

Accessing the Warning Queue

From the Main Menu, use the $\bigcirc +$ or $\bigcirc -$ key to place the

cursor on Option 4, Warning Queue (Figure 3.6).

Figure 3.6 Main Menu Options



Clearing Warnings

To clear the Warning Queue while still leaving a visual record of the



verification request will appear (Figure 3.8).

Figure 3.8 Clear Warning Verification Message



This Page Intentionally Blank



EE/BRAM Functions





menu.

Chapter 4 EE/BRAM Functions

key.

F4

Saving Factory Defaults to RAM

To reset the parameter values to initial factory default values, choose option

four (4) in the EE/BRAM menu with the \mathbf{O} + \mathbf{O} or \mathbf{O} -



with the question in Figure 4.5.

Figure 4.5 Initial Parameters to RAM Verification



Press the

F1 soft designator for Yes or press the

soft designator (NO) to escape this function and return to the EE/BRAM menu. If you choose Escape, another verifcation screen will prompt you on saving parameters.

This Page Intentionally Blank

Chapter 5

Link Summary

• •	
General	This Main Menu option allows you to evaluate and change links in the system. The Sink parameter will always be displayed on the left side of the display and the Source parameter on the right. Each parameter will also display a File, Group and Element text string.
	There are four types of link options that you may use for inter-linking within a system. These include:
	1. Parameter to Parameter links
	2. Parameter to Function Block Node links
	3. Function Block Node to Parameter links
	4. Function Block Node to Function Block Node links
	To access Function Block links, you must use the Sel_Type option (
	IMPORTANT: Only the first option (Parameter to Parameter) is currently accessable with this release of the GPT. The SEL_TYPE option is non functional at this time.
Accessing the Link Summa	ry From the Main Menu, use the $\bigcirc + \frown$ or $\bigcirc - \bigcirc$ key to place the
	cursor on Option 2, Link Summary (Figure 5.1).
	Figure 5.1 Main Menu
[Main Menu:
	1 - Parameter < 2 - Link Summary 3 - Fault Queue 4 - Warning Queue 5 - EEPROM/BRAM
	ProcDsply

Press the key to access the links currently in the system. The

display will now show the first parameter in the system (Figure 5.2).

Figure 5.2 Initial Link Screen



In this case, parameter 20 (Drive Link Transmit Data 1) is not currently linked to another parameter.

Searching for Linked Parameters

If you wish to check the link on a specific parameter, you may enter the parameter number directly in the Sink Parameter display using the numeric keys.

If you wish to scroll to the next linked parameter, press the



or use the F3 soft designator key.

The text "Searching" will appear on the display as the GPT scrolls through the parameter table searching for links. If no link is found, the display stops at the point where the search began.

Changing or Adding Parameter Links

Scroll to the Sink parameter you wish to link to another parameter by using



To change the parameter number in the Source field use the **O+**



key, or enter the number directly with the numeric keys.



remove the digits.

or

Saving Parameter Links

Once you have entered all changes to Sink and Source links, press the



key to save these links.

The verification message in Figure 5.4 will appear.

Figure 5.4 Save Link Verification Message

Do you Wish to Save Parameters/Links (Y/N) ?

To save all links, press the **F1** soft designator (YES)). To escape the Link Verification and return to the Main Menu <u>without</u> saving your changes press the **F4** soft designator (NO).

Clearing All Links in the System:

To clear all current links in the system, access a Link Summary Screen (Figure 5.5).

Figure 5.5 Clearing Links



The Clr_All function is located in the bottom right corner of the display and

is linked to the F4 soft designator key. Press the F4 soft

designator and the verification message in Figure 5.6 will appear.





Chapter 5 Link Summary

Changing or Adding Function Block Links

Chapter 5

Figure 5.8 Node to Parameter Display



IMPORTANT: The screen shown in Figure 5.8 allows you to enter the information needed to Link a Node to a Parameter for Function Block linking.

The Node to Parameter;

Parameter to Node; and Node to Node; options are currently non-functional. Only Option 0, Parameter to Parameter linking should be attempted at this time.

For additional information on Function Block linking, refer to the Advanced Programming Manual 1336–5.9.

Clock Data

General

This Main Menu option allows you to program clock and time functions within the Drive.

The software function keys are programmed to allow you to set the clock (Set_Clk), set the time reference (Set_Ref), zero the accumulator (Zero_Acc) or load the clock into reference (Load_Ref).

Chapter

Accessing the Clock Data Function





Figure 6.2 Clock Data Main Display



Setting the Clock

From the Clock Data Main display, press the **F1** soft designator

to access the Set Clock display (Figure 6.3).

Figure 6.3 Set Clock Display



designator to save the changes and return to the Clock Data Main Display.

Chapter 6 Clock Data

Setting the Reference

This option allows you to set the reference manually to a specific date & time for record keeping purposes.

From the Clock Data Main Display press the

soft designator

F2

key to access the Set Reference Display (Figure 6.4).

Figure 6.4 Set Reference Display

Set Reference:			
Mon < 12 > Date: xx Year: 1994 Day: 05	Hour: 01 Min: 21 Sec: Ref: xx	Info Set Month Min: 1 (Jan) Max: 12 (Dec) Mode: "12 Hr"	
Set_Mode		Save	
Use the	or	key to scroll to the data item you	ı wish
to change (I	Day, Hour, Min etc	c.). Use the $\mathbf{O+}$ or $\mathbf{O-}$	key to
change the c	lata. When chang	es are complete, press the F4	soft
designator to	o save the changes	s and return to the Clock Data Main Dis	play.

Loading the Reference

This option allows you to load the current Date and Time into the reference for record keeping purposes.

From the Clock Data Main Display, press the F3 soft

soft designator

key to load the clock into reference. The verification screen shown in Figure 6.5 will appear.

Figure 6.5 Load Reference Verification Display

Load Reference Stamp Are you sure (Y/N) ?

To load the current clock reference press the **F1** soft designator (YES). To return to the Set Clock Main Display without loading the reference,

press F4 (NO).

Zeroing the RT Accumulator

From the Set Clock Main Display press the **F4** soft designator.

The verification screen in Figure 6.6 will appear.

Figure 6.6

Zero RT Accumulator Verification Display

Zero RT Accumulator Are You Sure (Y/N) ?

To zero the RT Accumulator press the **F1** soft designator (YES).

To return to the Set Clock Main Display without zeroing the accumulator,

press F4

soft designator (NO).

Process Display

General

The Process Display option can supply you with information on up to six (6) programmed process variables. The process variables will allow you to monitor the programmed parameter, scale it with the scale factor and add a customized text string. You also have the option of displaying different types of information on the right hand side of the display in the mode window.

The Mode options that are available include:

- 1. An AB Logo Graphic
- 2. A Drive Status Report
- 3. A metering bar graph display

The configurable items that are available to you in the Process Display include:

- 1. Programming Parameter Data Source
- 2. Programming Scaling Factor
- 3. Programming Text String
- 4. Recalling Process Display Data
- 5. Initializing all Process Display Data
- 6. A Blank Text String
- 7. An Enable/Disable Display Variable

Accessing the Process Display

If it has not been deactivated, the Process Display Screen can be accessed from the Main Menu display. With the Main Menu called up, press the

F3 so

soft designator key to access the Process Display

(Figure **7**.1).



0.00 FREQ CMD 0.00 VEL FB 0.00 COMP PWR 0.00 MTR VFB 0.20 MTR I FB 0.00 TORQ FB		
ConFig	Main Menu	Dsp_Mode
F1	F2	F3 F4

In this case the Process display came up in the AB–Logo mode.

Accessing the Drive Status Mode

To access the Drive Status Mode from the initial Process Display, press the

soft designator key.

The Mode entry window in Figure 7.2 will appear.

Figure 7.2 Mode Selection Window

F3

Enter Mode: < > 1 – Logo 2 – Status 3 – Meter







Figure 7.8 Configuration Scaling Display



When the new scaling value is entered correctly, press the

key

ESC

to save the value and return to the Main Configuration window.

Changing the Configuration Text:



place the character selection cursor (\$ sign) under the character you wish to change (Figure 7.9).

Figure 7.9

Text Configuration Display

0+

Use the



or **O**

key to scroll through the alphabet and

replace the selected letter with new text. All Upper and Lower case letters and some additional keyboard symbols are available. Once you have reached

Chapter 7 Process Display

the new letter or character you wish to enter, press the



this new character.

If you wish to delete the complete word and enter a new word, press the



soft key to blank out the complete text line.

It is also possible to enter the text in hex. Press the



key to activate the Char_Val option. The display will respond with the window shown in Figure 7.10.

Figure 7.10 ASCII Entry Dialog Box

Config: Var#3					
Data					
Param Scale Text Min: 20 Max		:): < > 7F			_
				/ DULi	
			Char_Val		Blank

Enter your desired ASCII text within the cursors and press the

key to save the new characters.

Chapter 7 Process Display

This Page Intentionally Blank

Chapter

Special Menu

General

The Special function is a dynamic list of options that varies with the Drive State and the Drive Product being used.

Options that may be available under the Special Menu include Autotuning, Trending, Diagnostics, Password, Drive Identity and Version information.

Each option has a Help box that describes the function of this option.

Accessing the Special Menu Function









Changing & Entering a Password

From the Special Menu use the	\bullet + \bullet or \bullet - \bullet key to place the
cursor on option four (4) Change F	Password. Press the key to
access the Change Password displa	ay (Figure 8.3).
Figure 8.3 Change Password Display	
Change Password:	
Old Code: < >	Info Min: 0 Max: 65535 0 = No Password

Enter the current password within the cursors using the numeric keys. If there is currently no password assigned, press the **PRESET 2** key and then the



key. The New Code request will appear as shown in Figure 8.4.

Figure 8.4 New Code Request

Enter your new code with the numeric keys and then press the



key. The GPT will respond with the message in Figure 8.5.

Figure 8.5 Password Change Verification

Old Code:	?		
New Code	:?		
Verify:	<	>	

Re-enter your new password with the numeric keys and press



The GPT will return to the Special Menu when the new password is accepted.

IMPORTANT: If you enter zero (0) as the New Code, the old code line will remain. Numeric choices from 1 to 65535 should be used if you do not wish to return to the old password.

Inspecting Version Information

From the Special Menu, use the **O** or **O** + **A** key to select option five (5) Version Info. Press the **B** key and the display will

show the current version of the GPT, and all processors in the drive (Figure 8.6).

Figure 8.6 Version Information Display

Version: B 1336T Vector				
GPT	SW = V 0.04	LM = V 0.04		
VP	SW = V 1.02	LM = V 1.02		
CP	SW = V 1.02	LM = V 1.02		
AP	SW = V 1.02	LM = V 1.02		
DP	SW = V 1.01	LM = V 1.01		

This is a read only Display, NO user changes can be made to this display using the GPT.

To return to the Special Menu press

ESC

Chapter 8 Special Menu

Changing Drive Identity





To enter a name of up to sixteen characters activate the character # selection by pressing the soft designator key. The dialog box shown in **F1** Figure 8.8 will appear.

Figure 8.8 **Character Entry Box**

Enter Character #: <			>
Min: 1	Max:	16	

To enter the first character press the



key and then the



The \$ sign will now appear at position 1 indicating the first character can be entered or changed at this point (Fig. 8.9).

Figure 8.9 Character Entry Indicator



selection chart on the right side of this display. In this case place the # cursor on the capital B and the letter B will appear in the first position under the name entry (Figure 8.10).





Continue the entry process by pressing the



soft

designator and then entering number 2 in the character entry box. Enter your desired character for position #2. Continue this sequence until you have entered as many name characters as you wish, up to a maximum of sixteen. When you have entered all Drive Identity name characters as you wish them

Chapter 8 Special Menu

to appear, press the

key. The new name will be saved and the

display will return to the Special Menu.

Changing Drive Identity in Hex

The Drive Identity name can also be changed by using the Char_Val option to enter hex values for the characters in the character selection chart.

With the drive identity display selected, press the Char_Val soft designator



. The dialog box shown in Figure 8.11 will appear.

Figure 8.11 ASCII (Hex) Dialog Box



Enter the value 4F with the keyboard. The ASCII equivalent of 4F which is a capital O will appear at position one (1) of the name (Figure 8.12).



press the



When you have entered all of the hex values you wish for the Drive Identity,

key. The ASCII name will be saved and the GPT will

return to the Special Menu display.

Accessing the Data Transfer Function



display will appear as shown in Figure 8.13.

Figure 8.13 Data Transfer Display



Uploading

To Upload the Param File, press the **F1** soft designator key.

The verification message shown in Figure 8.14 will appear.

Figure 8.14 Parameter File Upload Verification



shown in Fig. 8.15. A bar chart will scroll across the bottom of the Data Screen to indicate the percentage of the parameter table that is uploaded.







Figure 8.16 Data Download Verification



When you press the **F1** soft designates the **F**

soft designator key the Download

display shown in Figure 8.17 will appear.

Figure 8.17 Parameter File Download



A bar chart will scroll across the bottom of the Data Display to indicate the percentage of the parameter table that is downloaded.

F4

To cancel a download press the

soft designator.

Rockwell Automation

Allen-Bradley, a Rockwell Automation Business, has been helping its customers improve productivity and quality for more than 90 years. We design, manufacture and support a broad range of automation products worldwide. They include logic processors, power and motion control devices, operator interfaces, sensors and a variety of software. Rockwell is one of the world's leading technology companies.

Worldwide representation. -

Argentina • Australia • Austral • Bahrain • Belgium • Brazil • Bulgaria • Canada • Chile • China, PRC • Colombia • Costa Rica • Croatia • Cyprus • Czech Republic • Denmark • Ecuador • Egypt • El Salvador • Finland • France • Germany • Greece • Guatemala • Honduras • Hong Kong • Hungary • Iceland • India • Indonesia • Ireland • Israel • Italy • Jamaica • Japan • Jordan • Korea • Kuwait • Lebanon • Malaysia • Mexico • Netherlands • New Zealand • Norway • Pakistan • Peru • Philippines • Poland • Portugal • Puerto Rico • Qatar • Romania • Russia-CIS • Saudi Arabia • Singapore • Slovakia • Slovenia • South Africa, Republic • Spain • Sweden • Switzerland • Taiwan • Thailand • Turkey • United Arab Emirates • United Kingdom • United States • Uruguay • Venezuela • Yugoslavia

Allen-Bradley Headquarters, 1201 South Second Street, Milwaukee, WI 53204 USA, Tel: (1) 414 382-2000 Fax: (1) 414 382-4444