2 Maintenance

This chapter describes basic information about the GP's "offline mode" and basic operations.

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2.2	Display screen settings	2-7
2.3	Peripheral device settings	2-20
2.4	Ethernet settings	2-25
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	is used)	2-68
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2.1 Offline Mode

Off-line mode does system setting and self diagnostic etc. Before operating, it prepares here.

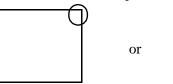
• OFFLINE mode is unavailable in a completely new GP until the necessary GP system data has been transferred from GP screen editor software. To do this, be sure the GP's power cord is plugged in and when transfer screen data from GP screen editor software to the GP, GP's system data will be automatically sent. For more information about data transfer, refer to GP-Pro EX Reference Manual.

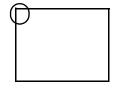
2.1.1 Entering OFFLINE Mode

There is offline mode for various setup required at use in GP. There are two ways to enter OFFLINE mode. First, is immediately after plugging in the GP's power cord, and second, by using the Forced Reset feature.

■ After Plugging in the Power Cord

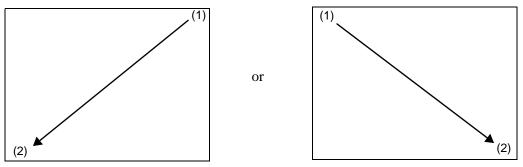
Touch the upper right corner or upper left corner (within 40 pixels of the edges) of the panel for at least 3 seconds soon after the startup screen is displayed.





When Operating

1 Touch either the upper right and lower left corners, or the upper left and lower right corners (within 40 pixels of the edges) of the panel in this order within 0.5 seconds.



2 System menu is displayed and touch "Offline" button.
For details of the buttons of the system menu, see the following section.
"2.15.12 System Menu" (page 2-171)



Continued

NOTE	• If the system menu does not appear, [Show System Menu] for GP-Pro EX ([Display Unit] - [Menu and Error Settings]) has been set to [Do Not
	Display]. Change the setting to show the system menu and then transfer the
	project file again.
	GP-Pro EX Reference Manual "5.17.6 [System Settings] Setting Guide • Display Settings" (page 5-150)
	• If a Password has been entered in the Password Settings area, before entering
	the OFFLINE mode, the Password Settings screen appears. Here, enter the
	password, then touch Set to enter OFFLINE mode.
	[°] "2.5 Password and license settings" (page 2-27)
	⁽²⁾ "2.1.3 Operation in offline mode" (page 2-5)

2.1.2 Common Switches of offline mode

The common switches of offline mode are as follows. The display and the way to show more switches, depend on the size of the screen and the number of pixels the screen contains.

Switch	When the screen pixels is the 320x240 pixels model	When the screen pixels is the 640x480 pixels model
• Item changeover switch The setting item displayed is changed. The arrow switch is dis- played on the right end of a switch, when all switches cannot display at once.The remaining switch by touch- ing the arrow switch is dis- played.	Arrow switch Home Main Unit Periphera Screen Settings System Area Operation Display Menu and Error Window Settings Save Exit Cancel 06/05/21 18:02	Nome Main Ubit Settings Peripheral Settings Password Settings Initialization Menu Mintenance Transfer Elfernal file Separation System Area Settings Screen Settings System Area Settings System Area Settings Operation Settings Elfernet Local Settings Display Settings Logic Settings Window Settings Extended Settings Window Settings Extended Settings Window Settings Remote Viewer Settings Save Exit Cancel 2000/005
• Setting item The necessary item is set up when the using GP. The page changeover switch is displayed on the lower right end of a setting item, when all items cannot dis- play at once. The remaining items by touching the page changeover switch is dis- played.	Home Main Unit Peripheral Screen Settings System Area Operation Display Menu and Error Window Settings Save Exit Cancel 06/05/21 18:02	Nome Nairs Noit Settings Peripheral Settings Password Settings Initialization Perupheration Mintenance Menu Transfer External file operation System Prea Settings Screen Settings External file operation System Prea Settings Operation Settings External file operation External file Settings Display Settings External Settings Window Settings Extended Settings Window Settings Extended Settings Save Exit Cancel 2800/03/05



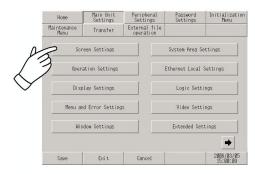
Switch	When the screen pixels is the 320x240 pixels model	When the screen pixels is the 640x480 pixels model
• Control switch This button performs "Save", "Cancel", "Exit", and "Back" in offline mode. Each function is as fol- lows. The buttons are dis- played differently depending on the screen size of the GP.	Home Main Unit Peripheral Screen Settings System Area Operation Display Menu and Error Window Settings Save Exit Cancel 06/05/21 18:02	None Main Ubit Settings Peripheral Description Password Settings Initialization Maintenance Henu Transfer Exernal file Separation System Area Settings Screen Settings System Area Settings Ethernet Local Settings Operation Settings Ethernet Local Settings Bisplay Settings Logic Settings Window Settings Extended Settings Save Exit Save Exit Screen Operation Display Menu and Error Settings
SaveA setup of the changed item is saved. Cancel A setup of the changed item is returned to the state where it saved last time. Exit Offline mode is ended. BackIt returns to the screen of hierarchy on one.	Screen Operation Display → Initial Screen No.(1-9999): 1 Data Type of Display Screen No.: ● BIN BCD Start Time (0-255sec): 0 Exit Back 06/05/21 18:02	Sittings Settings Settings Settings System Kree Logi Settings Video Settings Initial Screen No. (1-9999): I I Data Type of Disple Screen No. : 0 BIN B00 Start Time (#-255ire): B B Standby Mode Settings: None Screen OFF Screen Ohange Standby Mode Settings: I I I Ohange To Screen No. : None Screen OFF Screen Ohange Standby Mode Settings: I I I Ohange To Screen No. : I B I Ohange To Screen No. : None Screen OFF Screen Ohange Standby Mode Time (I-255min): I I I Ohange-To Screen No. : Standby Mode (I-5998): I I Exit Back 2800/05/22 81:47:48

2.1.3 Operation in offline mode

This section describes operations necessary for various settings.

Selecting a menu

Touch the menu item.



Entering numbers

After selecting an input field by touching it, use the numeric touch keys located at the screen to enter numeric values.

Screen Settings	Operation Settings	Display Settings			Menu and or Settings	Window Settings
System Area Settings	Ethernet Local Settings					
Initial Scre	en No. (1-995					10
Data Type of	Display Scre		CLR	ESC		BCD
Start Time (0-255nc)	8	9			8
Standby Mode	\$ 34	5	6	ENT	en OFF (Screen Change
Standby Mo	1-255#1	2	3	CAT		1
Change-To Sc	reen No. in S0	+/-	BS			1
					,	
	Exit				Back	2006/05/22 01:58:04

Selecting setup conditions

After selecting a menu item and entering that area, touch the option you would like to setup.

Screen Settings	Operation Settings	Display Settings	Menu and Error Settings	Window Settings
System Area Settings	Ethernet Local Settings			
Touch Panel	Detection:	A	D• ON	○ 0FF
Touch Buzze	r Sound:	13	● Enable	🔿 Disable
Output to E	kternal Buzzer Ter	\sum	• Enable	🔿 Disable
Touch Panel	Operation on Back	Light Off:	• Operational	🔿 Inhibit
	Exit		Back	2005/07/27 18:27:59

■ After all setting data is entered

Touch the lower [Save] button.

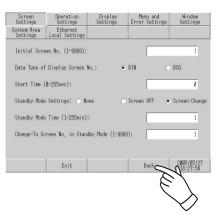
If you wish to exit the screen without saving the changes, touch the [Cancel] button.

1	Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu
1	Maintenance Menu	Transfer	External file operation		
	Scr	een Settings		System Area S	ettings
	Opera	ition Settings	E	Ethernet Local	Settings
	Disp	lay Settings			
	Menu an	d Error Setting	18		
	Win	dow Settings			
N	Save	Exit	Cancel		2006/05/22 01:46:58
1	3				
\leq					

- **IMPORTANT** Touch the [Save] button to write the setup conditions onto the internal FEPROM.
 - When saving to the internal FEPROM, it may take some time to return to the main screen after touching the [Save] button. Do not touch the screen until it returns to the menu screen.
 - Do not turn off the GP while a setup of the changed item is being saved. The setup conditions may have a damage.
 - Touch the [Cancel] button to return a setup of the changed item to the state where it saved last time.

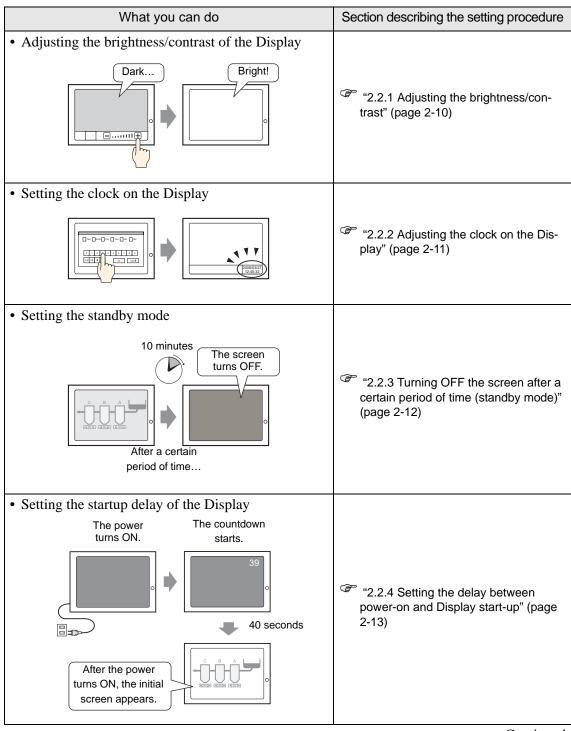
Return to the hierarchy on one

Touch the [Back] button.

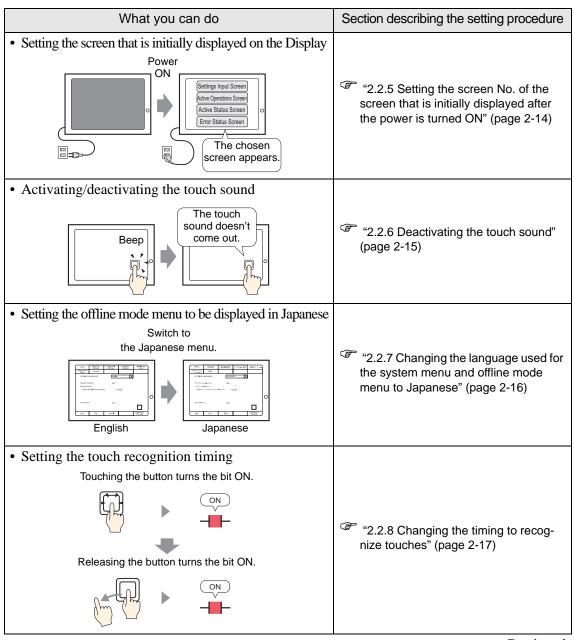


2.2 Display screen settings

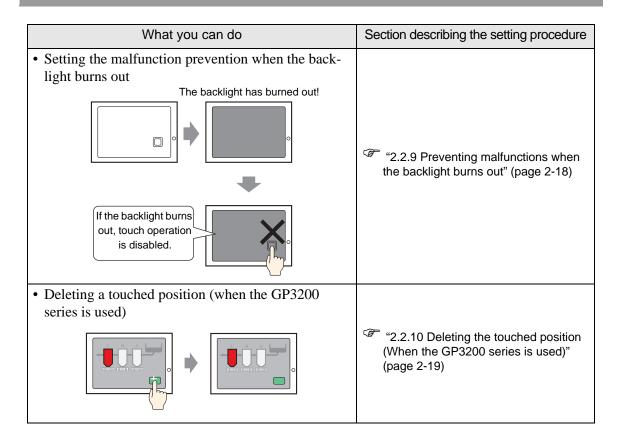
You can adjust the settings for the screen and operations of the Display.



Continued



Continued



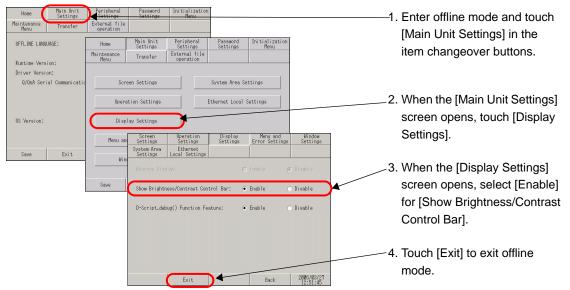
2.2.1 Adjusting the brightness/contrast

You can adjust the brightness and contrast of the GP.

► For more details, refer to the settings guide.
 ☞ "2.15.1 Settings common to all Display models ◆ Display Settings" (page 2-80)

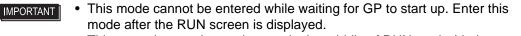
Setting in offline mode

Set whether to display a control bar that is used to adjust the brightness and contrast of the GP.



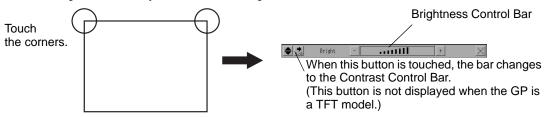
Show Brightness/Contrast Control Bar

To display the Brightness/Contrast Control Bar on the GP screen, in offline mode, set [Show Brightness/Contrast Control Bar] on the [Display Settings] screen to [Enable].



• This operation can be made even in the middle of RUN mode (during communication with the connected device)

Touch either the upper right and upper left corners, or the upper left and upper right corners (within 40 pixels of every direction) of the panel in this order within 0.5 second.



Touching [+] and [-] of Brightness/Contrast Control Bar and the strength is adjusted. Touch [x] to end the adjustment. TFT color LCD model (AGP-3500T etc.) can set only Brightness.

To end Brightness/Contrast Control mode Touch the [x] of Brightness/Contrast Control Bar.

2.2.2 Adjusting the clock on the Display

You can set the date and time displayed on the GP screen.

Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu				
Maintenance Menu	Transfer	External file operation						
OFFLINE LANGU	JAGE:	ENGLISH	۲	•			_1.	Enter offline mode, and
Runtime Versi	ion:	2. 0. 0						touch the time display area
Driver Versio	on:					/		in the control switches to
Q/QnA Seri	al Communication	• V1.	10.02					display the [Time Setting]
OS Version:		2. 0. 0		•				dialog box.
Save	Exit	Cancel		2006/09/15			0	Touch the unit for the date
ouve	LAIV	oancer		14:25:04			<u> </u>	Touch the unit for the date
	Home	Main Unit Settings	Periphera Settings	1 Password Settings	Initialization Menu			or time to be changed.
	Maintenanc Menu	e Transfer	External f operation	ile				When the value is high-
	01 Ti	me Setting						lighted in black, enter a
		Der D5 Mont	h 22 Day 01	Hour 56 Min	40 Sec			value using the numeric
	Ri Line				10 000			touch keys below.
	D							
		0 1 2	3 4 5	6 7	3 9			
							2	Once all values are input,
	0:	LR BS	▶ (_	Ok	Jancel		<u> </u>	
								touch [OK] and close the
		Home	Main Uni Settings	t Periphera Settings	Password Settings	Initialization Menu]	[Time Setting] dialog box.
	Save	Maintenanc Menu		Futannal fi	le	nenu		
		OFFLINE L	.ANGUAGE :	ENGL	ISH	•		
		Runtime \	larsion.	0. 0.	ifea			
		Driver Ve		0. 0.	iua.			
		A Seri	es Ethernet		V1.11.02			
		OS Versio	on:	2.9.	.1		4.	On the [Home] screen,
						•		touch [Exit] to complete the
			<u></u>					setting.
		Save	Exit	Cancel		2006/03/05 15:00:59		

- The GP's internal clock has a slight error. At normal operating temperatures and conditions, with the GP operating from its lithium battery, the degree of error is 65 seconds per month. Variations in operating conditions and battery life can cause this error to vary from +90 to -380 seconds per month. For systems where this degree of error will be a problem, the user should be sure to monitor this error and make adjustments when required.
 - When the message [RAAA051 Low battery] appears, supply power to the GP and fully charge the battery. The battery requires 24 hours of charging to reach a level that allows backup operation, and about 96 hours (4 days) to be fully charged.

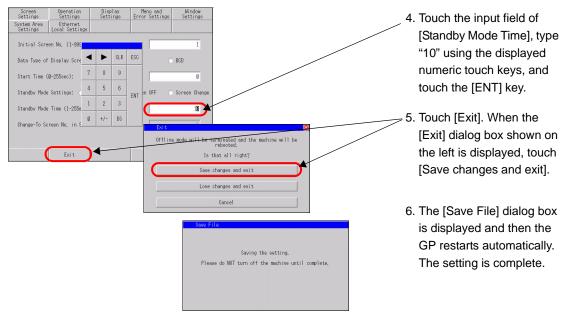
2.2.3 Turning OFF the screen after a certain period of time (standby mode)

To extend the life of the GP's backlight, the GP is equipped with a screen saver function that automatically turns the unit's backlight (s) OFF when no operations have occurred for a designated period of time. To set the standby mode, open the [Screen Settings] screen using the following procedure.

NOTE	• For more details, refer to the settings guide.	
	*2.15.1 Settings common to all Display models + Screen Settings" (page 2-	-78)

Home	Main Unit Settings	Settings	Password Settings	Initialization Menu				
Maintenance Menu	Transfer	External file operation						—1. Enter offline mode and touch
OFFLINE LANGU	Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu			[Main Unit Settings] in the iten
Runtime Versio	Maintenance Menu	Transfer	External file operation					changeover buttons.
Driver Version Q/QnA Seria	<u>s</u>	creen Settings		System Area Se	ttings			·
OS Version:	Di	Settings	Operation Settings Ethernet Local Settings	Ethernet Local Display Settings Logic Settings	Settings Menu and Error Settings Video Settings	Window Settings Extended Settings		—2. When the [Main Unit Settings] screen opens, touch [Screen]
Save	Menu :	inicial scre	en No. (1-9999): Display Screen		BIN O	1 BCD		Settings].
	Save	Start Time (Standby Mode	0-255sec): Settings: • N	one O	Screen OFF ()	Ø Screen Change		- 3. When the [Screen Settings]
		Standby Mode	Time (1-255min)	:		1		screen opens, touch [Screen
		Change-To Sc	reen No, in Star	dby Mode (1-9999):	1		OFF] for [Standby Mode Set- tings].
			Exit		Back	2006/05/22 01:47:49		

To turn OFF the screen after a certain period of time (Example: 10 minutes), adjust the settings as follows:



2.2.4 Setting the delay between power-on and Display start-up

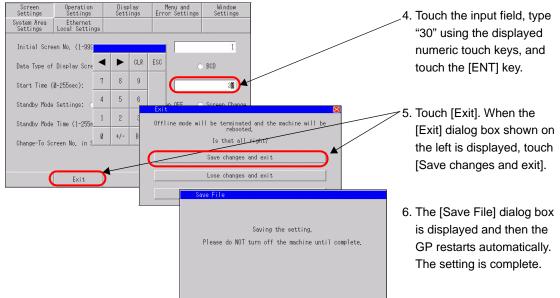
This setup determines the start-up time of the GP. Use this setup to adjust the power up sequence so that the GP starts up after the PLC.

NOTE

For more details, refer to the settings guide.
 [☞] "2.15.1 Settings common to all Display models ◆ Display Settings" (page 2-80)

Milatar	Ann forn to Settinge Settinge Transfer Settinge External fr Geration ENG ENG None Main Sett Maintenance Menu Transfer	ISH Vitana Settings	tialization Menu Password Settings	Initialization Menu		touch [I	ffline mode and Main Unit Settings] em changeover but-
OS Version: Save	Screen Sett Operation Set Display Sett	ttings	System Area Se Ethernet Local S			tings] s	he [Main Unit Set- creen opens, touch o Settings].
Jave	Menu and Er Sy Window Save C Save S Save S S	Spreen Oberation Setting Ethernet Settinge Local Setti Initial Screen No. (1-99 Data Type of Display Scr Start Time (0-255sec): Standby Mode Settings: (Standby Mode Stings: (Standby Mode Time (1-255 Change-To Screen No. in Exit	Settings Logic Settings 39): sen No.: None min):	Video Settings BIN Screen OFF	Urodow Settings Extended Settings 1 BCD 0 8 Screen Change 1 1 2005/05/22	screen	he [Screen Settings] opens, touch the eld of [Start Time sec)].

To display the initial screen 30 seconds after turning ON the power, adjust the settings as follows:



When the GP restarts, the startup delay time (in seconds) specified in step 4 is shown in the upper right corner of the screen and counts down until the initial screen appears.

2.2.5 Setting the screen No. of the screen that is initially displayed after the power is turned ON

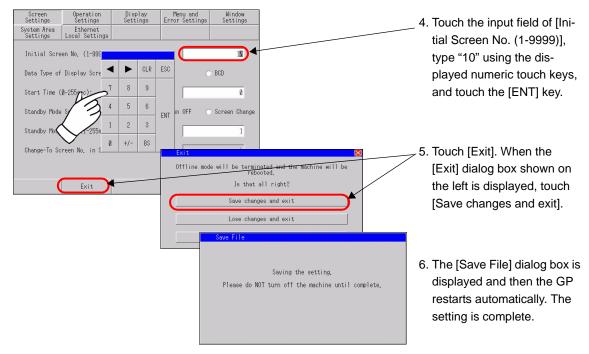
You can change the screen No. of the screen that is initially displayed after the power is turned ON.

NOTE

For more details, refer to the settings guide.
 ^{CP} "2.15.1 Settings common to all Display models ◆ Display Settings" (page 2-80)

							1. Enter offline mode and touch
Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu			
Maintenance	Tanatas	External file					[Main Unit Settings] in the item
Menu	Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu		changeover buttons.
OFFLINE LANG	Maintenance Menu	Transfer	External file operation	octernigo	TRANG		changeover buttons.
Runtime Vers	<u> </u>	een Settings		System Area Se	ttings		
Driver Versi	301	een settings		System Area Se	ttings		
Q/QnA Seri	Opera	Screen Settings	Operation Settings	Display Settings	Menu and Error Settings	Window Settings	2. When the [Main Unit Settings]
		System Area Settings	Ethernet Local Settings	Logic Settings	Video Settings	Extended Settings	screen opens, touch [Screen
	Disp	1					Settings].
OS Version:			een No. (1-9999)			1	Cottingo].
	Menu an		f Display Screen	No : •	BIN	BCD	
	Win						
Save		Start Time	(Ø-255sec):			0	3. When the [Screen Settings]
		Standby Mod	e Settings: 💿 M	lone ()	Screen OFF (Screen Change	
	Save					· ·	screen opens, select the data
		Standby Mod	e Time (1-255min):		1	type of the initial screen from
		Change-To S	creen No, in Sta	ndby Mode (1-999	19):	1	[BIN] and [BCD] at [Data Type
		, , , , , , , , , , , , , , , , , , ,					
							of Display Screen No.].
			Exit		Back	2006/05/22 01:47:49	

To change the screen that is initially displayed after the GP is turned ON (Example: Data format of the screen No. is BIN, Base screen 10), adjust the settings as follows:



2.2.6 Deactivating the touch sound

You can set whether to activate or deactivate the internal buzzer when the screen is touched.

NOTE	• For more details, refer to the settings guide.
L	^C "2.15.1 Settings common to all Display models ◆ Operation Settings" (page 2-79)

Activating/deactivating the touch sound

Home Maintenance	Main Unit Settings Transfer	Peripheral Settings External file	Password Settings	Initializatior Menu	n			1. Enter offling mode and
Menu OFFLINE LANGU		operation		•				 –1. Enter offline mode and touch [Main Unit Settings]
Runtime Versi Driver Versio Q/QnA Seri	ion: Home Maintenance Menu	2.0.0 Main Unit Settings Transfer	Peripheral Settings External file operation	Password Settings	Initializatio Menu	n		in the item changeover but- tons.
OS Version:	_	reen Settings ration Settings		System Area S Ethernet Local	Settings			-2. When the [Main Unit Set- tings] screen opens, touch
Save	Di	Screen Settings System Area Settings	Operation Settings Ethernet Local Settings	Display Settings Logic Settings	Menu and Error Settings Video Settings	Window Settings Extended Settings	_	[Operation Settings].
	Menu	Touch Panel D			• ON	O OFF		
		Touch Buzzer	Sound:	(● Enable	○ Disable	•	-3. When the [Operation Set-
	Save	Output to Ext	ernal Buzzer Ter	minal: (• Enable	⊂ Disable		tings] screen opens, select [Disable] for [Touch Buzzer
		Touch Panel O	peration on Back	: Light Off: (• Operational	⊙ Inhibit		Sound].
			Exit		Back	2006/05/22 01:47:55		
			Sav	terminated and rebooted, s that all right e changes and e: cancel	:? xit			-4. Touch [Exit]. When the [Exit] dialog box shown on the left is displayed, touch [Save changes and exit].
			File S.	aving the setti n off the machi		·te.		5. The [Save File] dialog box is displayed and then the GP restarts automatically. The setting is complete.

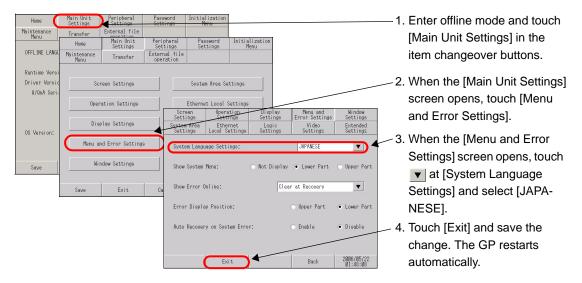
2.2.7 Changing the language used for the system menu and offline mode menu to Japanese

• For more details, refer to the settings guide. [©] "2.15.1 Settings common to all Display models ◆ Menu and Error Settings" (page 2-80)

[™] "2.15.1 Settings common to all Display models ■ [Home] Settings Guide" (page 2-76)

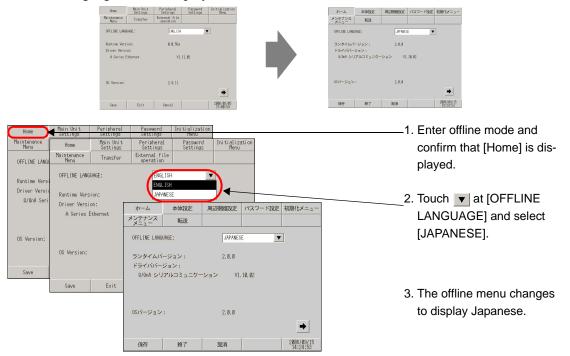
System menu and error messages

You can set the language used to display the system menu and error messages.



Offline mode menu

Set the language used to display the text of the offline mode menu.



2.2.8 Changing the timing to recognize touches

Setup the touch detect timing.

• For more details, refer to the settings guide. NOTE ^C "2.15.1 Settings common to all Display models ♦ Operation Settings" (page 2-79)

Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu	·		1. Enter offline mode and touch
Maintenance Menu	Transfer	External file operation					[Main Unit Settings] in the item
OFFLINE LANG	Home	Main Unit Settings	Peripheral Settings	T Password Settings	Initialization Menu		changeover buttons.
Runtime Vers	Maintenance Menu	Transfer	External file operation				
Driver Versi Q/QnA Ser	Scr	een Settings		System Area Set	tings		2. When the [Main Unit Settings]
OS Version:		ation Settings		thernet Local S	ettings		screen opens, touch [Opera- tion Settings].
Save	Uisp Menu ar	ilay Settings Screen Settings System Are Settings	Operation Settings a Ethernet Local Settir	Display Settings Logic gs Settings	Menu and Error Settings Video Settings	Window Settings Extended Settings	
Jave	Wir	idow	nel Detection:	90 <u>000000</u> 95	• ON	O OFF	3. When the [Operation Settings] screen opens, select [ON] or
	Save	Touch Buz	zer Sound:		● Enable	○ Disable	[OFF] for [Touch Panel Detec-
		Output to) External Buzzer	Terminal:	• Enable	🔿 Disable	tion].
		Touch Par	nel Operation on	Back Light Off:	• Operational	⊖ Inhibit	
			Exit		Back	2006/05/22 01:47:55	

ON : Touch is detected when a touch is pushed.

OFF : Touch is detected when the finger leaves from the screen.

In momentary operation, it is detected when touched regardless of a Touch Panel Detection setting. In repeat operation, Touch Panel Detection setting becomes invalid.

Offline mode will be terminated and the machine will be rebooted. Is that all right? Save changes and exit Lose changes and exit Cancel Save File Saving the setting. Please do NOT turn off the machine until complete.	Exit		
Save changes and exit Lose changes and exit Cancel Save File Saving the setting.	Offline mode will b		will be
Lose changes and exit Cancel Save File Saving the setting.	I	s that all right?	
Cancel Save File Saving the setting,	Sar	ve changes and exit	\supset
Save File Saving the setting,	Lo	se changes and exit	
Saving the setting.		Cancel	
Saving the setting,			
	Save File		
Please do NOT turn off the machine until complete.	S	aving the setting.	
	Please do NOT tu	rn off the machine until comp	lete.

- 4. Touch [Exit]. When the [Exit] dialog box shown on the left is displayed, touch [Save changes and exit].
- The [Save File] dialog box is displayed and then the GP restarts automatically. The setting is complete.

2.2.9 Preventing malfunctions when the backlight burns out

This option designates whether touch-operation is disabled or not when the backlight burns out. If this selection is set to "Inhibit", touch-operation will be disabled when the backlight burns out, which prevents the GP from sending input signals to the PLC.

NOTE

• For more details, refer to the settings guide. ⁽²⁾ "2.15.1 Settings common to all Display models ◆ Operation Settings" (page 2-79)

Home	Settings	Peripheral	Password	Initialization	1			1	Enter offling mode and touch Main
Maintenance Menu	Transfer	External fil	ocoornigo	Pierro				I.	Enter offline mode and touch [Main
OFFLINE LANG	Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu	n			Unit Settings] in the item changeover
	Maintenance Menu	Transfer	External file operation						switches.
Runtime Vers									
Driver Versi O/OnA Ser	Sc	reen Settings	1	System Area Se	ttings				
w/with bei-								2	. When the [Main Unit Settings] screen
	Oper	ation Settings		Ethernet Local S	ettings				opens, touch [Operation Settings].
	_								opens, touch [Operation Settings].
OS Version:	Dis	play Settin	Screen Op	peration D	isplay 1	1eny and	Window	T	
	Manual	A France St	stem Area E	thernet I	ogic	or Settings Video	Settings Extended		
	Menu a	nd Error Se	Settings Loca	l Settings Se	ttings (Settings	Settings		When the [One setting On this set]
Save	Wi	ndow Settin	ouch Panel Detec	tion:	• ON		O OFF	3	. When the [Operation Settings]
									screen opens, select [Operational] or
			ouch Buzzer Soun	1:	 En 	able	🔿 Disable	1	
l	Save	Exit							[Inhibit] for [Touch Panel Operation
			utput to Externa	l Buzzer Terminal	: • En	able	Disable		on Back Light Off].
		C	ouch Panel Onera:	tion on Back Ligh	t Off: 💿 On	erational	O Inhibit		on back Eight Onj.
		<u> </u>	outer and opera	oron on buok ergin	u onn. (2 op	crutionar			
								4.	. Touch [Exit] and save the change.
									The GP restarts automatically.
			C	Exit		Back	2006/05/22 01:47:55		The Granes automatically.

Operational: Touch operation is accepted even when the backlight burns out.

Inhibit : Touch operation is not accepted when the backlight burns out. This prevents malfunctions.

NOTE	 When the backlight burns out, the Status LED's orange light turns ON. The GP3000 series models use two backlights (CCFL). The GP detects backlight burnout when one of the two backlights burns out, and disables touch operations. When the backlight burns out, the System Data Area's "Status" bit 10^{*a} will turn ON. If the "Show System Menu" option is set to "Lower Part" or "Upper Part", "System Menu" can still be performed by touch-operation in case of backlight burnout and the screen remains black. If the backlight burns out when the GP is OFFLINE, touch-panel operation is enabled, regardless of these settings.
	*a Bit +6 (when using the Direct Access method), and bit +11 (when using the Memory Link method), will turn ON
IMPORTANT	• Normally, the GP unit detects a backlight burnout by monitoring the back- light's current flow, however, the GP may fail to detect this condition, depend- ing on the type of backlight problem, and also the GP may detect the condition before the backlight burns out.

2.2.10 Deleting the touched position (When the GP3200 series is used)

The "+" (cross) cursor appears at the touched position on the screen. You can check for a touch calibration error based on the difference between the "+" cursor position and the drawing position.

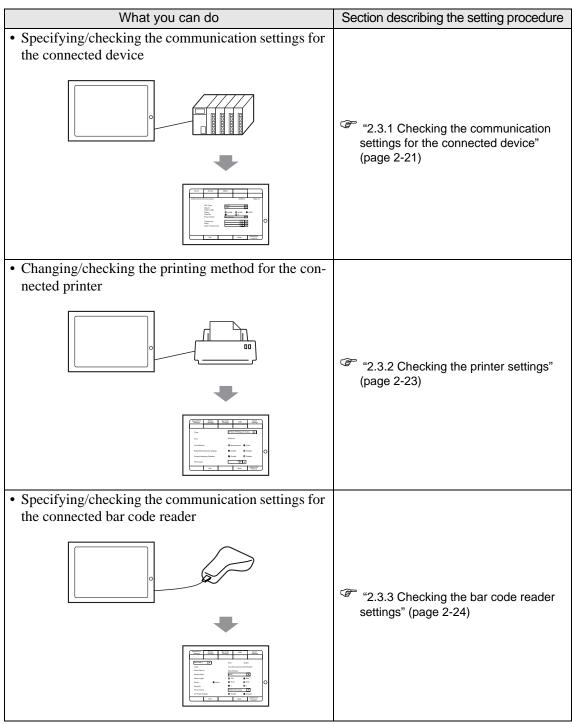
If you wish to hide the cross cursor, perform the following setup procedure to hide the cursor. For details on the setting screen, refer to the setting guide.

[™] "2.15.10 When GP-32** Series is used ◆ [Display Settings]" (page 2-167)

Home Maintenance Menu	Transfer	Peripheral Settings External file operation	Password Settings	Initialization Menu	-			1.	Go to offline mode and touch [Main Unit Settings] on the item
OFFLINE LANG	Home Maintenance	ENGLISH Main Unit Settings	Peripheral Settings External file	Password Settings	Initialization Menu				changeover switch.
Driver Versi Driver Versi	Menu Sc	Transfer reen Settings		System Area S				. 2.	After the [Main Unit Settings] window opens, touch [Display Settings].
OS Version: Save	Dis M S	ettings Se stem Area E1	eration Di sttings Se thernet L	ttings Erro	fenu and Wi r Settings Set xtended Remote	ndow tings Viewer		3.	After the [Display Settings] window opens, select [Disable] for "Display cross-hair cursor".
	Save S	ettings Local evense Display: how Brightness/Co -Script_debug() F isplay cross-hair	intrast Control B unction Feature:	⊖ Enab ar: • Enab	e 🌾 Disabl e 🔹 Disabl e Disabl	e e		4.	Touch [Exit] to use offline mode.
		_	Exit	• Enab		/03/19 43:10			

2.3 Peripheral device settings

You can adjust and check the settings for the peripheral devices.



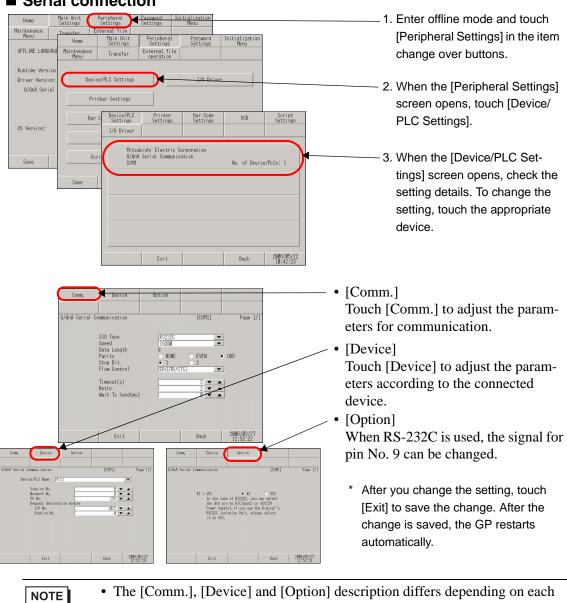
2.3.1 Checking the communication settings for the connected device

You can adjust or check the communication settings for the connected device. The communication settings must be the same as those of the connected device. The items to be selected vary depending on the device being connected.

NOTE

• For more details, refer to the settings guide.

^(C) "2.15.1 Settings common to all Display models ◆ Device/PLC Settings" (page 2-91)



Serial connection

device/PLC series. Please refer to the "GP-Pro EX Device/PLC Connection Manual".

However, [Timeout], [Retry], and [Wait to Send] are recommended to be used with their initial settings.

Ethernet connection

Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu			1. Enter offline mode and touch
Maintenance Menu	Transfer	External file operation Main Unit	Peripheral	Password	Initialization	1	[Peripheral Settings] in the item
OFFLINE LANG Runtime Vers	Home Maintenance Menu	Settings Transfer	Settings External file operation	Settings	Menu		change over buttons.
Driver Versi Q/QnA Seri		ice/PLC Settings inter Settings Device/PLC	Printer	I/O Drive Bar Code	USB	Script	2. When the [Peripheral Settings] screen opens, touch [Device/
OS Version:	Ba	Settings I/O Driver	Settings	Settings	058	Script Settings	PLC Settings].
Save	Save		shi Electric Cor	poration	No, of Device/	PLCs: 1	3. When the [Device/PLC Set- tings] screen opens, check the setting details. To change the setting, touch the appropriate device.
			Exit		Back	2006/05/24 14:46:15	
Comm. De	vice		[UDP]	Page 1/1		•	[Comm.] Touch [Comm.] to specify parame- ters for communication.
Port No Timeout Retry Wait To	(s) Com Send			[U	DP] Pe	• 	[Device] Touch [Device] to specify parame- ters according to the connected device.
E	xit	IP Addree Port No. PC No.	••			*	After you change the setting, touch [Exit] to save the change. After the change is saved, the GP restarts automatically.
		Exi	t	Bac	k 2006/0 14:46	15/24 :31	
NOTE		PLC se Manua Howey	eries. Ple l''. ver, [Tim	ease refer	to the " Retry], ar	GP-Pro	differs depending on each device/ EX Device/PLC Connection t to Send] are recommended to be

2.3.2 Checking the printer settings

This section describes the procedure to check the settings for the printer.

NOTE
 ● For more details, refer to the settings guide.
 ☞ "2.15.1 Settings common to all Display models ◆ Printer Settings" (page 2-92)

	Main Unit	Paninhanal	, Password	Initialization	T	1	. Enter offline mode and touch
Home	Main Unit Settings	Peripheral Settings	Settings	Menu		I	
Maintenance Menu	Transfer	External file operation					[Peripheral Settings] in the item
OFFLINE LANG	JAGE:	ENGLISH]			change over buttons.
Runtime Versi	on:	2.0.0					
Driver Versio		Main Unit	Peripheral	Password	In this I implies		
Q/QnA Seri		Settings	Settings	Settings	Initialization Menu	2	. When the [Peripheral Settings]
	Maintenance Menu	Transfer	External file operation				screen opens, touch [Printer
OS Version:	Dev	ice/PLC Settings		I/O Driv	er		Settings].
	Pr	rinter Settings					
Save	Ra	r Code Settings	1				
		Device/PLC	Printer	Bar Code	USB Script	ر ₃	. When the [Printer Settings]
		Settings	Settings	Settings	USB Settings		screen opens, confirm the set-
		I/O Driver				$\boldsymbol{\lambda}$	tings, or change the setting by
	S	Type:		EPSON	PM/Stylus 6 Colors 🔹 🔻		
							touching the item.
	Save	Port:		Ethern	et		
		Print Method:		C. Mur	ochrome 👁 Color		
		Print Method.		C non	ochrome 💿 Color		
		Black/White Re	everse Display:	💌 Enal	ble 🔿 Disable		
		Screen Hardcop	y Rotation:	🔿 Enal	ble 💿 Disable		
		Print Scale:			3 🗸 🔺		
		C	Exit	•	Back 2006/05/22 10:46:00	4	. Touch [Exit]. When the [Exit]
			Exit		×		dialog box shown on the left
			Offline mode wi	ll be terminated	d and the machine will be d.	/	is displayed, touch [Save
				Is that all	/		changes and exit].
				Save changes :	and ouit		3
		(Save changes a			
				Lose changes a	and exit		
				Cancel	1		
		_	Save File				
			Save File			5	. The [Save File] dialog box is
							displayed and then the GP
				Saving the s	setting.		restarts automatically. The
			Please do NO	T turn off the	machine until complete.		•
							setting is complete.

2.3.3 Checking the bar code reader settings

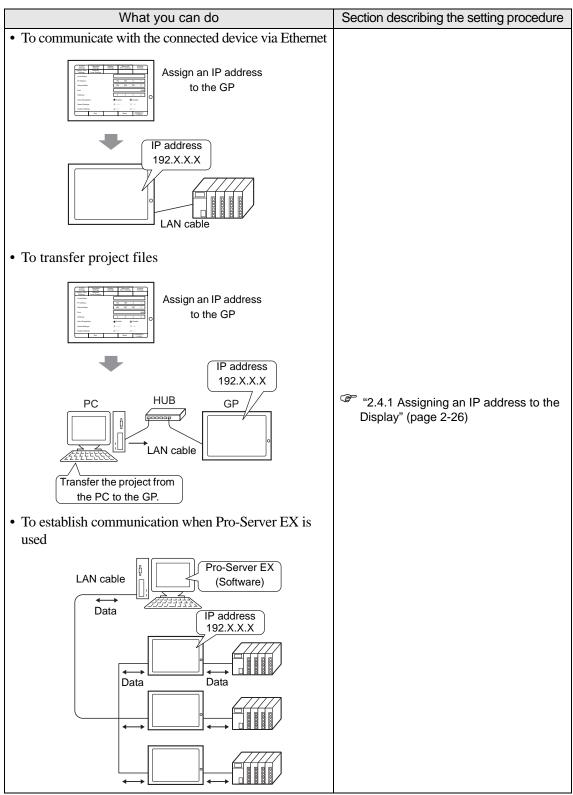
This section describes the procedure to check the settings for the bar code reader.

• For more details, refer to the settings guide. [™] "2.15.1 Settings common to all Display models ◆ Bar Code Settings" (page 2-93)

Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu	<u> </u>	1	. Enter offline mode and touch
Maintenance Menu	Transfer	External file operation			_		[Peripheral Settings] in the item
OFFLINE LANG	UAGE:	ENGLISH	▼]			change over buttons.
Runtime Vers	Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu		
Driver Versi Q/QnA Ser	Maintenance Menu	Transfer	External file operation			2	. When the [Peripheral Settings]
	Devi	ce/PLC Settings		I/O Drive		2	screen opens, touch [Bar Code Settings].
OS Version:	Pri	nter Settings					Octangoj.
Save	Bar	Code Settings					
		USB					
		levice/PLC Settings /O Driver	Printer B Settings S	ar Code Gettings	USB Script Settings	3	. When the [Bar Code Settings] screen opens, confirm the set-
	Save	Bar Code 1	▼	Port:	COM1		tings, or change the setting by
		Type: Save Data in:		Two-Dimens Data Displ	ional Code Reader		touching the item.
		Speed (bps):		9600	ay 🔽		J. J
		Data Length:	~ .	⊖ 7bit	• 8bit		
		Parity: Stop Bit:	 None 	 Even 1 	 Odd 2 		
		Flow Control:		RTS/CTS C			
		5V Power Supply:		🔿 Enable	• Disable		
			Exit 🔶		Back 2006/05/22 10:46:05		
		Exit				<u> </u>	. Touch [Exit]. When the [Exit]
		Offl	ine mode will be	terminated and rebooted.	the machine will be		dialog box shown on the left
		_		that all right	K		is displayed, touch [Save
				e changes and ex e changes and ex			changes and exit].
			LUSE	Cancel	1.		
				ouncer			
		Save	File			5	. The [Save File] dialog box is
							displayed and then the GP
		DI		ving the settin	g. ne until complete.		restarts automatically. The
		PI	ease do NUT TUPP	TOTI UNE MACHIN	e until complete.		setting is complete.

2.4 Ethernet settings

You can assign an IP address to the Display to establish communication for the following purposes.



2.4.1 Assigning an IP address to the Display

This menu is for Ethernet settings. This information is used as setting data during GP setup or projectfile transfer, or, if the Pro-Server EX software is used, for the 2-Way Driver.

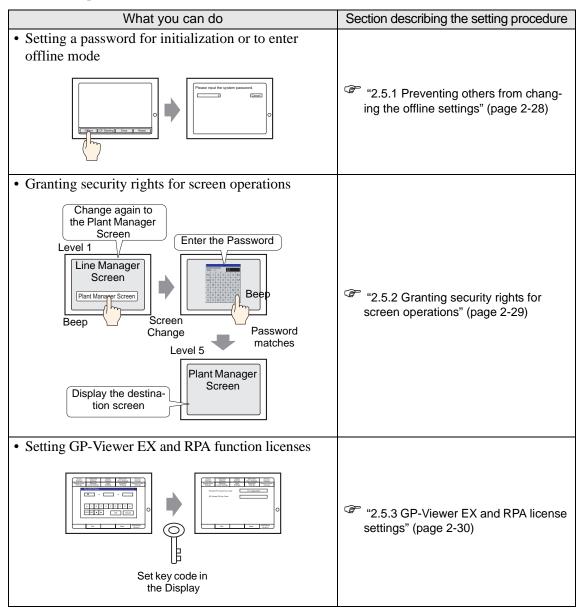
NOTE

For more details, refer to the settings guide.
 [™] "2.15.1 Settings common to all Display models ◆ Ethernet Local Settings" (page 2-85)

Home Main Unit Feripheral Password Initialization Settings Settings Menu Maintenance Transfer External file operation OFFLINE LANGUAGE: ENGLISH	1. Enter offline mode and touch [Main Unit Settings] in the item changeover buttons.
Runtime V Home Main Unit Peripheral Password Initialization Driver Ve Maintenance Transfer External file Menu 0/QnA s Menu Transfer External file 0/QnA s Screen Settings System Area Settings 0S Versice Operation Settings Ethernet Local Settings	2. When the [Main Unit Settings] screen opens, touch [Ethernet Local Settings].
Display Settings Sove Menu and Error Settings Settings Operation System Area Ethernet Save Local Name: IP Address: 192 Sottings Settings Port: Screen Settings Display Port: Screen Settings Local Name: IP Address: 192 Settings Error Settings Settings Settings Settings Error Settings Settings Local Name: IP Address: IP Address: Operation Display Menu and Window Settings Local Settings Auto R Local Name: Speed Duplex Duplex Subnet Mask: Subnet Mask: 2 Operation 192 B B	3. The [Ethernet Local Settings] screen opens. Touch the IP address input field to display the numeric touch keys and then enter an IP address (Example: 192.168.0.1). For the IP address setting method, con- sult the network administrator.
Subnet Pask: 7 8 9 235 235 255 8 Port: 4 5 6 ENT 8 8 8 Gateway: 4 5 6 ENT 8 8 8 Autor Screen Operation Display Menu and Window System Area Ethernet Settings Ethernet Duplex Local Name: 1 1 1	 Specify [Subnet Mask], [Port]^{*1}, and [Gateway] using the same procedure.
IP Address: 192 168 0 1 Subnet Mask: 255 255 255 0 Port: 8000 8 0 0 Bateway: 0 8 0 0 Auto Recognition: • Enable Disable Speed Settings: • 10M Duplex Settings: • 1001 • Full 8 2806/85/22 Exit Back 2806/85/22 82:02:19	*1. The port No. specified here is the one used for setup via Ethernet, for the transfer of project files, and for communi- cation when Pro-Server EX is used. Do not change it from the initial value [8000].
	5. Touch [Exit] and save the change. The GP restarts auto- matically.

2.5 Password and license settings

You can set a password to enter offline mode, initialize the memory/CF card, or perform screen operations.



2.5.1 Preventing others from changing the offline settings

The password setting is used when changing to the Initialize Memory or OFFLINE mode Screens.

NOTE

Maintenance Transfer Exten Menu Dransfer ope	ipheral Password Litalization ttings Settings Plenu ration	1. Enter offline mode and touch [Password Settings] in the item change over buttons.
OFFLINE LANGUAGE: Home Main Ur Runtime Maintenance Transf Driver V 0/OnA System Passwo	ss Settings Settings Menu er External file operation	2. When the [Password Settings] screen opens, touch [System
OS Versi Security Password Password	Securi ty Password	Password].
Save Please inp	t the CLR ESC 7 8 9 4 5 6 ENT System Password Password	3. The [System Password] screen opens. Touch the input field and enter a password using the displayed numeric touch keys. (Example: 1234)
	Please input the Please input the 4 5 6 1 2 3 ENT	1234 4. Enter the password again for confirmation.
	0 +/- BS Save Paseword	5. When the [Save Password] dialog box is displayed, touch [Yes]. The GP restarts auto- matically and the setting is complete.

2.5.2 Granting security rights for screen operations

If the password of a level 15 is inputted, the password from level 1 to level 15 can be changed. In case the password of each level is changed, after inputting the password set up now is entered.

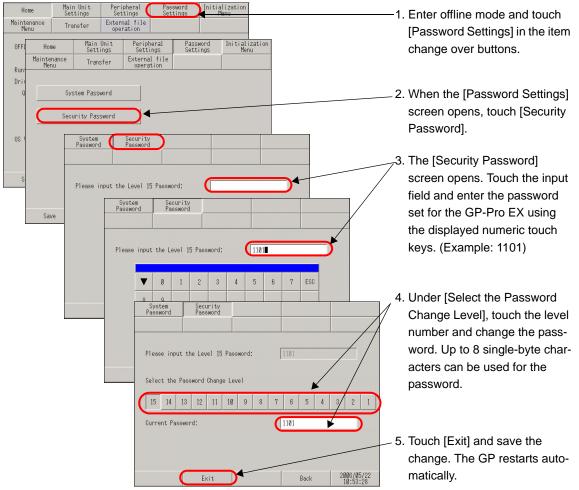
NOTE	 For more details, refer to the settings guide. "2.15.1 Settings common to all Display models Security Password" (page 2-96)
	• When the security password of a level 15 is not set up with GP-Pro EX, set-

ting change of a security password cannot be performed in offline mode. GP-Pro EX Reference Manual "22.3 Limiting Screen Access by Authority" (page 22-8)

■ Setting with GP-Pro EX

- 1. With GP-Pro EX, select [Security Settings(O)] [Security Password(P)] from the [Common Settings(R)] menu. When the password setting screen opens, check [Enable Security Function] and specify a password in [Level 15].
- 2. Transfer the project file specified in step 1 to the GP.

Changing settings in offline mode



2.5.3 GP-Viewer EX and RPA license settings

Set the license required to use the RPA and GP-Viewer EX functions.

- For more details, refer to the settings guide. [©] "2.15.1 Settings common to all Display models ◆ Extended Settings" (page 2-86)
 - To use the RPA function and GP-Viewer EX function, you must purchase RPA dedicated key codes (model: EX-RPA) and GP-Viewer EX dedicated key codes (model: EX-VIEWER-LICENSE) in advance.

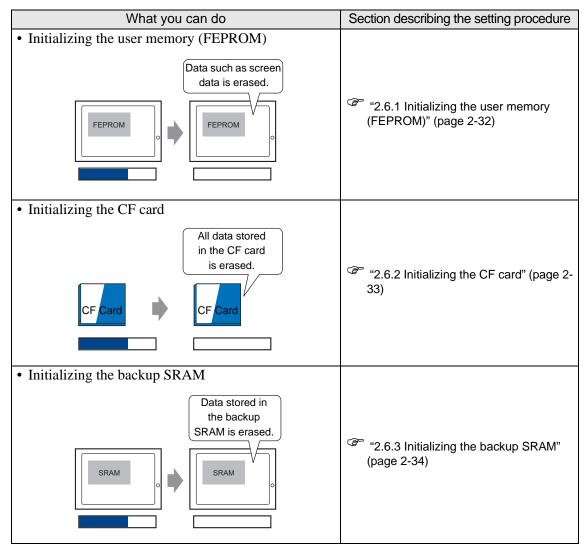
Home Kitring Control C	1. Enter offline mode and touch [Main Unit Settings] in the item changeover but- tons.
Original Period Main Unit Period Period O/ Maintenance Transfer External File Maintenance Transfer External File OS W Screen Settings System Area OB V Screen Settings Logic Settings Display Ethernet Logic Menu and Error Settings Display Menu and Settings Menu and Settings	2. When [Main Unit Settings] opens, touch [Extended Settings].
Soverninge Derivinge Local Settinge Collections Discover Barrier Vices Soverninge Local Settinge Setti	 3. When [Extended Settings] opens, touch the [Remote PC Access Key Code] input frame to display the numeric keypad. When the numeric keypad appears, enter a key code and touch [OK]. (Example: [Remote PC Access Key Code] 1111-2222-3333) 4. When you touch [Exit] to save the changes, GP is automatically restarted.

NOTE

- When you have set the GP-Viewer EX and RPA licenses, set each function using GP-Pro EX. For information about the setting procedure and details of each function, refer to the following:
- ^{CP} RPA function GP-Pro EX Reference Manual "36.3.2 Setup Procedure" (page 36-6)
- GP-Viewer EX function GP-Pro EX Reference Manual "37.4.2 Setup Procedure" (page 37-12)

2.6 Initialization of the memory/CF card

You can initialize the data in the memory or CF card. The following initialization functions are available.



2.6.1 Initializing the user memory (FEPROM)

Deletes all data in GP user memory (FEPROM).

NOTE	 For more details, refer to the settings guide. ^{GP} "2.15.1 Settings common to all Display models ◆ Initialize User Memory" (page 2-97) The time required for Initialization is between 10 and 20 seconds. 				
IMPORTANT	• You cannot cancel the Initialization procedure after pressing the [Start] key.				

- You cannot cancel the Initialization procedure after pressing the [Start] key. Do not turn OFF the power during initialization.
 - All backed up data in SRAM is lost.
 - Initialization does not erase the SYSTEM SET UP, the SIO protocol, or the internal clock settings.
 - All data retained by the logic program is also erased.

Home	Main Unit Peripheral Password Initialization Settings Settings Settings Menu	1. Enter offline mode and touch [Ini-
Maintenance Menu	Transfer External file operation	tialization Menu] in the item
OFFLINE L	Home Main Unit Peripheral Password Initialization	change over buttons.
	Maintenance Transform External file	Ŭ
	Menu Transfer operation	
Driver Ve Q/QnA S	Initialize User Memory	2. When the [Initialization Menu]
		screen opens, touch [Initialize
	Initialize CF Card Initialize Initialize Initialize	User Memory].
OS Versio	User Memory CF Card Backup SRAM	
Save	Warning: All the first.	3. The [Initialize User Memory]
oave	Please input the CLR ESC is the Start switch.	screen opens. Touch the input
	7 8 9 110	field and use the displayed
	Sav Initialize Initialize User Memory OF Card Backup SRAM	numeric touch keys to enter
		[1101] (only when the system
		password has not been set) or
	Warning: All the previous Project File will be lost. Please input the system password and press the Start s	the password set in the System
	riedse riput the system password and press the start s	1101 Password]
		4. Touch [Start].
	Start	4. Todon [otarij.
		5. The message [Is that really all
		right?] appears. Touch [Yes].
	Is that really all right?	
		6. When a message indicating the
	Yes Yes	completion of the initialization
	Now Initi	alizing / appears, touch [Close].
	Initiali	ze User Memory
		Initialization has been completed.
		Close

2.6.2 Initializing the CF card

Deletes all data in the CF Card installed in the GP.

• Initialization cannot be canceled once the [Start] key is touched. Do not turn OFF the power during initialization.

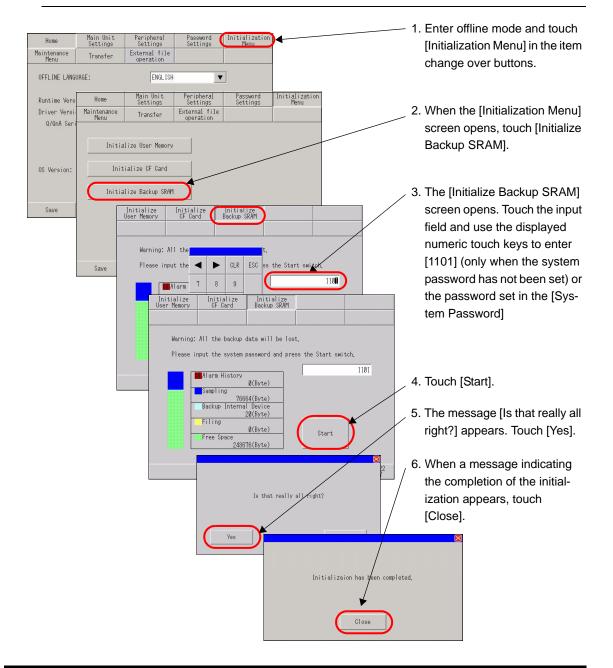
Home	Main Uni Setting		Settings	Initializat Menu	i on		1.	. Enter offline mode and touch [Ini-		
Maintenan Menu	ce Transfe	External fi.	le				tialization Menu] in the item			
OFFL INE	Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu	۱		change over buttons.		
Runtime	Maintenance Menu		External file operation							
Driver V Q/QnA	Initia	lize User Memory					2.	When the [Initialization Menu]		
OS Versi		ialize CF Card lize Backup SRAM						screen opens, touch [Initialize CF Card].		
		alize Initia Memory CF Ca	ilize Initia ard Backup	alize • SRAM						
Save		Warining: All th		11 be los			3.	. The [Initialize CF Card] screen opens. Touch the input field and		
	Sa	Please input the — —	 CLR 8 9 	ESC ss the St	art switch. 11			use the displayed numeric touch keys to enter [1101] (only when		
		Initialize User Memory	Initialize CF Card	Initialize Backup SRAM				the system password has not been set) or the password set in		
		Warining:	All the data in	n the CF card wi	l be lost.			the [System Password]		
		Please in	put the system p	password and pre	ss the Start s	witch.				
		_			J					
				\frown				T 10, 1		
				Start			4.	. Touch [Start].		
						2006/05/22 02:05:19	5.	. The message [Is that really all		
			l≎ that	really all right?				right?] appears. Touch [Yes].		
			Yes	Initialize CF Car	d		6.	. When a message indicating the		
					Now Initiali	zing		completion of the initialization appears, touch [Close].		
						Initialize CF Card				
					C	Initiali:	zation has been co	mpleted,		
					ſ					
							Close			

2.6.3 Initializing the backup SRAM

Deletes all data in GP's backup SRAM.

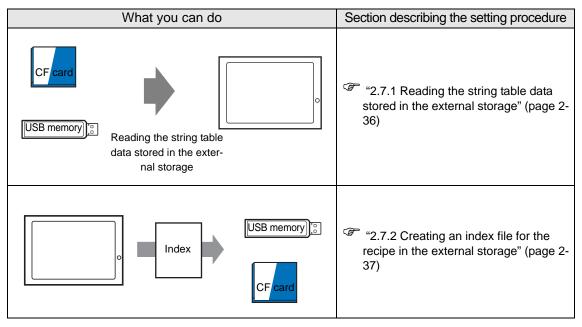
MPORTANT • You cannot cancel the Initialization procedure after pressing the [Start] key. Do not turn OFF the power during initialization.

- All backed up data in SRAM is lost.
- Initialization does not erase the SYSTEM SET UP, the SIO protocol, the internal clock settings or the data retained by the logic program.



2.7 External file operation

You can retrieve the string table data stored in the external storage, or you can create an index file for the recipe in the external storage.



2.7.1 Reading the string table data stored in the external storage

Save the string table data created with GP-Pro EX into the external storage and then read it with the GP. You can change name plate characters or alarm messages without transferring the project file.

NOTE

Transfer

Hom

Mainten

Maintena Menu

OFFLINE LANGUAGE:

Runtime Version:

Driver Version: 0/OnA Serial Co

OS Version

Peripheral

ENGL ISH

2.0.0

Main Unit Settings

Transfer

oad String Table CSV Data Index Password Settings

ring Table CSV Data Index Load

Load File on Startup:

Auto Delete External File Manually Load :

Start

Update Text Table Load:

¥

Initializati

USB Stora

2801/84/2 #6:18:32

Back

4

V1. 10. 02

- 1. Enter offline mode and touch [External file operation] in the item changeover buttons.
 - -2. When the [External file operation] screen opens, touch [Load String Table].
 - 3. Specify parameters to read the string table data stored in the external storage.

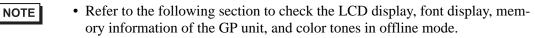
2.7.2 Creating an index file for the recipe in the external storage

Create an index file for the recipe function and store it in the external storage.

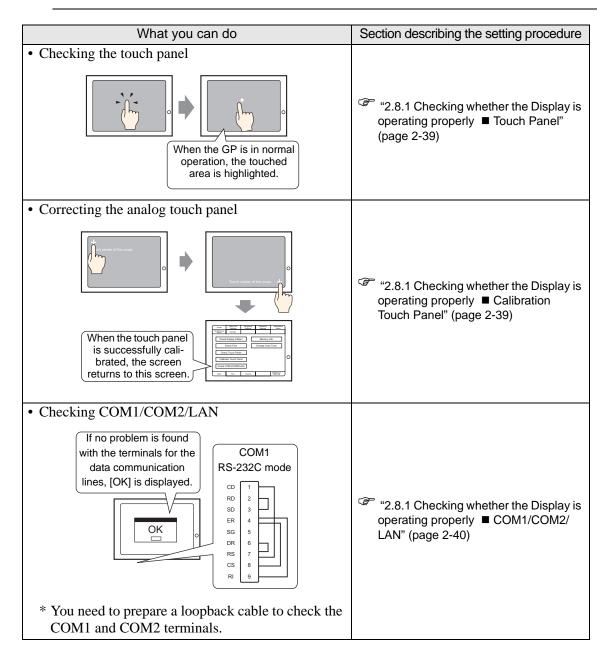
- NOTE
 For more details, refer to the settings guide.
 ☞ "2.15.1 Settings common to all Display models ◆ CSV Data Index" (page 2-107)
 If an index file already exists in the external storage, its data will be overwritten.
- 1. Enter offline mode and touch [External Maintena Menu file operation] in the item changeover Transfer OFFLINE LANGUAGE: ENGLISH ¥ buttons. Runtime Version: 2.0.0 Driver Version 0/OnA Serial Communication V1. 10. 02 2. When the [External file operation] Main Unit Settings Initializati Menu Maintena Menu screen opens, touch [CSV Data Index]. Transfer OS Version Load String Table CSV Data Inde ring Table CSV Data Index 3. Select the destination to store the index file and touch [Start]. Update Text Table USB Storag Load: Load File on Startup: Enable Disable Enable ● Disable Auto Delete External File Manually Load Start Exit Back 2801/04/27 06:18:32

2.8 Operation check of the Display

You can check the following items to ensure proper operation of the Display.



^C "2.15.1 Settings common to all Display models ■ [Maintenance Menu] Settings Guide" (page 2-99)



2.8.1 Checking whether the Display is operating properly

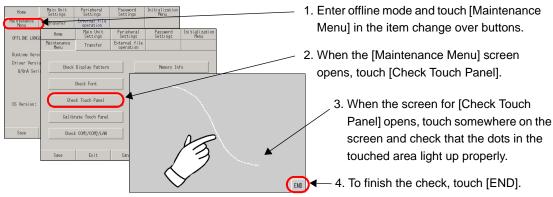
You can check whether the system and interfaces of the GP are operating properly. This section describes the procedures for [Check Touch Panel], [Calibrate Touch Panel], and [Check COM1/COM2/LAN].

• Refer to the following section to check the LCD display, font display, memory information of the GP unit, and color tones in offline mode. ^(C) "2.15.1 Settings common to all Display models ■ [Maintenance Menu] Settings Guide" (page 2-99)

Touch Panel

It is the check of touch panel. Check the touched part lights up correctly.

NOTE	• For more details, refer to the settings guide.
ن <u>سمم</u> ا	"2.15.1 Settings common to all Display models

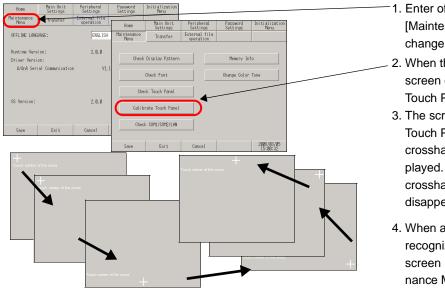


Calibration Touch Panel

Correct an analog touch panel. (setup of a calibration)

NOTE

- For more details, refer to the settings guide.
- ⁽⁽⁽)</sup> "2.15.1 Settings common to all Display models ♦ Calibrate Touch Panel" (page 2-101)



- 1. Enter offline mode and touch [Maintenance Menu] in the item change over buttons.
- 2. When the [Maintenance Menu] screen opens, touch [Calibrate Touch Panel].
- 3. The screen for [Calibrate Touch Panel] opens and a crosshatch symbol is displayed. Touch and hold the crosshatch continuously until it disappears.
- 4. When all crosshatches are recognized successfully, the screen returns to the [Maintenance Menu] screen.

COM1/COM2/LAN

Check the sending and receiving line of RS-232C, RS-485 and LAN. Usually when abnormality occurs, it checks. It selects check item from the menu.

When it checks RS-232C and RS-422, connection of the SIO cable is necessary.

COM2

2

3

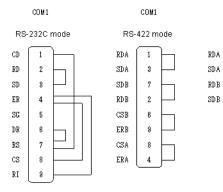
7

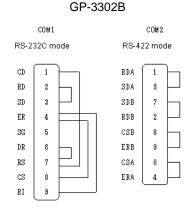
8

Preparing a loopback cable

You need to prepare a loopback cable to check COM1/COM2/LAN. The wiring of the loopback cable is as follows:

GP3000 series (except for GP-3302B)





Check

Connect the loopback cable to one of the interfaces and check the operation. When the operation is acceptable, [OK] is displayed. When there is a problem, [NG] is displayed.



• For more details, refer to the settings guide. ⁽²⁾ "2.15.1 Settings common to all Display models ◆ Check COM1/COM2/LAN" (page 2-102)

Home Main Unit Peripheral Password Initialization Methods Settings Settings Menu	1. Enter offline mode and touch [Mainte-
Menu operation	nance Menu] in the item change over
Home Main Unit Settings Peripheral Settings Password Settings Initialization Menu Maintenance Transfer External file Menu	buttons.
Menu Induster operation	2. When the [Maintenance Menu] screen
Check Display Pattern Memory Info	opens, touch [Check COM1/COM2/
Check Font Change Color Tone	LAN].
Check Touch Panel Check Font Touch	Fanel Touch Panel COMI/COMP/LAN 3. The screen for [Check COM1/COM2/
Calibrate Touch Panel	LAN] opens. Select the interface to be
Check COMI/COM2/LAN	checked. (Example: COM1/RS232C)
	4. When a message similar to the one
Save Exit Check R52320	shown in the figure is displayed, connect
	the loopback cable and touch [Start].
Please conne Check K5202C	
	O K 5. When there is no problem, [OK] is dis-
Start	played. When an error occurs, [NG] is
	displayed. Touch [Close] to finish the
	check.

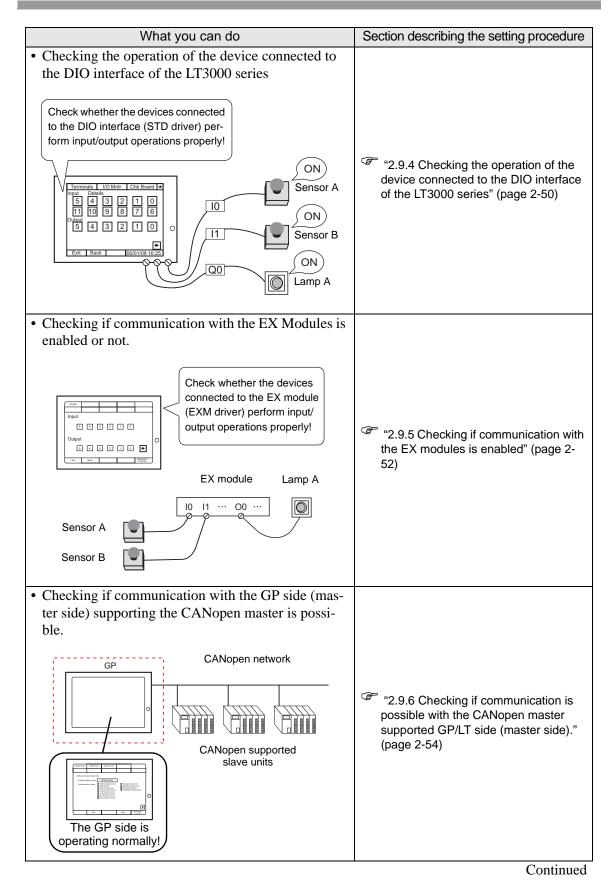
Maintenance/Troubleshooting

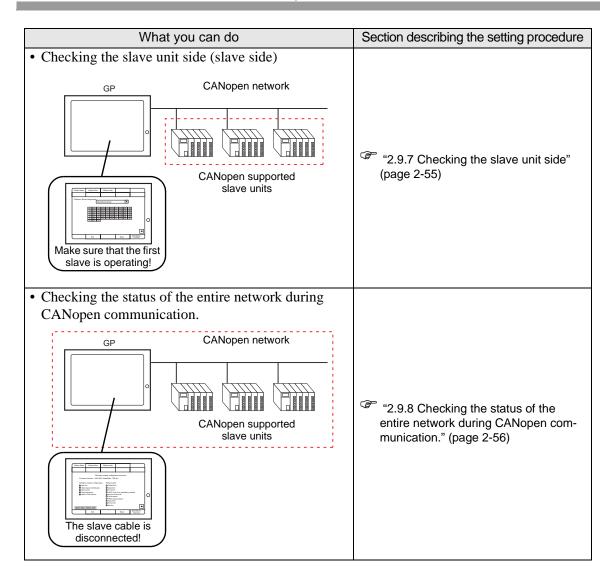
2.9 Operation (communication) check of the logic functions

You can check whether the logic program is operating properly, and whether the device connected to the DIO board type GP3000 series or FLEX NETWORK unit is operating properly.

What you can do	Section describing the setting procedure
• Monitoring the logic program You can check the status of the logic program operation and the variables used in the instruction.	^C ^C "2.9.1 Checking whether the logic pro- gram is operating properly ■ Logic- Monitor" (page 2-44)
Monitoring the addresses of the variables used in the logic program	^C "2.9.1 Checking whether the logic pro- gram is operating properly ■ Address- Monitor" (page 2-45)
Checking the operation of the device connected to the DIO board type GP3000 series Check whether the devices connected to the DIO board perform input/output operations properly! Sensor A ON Sensor B ON Lamp A	"2.9.2 Checking whether the DIO interfaces of the Display turn ON/OFF properly" (page 2-46)
Checking the operation of the device connected to the FLEX NETWORK unit Check whether the devices connected to the FLEX NETWORK unit perform input/out- put operations properly! FLEX NETWORK unit Lamp A Sensor A Sensor A Sensor B	"2.9.3 Checking the communication with the FLEX NETWORK" (page 2- 48)

Continued





2.9.1 Checking whether the logic program is operating properly

Check whether the logic program is operating properly on the GP, or check the instructions in the logic program. You can also check whether the logic program is operating properly and view a list of the variable names used in the logic program and their current values.

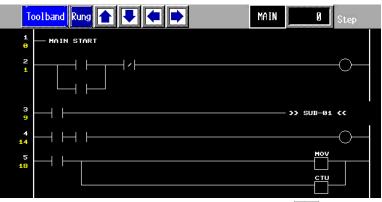
LogicMonitor

The entire logic program is monitored. You can use Logic Monitor to check the status of the program operation and the variables used in the instruction.

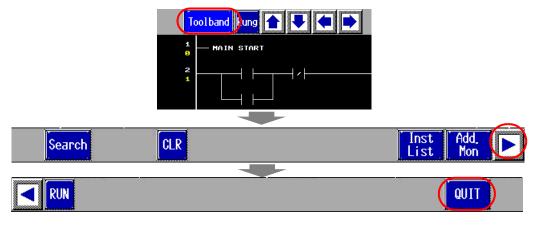
- 1 Transfer the logic program (project file) to the GP/LT.
- 2 Touch either the upper right corner and then the lower left corner, or the upper left corner and then the lower right corner on the panel to display the offline system menu. Touch the [LogicMonitor] switch from the third menu.



3 When the [LogicMonitor] switch is touched, the following screen appears. You can check whether the transferred logic program is operating properly.



4 To exit Logic Monitor, touch [Toolband] and then touch **[**UIT] to return to the RUN screen.

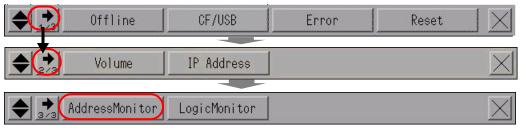


AddressMonitor

The variables used in the logic program are monitored. You can check the names and current values of the variables. When [Address Format] is used in the logic program, the addresses and current values can be checked.

NOTE	• Even when the model does not support a logic program or when a logic
	program is not used, Address Monitor is available as long as the variables for
	the symbol variable are registered.

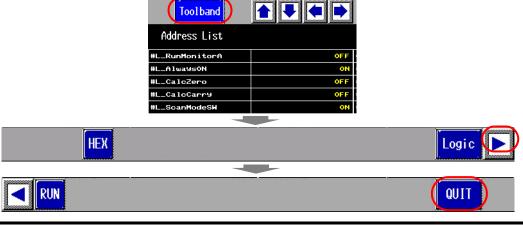
1 Touch either the upper right corner and then the lower left corner, or the upper left corner and then the lower right corner on the panel to display the offline system menu. Touch the [AddressMonitor] switch from the third menu.



2 The following screen appears, showing the names of the variables specified in the transferred project file as well as their current values.

Toolband		MAIN	0 Step
Address List			1 / 2
#L_RunMonitorA	OFF	#L_AvgScanTime	8
#L_AlwaysON	ON	#L_MinScanTime	8
#L_CalcZero	OFF	#L_MaxScanTime	8
#L_CaloCarry	OFF	#L_ScanCount	8
#L_ScanModeSH	ON	#L_LogicTime	8
#L_AutoRunSH	OFF	#L_Av9Lo9icTime	8
#L_InOutSW	OFF	#L_MinLogicTime	8
#L_FaultRunSH	OFF	#L_MaxLogicTime	8
#L_UnlatchClear	OFF	#L_Status	33792
#L_LatchClear	OFF	#L_Platform	132884
#L_Clock100ms	OFF	#L_Version	1633
#L_Clock1sec	ON	#L_EditCount	8
#L_Clock1min	ON	#L_I0Info[0]	8
#L_ErrCtr1HW	OFF	#L_ConstantScan	100
#L_IOFaultE01	OFF	#L_PercentScan	58
#L_BatteryErr	OFF	#L_HatchdogTime	5000
#L_Error	OFF	#L_AddressRefreshTi	1994
#L_StoPPending	OFF	#L_Time	4185

3 To exit Address Monitor, touch [Toolband] and then touch **[**QUIT] to return to the RUN screen.



2.9.2 Checking whether the DIO interfaces of the Display turn ON/OFF properly

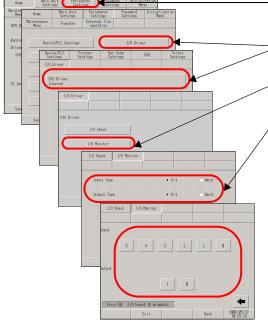
Checking proper I/O operation

Check whether the device connected to the DIO board performs input/output operations properly in order to determine whether the problem is in the GP/LT or not.



• For more details, refer to the settings guide.

^C "2.15.2 When the DIO board type GP3000 series is used ◆ I/O Driver (I/O Monitor)" (page 2-113)



- 1. Enter offline mode and touch [Peripheral Settings] in the item change over buttons.
- 2. When the [Peripheral Settings] screen opens, touch [I/O Driver] and then [DIO Driver].
- 3. When the [I/O Driver] screen opens, touch [I/O Monitor].
- 4. Select data type from [Bit] and [Word] for input and output respectively. (Example: To select bit for both input and output)
- 5. The input/output bit display screen opens. [Input] indicates the current ON/OFF status. At [Output], touching the item toggles the status between ON and OFF. If the device connected to the DIO board performs properly, please check the settings of the project file on GP-Pro EX. If not, please check the cable connection is correct first and continue to check the next item.

Checking the internal terminals

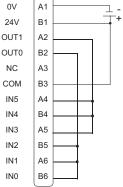
You need to prepare a loopback cable to check the internal terminals. Prepare the loopback cable according to the following instructions.

Preparing the loopback cable

The wiring of the loopback cable is as follows:

Sink type

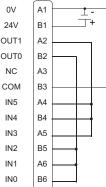
Example: To check three terminals at a time, from OUT0 to IN0 through IN2, and from OUT1 to IN3 through IN5



Continued

• Source type

Example: To check three terminals at a time, from OUT0 to IN0 through IN2, and from OUT1 to IN3 through IN5

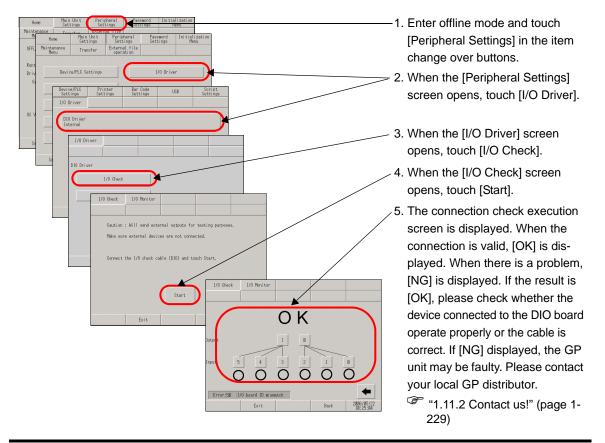


I/O Check

Connect the loopback cable to the DIO board, send data from the two output terminals to the six input terminals, and compare the input and output data. When the data matches with the expected value, [OK] is displayed on the screen. When the data does not match with the expected value, [NG] is displayed. The connection can be checked based on this result.

NOTE

For more details, refer to the settings guide.
 [☞] "2.15.2 When the DIO board type GP3000 series is used ◆ I/O Driver (I/O Check)" (page 2-112)



2.9.3 Checking the communication with the FLEX NETWORK

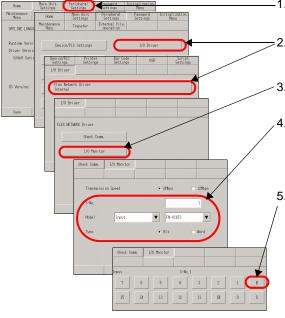
Checking proper I/O operation

NOTE

Check whether the device connected to the FLEX NETWORK board performs input/output operations properly in order to determine whether the problem is in the GP or not.

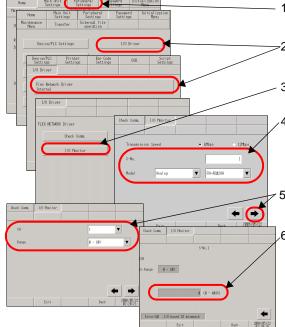
[™] "2.15.3 When the FLEX NETWORK unit is used ◆ I/O Monitor" (page 2-119)

When DIO (Example: FN-X16TS) is used



- -1. Enter offline mode and touch [Peripheral Settings] in the item change over buttons.
- 2. When the [Peripheral Settings] screen opens, touch
 [I/O Driver] and then [FLEX NETWORK Driver].
- 3. When the [I/O Driver] screen opens, touch [I/O Monitor].
- The [I/O Monitor] screen is displayed. Set [Transmission Speed], [S-No.], [Model], and [Type]. (Example: S-No.: 1, Model: Input FN-X16TS, Transmission Speed: 6Mbps, Type:Bit)
- 5. The bit monitor screen is displayed, showing the ON/ OFF status. A protruded switch indicates OFF and a depressed switch indicates ON. If the device connected to the DIO board performs properly, please check the settings of the project file on GP-Pro EX. If not, please check the cable connection is correct first and continue to check the next item.

♦ When an analog unit (Example: FN-AD02AH) is used



- 1. Enter offline mode and touch [Peripheral Settings] in the item change over buttons.
- 2. When the [Peripheral Settings] screen opens, touch [I/ O Driver] and then [FLEX NETWORK Driver].
- 3. When the [I/O Driver] screen opens, touch [I/O Monitor].
- The [I/O Monitor] screen is displayed. Set [Transmission Speed], [S-No.], [Model], and [Type]. (Example: S-No.: 1, Model: Analog FN-AD02AH, Transmission Speed: 6Mbps)
- 5. Touch this switch to go to the next screen and set [CH] (channel) and [Range].
- .6. The input monitor screen is displayed. The input status is indicated with an integer value. If the device connected to the DIO board performs properly, please check the settings of the project file on GP-Pro EX. If not, please check the cable connection is correct first and continue to check the next item.

[•] For more details, refer to the settings guide.

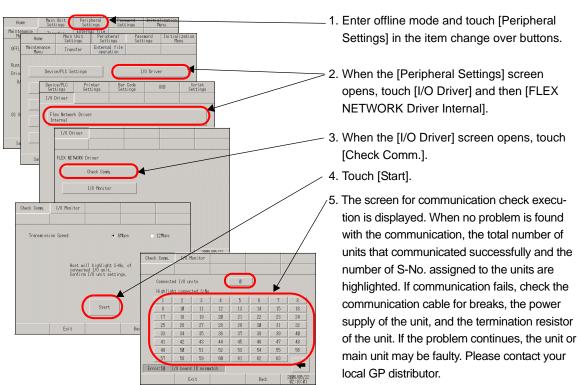
Checking communication to ensure proper cable connection

Check whether the FLEX NETWORK unit connected to the FLEX NETWORK board can communicate properly.



• For more details, refer to the settings guide.

[™] "2.15.3 When the FLEX NETWORK unit is used ◆ Check Comm." (page 2-118)



⁽³⁷⁾ "1.11.2 Contact us!" (page 1-229)

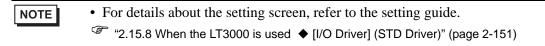
* The following list shows the I/O units supported by the communication check. (Example: When setting FN-X16TS(1),1 S-No.1 and FN-XY32SKS (4),1,S-No.2, S-no.1 to 5 are highlighted on the screen above.)

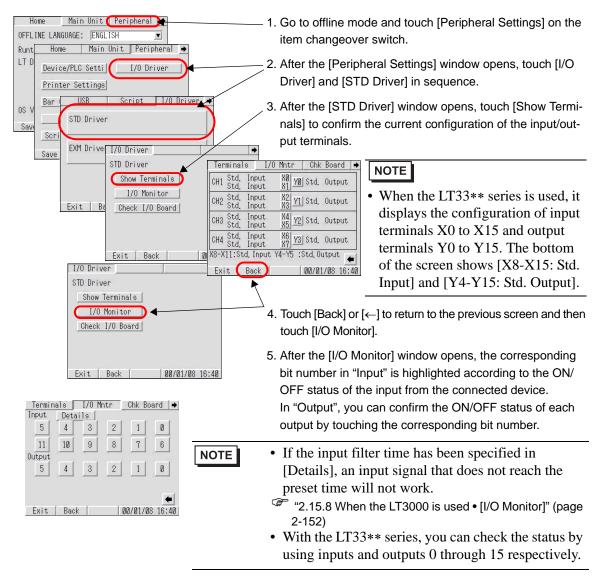
Туре	Model	No. of stations to be occupied
	FN-X16TS	1
	FN-X32TS	2
	FN-Y08RL	1
	FN-Y16SK	1
DIO	FN-Y16SC	1
	FN-XY08TS	1
	FN-XY16SK	1
	FN-XY16SC	1
	FN-XY32SKS	4
	FN-AD02AH	1
Analog	FN-AD04AH	4
Analog	FN-DA02AH	1
	FN-DA04AH	4
High Speed Counter Unit	FN-HC10SK	8
Single-Axis Positioning Unit	FN-PC10SK	4

2.9.4 Checking the operation of the device connected to the DIO interface of the LT3000 series

■ Check if the input and output operate normally.

Check the input and output of the LT series DIO interface to judge whether the problem is caused by the settings of the GP-Pro EX or of the LT series.





6. If the connected device is operating normally, check the project file settings in GP-Pro EX. If the connected device does not operate normally, check the wiring between the LT series and the connected device, and then check the following items.



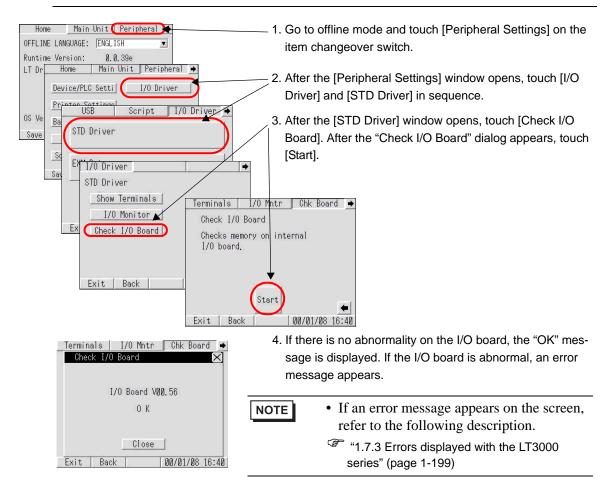
• If an error message appears on the screen, refer to the following description. ** "1.7.3 Errors displayed with the LT3000 series" (page 1-199)

Checking the I/O board

NOTE

Check the I/O board in the LT series to find an abnormality in the main unit.

For details about the setting screen, refer to the setting guide.
 "2.15.8 When the LT3000 is used • [Check Board]" (page 2-153)



2.9.5 Checking if communication with the EX modules is enabled

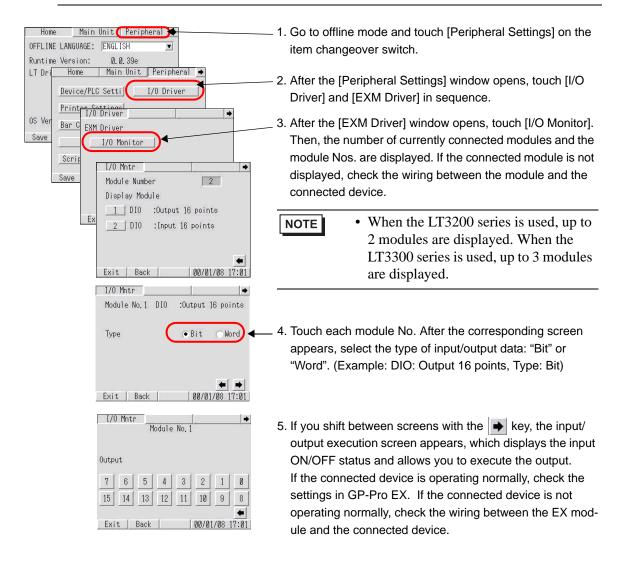
Check if the EX modules are connected normally to the LT series and check if the input and output of the device connected to the EX modules are operating normally, to judge whether the problem is caused by the settings of the GP-Pro EX or of the LT series.

When the DIO module is used:

NOTE

• I/O check is enabled only with the EX module that has been specified in GP-Pro EX.

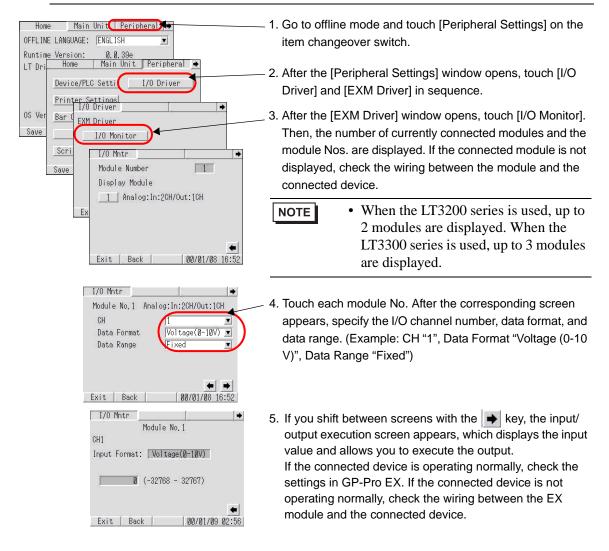
- For details about the setting screen, refer to the setting guide.
- "2.15.8 When the LT3000 is used [I/O Monitor] (DIO settings)" (page 2-154)



■ When the analog module is used:

NOTE

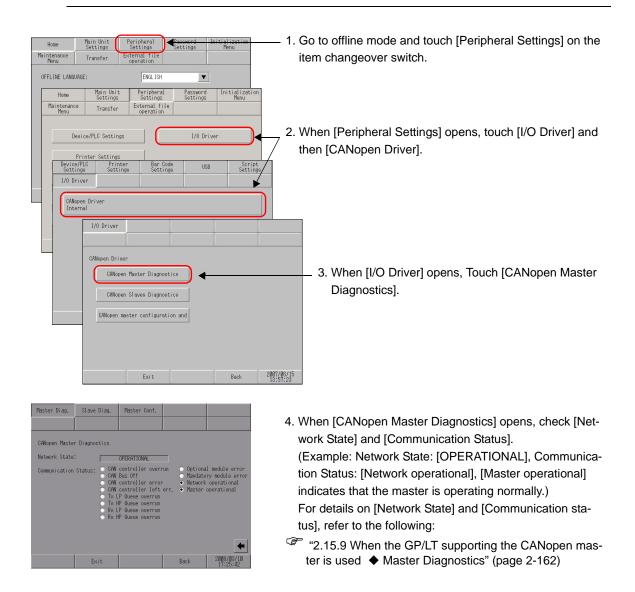
- I/O check is enabled only with the EX module that has been specified in GP-Pro EX.
- For details about the setting screen, refer to the setting guide.
- "2.15.8 When the LT3000 is used [I/O Monitor] (Analog settings)" (page 2-156)



2.9.6 Checking if communication is possible with the CANopen master supported GP/LT side (master side).

Check if the master side can accept communication when the slave is connected to the master.

• For details about the setting screen, refer to the setting guide. NOTE "2.15.9 When the GP/LT supporting the CANopen master is used Master Diagnostics" (page 2-162)



2.9.7 Checking the slave unit side

Check if the slave side can accept communication when the slave is connected to the master.

NOTE	• For details about the setting screen, refer to the setting guide.
	"2.15.9 When the GP/LT supporting the CANopen master is used Slave Diagnostics" (page 2-164)

Home Maintenance Menu OFFLINE LANGUAG	Settings Transfer ^{Ex}	Peripheral Settings ternal file operation ENGLISH	Password Ini Bettings	tialization Menu	— 1		o to offline mode and touch [Peripheral Settings] on the em changeover switch.
Home Maintenance Menu	Main Unit Settings Transfer	Peripheral Settings External file operation	Password Settings	Initialization Menu			
		Bar Code Settings	1/0 Driver	Script Settings			/hen [Peripheral Settings] opens, touch [I/O Driver] and nen [CANopen Driver].
GANope	en Driver nal I/O Driver)		
	CANopen	Master Diagnosti Slaves Diagnosti ter configuratio					 3. When [I/O Driver] opens, Touch [CANopen Slaves Diagnostics].
		Exit		Back	2007/06/ 13:57:2	/15	

CANopen	Master	CAN	open	Slave	s	CANopen	mast	.er			_			
CANoper	n Slaver	01 11 21 31	82 12 22 32	Oper Assi Conf Faul Emer	gned i gur ty s genc	onal sis Slaves red siav slaves sy siave Slaves	es s			C				
Error:	CANop											•		
				01 11 21 31 41 51 61	82 12 22 32 42 52 62	03 13 23 33 43 53 63	84 14 24 34 44 54	05 15 25 35 45 55	06 16 26 36 46 56	07 17 27 37 47 57	08 18 28 38 48 58	89 19 29 39 49 59	10 20 30 40 50 60	
	Erro	r:132	Me	ister	al o Exi						Back	:	2001	4 9:30

 When [CANopen Slaves] opens, select the slave status you want to check by touching v. The numbers of slaves that are in the selected status are displayed in reverse video.

(Example: One module is operating.)

2.9.8 Checking the status of the entire network during CANopen communication.

Check the status of the entire network during CANopen communication.

• For details about the setting screen, refer to the setting guide. ^(C) "2.15.9 When the GP/LT supporting the CANopen master is used ◆ Master configration and events" (page 2-165)

Maintenance Transfer External file operation item changeover switch.	
OFFLINE LANGUAGE: ENGLISH The English of the englis	
Device/PLC Settings 1/0 Driver 2. When [Peripheral Settings] opens, Printer Settings Printer Settings Bar Code Settings VID Briver 2. When [CANopen Driver].	touch [I/O Driver] and
CANopen Driver Internal I/O Driver Internal Inter	
CANopen Driver CANopen Master Diagnostics CANopen Slaves Diagnostics CANopen master configuration and CANopen master configuration and CANopen master configuration and CANopen Master Diagnostics	uch ICANopen master
Exit Back 2987/06/15	

Master Diag,	Slave Diag,	Master Conf.
	Master	Configuration & Events
Firmware V	/ersion : V001.1	02 / BaudRate : 250 kb / Node ID : 127
 Master Start s Master CANoper 	slaves individua starts up itsel	f C Error control event slavesC cDCF error of a mandatory module
Error:132 M	aster alone	•
	Exit	Back 2008/03/10 17:35:09

4. When [Master Configration & Events] opens, check [CANopen Master Configuration] and [Global events] of the network using the lamps.

(Example: CANopen Master Configuration: [Master], [Start slaves individually], [Master starts up itself], [CANopen master starts slaves], and [Master is SYNC producer], Global events: [Master alone] indicates that the slave cable is disconnected.)

For details on [CANopen Master Configuration] and [Global events], refer to the following:

^C "2.15.9 When the GP/LT supporting the CANopen master is used ◆ Master configration and events" (page 2-165)

2.10 Controller settings

You can set the execution time of the logic program using either of the following methods.

What you can do	Section describing the setting procedure
Setting it based on the ratio to the controller func- tion execution time Logic function 50% Display function 50% execution time Scan time	"2.10.1 Adjusting the scan time based on the ratio to the execution time of the logic functions (CPU Scan Percent- age)" (page 2-58)
Setting it based on the ratio between the controller function execution time and the display function execution time Logic function 20ms Logic function time Scan time 50ms	"2.10.2 Adjusting the scan time by set- ting the execution time of the logic functions and the display function exe- cution time (Fixed Scan Time)" (page 2-59)

2.10.1 Adjusting the scan time based on the ratio to the execution time of the logic functions (CPU Scan Percentage)

You can execute logic programs by specifying the ratio of the scan time to the execution time of the logic program.

NOTE

 For more details, refer to the settings guide.
 ^I "2.15.2 When the DIO board type GP3000 series is used ■ [Main Unit Settings] Settings Guide" (page 2-111)

Home Main Unit Settings Peripheral Settings Peassword Settings Initialization Maintenance Menu Transfer External file operation Menu OFFLINE Home Settings Password 0FFLINE Home Settings Settings Runtime Maintenance Menu Transfer External file operation Menu	—1. Enter offline mode and touch [Main Unit Settings] in the item changeover buttons.
Driver 0/On Screen Settings System Area Settings Operation Settings Ethernet Local Settings	2. When the [Main Unit Settings] screen opens, touch [Logic Settings].
Display Settings Logic Settings Save Sereen Operation Save Settings Settings Save System Area Ethernet Logic Program On	3. When the [Logic Settings] screen opens, touch [CPU Scan Percentage (10-50)].
Save Fixed Scan Time(18-2000) OPU Scan Percentage(18-50) WDT(Settings Settings Run Settings Logic Program Logic Program On Off Option Optio	4. Touch the input field of [CPU Scan Percentage] and use the numeric touch keys to enter the ratio to execute the scan of the logic program.
Fixed Scan Time 7 8 9 0 CPU Scan Percent 4 5 6 WDT(180-3808) 1 2 3 Run at Start U 0 +/- BS RUN STOP Exit Back 2806/85/22	5. Touch [Exit]. When the [Exit] dialog box shown on the left is displayed, touch [Save changes and exit].
Exit Under the setting. Saving the setting. Please do NOT turn off the machine until complete.	6. The [Save File] dialog box is displayed and then the GP restarts automatically. The setting is complete.

2.10.2 Adjusting the scan time by setting the execution time of the logic functions and the display function execution time (Fixed Scan Time)

You can execute logic programs at specified fixed cycles.

NOTE

• For more details, refer to the settings guide.

^C^C "2.15.2 When the DIO board type GP3000 series is used ■ [Main Unit Settings] Settings Guide" (page 2-111)

Home Main Unit Settings Peripheral Settings Password Nenu Initialization Maintenance Transfer External file operation Menu 0FFLIN Home Main Unit Settings Peripheral Settings Password Settings Initialization Menu	 1. Enter offline mode and touch [Main Unit Settings] in the item changeover buttons.
Number Settings Settings Menu Waintenance Transfer External file operation Image: Settings Driver 0/0 Screen Settings System Area Settings Operation Settings Ethernet Local Settings	2. When the [Main Unit Settings] screen opens, touch [Logic Settings].
OS Ver Display Settings Logic Settings Menu and Error Settings Extended Settings Settings Settings Settings Settings Save System Area Ethernet Logic System Area Logic Settings Settings	3. When the [Logic Settings] screen opens, touch [Fixed Scan Time (10-2000)].
Sav Logic Program On Off Fixed Scan Time(18-2000) OFU Scan Percentage(18-50) WDT(100-3000) Subset Settings Settings Settings Settings CPU Scan Percentage(18-50) Subset Settings Settings Settings CPU Scan Percentage(18-50) Subset Settings Settings CPU Scan Percentage(18-50) Subset Settings CON CLR ESC On Off Subset Settings On Off Subset Settings CPU Scan Percentage(18-50) Subset Settings CPU Scan Percentage(18-50) CPU Scan Percentage(18-50) CPU Scan Percentage(18-50) Subset Settings CPU Scan Percentage(18-50) CPU Scan Percentage(18-50) Subset Settings CPU Scan Percentage(18-50) CPU Scan Percentage(18-50) Subset Settings CPU Scan Percentage(18-50) Subset Settings Subset Settings Subset Settings Subset Settings Subset Settings Subset Settings Subset Settings Subset Settings Subset Set Set Set Set Set Set Set Set Set S	4. Touch the input field of [Fixed Scan Time] and use the numeric touch keys to enter the cycle to execute the scan of the logic program.
Run at Start Up 0 +/- BS RUN • STOP Exit Rack 2006/05/22 22-28-06 Exit Offline mode will be terminated and the machine will be rebooted, Is that all right? Save changes and exit Lose changes and exit	5. Touch [Exit]. When the [Exit] dialog box shown on the left is displayed, touch [Save changes and exit].
Save File Saving the setting. Please do NOT turn off the machine until complete.	6. The [Save File] dialog box is displayed and then the GP restarts automatically. The setting is complete.

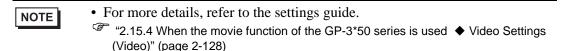
2.11 Video display adjustment/check

You can adjust or check the video display when using the movie function of the GP-3*50 series or when using the VM unit.

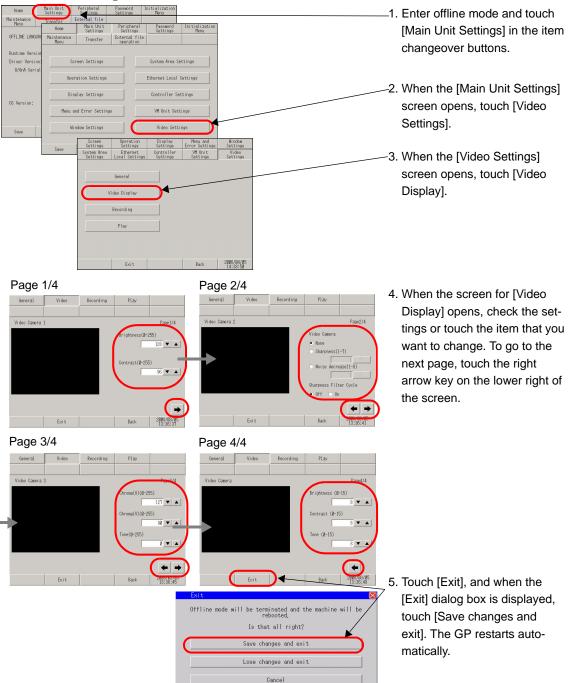
What you can do	Section describing the setting procedure
Adjusting the image quality for the video display	"2.11.1 Adjusting the image quality for the video display" (page 2-61)
 Isolating problems when video cannot be displayed If the video image doesn't display correctly, check whether the image was successfully transferred to the GP. 	"2.11.2 Checking whether video sig- nals are being received by the Display when video is not displayed" (page 2- 63)

2.11.1 Adjusting the image quality for the video display

You can adjust the video display when using the movie function of the GP-3*50 series or when using the VM unit.



■ When using the movie function of the GP-3*50 series

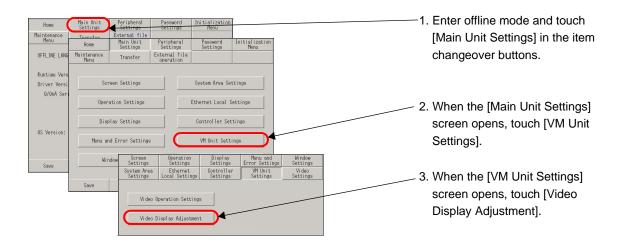


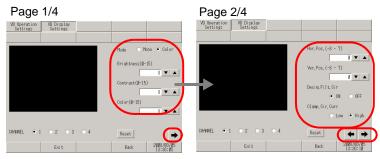
When using the VM unit

NOTE

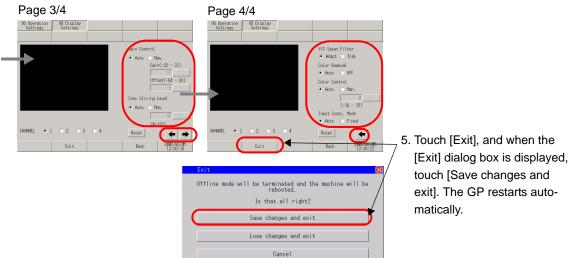
• For more details, refer to the settings guide.

^C "2.15.5 When using the VM unit ♦ VM Unit Settings (VD Display Settings)" (page 2-134)





4. When the screen for [VD Display Settings] opens, check the settings or touch the item that you want to change. To go to the next page, touch the right arrow key on the lower right of the screen.



2.11.2 Checking whether video signals are being received by the Display when video is not displayed

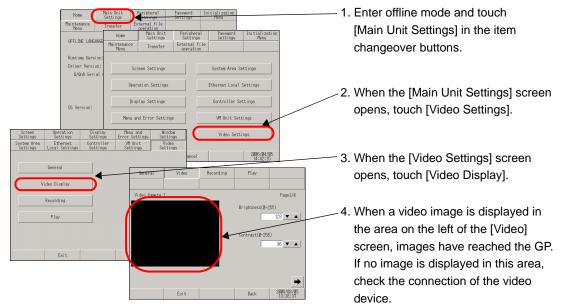
When video is not being displayed properly, you can check whether video signals are being received by the GP.

NOTE

• For more details, refer to the settings guide.

"2.15.4 When the movie function of the GP-3*50 series is used Video Settings (Video)" (page 2-128)

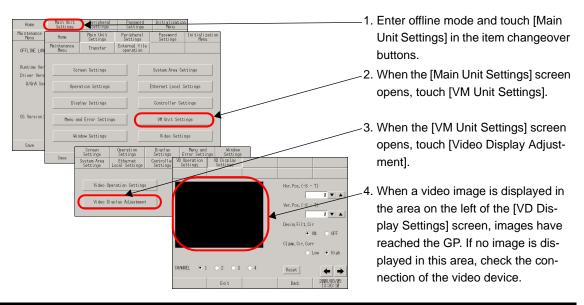
■ When using the movie function of the GP-3*50 series



When using the VM unit

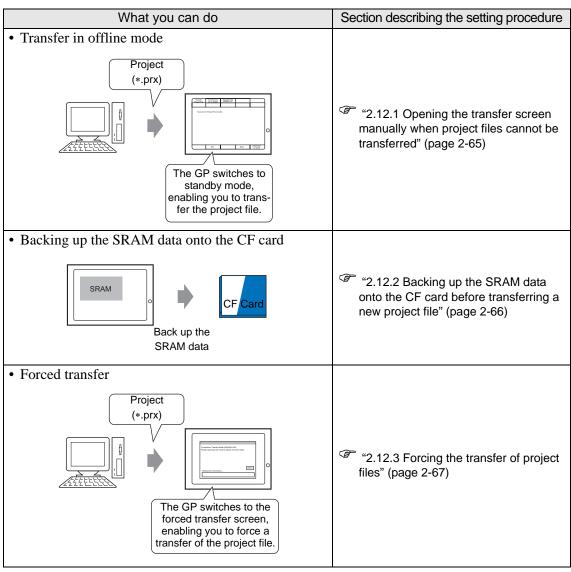
NOTE

For more details, refer to the settings guide.
 ^G "2.15.5 When using the VM unit ◆ VM Unit Settings (VD Display Settings)" (page 2-134)



2.12 Screen transfer from GP-Pro EX

When project files cannot be transferred, the following alternative methods can be used.



2.12.1 Opening the transfer screen manually when project files cannot be transferred

When project files cannot be transferred, you can transfer the files manually in offline mode. To do this, you need to set the GP to waiting status.

NOTE

• For more details, refer to the settings guide.

^(C) "2.15.1 Settings common to all Display models ◆ Transfer Project File" (page 2-104)

Password Initialization Settings Menu		 1. Enter offline mode and touch [Transfer] in the item change
ISH		over buttons.
operation		 2. When the [Transfer] screen opens, touch [Transfer Project File].
The settings has been changed. Nou want to save the current settings? No No Transfer from Transfer from GF to SRAM		– 3. When the [Save File] dialog box opens, touch [Yes].
Save File Saving the setting. Please do NOT turn off the machine until co ransfer ransfer Transfer from Transfer from Ject File SRAM SRAM to DF	mplete)	- 4.The message [Saving the set- ting] is displayed in the dialog box.
Execute the Project File transfer	Beck 2006/03/27 12:54:41	—5. When [Execute the Project File transfer] is displayed, transfer the project file from the GP-Pro EX.
	Settings Menu le Initialization ISH Initialization Settings Password Initialization Settings Settings internal file Initialization operation Initialization Peripheral Settings internal file Initialization operation Initialization Peripheral Settings internal file Initialization operation Initialization Peripheral Settings internal file Initialization Peripheral Settings Issue Initialization operation Initialization Settings has been changed, room Initialization room want to save the current settings? Initialization No Initialization Initialization Save File Saving the setting. Initialization Saving the setting. Please do NOT turn off the machine until complexity of the setting. Execute the Project File transfer Initialization Execute the Project File transfer Initializ	Settings Menu IsH Initialization Settings Initialization Initialization Initialization Settings Initialization Settings Initialization Tensfer Initialization Saving the settings Initialization Saving the setting. Initialization Please do NOT turn off the machine until complete Initialization Execute the Project File transfer Initialization Execute the Project File transfer Initialization

2.12.2 Backing up the SRAM data onto the CF card before transferring a new project file

The data of internal memory (SRAM) is transferred to the CF card. The data of CF card is eliminated and the data of internal memory is overwritten.

NOTE

For more details, refer to the settings guide.
 "2.15.1 Settings common to all Display models
 Transfer from SRAM to CF" (page 2-105)

Home Moin Unit Peripheral Password Initialization Maintenance Transfer Certain OFFLINE LANGUAGE: ENGLISH Runtime_Moration: 2.2.0	1. Enter offline mode and touch [Transfer] in the item change over buttons.
Drive Transfer Transfer from SRM to CF Please input the CLR ESC is the start switch. Save Please input the CLR ESC is the start switch. Save Copy from SRM to CF Transfer from Transfer from CLR ESC is the start switch. Copy from SRM to CF CR ESC is the start switch. Copy from SRM to CF CR ESC is the start switch. Copy from SRM to CF CR ESC is the start switch. Copy from SRM to CF CR ESC is the start switch. 1181	2. When the [Transfer] screen opens, touch [Transfer from SRAM to CF]. Touch the input field and enter "1101" (only when the system password has not been set) or the password speci- fied in the system password set- ting using the displayed numeric touch keys.
Project File CF to SRAM SRAM to CF	3. Touch [Start]. 4. When the confirmation mes- sage shown in the figure is dis- played, touch [Yes].
Transfer from SRAM to CF Cransfer from SRAM to CF	5. When the data transfer is complete, the message shown in the figure is displayed. Touch [Close].
Exit	6. Please make sure that a file with a name of \SRAM\Z000001BIN is created on the CF card.
• To transfer the SRAM da	ta backed up on the CF card, touch [Transfer from CF to

Maintenance/Troubleshooting

SRAM] on the [Transfer] screen and then follow the same steps as above.

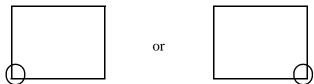
2.12.3 Forcing the transfer of project files

When project files cannot be transferred, you can force the transfer of the files. There are two methods for the forced transfer.

Forced transfer by touching the screen

The forced transfer can be conducted by touching the screen.

1 When turning ON the GP, touch and hold the lower left or lower right corner of the screen (within the area of 40 x 40 dots).



2 When the following dialog box appears, transfer the project file from the GP-Pro EX. After the forced transfer is complete, the GP restarts automatically and the screen of the transferred project file is displayed.

ompulsion Transfer Mode(Panel Touch)	
lease download the runtime system from the editor.	
	Reset
Waiting For Connection	

Forced transfer by setting the DIP switch

Set DIP switch 2 to ON to force the transfer of the project file.for situations in which access to the DIP switch is difficult due to the installation location or when a model without DIP switches (such as the GP-3302B) is used.

1 Ensure that the GP is turned OFF and then open the CF card cover at the bottom. Locate the CF card interface and DIP switches inside the cover and set DIP switch 2 to the ON position.



2 When the GP is turned ON and the following dialog box appears, transfer the project file from the GP-Pro EX. After the forced transfer is complete, the GP restarts automatically and the screen for forced transfer shown below is displayed again.

Compulsion Transfer Mode(DipSW2=ON) Please download the runtime system from the editor.	
	Reset
Waiting For Connection	

3 Turn OFF the GP and then set DIP switch 2 to OFF. When you turn ON the GP again, the above screen is displayed. On this screen, touch the [Reset] button. Always use the GP with DIP switch 2 set to OFF except when forcing the transfer of project files.

2.13 Restarting the IPC unit and detaching a device (Only when the panel computer is used)

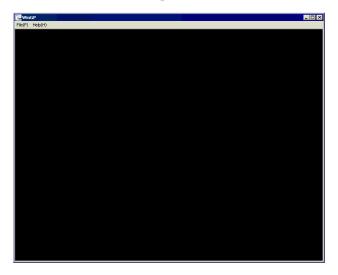
• This function can be set up with the IPC series only.

What you can do	Section describing the setting procedure
• Restarting the IPC unit Restart Image: Constraint of the interaction of th	"2.13.1 Restarting the IPC unit" (page 2- 69)
• Detaching a device connected to the IPC unit	"2.13.2 Detaching the device connected to the IPC unit" (page 2-71)

2.13.1 Restarting the IPC unit

To restart the IPC unit, perform the following setting procedure.

- This function can be set up with the IPC series only.
 - For details about the setting screen, refer to the setting guide.
 - "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) [Restart IPC]" (page 2-141)
- 1 If you start WinGP by selecting [Programs] [Pro-face] [WinGP] [WinGP] [WinGP] from the Start menu, the following screen appears. Then, touch or click the upper right and lower left corners of the screen, or the upper left and lower right corners of the screen (within 40 dots (V x H)) in sequence, within 0.5 seconds.



2 After the system menu appears, select [Offline].

e(F) Heb(H)	
Offline Error Reset	X

NOTE

• Alternately, you can go to offline mode by selecting [Offline] in the menu displayed by right-clicking on the above screen.

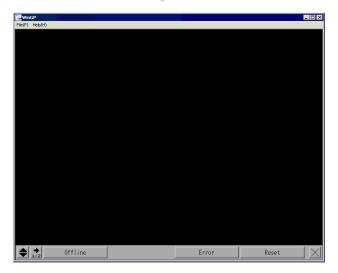
File(F) Help(H)					_ D ×	3	After the offli	ne mode screen is displayed,
Home	Main Unit Settings	Peripheral Settings	Password Settings	Initializat Menu	iion	_ 0.		
Maintenance Menu	Transfer	External fil operation	e IPC Setting	16 WinGP Sett	ings		select [IPC S	Settings] on the item changeover
OFFL IN <u>E LANGUAGE</u>		FUG	ISH				switch.	
File(F) Help(
Runtin H	lone	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu	_ 4	After the IP	C Settings] window opens, select
	tenance lenu	Transfer	xternal file operation	IPC Settings	WinGP Settings		[Restart IPC	
Men		,					[Restan IPC	ŀ
	Res	tart IPC		Network Settings				
OS Ver	Detac	h hardware						
	File(F) Help(H)					_ O X	5 After t	the [Restart IPC] window opens,
Say	Restart	1PC Detach har	dware Start Exp	plorer Start Task	Manager Specify t	file name run		
	Network Se	ttings						the entry field and enter "1101"
			,	,			(only v	when the system password has
		starting IPC,					not be	en set), or enter the password
s		ter system password,	a 🕨 cr	R ESC PN.				
	-		7 8 9		8		-	ou specified in "System Pass-
			4 5 6	ENT			word"	
			1 2 3)		
			₿ +/- B	s				
			File(F) Help(H)				×	
			Restart IPC	Detach hardware	Start Explorer	Start T	ask Manager Specify file name and run	
		Exit	Network Settings					
]]	6. Touch [Restart].
			Restarting				/	
			Enter sys	tem password, and th	hen touch restart s⊯	ii tch.		
							1101	
					\frown			
					Restart			
					\smile			
				Exit		1	Beck 2996/11/15	
				CXIT			88:48:22	
				×			7 The syste	em displays a confirmation
					/		-	
		is that really :	ill right?				-	, "Is that really all right?".
			_				Then, sel	lect "Yes".
		_						
	Yes			No				

8 The IPC unit will restart.

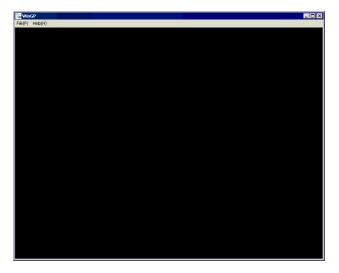
2.13.2 Detaching the device connected to the IPC unit

Detach the device connected to the IPC unit.

- This function can be set up with the IPC series only.
 For details about the setting screen, refer to the setting guide.
 * "2.15.7 When WinGP is used with IPC (Only when the panel computer is used)
 * [Detach hardware]" (page 2-142)
 - 1 If you start WinGP by selecting [Programs] [Pro-face] [WinGP] [WinGP] [WinGP] from the Start menu, the following screen appears. Then, touch or click the upper right and lower left corners of the screen, or the upper left and lower right corners of the screen (within 40 dots (V x H)) in sequence, within 0.5 second.



2 After the system menu appears, select [Offline].

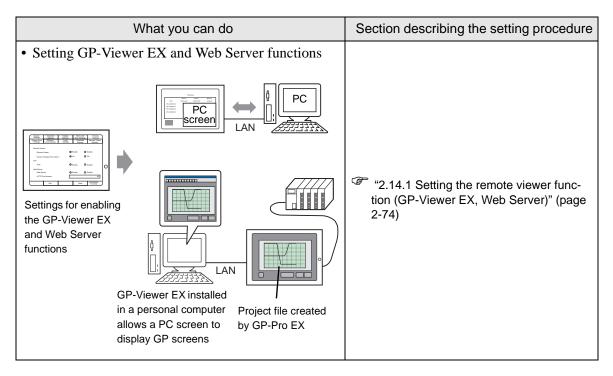


NOTE

• Alternately, you can go to offline mode by selecting [Offline] in the menu displayed by right-clicking on the above screen.

WinGP File(F) Help(H)						
Home	Main Sett	Unit ings	Peripheral Settings	Password Settings	Initialization Menu	3. After the offline mode screen is dis-
Maintena Menu	nce Tran	sfer	External file operation	IPC Settings	WinGP Settings	played, select [IPC Settings] on the
OFFLINE	WinGP					item changeover switch.
OTTEINE	File(F) Help(H)	Mai	n Unit	Peripheral Settings	Password Initialize Settings Menu	ation
Runtime	Home					4 Attention [IDC Cetting of window on one
Driver V	Maintenance Menu		ansfer EX	rternal file I operation	PC Settings WinGP Set1	
Memor				1		select [Detach hardware].
		Restart	IPC		Network Settings	
	\square	Detach har	dware			
OS Versi						
		Start File(F)	GP Help(H)			
Save		Start	Restart IPC	Detach hardware	Start Explorer Start Ta	sk Manager Specify file name 5. After the [Detach hardware]
			work Settings	[window opens, touch the entry
	Spec	ify fi	Detaching ha	nduana	,	field, and enter "1101" (only
			Enter system			
	Save		Enter system		► CLR ESC	when the system password has
				7	8 9	not been set), or enter the pass-
				4	5 6 ENT	word that you specified in "Sys-
				1	2 3	tem Password".
				0	+/- BS	
		WinGP			Stant	
		File(F) Help		tach hardware St	art Explorer Start Task M	Manager Specify file name and run
			< Settings			and run
		THE DHOT I	Coeccings			
			Detaching hardwa	are.		
			Enter system pas	ssword, and then touc	ch start switch.	
						1101 _ 6. Touch [Start].
					Start	
						7. The system displays a confir-
			Is that rea	lly all right?		mation message, "Is that really
	_	-				all right?". Then, select "Yes".
	(-			
	Ye	:6			No	
		🅉 Unplug	or Eject Hardware		? ×	
		🈸 s	elect the device you wa /indows notifies you that	int to unplug or eject, and th t it is safe to do so unplug th	en click Stop. When e device from your	
		c Hardware	omputer. devices:			8. The following dialog box appears and the
		ିଲ୍ଲ USB ।	Mass Storage Device			hardware connected to the IPC unit can
						be safely detached.
		USB Mass	Storage Device at Loc	ation 0		
				Properties	Stop	
		Display	device components			
			Jnplug/Eject icon on th	e taskbar	Close	

2.14 Remote Viewer settings



2.14.1 Setting the remote viewer function (GP-Viewer EX, Web Server)

Set the GP-Viewer EX and Web Server functions.

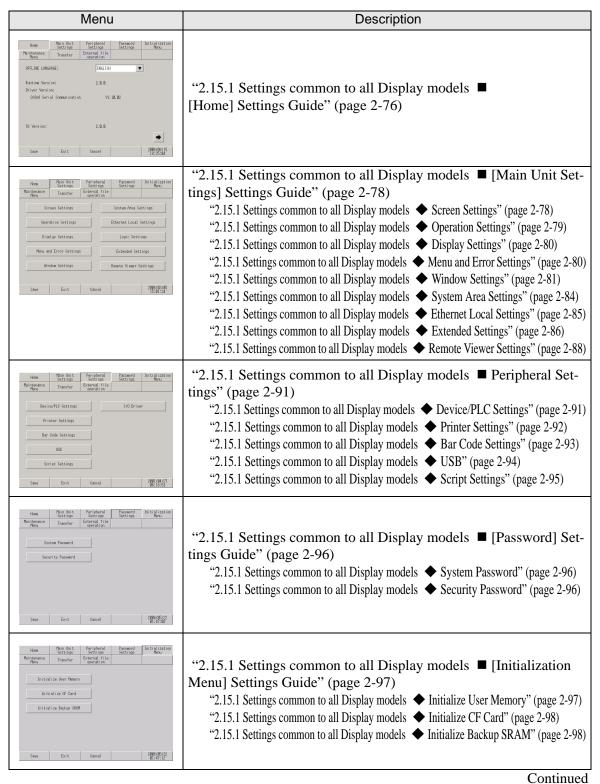
• For more details, refer to the setting guide. NOTE [™] "2.15.1 Settings common to all Display models ♦ Remote Viewer Settings" (page 2-88)

Home Nain Unit <u>Settings</u> Password Initialization Settings Settings Menu Manu OFFLINE LANGUAGE: ENGLISH	 — 1. Enter offline mode and touch [Main Unit Settings] in the item changeover but- tons.
Run Home Main Unit Peripheral Password Initialization Settings Settings Settings Menu Dri Maintenance Transfer External file operation Screen Settings System Area Settings	2. When [Main Unit Settings] opens, touch [Remote Viewer Settings].
05 Operation Settings Ethernet Local Settings	
Display Settings Logic Settings \$ Menu and Error Settings Extended Settings	
Window Settings Remote Viewer Settings	The [Remote Viewer Settings] screen opens.
Screen Operation Display Menu and Error Settings Window System Area Ethernet Logic Extended Remote Viewer Settings Local Settings Settings Settings Settings	
Viewer Settings	4. To use GP-Viewer EX, touch [Viewer Settings] and select [Enable] for
FTP Settings Web Server Settings	[Remote Viewer]. To use the Web Server function, touch [Web Server Settings]
Time Zone Settings	and select [Enable] for [Web Server].
Exit Back 2001/04/27 06:19:06 Viewer Settings FTP Settings Web Server Settings Time Zone Settings	
Remote Viewer Remote Viewer: • Enable Disable Screen Changes from Client: • On Off To run operation lock settings, from the Extended Settings menu touch Operation Lock Settings,	5. When you touch [Exit] to save the changes, GP is automatically restarted.
The are checked occurring many order operation cook occurring.	
Exit Back 2001/04/27 06:19:12	
• You can also set [Remote V	iewer Settings] from the GP-Viewer EX System
	s, refer to the following page.

GP-Pro EX Reference Manual "37.15.2 System Settings [Display Unit] - [Remote Viewer] Settings Guide" (page 37-80)

2.15 Offline settings guide

2.15.1 Settings common to all Display models



Menu	Description
Home Pair (bit Setting) Peripheral Setting Ensight Nameanne Transfer Esting Setting Name Oteck Display Pattern Oteck Font Obage Galer Tore Obage Galer Tore Oback Touch Panel Oback Touch Panel Oback Touch Panel Oback Coll Oback Touch Panel Oback Coll/COPU/UH Obacel Oback Panel Oback Panel Oback Panel Oback Coll/COPU/UH Obacel Oback Panel Oback Panel Oback Panel	 "2.15.1 Settings common to all Display models ■ [Maintenance Menu] Settings Guide" (page 2-99) "2.15.1 Settings common to all Display models ◆ Check Pattern" (page 2-99) "2.15.1 Settings common to all Display models ◆ Check Font" (page 2-100) "2.15.1 Settings common to all Display models ◆ Check Touch Panel" (page 2-101) "2.15.1 Settings common to all Display models ◆ Check Couch Panel" (page 2-101) "2.15.1 Settings common to all Display models ◆ Check COM1/COM2/LAN" (page 2-102) "2.15.1 Settings common to all Display models ◆ Memory Info" (page 2-102) "2.15.1 Settings common to all Display models ◆ Color Tone" (page 2-103)
Nome Main Birst Gattings Periodecal Statings Periodecal Statings Periodecal Birst Transfer Project File Transfer Project File Transfer Project File Transfer Trans Of to SRMI Transfer Trans Of to SRMI Transfer Trans SRM to OF Save Event Cancel Statings	 "2.15.1 Settings common to all Display models ■ Transfer" (page 2-104) "2.15.1 Settings common to all Display models ◆ Transfer Project File" (page 2-104) "2.15.1 Settings common to all Display models ◆ Transfer from CF to SRAM" (page 2-104) "2.15.1 Settings common to all Display models ◆ Transfer from SRAM to CF" (page 2-105)
Home Main Bit Feriabreal Parameter Initial station Multicatance Transfer Saturage Saturage Initial station Multicatance Transfer Saturage Saturage Initial station Load String Table Saturage Saturage Saturage Saturage ESV Data Index Saturage Saturage Saturage Saturage	 "2.15.1 Settings common to all Display models ■ External file operation setting guide" (page 2-106) "2.15.1 Settings common to all Display models ◆ String Table Load" (page 2-106) "2.15.1 Settings common to all Display models ◆ CSV Data Index" (page 2-107)

[Home] Settings Guide

Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu
Maintenance Menu	Transfer	External file operation	000011190	TRIG
OFFLINE LANG	JAGE:	ENGLISH	Ľ	•
Runtime Vers	ion:	2.0.0		
Driver Versi	on:			
Q/QnA Seri	al Communication	n V1. 1	10.02	
OS Version:		2. 0. 0		
Save	Exit	Cancel		► 2006/09/15 14:25:04

Setting	Description
OFFLINE LANGUAGE	Select the language used for the offline menu from [JAPANESE] and [ENGLISH].
Runtime Version	Display the runtime version.
Driver Version	Display the protocol driver version. 4 drivers of active maximum amount are displayed. In case of the GP- 3300 series 2 drivers of active maximum amount are displayed.
OS Version	Display the OS version.

Continued

Setting	Description				
		OS Version: Device Monit	or Version:	2. 0. 0 V1. 00. 00	
Device Monitor Version		Save	Exit	Cancel	
	· ·	gs] tab in th	-		n Unit Settings]- low, Device Moni-

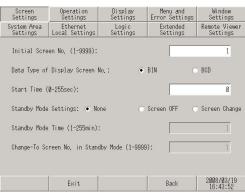
Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu		
Maintenance Menu	Transfer	External file operation				
Project Info	rmation Date and Time:	0886 (80)	14 17:12			
Model Info		20007037 AGP-3500				
Display Co	ilors:	16384 Co	lors, 3-Speed B	link		
Creation E	ditor Name:	GP-Pro EX				
Creation E	ditor Version:	1.00.003				
Creator:		mhori				
Comment:						
				+		
Save	Exit	Cancel		2006/03/27 12:51:33		

Setting	Description	
Last Saved Date and Time	Display the last saving day and time of project.	
Model Info	Display the setting GP model.	
Display Colors	Display the setting colors.	
Creation Editor Name	Display the editor name which created the project.	
Creation Editor Version	Display the editor version which created the project.	
Creator	Display the creator name of project.	
Comment	Display the comment of project.	

■ [Main Unit Settings] Settings Guide

Screen Settings

The initial screen display upon powering up and standby mode are setup here.



Setting	Description	
Initial Screen No.	 Set the number of the screen that will display at startup. GP-Pro EX Reference Manual "11.3 Choosing the Screen to Display when the GP Turns On" (page 11-7) NOTE Set the screen number from 1 to 9,999 when the [Data Type of Display 	
Data Type of Display Screen No.	Screen No.] is [Bin], and from 1 to 7,999 for [BCD]. Select the data type of the screen number specified when changing screens from [Bin] or [BCD].	
Start Time	Set the time it takes for the display to start up after the power turns ON from 0 to 255 seconds.	
Standby Mode Settings	 Select the standby mode from [None], [Screen OFF], or [Screen Change]. [None] The screen does not change to the standby mode. [Screen OFF] Clears the screen if there is no screen touch, screen change or alarm message display after the time set in [Standby Mode Time] passes. [Screen Change] Changes to the screen set in [Change-To Screen No. in Standby Mode] if there is no screen touch, screen change or alarm message display after the time set in [Standby Mode Time] passes. 	
Standby Mode Time	Set the time to automatically clear the screen to protect the display from 1 to 255 minutes. Automatically clears the screen display or changes to the set screen when the set time passes without any display operations.	
Change-To Screen No. in Standby Mode	 Set the screen number to change to after the [Standby Mode Time] passes when the [Standby Mode Settings] is [Screen Change]. NOTE Set the screen number from 1 to 9,999 when the [Data Type of Display Screen No.] is [Bin], and from 1 to 7,999 for [BCD]. 	

♦ Operation Settings

The settings concerning touch operation are set up here.

0	1		1	
Screen Settings	Operation Settings	Display Settings	Menu and Error Settings	Window Settings
System Area Settings	Ethernet Local Settings	Logic Settings	Extended Settings	Remote Viewer Settings
Touch Panel	Detection:		• ON	• OFF
Touch Buzzer	Sound:		• Enable	🔿 Disable
Output to External Buzzer Terminal:			• Enable	🔿 Disable
Touch Panel Operation on Back Light Off:			 Operational 	🔿 Inhibit
	Exit		Back	2008/03/19 16:44:00

Setting	Description
Touch Panel Detection	Select the detection timing from [ON Detect] (when touching the touch panel) or [OFF Detect] (when taking your finger off the touch panel).
Touch Buzzer Sound	Set whether or not to sound the built-in buzzer when touching the screen.
Output to External Buzzer Terminal	Set whether or not to output the touch panel buzzer to the external buzzer terminal.
Touch Panel Operation on Back Light Off Detection	Set whether or not to enable the touch panel operation on back light off detection. Select from [Operational] or [Operation Inhibit].

Display Settings

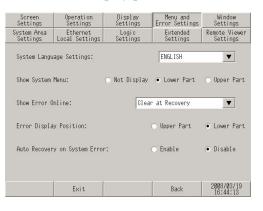
The settings concerning panel display are set up here.

Screen Settings	Operation Settings	Display Settings		Menu and Error Settings	Window Settings
System Area Settings	Ethernet Local Settings	Logic Settings		Extended Settings	Remote Viewer Settings
Reverse Disp	lay:	(E	Enable	● Disable
Show Brightn	ess/Contrast Con	trol Bar: G	• 6	Enable	Disable
D-Script_debug() Function Feature:		ature: (Ē	Enable	• Disable
	Exit			Back	2008/03/19 16:44:07

Setting	Description
	Set whether to reverse the screen display from black to white or vice versa.
Reverse Display	NOTE
	• This item can be set only when monochrome type GP has been selected.
Show Brightness/	Set whether to display the Brightness/Contrast Control Bar that controls
Contrast Control Bar	brightness and contrast by touch-operation.
D-Script_debug ()	Set whether to execute the _debug() function data described in D-script.
Function Feature	GP-Pro EX Reference Manual "21.9.1 D-Script/Common [Global D-Script] Set- tings Guide" (page 21-54)

Menu and Error Settings

Set the system menu details and the display position of error messages.



Setting	Description
System Language Settings	Set the language used for the "system menu", "brightness/contrast adjust- ment", "error messages" (both single-line and detailed messages), and "File Manager" from [JAPANESE] and [ENGLISH].
Show System Menu	Select the position to display the system menu from [Not Display], [Lower Part] and [Upper Part].

Continued

Setting	Description
	Select the timing to clear the error display in online mode from [None], [Clear at Recovery], and [Clear on Screen Change].
Show Error Online	 If an error message is displayed because writing to the connected device (PLC, etc.) failed due to a communication error or other reason, the message will not be cleared even when [Clear at Recovery] is selected. To clear such an error message, change the screen.
Error Display Position	Select the position to display an error from [Upper Part] and [Lower Part].
Auto Recovery on System Error	Set whether to perform automatic recovery when a system error occurs. When [Enable] is selected, GP will restart about 20 seconds after an error occurs.

Window Settings

Set the Global Window's display settings.

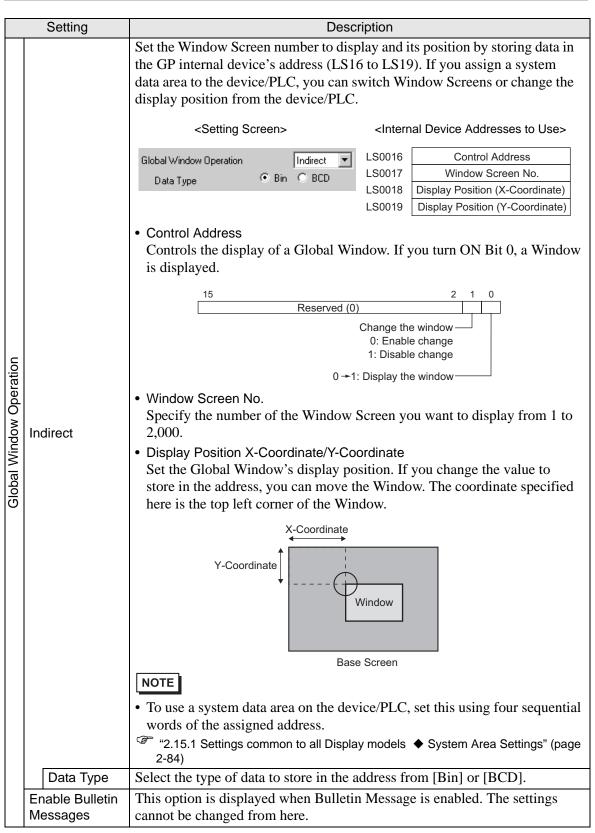
Screen Settings	Operation Settings	Display Settings	Menu and Error Settings	Window Settings
System Area Settings	Ethernet Local Settings	Logic Settings	Extended Settings	Remote Viewer Settings
Global Windo	w Operation:	🔿 Disable	● Direct	🔿 Indirect
Window Scree		1		
Display Posi	320			
Display Posi	tion Y-Coordinat	e:		248
	Exit		Back	2008/03/19 16:44:34

Screen Settings	Operation Settings	Display Settings	Menu and Error Settings	Window Settings
System Area Settings	Ethernet Local Settings	Logic Settings	Extended Settings	Remote Viewer Settings
Global Window Operation:		🔿 Disable	🔿 Direct	• Indirect
Data Type:			• BIN	○ BCD
Enable Bullet	in Messages			
	Exit		Back	2008/03/19 16:44:40

Continued

Setting	Description		
Global Window Operation	Select the action of the Global Window commonly displayed on all screens from [Disable], [Direct], or [Indirect].		
Disable	Does not set a Global Window.		
	Displays the Window Screen number to display and its position in a fixed state. Control the display by operating the address (LS16) in the GP internal device or the device/PLC to which the system data area is assigned. <setting screen=""> Internal Device Addresses to Use> Global Window Operation Global Window Operation Direct LS0016 Window Screen No. 1 1 Display Position X-Coordinate 320 1 Display Position Y-Coordinate 240 1</setting>		
Direct	 Control Address Controls the display of a Global Window. If you turn ON Bit 0, a Window is displayed. ¹⁵ ² ¹ ⁰ Change the window 0: Enable change 1: Disable change 0 → 1: Display the window 		
	 To use a system data area on the device/PLC, set this using four sequential words of the assigned address. ^C "2.15.1 Settings common to all Display models ◆ System Area Settings" (page 2-84) 		
Window Screen No.	Set the Global Window's screen number from 1 to 2,000.		
Display Position X-Coordi- nate/ Y-Coordi- nate	Set the Global Window's display position. Even if the screen changes, the Window is displayed in the same position. The coordinate specified here is the top left corner of the Window.		
	 NOTE Set the X-coordinate by 4 dots. If the display position is not set by 4 dots, the position is automatically corrected by 4 dots to the left of the specified coordinate to display the Global Window. 		

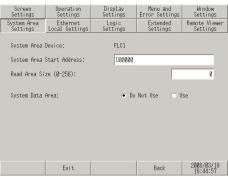
Continued



Continued

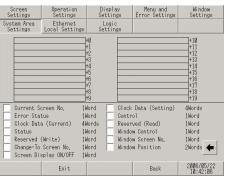
System Area Settings

Set the items to synchronize the internal memory of GP (system data area) with the device (memory) of the connected device.



Setting	Description
System Area Device Select the device to set the system data area.	
System Area Start AddressSpecify the start address of the system data area.	
Read Area Size (0-	Set the number of words for "Read Area" in which the data used on all screens in common and the simultaneous display data for line graphs are stored, within the range of 0 to 256.
256)	 NOTE This setting is disabled when the device is connected using the memory link method.
System Data Area	Set whether to use the system data area.

When [Use] is selected for [System Data Area], the following screen appears.



Setting	Description
System data area items	When the system data area item to be used is touched, a chicanery appears indicating that the item is selected.
Total number of words	 Display the number of words that the selected system area item will use. NOTE When the display resolution of the screen is 320 x 240, touching the [Show] key displays [Screen for checking the System Area settings], in which you can confirm the selected items. This setting is effective only when the direct access method is used. "System Area" displayed on the screen refers to the system data area.

Ethernet Local Settings

Adjust the settings for the Ethernet connection.

Screen Settings	Operation Settings	Display Settings	/ Menu s Error S				indow ttings
System Area Settings	Ethernet Logic Local Settings Settings			Extende Setting		Remote Viewe Settings	
Local Name:							
IP Address:		, 	192	168	l	1	2
Subnet Mask:		Ĺ	255	255	25	5	0
Port:							8000
Gateway:			0	0	e		0
Auto Recogni	tion:	٠	Ena	ble	0 D	isable	
Speed Settin	gs:	(ē)		M			
Duplex Setti	ngs:	(0					
	Exit		1	Back			3/03/19 :45:04

Setting	Description
Local Name	The name used on a network is inputted in the half width of less than 32 characters.
IP Address	Sets up the GP's IP address. The IP address is 32 bits and designated in four 8-bit units, entered in decimal.
Subnet Mask	Sets the subnet mask. If you are not using a subnet mask, designate[0].
Port	 Specify the port number (5001 to 65516). Ten consecutive port numbers starting from the specified port number are used. However, when the forced transfer screen is displayed on the GP unit, the port number setting is fixed at "8000". NOTE To execute an automatic search via LAN when transferring a project file, specify the same port number as the number specified in [Transfer Tool] - [Transfer Setting] - [Communication Port Settings] - [Port (Search)].
Gateway	Sets up the gateway's IP address. Only a single gateway can be set up. If you are not using a gateway, enter "0"
Auto Recognition	It sets up whether network automatic recognition is confirmed. When not performing automatic recognition, "Speed Settings" and "a Duplex Settings" are set up manually.
Speed Settings	A network speed is selected from "100M" and "10M."
Duplex Settings	A network communication system is selected from "Half" and "Full."

Extended Settings

System Area Ethernet Logic Extended Remote Viewen Settings Local Settings Settings Settings Ethernet Multilink Settings Operation Lock Settings Settings Operation Lock Settings Remote PC Access Key Code: Settings GP-Viewer EX Key Code: Settings Settings
Operation Lock Settings Remote PC Access Key Code: GP-Viewer EX Key Code:
Remote PC Access Key Code:
GP-Viewer EX Key Code:
Multilink Operation Settings Lock
Multilink Settings
Action Mode • Master C Slave 🗸 Lock on Screen Touch
Changing Action Mode to Slave prevents Automatically Cancel Timer (sec 20) the Viewer feature from running
•
Exit Back 2006/03/05 15:15:44 Exit Back 2006/03/05 15:15:47

Remote PC Access Key CodeSet an RPA function key code.GP-Viewer EX Key CodeSet a GP-Viewer EX function key code.	Setting	Description
Set a GP-Viewer EX Tillingtion Key code		Set an RPA function key code.
	Set a UP-Viewer EX Tinction Key code	

Continued

	Setting	Description		
		Set the GP's operation mode to use the Ethernet Multilink function. Select from [Master] or [Slave]. After selecting [Master], go to the next screen by touching the arrow button displayed at the lower right of the screen. Check [Allow Connection Only To Specified IP Address] and touch the address section. When the keypad appears, enter the address that connection will be allowed.		
		Multilink Settings Operation Lock		
Ethernet Multilink Settings		Allow Connection Only To Specified IP Address Allow Connected OB/02/13 00:22 After selecting [Slave], touch the arrow button and specify the IP address of the master to be connected. NOTE • Do not enter the IP address of this display unit as the master's IP address.		
Ope tings	Operation Lock Set-			
	Enable Opera- tion Lock	Check this option to lock the touch operation of other GPs while one GP is operating.		
	Lock on Screen Touch	Check this option to lock the touch operation of other GPs by touching the screen of one GP.		
	Automatically Cancel Timer (Sec.)Set the period in seconds until the operation lock is reset automatical when touching stops on the GP which activated the lock.			

IMPORTANT

Some devices have limited use of the above extended functions. Check if your device supports these functions before setting them.
 ^{CP} GP-Pro EX Reference Manual "1.3 Supported Features" (page 1-5)

Remote Viewer Settings

Screen Settings	Operation Settings	Display Settings	Menu and Error Settings	Window Settings
System Area Settings	Ethernet Local Settings	Logic Settings	Extended Settings	Remote Viewer Settings
Vie	ewer Settings			
F	TP Settings			
Web (Gerver Settings			
Time	Zone Settings			
	Exit		Back	2001/04/27 06:19:06

• Viewer Settings

Viewer Settings	FTP Settings	Web Server Settings	Time Zone Settings	
Remote Viewe	r			
Remote	Viewer:	🔶 En	able 🔿 [)isable
Screen	Changes from Cli	ent: 💿 On	0.0)ff
To run from th	operation lock s e Extended Setti	ettings, ngs menu touch (peration Lock Se	ttings.
	Exit		Back	2001/04/27 06:19:12

Setting		Description
Remote Viewer		Set the GP-Viewer EX function.
	Enable	Set whether to enable the GP-Viewer EX function.
	Enable screen changes from client	 Set whether to enable GP screen switching from GP-Viewer EX. NOTE If this item is not selected, even users with read/write permission in Security Settings cannot switch the screen from the GP-Viewer EX side.

• FTP Settings

Viewer Settings	FTP Settings	Web Server Settings	Time Zone Settings	
FTP FTP:]		able • C	l)isable
FIF.		O En	abre • L	u sabie
	Exit		Back	2001/04/27 06:19:18

Setting	Description
Enable FTP	Set whether to enable the FTP function.

• Web Server Settings

Viewer Settings	FTP Settings	Web Server Settings	Time Zone Settings	
Web Server				
Web Ser	ver:	● En	able 🔿	Disable
HTTP Po	rt Number:			80
	Exit		Back	2001/04/27 06:19:26

Set	ting	Description
Web Server		Set the Web Server function.
	Enable Web Server	Set whether to enable the Web Server function.
	HTTP Port Number	 Set the port number used by the Web Server function with a value from 1 to 65535. NOTE We recommend that you use port number 80. However, if port number 80 cannot be used because of an existing firewall, you must change the port number. For information about usable port numbers, refer to the Firewall Settings because usable port numbers depend on Firewall Settings.

• Time Zone Settings

Viewer Settings	FTP Settings	Web Server Settings	Time Zone Settings	
Time Zone Offset	from Greenwich M	ean Time		+ 9:00
	Exit		Back	2001/04/27 06:19:46

Setting		Description
Time Zone	Offset from Greenwich Mean Time	Set the standard time of the location of the PC by specify- ing the difference from the Greenwich Mean Time.

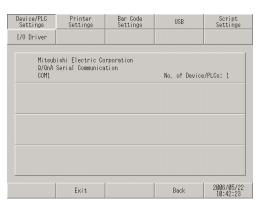
Peripheral Settings

Device/PLC Settings

Select this item to set the options for communication with the connected device (PLC or host). Set these options so that they match with the communication settings of the connected device.

NOTE

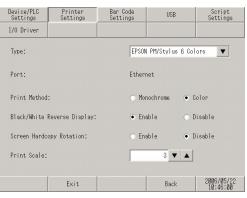
• The setting items for [Device/PLC Settings] may vary depending on the connected device. For details about the individual connected devices, refer to the "GP-Pro EX Device/PLC Connection Manual".



Setting	Description
Maker	Displays the maker of the currently set device/PLC.
Series	Displays the series of the currently set PLC.
Port	Displays the ports that can be connected to a device/PLC.
No. of Devices/PLCs	Displays the set device/PLC driver numbers.

Printer Settings

Set the model of the printer connected to the GP and the print method.



Setting	Description
Туре	Select the printer type to connect from [Do Not Use], [NEC PR201], [EPSON ESC/P High Speed], [EPSON ESC/P High Quality], [HP Laser Jet], [EPSON PM/Stylus 6 Colors], [EPSON Stylus 4 Colors] or [Text ASCII].
	 • For [Text ASCII], the text's shape may be different, because the print method is different.
Port	The port to which the printer is connected is displayed.
Print Method	 Select the print method from [Monochrome] or [Color]. NOTE For a monochrome GP model, the print will be monochrome even if [Color] is selected for the [Print Method].
Black/White Reverse Display	Select whether or not to print with black and white reversed.
Screen Hardcopy Rotation	Select the print direction for screen hard copy from [Horizontal] or [Ver- tical].
Print Scale	Set the print scale to 1-4 only if the [Type] is [EPSON PM/Stylus 6 Colors] or [EPSON Stylus 4 Colors].

♦ Bar Code Settings

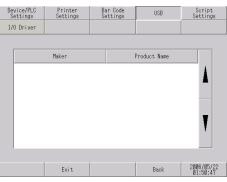
Set the options used for the communication with the bar code reader connected to the GP.

Device/PLC Settings	Printer Settings	Bar Code Settings	USB	Script Settings
I/O Driver				
Bar Code 1	T	Port:	COM	1
Type:		Two-Din	mensional Code	Reader
Save Data in:		Data Di	splay	
Speed (bps):		9680		V
Data Length:		🔿 7bit	• • :	8bit
Parity:	 None 	🔿 Ever	n Ol	0dd
Stop Bit:		• 1		2
Flow Control:		RTS/CT	'S Control	¥
5V Power Supp	dy:	🔿 Enat	ole 💿	Disable
	Exit		Back	2006/05/22 10:46:05

Setting	Description		
PortDisplays the port to connect from [COM1] or [USB].			
TypeThe bar code to set up is selected from "Bar Code 1" and "Bar Code			
Save Data inDisplay the read code data storage location from [Data Displ nal Device].			
Speed (bps)	The transmission speed between connection equipment and GP is selected from [2400], [4800], [9600], [19200], [38400], [57600], and [115200].		
Data Length	The length (bit) of the data which communicates is selected from "7" and "8."		
Parity	The method of a parity check is selected from "Non", "Even", and "Odd."		
Stop Bit	The length (bit) of a stop bit is selected from "1" and "2."		
Flow Control	The system of the communication control which prevents overflow of transmission data and which is performed for accumulating is chosen from "nothing", "ER (DTR/CTS) control", and "RTS/CTS control." NOTE • When the port is set to USB/SIO, [None] is set.		
5V Power Supply	It select from GP whether 5V power supply is supplied.		

♦ USB

The information (a manufacture name and product name) on the USB device linked to GP is displayed.



Setting Description			
Maker	Displays the manufacture name of the USB device linked to GP.		
Product NameDisplays the product name of the USB device linked to GP.			

• Several USB devices of the same category in the following table cannot be simultaneously used. Even if several USB devices of the same category are connected to the GP, only one USB device that the GP has recognized first can be used.

Category	USB device
1	Printer, USB-PIO converter
2	Keyboard, Numeric keys, Barcode reader
3	Mouse
4	USB storage (USB memory, CF card reader, etc.)
5	USB transfer cable
6	USB - serial (RS-232C) conversion cable

♦ Script Settings

A communication setup of the connection equipment used with a script is performed.

Device/PLC Settings	Printer Settings	Bar Code Settings	USB	Script Settings
1/0 Driver				
Script 1	V	Port:	COM1	
SIO Type:		R\$2320		•
Speed (bps):		9680		¥
Data Length:		🔿 ?bit	• 8	bit
Parity:	None	🔿 Even	0	dd
Stop Bit:		• 1	O 2	
Flow Control:		RTS/CT	S Control	▼
5V Power Supp	ly:	🔿 Enab	le 💿 D	isable
[Exit	[Back	2006/05/22 10:49:13

Setting	Description			
Port	The port used for a script will be displayed.			
SIO Type	The communication system which communicates with connection equip- ment is selected from "RS232C", "RS422/485 (2 line type)", and "RS422/485 (4 line type)."			
Speed (bps)	The communication speed is selected from [2400], [4800], [9600], [19200], [38400], [57600], and [115200].			
Data Length	The length (bit) of the data which communicates is selected from "7" and "8."			
Parity	The method of a parity check is selected from "Non", "Even", and "Odd."			
Stop BitThe length (bit) of a stop bit is selected from "1" and "2."				
Flow Control	The system of the communication control which prevents overflow of transmission data and which is performed for accumulating is chosen from "nothing", "ER (DTR/CTS) control", and "RTS/CTS control."			
	• When the port is set to USB/SIO, [None] is set.			
5V Power Supply	If the communication method is [RS232C], designate whether or not to set the 5V power supply. Only set it to Enable if the connected device requires a power supply. If a 5V power supply is not needed and you set it to Enable, damage can occur to the connected device or the GP. Con- firm the specifications of the connected device and cable when setting this. NOTE • When [USB/SIO] is selected for [Port], [Disable] is set.			

■ [Password] Settings Guide

System Password

The password setting is used when changing to the Initialize Memory or OFFLINE mode Screens.

Please input the New	Set the system password used for the initial setting or to enter offline mode within the range of 0 to 99999999. Specify [0] if the system pass-				
Setting		Description			
Exit	Back 2006/05/22 01:51:06	Exit	Back 2006/05/22 01:51:17		
		Please input the New Password Again:	0		
Please input the New Password:	0	Please input the New Password:	1101		
Password Password		Password Password			
System Security Password Password		System Security			

Password	word is unnecessary.
Please input the New	Enter the password again for confirmation.
Password Again	Enter the password again for commination.

Security Password

If the password of a level 15 is inputted, the password from level 1 to level 15 can be changed.

System Security Password Password	System Security Password Password
Please input the Level 15 Password:	Please input the Level 15 Password:
	Select the Password Change Level
	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
	Current Password: 1101
- 9886/85/22	- 0998./95/092
Exit Back 2006/05/22 10:49:31	Exit Back 2006/05/22 10:49:43

Setting	Description			
Please input the Level 15 Password	 Enter the level 15 password to change the security password. NOTE When the security password of a level 15 is not set up with screen creation software, setting change of a security password cannot be performed in offline mode. Set up the security password in a project file and transfer the file to the GP. 			
Select the Password Change Level	Select the password level to be changed from 1 to 15.			
Current Password	Enter the current password.			

■ [Initialization Menu] Settings Guide

♦ Initialize User Memory

Deletes all data in GP user memory.

IMPORTANT	٠	[You cannot cancel the Initialization procedure after pressing the [Start] key.
		Do not turn OFF the power during initialization.

- All backed up data in SRAM is lost.
- Initialization does not erase the SYSTEM SET UP, the SIO protocol, or the internal clock settings.

Initialize User Memory	Initialize CF Card	Initialize Backup SRAM		
-		Project File wi		+
riease i	nput the system p	bassword and pres	s the start swi	Ø
		Start		
	Exit		Back	2006/05/22 01:51:42

Setting	Description
Please input the sys- tem password and press the Start switch.	Touch the system password input field and enter the system password. If the system password has not been set, enter the standard password [1101].
Start	Start the initialization of the user memory.

Initialize CF Card

Deletes all data in the CF Card installed in the GP.

 Initialization cannot be canceled once the [Start] key is touched. Do not turn OFF the power during initialization.

Initialize Jser Memory	Initialize CF Card	Initialize Backup SRAM		
-		n the CF card will password and press		itch.
				0
		Start		
			Back	2006/05/2

Setting	Description
Please input the sys- tem password and press the Start switch.	Touch the system password input field and enter the system password. If the system password has not been set, enter the standard password [1101].
Start	Start the initialization of the CF card.

♦ Initialize Backup SRAM

Deletes all data in GP's backup SRAM.

• You cannot cancel the Initialization procedure after pressing the [Start] key. Do not turn OFF the power during initialization.

- All backed up data in SRAM is lost.
- Initialization does not erase the SYSTEM SET UP, the SIO protocol, or the internal clock settings.

Warning: All the backup data will be lost, Please input the system password and press the Start switch, Alarm History Sampling 76664(Byte) Backup Internal Device 20(Byte) Free Space (Byte) Free Space	Initialize User Memory	Initialize CF Card	Initialize Backup SRAM		
Please input the system password and press the Start switch.					
Alarm History 0 Sampling 76664(Byte) Backup Internal Device 20(Byte) Friling 0(Byte) Stant	Warning:	All the backup	data will be lost.		
Alarm History <u>8(Byte)</u> Backup Internal Device <u>20(Byte)</u> Filing <u>8(Byte)</u> Stant	Please in	nput the system	password and press	s the Start swi	tch.
Alarm History (80yte) Sampling 76664(8yte) Backup Internal Device 28(8yte) Filing (8yte) Start					R
Sampling <u>76684(Byte)</u> Backup Internal Device <u>20(Byte)</u> Filing <u>8(Byte)</u> Stant		Alarm History	Ø(Rvte)	1	
Backup Internal Device 20(Byte) Viling 0(Byte) Start					
Start		Backup Interna	1 Device		
Ø(Byte) Start			20(Byte)		1
			Ø(Byte)		
2480 IO(Byte)			76(Byte)		
					2006/05/2

Setting	Description
Please input the sys- tem password and press the Start switch.	To initializes the GP's backup SRAM, enter the common password "1101" or the password you designated in the "System Password" screen.
Start	Start the initialization of the GP's backup SRAM.

Maintenance/Troubleshooting

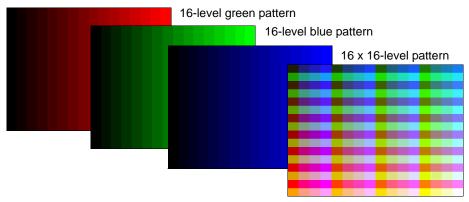
■ [Maintenance Menu] Settings Guide

Check Pattern

NOTE

It is the check of a drawing function. It is confirmed whether a liquid crystal display is displayed correctly. When the screen is touched, the selected display pattern is displayed.

16-level red pattern

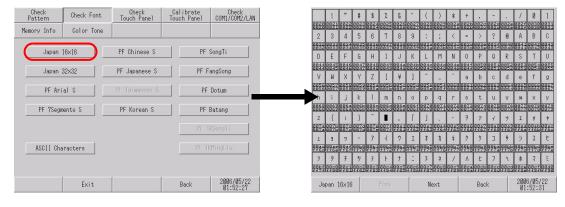


Setting	Description	
16-level red pattern	Display the 16-level red pattern.	
16-level green pat- tern	Display the 16-level green pattern.	
16-level blue pattern	Display the 16-level blue pattern.	
16 x 16-level pattern	Display the 16 x 16-level pattern.	

• With the monochrome model, only the 16-level pattern or 8-level pattern is displayed.

Check Font

This item is used to display the font patterns of the installed fonts. You can check the character pattern of each font (Japanese, European and U.S., Chinese (traditional), Chinese (simplified), Korean, Cyrillic, and Thai) as well as the font image of each language. For Chinese (traditional), Chinese (simplified), Korean, Cyrillic, and Thai, only the fonts downloaded by the user can be checked.



Setting	Description				
	 Select the font to check the image from [Japan16 x 16], [Japan32 x 32], [PF Arial S], [PF 7Segments S], [PF Russian S], [ASCII Characters], [PF Chinese S], [PF Japanese S], [PF Taiwanese S], [PF Korean S], [PF Thai S], [PF SongTi], [PF FangSong], [PF Dotum], [PF Batang], [PF TRSongTi], and [PF TRMingLiu]. When a font name is touched, the pattern display check screen for the font is displayed. NOTE Only the ASCII font group displays items in other screens. 				
Font List	ASCII 6×18 8×2 6 7 9 6 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 9 6 9 7 9 1				

Check Touch Panel

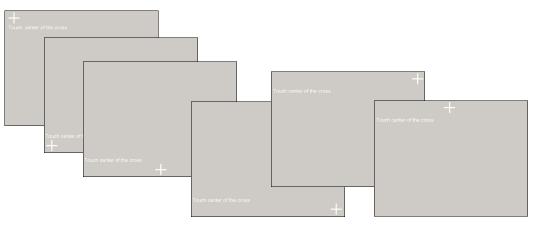
It is the check of touch panel. Check the touched part lights up correctly.



Setting	Description
Touch Panel Check	 Touch anywhere on the panel and the dots at the touched coordinates light up. You can visually check the highlight display of the touched part. NOTE The color of the dot can be changed by touching any of the upper right (yellow), upper left (blue), or lower left (red) corners of the screen.
END	Return to the menu screen.

Calibrate Touch Panel

Correct an analog touch panel. (setup of a calibration)



Setting	Description
	Continue touching until the crosshatch moves or disappears.
Touch Center of the Cross	 NOTE When a place other than the crosshatch is touched, the input is recognized as an error and the calibration mode does not finish successfully.

Check COM1/COM2/LAN

Check the sending and receiving line of RS-232C, RS-422 and LAN. Usually when abnormality occurs, it checks. It selects check item from the menu. When it checks RS-232C and RS-422, connection of the SIO cable is necessary.

Check Pattern	Check Font	Check Touch Panel	Calibrate Touch Panel	Check COM1/COM2/LAN
Memory Info	Color Tone			
		COM1/RS232C		
		COM1/RS422		
		COM2/RS422		
		LAN		
	Exit		Back	2006/05/22 01:54:07

Setting	Description		
COM1/RS232C	Check whether the COM1 terminal (RS-232C) of the GP is operating properly.		
COM1/RS422	Check whether the COM1 terminal (RS-422) of the GP is operating properly.		
COM2/RS422	Check whether the COM2 terminal of the GP is operating properly.		
	Check the internal loopback and the MAC address.		
LAN	• This item is not displayed when the GP does not have a LAN interface.		
NOTE	• To check the COM1 and COM2 ports, preparation of a loopback cable is		

• To check the COM1 and COM2 ports, preparation of a loopback cable is required. For details, refer to the following page.

"2.8.1 Checking whether the Display is operating properly Preparing a loopback cable" (page 2-40)

Memory Info

The memory total and memory usage of GP are displayed.

Check Pattern	Check Font	Check Touch Panel	Calibrate Touch Panel	Check COM1/COM2/LAN
Memory Info	Color Tone			
NAND USE/TOTAL	5739(KB)/ 32	752(KB)		
CF USE/TOTAL	. 1050(KB)/ 31	280(KB)		
USB USE/TOTAL	_ 24608(KB)/250	352(KB)		
USE			FREE	
	Exit		Back	2006/05/22 10:48:56

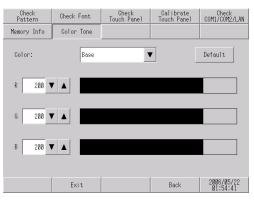
Setting Description	
	Display the total capacity and used amount of the memory of NAND (area in which the screen data is stored). The histogram shows the used amount in blue and free space in green.

Continued

Setting	Description
CF USE/TOTAL	Display the total capacity and used amount of the memory of the CF card. The histogram shows the used amount in blue and free space in green.
USB USE/TOTAL	 Display the total capacity and used amount of the USB memory. The histogram shows the used amount in blue and free space in green. NOTE The maximum capacity displayed for each device is 2,097,151 KB (2,147,483,647 bytes or approximately 2 GB). Even if the total capacity or free space is more than the maximum capacity, it is displayed as 2,097,151 KB. This histogram is not displayed when USB memory is not attached.

♦ Color Tone

The color tone in offline mode can be changed.



Setting	Description
Color	The change part of a color tone select from "Base", "Text", and "Back-Ground."
Default	Returns to an initial condition.
RGB	 The color tone for the part specified in [Color] is changed. Enter the setting values for R, G, and B within the range of 0 to 255. The values can be entered using the following three methods: Inputs numerically Touch the numerical value, and value of each element is input with the displayed keyboard. Input drum button Numerical value is modified with the drum button of numeric field side. It changes +5 or -5 each. Input directly Touch the histogram of each element directly, it modifies numerical value.

Transfer

◆ Transfer Project File

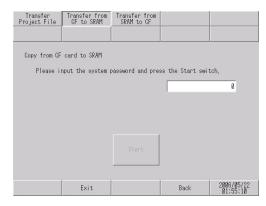
Set this item to transfer a project file in offline mode.

Transfer Project File	Transfer from CF to SRAM	Transfer from SRAM to CF		
Execute	the Project File	transfer.		
				0000 (05 (00
	Exit		Back	2006/05/22 01:55:06

Setting	Description
Execute the Project File transfer.	 To transfer a project file in offline mode, you need to use the screen above to set the GP to the transfer waiting status. When a message [Execute the Project File transfer] is displayed, use the GP-Pro EX to transfer the project file. NOTE After the project file is transferred, the GP is restarted automatically. When the setting is changed in offline mode but is not saved, the [Save File] dialog box is displayed.

Transfer from CF to SRAM

You can transfer the SRAM backup data stored in the CF card (the data transferred with [Transfer from SRAM to CF]) to the internal memory (SRAM).



Setting	Description
Please input the sys- tem password and press the Start switch.	Touch the system password input field and enter the system password. If the system password has not been set, enter the standard password [1101].
Start	Start the transfer of the backup SRAM data stored in the CF card to the GP.

NOTE

IM

Transfer from SRAM to CF

The data of internal memory (SRAM) is transferred to the CF card.

• The data of SRAM can be transferred to the CF card via functions which operate on GP-Pro EX. For the details, refer to the following page.

GP-Pro EX Reference Manual "5.17.6 [System Settings] Setting Guide • Memory Card Settings" (page 5-166)

Transfer Project File	Transfer from CF to SRAM	Transfer from SRAM to CF		
Copy from SR	AM to CF card			
Please i	nput the system (password and pres	ss the start sw	itch.
				0
		(
		Start		
	Exit		Back	2006/05/22

Setting	Description
Please input the sys- tem password and press the start switch.	Touch the system password input field and enter the system password. If the system password has not been set, enter the standard password [1101].
Start	Start the transfer of the backup SRAM data in the GP to the CF card. A file with a name of \SRAM\Z000001BIN will be created on the CF card.

/IPORTANT	•	Ensure that the available space in the CF card is always larger than the size
		of the backup SRAM.

- Only one file in the backup SRAM can be saved in the CF card.
- When [Initialize CF card] is executed in offline mode, an SRAM folder is created.
- When a transfer from the CF card to the backup SRAM is executed in offline mode, all the previously stored data (logging data, etc.) is erased and replaced with the transferred data.
- Even when the transfer from the CF card to the backup SRAM is executed in offline mode, the setting values for [Bright], [Contrast], and [Volume] do not change. Note, however, that when the GP enters RUN mode or the GP is once turned OFF and turned ON again, the transferred data will be used for operation.
- When the transfer from the CF card to the backup SRAM is executed in offline mode, and if VGA or SVGA display is used, the adjusted VGA/SVGA display may be changed.
- When the transfer from the CF card to the backup SRAM is executed in offline mode, the previously stored information learned with Japanese FEP is overwritten. Consequently, the priority in the conversion list of Japanese FEP may change.

External file operation setting guide

♦ String Table Load

Set parameters to rewrite the data in the string table offline.

String Table Load	CSV Data Index				
Update Text	Table				
Load:			• CF Card	⊙ USB S	torage
Load Fil	e on Startup:		🕤 Enable	● Disab	le
Auto Del	ete External File		🕤 Enable	⊙ Disab	le
Manually	Load :		-1		
		Start			
	1				
	Exit		E	3ack	2001/04/27 06:18:32

Setting	Description
Load	Select the location where the external file is stored from [CF Card] or [USB Storage].
Load File on Startup	 Set whether to read the file in the external storage when the GP starts. NOTE When [Enable] is selected, the time required to start the GP may become longer.
Auto Delete External File	 Set whether to automatically delete the data of the string table in the external storage after it is automatically read. NOTE Even when [Enable] is selected, the external file will not be deleted by manual reading.
Manually Load	Touch the [Start] button to start reading of the file stored in the external storage.

CSV Data Index

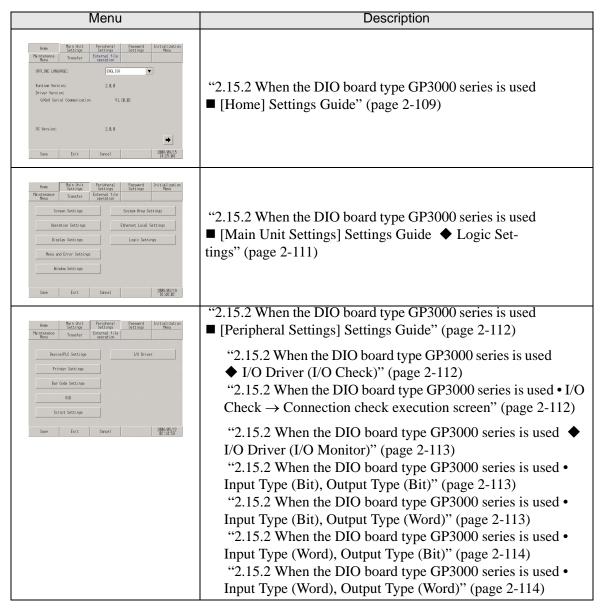
Create an index file of the registered recipe data in CSV format.

• If an index file already exists in the external storage, its data will be overwritten.

String Table Load	CSV Data Index			
Updates t	sert an external	ata ata storage device a		
🔿 USB S	torage			
		Start		
	Exit		Back	2001/04/27 06:18:38

Setting	Description
CF Card	Create an index file in the CF card.
USB Storage	Create an index file in the USB storage.
Start	Start creating an index file.

2.15.2 When the DIO board type GP3000 series is used



■ [Home] Settings Guide

Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu
Maintenance Menu	Transfer	External file operation		
OFFLINE LANG	JAGE:	ENGL ISH	ľ	T
Runtime Vers	ion:	2. 0. 0		
Driver Versi	on:			
Q/QnA Seri	al Communication	n V1. 1	0.02	
OS Version:		2. 0. 0		
Save	Exit	Cancel		2006/09/15 14:25:04

Setting	Description		
OFFLINE LANGUAGE	 Select the language used for the offline menu from [JAPANESE] and [ENGLISH]. NOTE When you use the GP-3200 series and the ST-3000 series, and if you select [System Settings] - [Font] - [Font Used in Project] and uncheck [Japanese Standard Font] with the GP-Pro EX, you cannot select "JAPANESE", which could have been selected as the top item for "OFFLINE LANGUAGE", and also cannot select other languages from the combo box. The combo box is disabled and does not accept 		
Duration e Manaian	touch.		
Runtime Version	Display the runtime version.		
Driver Version	Display the protocol driver version. 4 drivers of active maximum amount are displayed. In case of the GP- 3300 series 2 drivers of active maximum amount are displayed.		
OS Version	Display the OS version.		
Device Monitor Version	OS Version: 2.0.0 Device Monitor Version: V1.00.00 Save Exit Cancel Only when [Device Monitor] is selected in the [Main Unit Settings]- [Extended Settings] tab in the System Settings window, Device Moni- tor Version is displayed.		

Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu
Maintenance Menu	Transfer	External file operation		
1/0 Driver M D10 Dri		V8. I	00.01	

Setting	Description
I/O Driver Version	Display the name and runtime version of the I/O driver.

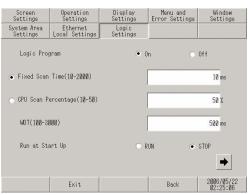
Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu	
Maintenance Menu	Transfer	External file operation			
Project Info	rmation				
Last Saved	d Date and Time:	2006/03/	31 14:49		
Model Info):	AGP-3600	IT-D81K		
Display Co	olors:	16384 Colors, 3-Speed Blink		31 ink	
Creation E	Creation Editor Name:		GP-Pro EX		
Creation Editor Version:		VØ. 00. 00	0		
Creator:	Creator:				
Comment:					
				+	
Save	Exit	Cancel		2006/05/22 10:24:29	

Setting	Description
Last Saved Date and Time	Display the last saving day and time of project.
Model Info	Display the setting GP model.
Display Colors	Display the setting colors.
Creation Editor Name	Display the editor name which created the project.
Creation Editor Version	Display the editor version which created the project.
Creator	Display the creator name of project.
Comment	Display the comment of project.

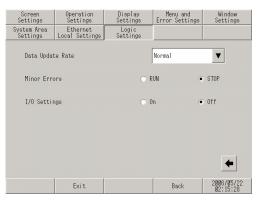
■ [Main Unit Settings] Settings Guide

♦ Logic Settings

Adjust the settings for the logic program.



Setting	Description
Logic Program	When [On] is selected, all of the following items can be set. When [Off] is selected, none of them can be set.
Fixed Scan Time	Set the execution time of the logic function to a value within the range of 10 to 2,000 ms.
CPU Scan Percentage	Set the ratio of the execution time of the logic function to a value within the range of 10% to 50%.
WDT	Set the watch dog timer to a value between 100 and 3,000 ms.
Run a Start Up	Select the logic operation when the GP unit is turned ON from [RUN] and [STOP].

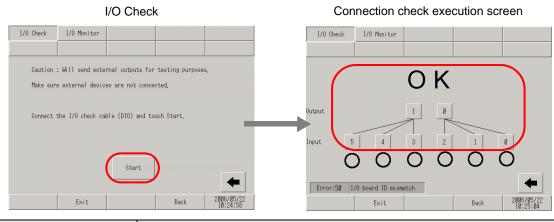


Setting	Description
Data Update Rate	Select the speed to update the value of the connected device or internal device address assigned to the logic program from [Fastest], [Normal], and [Slowest].
Minor Errors	Select the controller operation when an error continues from [RUN] and [STOP].
I/O Settings	Select [On] to use I/O operation. Select [Off] to stop I/O operation.

■ [Peripheral Settings] Settings Guide

♦ I/O Driver (I/O Check)

• I/O Check \rightarrow Connection check execution screen



	Setting	Description	
I/C) Check	This screen is used to start the I/O check.	
	Start	 Display the connection check execution screen and start the I/O check. NOTE To start the I/O check, a loopback cable must be connected. The wiring of the loopback cable is different depending on the type of DIO board: Sink type and source type. Refer to the following section for the wiring. 	
		^{CP} "2.9.2 Checking whether the DIO interfaces of the Display turn ON/OFF properly ■ Checking the internal terminals" (page 2-46)	
	onnection check exe- ition screen	This screen is used to execute the connection check.	
	Connection check execution screen	Connect the loopback cable to the DIO board, send data from the two output terminals to the six input terminals, and compare the input and output data. When the data matches with the expected value, the oper- ation is judged as correct and [OK] is displayed on the screen. When the data does not match with the expected value, [NG] is displayed.	

Input Type

Output Type

I/O Driver (I/O Monitor)

Exit

Input Type (Bit), Output Type (Bit)
Bit/Word selection screen
Input
I/0 theck
I/0 Monitor
I

Word

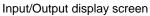
Word

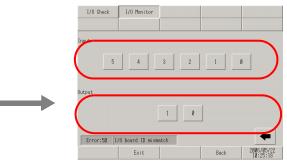
2006/05/22

• Bit

⊛ Bit

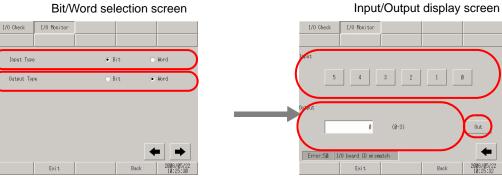
Back





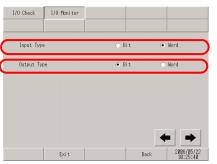
	Setting	Description
Bit/Word selection screen		This screen is used to select whether to display the I/O status in bits or words.
	Input Type	Select the type of the input value from [Bit] and [Word].
	Output Type	Select the type of the output value from [Bit] and [Word].
Input scree	Output display	This screen displays the I/O status in bits.
	Input	Display the current ON/OFF status of input bits 0 to 5 of DIO.
	Output[1]	Touching the item toggles output bit 1 of DIO ON/OFF.
	Output[0]	Touching the item toggles output bit 0 of DIO ON/OFF.

• Input Type (Bit), Output Type (Word) Bit/Word selection screen

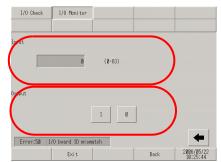


	Setting	Description
Bit/Word selection screen		This screen is used to select whether to display the I/O status in bits or words.
	Input Type	Select the type of the input value from [Bit] and [Word].
	Output Type	Select the type of the output value from [Bit] and [Word].
Input/ scree	Output display	This screen displays the input status in bits, and output status in words.
	Input	Display the current ON/OFF status of input bits 0 to 5 of DIO.
	Output	Touch this item to display numeric touch keys. Set the output value between 0 and 3.
	Output	Output the value set using the numeric touch keys displayed when the input field is touched.

Input Type (Word), Output Type (Bit) • Bit/Word selection screen

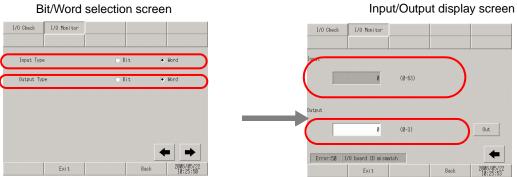


Input/Output display screen



	Setting	Description
Bit/Word selection		This screen is used to select whether to display the I/O status in bits or
scree	n	words.
	Input Type	Select the type of the input value from [Bit] and [Word].
	Output Type	Select the type of the output value from [Bit] and [Word].
Input/ scree	Output display	This screen displays the input status in words, and output status in bits.
	Input	Display the current input value of DIN with a value between 0 and 63.
	Output[1]	Touching the item toggles output bit 1 of DIO ON/OFF.
	Output[0]	Touching the item toggles output bit 0 of DIO ON/OFF.

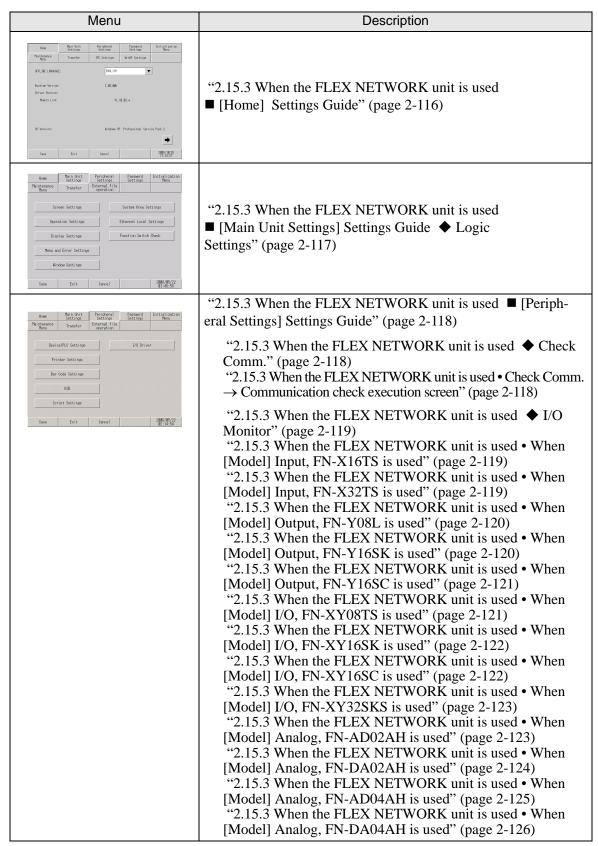
Input Type (Word), Output Type (Word) ٠



Setting		Description
Bit/Word selection screen		This screen is used to select whether to display the I/O status in bits or words.
	Input Type	Select the type of the input value from [Bit] and [Word].
	Output Type	Select the type of the output value from [Bit] and [Word].
Input/ scree	Output display	This screen displays the input/output status in words.
Input		Display the current input value of DIN with a value between 0 and 63.
Output Output		Touch this item to display numeric touch keys. Set the output value between 0 and 3.
		Output the value set using the numeric touch keys displayed when the input field is touched.

Bit/Word selection screen

2.15.3 When the FLEX NETWORK unit is used



■ [Home] Settings Guide

Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu
Maintenance Menu	Transfer	External file operation		
OFFLINE LANG	UAGE:	ENGLISH		•
Runtime Vers	ion:	2.0.0		
Driver Versi	on:			
Q/QnA Seri	al Communication	v1.	10.02	
OS Version:		2. 0. 0		
				•
Save	Exit	Cancel		2006/09/15 14:25:04

Setting	Description		
OFFLINE LANGUAGE	Select the language used for the offline menu from [JAPANESE] and [ENGLISH].		
Runtime Version	Display the runtime version.		
Driver Version	Display the protocol driver version. 4 drivers of active maximum amount are displayed. In case of the GP- 3300 series 2 drivers of active maximum amount are displayed.		
OS Version	Display the OS version.		
Device Monitor Version	OS Version: 2.0.0 Device Monitor Version: V1.00.00 Save Exit Cancel Only when [Device Monitor] is selected in the [Main Unit Settings]- [Extended Settings] tab in the System Settings window, Device Moni- tor Version is displayed.		

Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu
Maintenance Menu	Transfer	External file operation		
1/0 Driver FLEX N	Version : ETWORK Driver	V8.	80. 82	• •
Save	Exit	Cancel		2006/05/22 02:15:00

Setting	Description
I/O Driver Version	Display the name and runtime version of the I/O driver.

Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu
Maintenance Menu	Transfer	External file operation		
Project Info				
Last Saved	I Date and Time:	2006/03/	31 14:49	
Model Info	c.	AGP-3600	T-D81K	
Display Co	ilors:	16384 Colors, 3-Speed Blink		
Creation E	ditor Name:	GP-Pro EX		
Creation E	ditor Version:	V0. 00. 000		
Creator:				
Comment:				
				+
Save	Exit	Cancel		2006/05/22 10:24:29

Setting	Description
Last Saved Date and Time	Display the last saving day and time of project.
Model Info	Display the setting GP model.
Display Colors	Display the setting colors.
Creation Editor Name	Display the editor name which created the project.
Creation Editor Version	Display the editor version which created the project.
Creator	Display the creator name of project.
Comment	Display the comment of project.

■ [Main Unit Settings] Settings Guide

♦ Logic Settings

Screen Settings	Operation Settings	Display Settings	Menu and Error Settings	Window Settings
System Area Settings	Ethernet Local Settings	Logic Settings		
Logic Program		• 0	n O	Off
Fixed Scan	Time(10-2000)			10 ms
🔿 CPU Scan P	ercentage(10-50)	[50 X
WDT(100-3000)				500 ms
Run at Sta	art Up	© RI	JN •	STOP
	Exit		Back	2006/05/22 02:25:06

Setting	Description
Logic Program	When [On] is selected, all of the following items can be set. When [Off] is selected, none of them can be set.
Fixed Scan Time	Set the execution time of the logic function to a value within the range of 10 to 2,000 ms.
CPU Scan Percentage	Set the ratio of the execution time of the logic function to a value within the range of 10% to 50%.
WDT	Set the watch dog timer to a value between 100 and 3,000 ms.
Run at Start Up	Select the logic operation when the GP unit is turned ON from [RUN] and [STOP].

Screen Settings	Operation Settings	Display Settings	Menu and Error Settings	Window Settings
System Area Settings	Ethernet Local Settings	Logic Settings		
Data Updat	ce Rate		Normal	V
Minor Erro	ors	• 1	RUN (•	STOP
I/O Settir	igs	•	0n •	• Off
				+
	Exit		Back	2006/05/22 02:15:28

Setting	Description
Data Update Rate	Select the speed to update the value of the connected device or internal device address assigned to the logic program from [Fastest], [Normal], and [Slowest].
Minor Errors	Select the controller operation when an error continues from [RUN] and [STOP].
I/O Settings	Select [On] to use I/O operation. Select [Off] to stop I/O operation.

■ [Peripheral Settings] Settings Guide

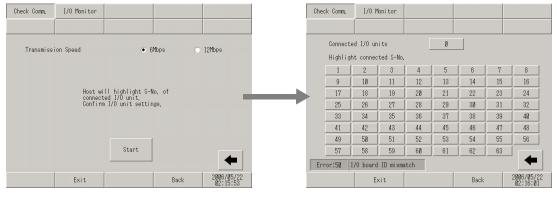
Check Comm.

Perform Check Comm. to display the check result.

• Check Comm. \rightarrow Communication check execution screen

Check Comm.

Communication check execution screen



Setting		Description	
Cł	neck Comm.	This is the screen to start the communication check.	
	Transmission Speed	Select the transmission speed from [6Mbps] and [12Mbps].	
Start		Display the communication check execution screen and start the com- munication check.	
	ommunication check ecution screen	The communication check is executed on this screen.	
	Connected I/O units	Display the total number of units with which communication was successful.	
	Highlight connected S-No.	Highlight the S-No. of the unit with which communication was successful.	

Maintenance/Troubleshooting

♦ I/O Monitor

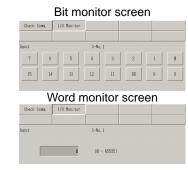
• When [Model] Input, FN-X16TS is used

Unit s	etting screen	Bit monitor screen
Check Comm. I/O Monitor		Check: Comm, 1/0 Monitor
		Inout S-No, 1
Transmission Speed	● 6Mbps	7 6 5 4 3 2 1
S-No.	1	<u>15</u> <u>14</u> <u>13</u> <u>12</u> <u>11</u> <u>10</u> <u>9</u>
Model Input	FN-X16TS	Word monitor screen
Model Input Type	FN-X16TS Bit Word	Under Come. 1/0 Revisor
		Check: Com. 1/10 Hoxister

	Setting	Description
Unit setting screen		Select the station number and model of the unit to which the I/O mon- itor is applied.
	Transmission Speed	Select the transmission speed from [6Mbps] and [12Mbps].
	S-No.	Enter the S-No. of the unit to which the I/O monitor is applied within the range of 1 to 63.
	Model	Select the model of the unit to which the I/O monitor is applied.
	Туре	Select the type of the I/O data from [Bit] and [Word].
Bi	t monitor screen	Display the resulting input status of the I/O monitor in bits.
Word monitor screen		Display the resulting input status of the I/O monitor in words.

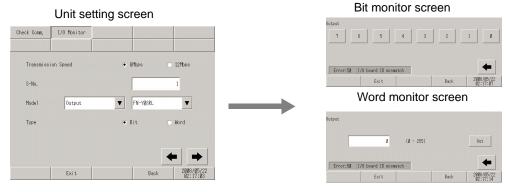
• When [Model] Input, FN-X32TS is used

	Unit S	etting screer	1
Check Comm.	I/O Monitor		
Transmissi	on Speed	• 6Mbps	 12Mbps
S-No,			1
Model	Input	FN-X32TS	V
Туре		• Bit	🔿 Word
			← →
	Exit	Back	2006/05/22 02:16:38



Setting		Description
Unit setting screen		Select the station number and model of the unit to which the I/O mon- itor is applied.
	Transmission Speed	Select the transmission speed from [6Mbps] and [12Mbps].
	S-No.	Enter the S-No. of the unit to which the I/O monitor is applied within the range of 1 to 62.
	Model	Select the model of the unit to which the I/O monitor is applied.
	Туре	Select the type of the I/O data from [Bit] and [Word].
Bi	t monitor screen	 Display the resulting input status of the I/O monitor in bits. NOTE A group of 16 bits can be monitored simultaneously. To monitor inputs 16 to 31, return to the previous screen once, increment the value of [S-No.] by 1, and then start monitoring.
W	ord monitor screen	Display the resulting input status of the I/O monitor in words.

When [Model] Output, FN-Y08L is used ٠



Setting	Description
Unit setting screen	Select the station number and model of the unit to which the I/O mon- itor is applied.
Transmission Speed	Select the transmission speed from [6Mbps] and [12Mbps].
S-No.	Enter the S-No. of the unit to which the I/O monitor is applied within the range of 1 to 63.
Model	Select the model of the unit to which the I/O monitor is applied.
Туре	Select the type of the I/O data from [Bit] and [Word].
Bit monitor screen	Display the resulting output status of the I/O monitor in bits.
Word monitor screen	Display the resulting output status of the I/O monitor in words.

11

Bacl

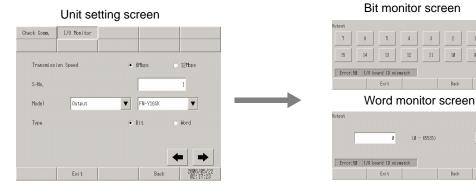
Back

2006/05/2 02:17:28

Out 4

2006/05/22 02:17:30

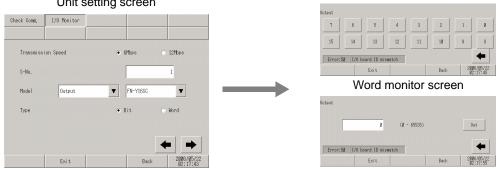
When [Model] Output, FN-Y16SK is used ٠



Setting	Description
Unit setting screen	Select the station number and model of the unit to which the I/O mon- itor is applied.
Transmission Speed	Select the transmission speed from [6Mbps] and [12Mbps].
S-No.	Enter the S-No. of the unit to which the I/O monitor is applied within the range of 1 to 63.
Model	Select the model of the unit to which the I/O monitor is applied.
Туре	Select the type of the I/O data from [Bit] and [Word].
Bit monitor screen	Display the resulting output status of the I/O monitor in bits.
Word monitor screen	Display the resulting output status of the I/O monitor in words.

Maintenance/Troubleshooting

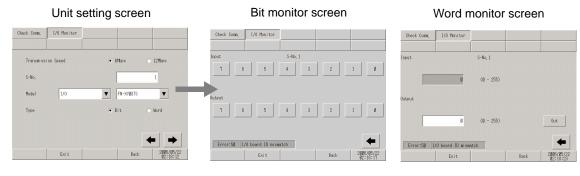
• When [Model] Output, FN-Y16SC is used



Bit monitor screen

	Setting	Description
Unit s	setting screen	Select the station number and model of the unit to which the I/O mon- itor is applied.
	Transmission Speed	Select the transmission speed from [6Mbps] and [12Mbps].
	S-No.	Enter the S-No. of the unit to which the I/O monitor is applied within the range of 1 to 63.
	Model	Select the model of the unit to which the I/O monitor is applied.
	Туре	Select the type of the I/O data from [Bit] and [Word].
Bit m	onitor screen	Display the resulting output status of the I/O monitor in bits.
Word	monitor screen	Display the resulting output status of the I/O monitor in words.

• When [Model] I/O, FN-XY08TS is used



	Setting	Description
Unit s	setting screen	Select the station number and model of the unit to which the I/O mon- itor is applied.
	Transmission Speed	Select the transmission speed from [6Mbps] and [12Mbps].
	S-No.	Enter the S-No. of the unit to which the I/O monitor is applied within the range of 1 to 63.
	Model	Select the model of the unit to which the I/O monitor is applied.
	Туре	Select the type of the I/O data from [Bit] and [Word].
Bit m	onitor screen	Display the resulting input/output status of the I/O monitor in bits.
Word	monitor screen	Display the resulting input/output status of the I/O monitor in words.

Unit setting screen

• When [Model] I/O, FN-XY16SK is used



Setting	Description
Unit setting screen	Select the station number and model of the unit to which the I/O mon- itor is applied.
Transmission Speed	Select the transmission speed from [6Mbps] and [12Mbps].
S-No.	Enter the S-No. of the unit to which the I/O monitor is applied within the range of 1 to 63.
Model	Select the model of the unit to which the I/O monitor is applied.
Туре	Select the type of the I/O data from [Bit] and [Word].
Bit monitor screen	Display the resulting input/output status of the I/O monitor in bits.
Word monitor screen	Display the resulting input/output status of the I/O monitor in words.

• When [Model] I/O, FN-XY16SC is used



Bit monitor screen

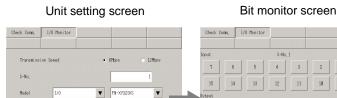
Word monitor screen



	Setting	Description
Unit s	setting screen	Select the station number and model of the unit to which the I/O mon- itor is applied.
	Transmission Speed	Select the transmission speed from [6Mbps] and [12Mbps].
	S-No.	Enter the S-No. of the unit to which the I/O monitor is applied within the range of 1 to 63.
	Model	Select the model of the unit to which the I/O monitor is applied.
	Туре	Select the type of the I/O data from [Bit] and [Word].
Bit m	onitor screen	Display the resulting input/output status of the I/O monitor in bits.
Word	monitor screen	Display the resulting input/output status of the I/O monitor in words.

Exit

When [Model] I/O, FN-XY32SKS is used ٠

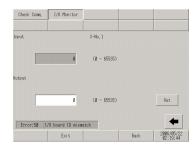


🖲 Bit

7

15

14 Error:58 I/O board ID mismatch Word monitor screen



	Setting	Description
Unit	setting screen	Select the station number and model of the unit to which the I/O mon- itor is applied.
	Transmission Speed	Select the transmission speed from [6Mbps] and [12Mbps].
	S-No.	Enter the S-No. of the unit to which the I/O monitor is applied within the range of 1 to 60.
	Model	Select the model of the unit to which the I/O monitor is applied.
	Туре	Select the type of the I/O data from [Bit] and [Word].
Bit m	ionitor screen	 Display the resulting input/output status of the I/O monitor in bits. NOTE A group of 16 bits can be monitored simultaneously. To monitor inputs 16 to 31, return to the previous screen once, increment the value of [S-No.] by 1, and then start monitoring.
Word	monitor screen	Display the resulting input/output status of the I/O monitor in words.

4 3 2

13 12 11

Exit

• When [Model] Analog, FN-AD02AH is used

12Mbps

v

Unit setting screen Check Comm, I/O Monitor

• 6Mbps

▼ FN-AD82AH

Trans

S-No.

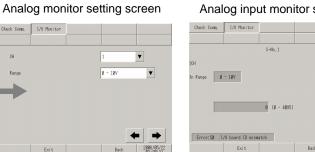
Model

Exit

Check Comm.

CH

Range



8

0

8

10 9

Analog input monitor screen



	Setting	Description
Unit se	etting screen	Select the station number and model of the unit to which the I/O mon- itor is applied.
	Transmission Speed	Select the transmission speed from [6Mbps] and [12Mbps].
5	S-No.	Enter the S-No. of the unit to which the I/O monitor is applied within the range of 1 to 63.
ſ	Model	Select the model of the unit to which the I/O monitor is applied.
		Continued

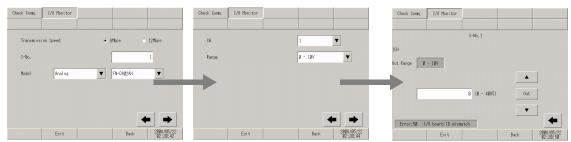
Setting		Description		
Analo scree	og monitor setting en	Set the channel and range to be checked.		
	СН	Select the channel to be checked from 1 or 2.		
	Range	Select the range to be checked from [0 - 10V], [0 - 20mA], and [4 - 20mA].		
Analo scree	og input monitor en	Display the resulting input status of the I/O monitor in words.		
	S-No.	Display the S-No. assigned to the AD unit.		
	In Range	Display the range selected on the analog monitor setting screen.		
	Input value dis- play	Display the 12-bit AD value read from the unit.		

• When [Model] Analog, FN-DA02AH is used

Unit setting screen

Analog monitor setting screen

Analog output monitor screen



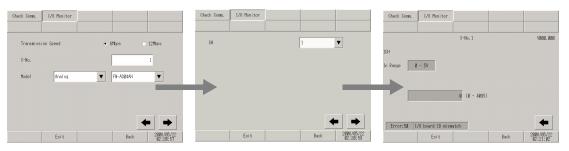
Setting		Description		
Unit setting screen		Select the station number and model of the unit to which the I/O mon- itor is applied.		
	Transmission Speed	Select the transmission speed from [6Mbps] and [12Mbps].		
	S-No.	Enter the S-No. of the unit to which the I/O monitor is applied within the range of 1 to 63.		
	Model	Select the model of the unit to which the I/O monitor is applied.		
Anale scree	og monitor setting en	Set the channel and range to be checked.		
	СН	Select the channel to be checked from 1 or 2.		
Range		Select the range to be checked from [0 - 10V], [0 - 20mA], and [4 - 20mA].		
Anale scree	og output monitor en	Display the resulting output status of the I/O monitor in words.		
	S-No.	Display the S-No. assigned to the DA unit.		
	Out Range	Display the range selected on the analog monitor setting screen.		
Numerical value input field		Specify the 12-bit DA value to be output to the unit.		
	Out	Output the specified DA value to the unit.		
	$\uparrow\downarrow$	These switches are used to increment/decrement the DA value to be output by ± 1 .		

• When [Model] Analog, FN-AD04AH is used

Unit setting screen

Analog monitor setting screen

Analog input monitor screen



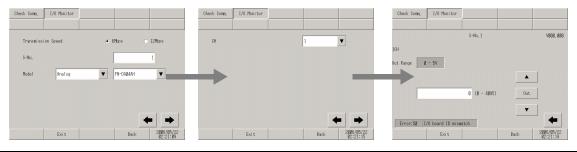
Setting	Description
Unit setting screen	Select the station number and model of the unit to which the I/O mon- itor is applied.
Transmission Speed	Select the transmission speed from [6Mbps] and [12Mbps].
S-No.	Enter the S-No. of the unit to which the I/O monitor is applied within the range of 1 to 60.
Model	Select the model of the unit to which the I/O monitor is applied.
Analog monitor set screen	ting Set the channel and range to be checked.
СН	Select the channel to be checked from 1 to 4.
Analog input monito	Display the resulting input status of the I/O monitor in words.
S-No.	Display the S-No. assigned to the AD unit.
Version	Display the version of the unit.
In Range	Displays the range set for the unit.
Input value di	splay Display the 12-bit AD value read from the unit.

• When [Model] Analog, FN-DA04AH is used

Unit setting screen

Analog monitor setting screen

Analog output monitor screen



Setting	Description		
Unit setting screen	Select the station number and model of the unit to which the I/O mon- itor is applied.		
Transmission Speed	Select the transmission speed from [6Mbps] and [12Mbps].		
S-No.	Enter the S-No. of the unit to which the I/O monitor is applied within the range of 1 to 60.		
Model	Select the model of the unit to which the I/O monitor is applied.		
Analog monitor setting screen	Set the channel and range to be checked.		
СН	Select the channel to be checked from 1 to 4.		
Analog output monitor screen	Display the resulting output status of the I/O monitor in words.		
S-No.	Display the S-No. assigned to the DA unit.		
Version	Display the version of the unit.		
Out Range	Displays the range set for the unit.		
Numerical value input field	Specify the 12-bit DA value to be output to the unit.		
Out	Output the specified DA value to the unit.		
$\uparrow\downarrow$	These switches are used to increment/decrement the DA value to be output by ± 1 .		

2.15.4 When the movie function of the GP-3*50 series is used

Menu	Description
Hom Pain Unit Settings Perioderal Settings Perioderal Settings Initialization Period Minimamance Brins Transfer Extending the sections Settings Initialization Period Screen Settings Sorten Area Settings Extending Extending Operation Settings Controller Settings External Settings New and Error Settings Wildo Settings Wildo Settings Mindew Settings Wildo Settings Wildo Settings Swee Exit Concel 2000/00/11/2015	 "2.15.4 When the movie function of the GP-3*50 series is used [Main Unit Settings] Settings Guide" (page 2-127) "2.15.4 When the movie function of the GP-3*50 series is used ◆ Video Settings (General)" (page 2-127) "2.15.4 When the movie function of the GP-3*50 series is used ◆ Video Settings (Video)" (page 2-128) "2.15.4 When the movie function of the GP-3*50 series is used ◆ Video Settings (Recording)" (page 2-128) "2.15.4 When the movie function of the GP-3*50 series is used ◆ Video Settings (Recording)" (page 2-130) "2.15.4 When the movie function of the GP-3*50 series is used ◆ Video Settings (Recording)" (page 2-130) "2.15.4 When the movie function of the GP-3*50 series is used ◆ Video Settings (Recording)" (page 2-130)

■ [Main Unit Settings] Settings Guide

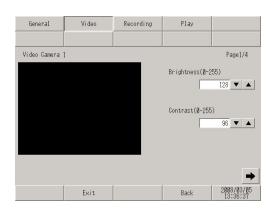
♦ Video Settings (General)

General	Vi deo	Recording	Play	
	Video Signal	 NTSC 		
		🔿 PAL		
		🔘 SECA	M	
	Recording Re	solution		
		💿 QVGA	(320×240)	
			 384 Kbps 	
			🔿 256 Kbps	
		O QCIF	(176×144)	
			💿 128 Kbps	
Restart to us	e these settings			
	Exit		Back	2006/04/06 10:20:58

Setting	Description
Video SignalSelect the input video signal.• NTSC: 640 x 480 dots• PAL: 768 x 576 dots• SECAM: 768 x 576 dots	
Recording Resolution	 Select the recording resolution. QVGA(384kbps): 320 x 240 dots QVGA(256kbps): 320 x 240 dots QCIF(128kbps): 176 x 144 dots QCIF(64kbps): 176 x 144 dots

Video Settings (Video)

(1/4)



Setting	Description	
Brightness Set the brightness of the video camera. The available range is betw and 255.		
Contrast Set the contrast of the video camera. The available range is betward 255.		

(2/4)

			1	1
General	Video	Recording	Play	
Video Camera 2			<u>]</u>	Page2/4
			Video Camera	
			None	
			Sharpness(1-7)
				1
			O Noise decr	ease(1-8)
			J	1
			Sharpness Fil	ter Cycle
			🔹 Off 🔿 Or	n
		1	1	
	Exit		Back	2008/03/05 13:36:41

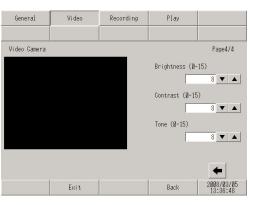
Setting	Description		
Video Camera	Select the adjustment type of the video camera from [None], [Sharpness], and [Noise decrease]. Although [Sharpness] displays subjects more clearly, it may also display noise more clearly. [Noise decrease] decreases contrast to blur noise. When selecting [Sharpness], specify the effect from 1 (weak) to 7 (strong).		
Sharpness Filter Cycle	Set whether to emphasize the outline of the brightness signal. This allows a clearer representation of the details of the image.		

(3/4)

General	Vi deo	Recording	P1 ay	
Video Camera 3			<u> </u>	Page3/4
			Chroma(U)(0-2	55) 127 V A
			Chroma(V)(0-2	55)
			Tone(0-255)	90 🔻 🔺
				← →
	Exit		Back	2008/03/05 13:36:45

Setting	Description
Chroma(U)	To represent colors using three types of information: brightness signals (Y); the difference between brightness signals and blue components (U); and the difference between brightness signals and red components (V) (i.e. YUV representation), set the difference between brightness signals and blue components to a value between 0 and 255. When human eyes are used to adjust this value, more data can be assigned to the brightness information, resulting in a high data compression ratio with less degradation in image quality.
Chroma(V)	To represent colors using three types of information: brightness signals (Y); the difference between brightness signals and blue components (U); and the difference between brightness signals and red components (V) (i.e. YUV representation), set the difference between brightness signals and red components to a value between 0 and 255. When human eyes are used to adjust this value, more data can be assigned to the brightness information, resulting in a high data compression ratio with less degradation in image quality.
ToneSet the color tone of the video camera screen. The available rangebetween 0 and 255.	

(4/4)

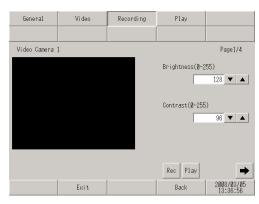


Setting	Description	
Brightness	Set the brightness of the screen. The available range is between 0 and 15.	
Contrast	Set the contrast of the screen. The available range is between 0 and 15.	
Tone	Set the color tone of the screen. The available range is between 0 and 15.	

Maintenance/Troubleshooting

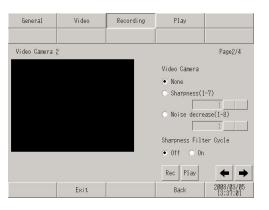
Video Settings (Recording)

(1/4)



Setting	Description		
Brightness	Set the brightness of the video camera. The available range is between 0 and 255.		
Contrast	Set the contrast of the video camera. The available range is between 0 and 255.		

(2/4)



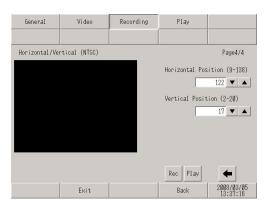
Setting	Description		
Video Camera	Select the adjustment type of the video camera from [None], [Sharpness], and [Noise decrease]. Although [Sharpness] displays subjects more clearly, it may also display noise more clearly. [Noise decrease] decreases contrast to blur noise. When selecting [Sharpness], specify the effect from 1 (weak) to 7 (strong).		
Sharpness Filter Cycle	Set whether to emphasize the outline of the brightness signal. This allows a clearer representation of the details of the image.		

(3/4)

General	Vi deo	Recording	Play	
Video Camera 3				Page3/4
			Chroma(U)(Ø-25	5) 127 V
			Chroma(V)(Ø-25	5)
			Tone(0-255)	90 💌 🔺
				0 🔺 🔺
			Rec Play	+ +
	Exit		Back	2008/03/05 13:37:08

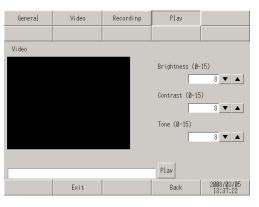
Setting Description	
Chroma(U)	To represent colors using three types of information: brightness signals (Y); the difference between brightness signals and blue components (U); and the difference between brightness signals and red components (V) (i.e. YUV representation), set the difference between brightness signals and blue components to a value between 0 and 255. When human eyes are used to adjust this value, more data can be assigned to the brightness information, resulting in a high data compression ratio with less degradation in image quality.
Chroma(V)	To represent colors using three types of information: brightness signals (Y); the difference between brightness signals and blue components (U); and the difference between brightness signals and red components (V) (i.e. YUV representation), set the difference between brightness signals and red components to a value between 0 and 255. When human eyes are used to adjust this value, more data can be assigned to the brightness information, resulting in a high data compression ratio with less degradation in image quality.
Tone	Set the color tone of the video camera screen. The available range is between 0 and 255.

(4/4)



Setting	Description	
Horizontal Position	 Select the horizontal position of the video input signal. The available range varies depending on the video signal of the camera to be used. When the signal is NTSC Set the horizontal position within the range of 9 to 138. When the signal is PAL Set the horizontal position within the range of 9 to 144. When the signal is SECAM Set the horizontal position within the range of 9 to 144. 	
Vertical Position	 Select the vertical position of the video input signal. The available range varies depending on the video signal of the camera to be used. When the signal is NTSC Set the horizontal position within the range of 2 to 20. When the signal is PAL Set the horizontal position within the range of 2 to 22. When the signal is SECAM Set the horizontal position within the range of 2 to 22. 	

♦ Video Settings (Play)



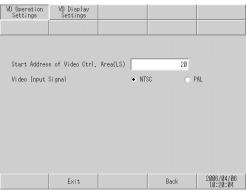
Setting	Description	
Brightness	Set the brightness of the screen. The available range is between 0 and 15.	
Contrast	Set the contrast of the screen. The available range is between 0 and 15.	
Color	Set the color tone of the screen. The available range is between 0 and 15.	

2.15.5 When using the VM unit

Menu	Description	
Nome This linit Settings Persideral Settings Persideral Settings Persideral Settings District initialization Perside Initialization Screen Settings Screen Settings Screen Settings Screen Settings Source Area Settings Source Area Settings Useration Settings Source Area Settings Ethernet Local Settings Direler Settings Control Ier Settings Withit Settings Ninder Settings Video Settings Video Settings Sowe Exit Concel 2880(4)(4)/ 31(2))	 "2.15.5 When using the VM unit ■ [Main Unit Settings] Settings Guide" (page 2-133) "2.15.5 When using the VM unit ◆ VM Unit Settings (VD Operation Settings)" (page 2-133) "2.15.5 When using the VM unit ◆ VM Unit Settings (VD Display Settings)" (page 2-134) 	

■ [Main Unit Settings] Settings Guide

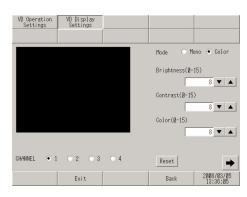
♦ VM Unit Settings (VD Operation Settings)



Setting	Description
Start Address of Video Ctrl.Area(LS)	In the LS area of the GP, the areas from LS0020 to LS1989 and from LS2096 to LS8957 can be specified as the start address of the video control area. The video control area is assigned to 43 consecutive words from the start address.
Video Input Signal	Select the video input signal.NTSC: 640 x 480 dotsPAL: 768 x 576 dots

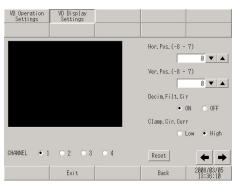
VM Unit Settings (VD Display Settings)

(1/4)



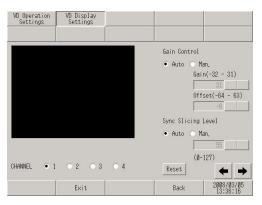
Setting	Description
CHANNEL	Select the channel set in the video window from 1 to 4.
Mode	Select the video input mode from [Color] and [Mono].
Brightness	Set the brightness of the screen. The available range is between 0 and 15.
Contrast	Set the contrast of the screen. The available range is between 0 and 15.
Color	Set the color tone of the screen. The available range is between 0 and 15.
Reset	Reset the settings of the selected channel to the initial values.

(2/4)



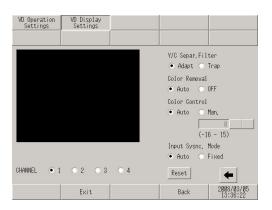
Setting	Description	
CHANNEL Select the channel set in the video window from 1 to 4.		
Hor.Pos.	Set the horizontal position of the video input signals within the range of - 128 to 128.	
Ver.Pos.	Set the vertical position of the video input signals within the range of -16 to 16.	
Decim.Filt.Cir	Turn ON/OFF the decimeter circuit included in the decoder. When monochrome signals are used, the image quality may be better when the signal processing filter (decimeter) is not activated. Under normal condi- tions, leaving this option set to [ON] presents no problem.	
Clamp.Cir.Curr	Select the current setting for the clamp circuit from [Low] and [High]. If the video input signal is outside of the specifications, the synchronization signal or the black level cannot be detected, resulting in an unstable screen display. In such a case, changing the internal current for the clamp circuit may improve the screen.	
Reset	Reset the settings of the selected channel to the initial values.	

(3/4)



	Setting Description		
CH	IANNEL	VEL Select the channel set in the video window from 1 to 4.	
Gain Control		Set the gain control of the digital amplifier circuit. This setting is common to all channels.	
	Gain	When the gain control is set to [Man.] (Manual), set [Gain] (amplifica- tion factor) within the range of -32 to 31.	
	Offset	When the gain control is set to [Man.] (Manual), set [Offset] (black level) within the range of -64 to 63.	
Sy	nc Slicing Level	Select the synchronization slicing level from [Auto] or [Man.] (Manual).	
	Input field	When [Sync. Slicing Level] is set to [Man.] (Manual), set the level within the range of 0 to 127.	
	Reset	Reset the settings of the selected channel to the initial values.	

(4/4)



Setting	Description	
CHANNEL	Select the input channel to which the video device is connected from 1 to 4.	
Y/C Separ.Filter	Select the input Y/C separation filter. When a vivid image is displayed and noise from color signals is conspicuous, selecting [Trap] may decrease the noise. This setting is common to all channels.	

Setting	Description
Color Removal	Select whether to turn ON/OFF the color removal function automatically or to turn it OFF forcefully. When the amplitude level of color burst sig- nals is small, the screen may be switched automatically to show mono- chrome images. When this option is set to [OFF], color images are displayed all the time. This setting is common to all channels.
Color Control	Change the amplification factor of chroma signals. If the amplitude value of chroma signals (including color burst signals) is outside of the specifi- cations and the adjustment functions have no effect on the ability to obtain optimal images, setting this item manually may be effective. This setting is common to all channels.
Input Sysnc.Mode	Set the depth level to detect synchronization signals. If the depth of the synchronization signals of the video input is not as deep as the specifications or if the signals fluctuate, the synchronization signals are not detected, resulting in a screen which does not lock vertically or horizon-tally. When this occurs, adjusting the detection level may stabilize the screen. Under normal conditions, leaving this option set to [Auto] presents no problem. This setting is common to all channels.
Reset	Reset the settings of the selected channel to the initial values.

2.15.6 When using the DVI unit

Menu	Description
Home Main But settings Perioheral settings Period settings	"2.15.6 When using the DVI unit ♦ DVI Unit Settings" (page 2-137)

DVI Unit Settings

DVI Unit Settings			
Start Address	of Dvi Ctrl. Area(_\$)	20
Save	Exit	Cancel	2007/06/15 14:43:39
	6		14.40.08

Setting	Description		
Start Address of Dvi Ctrl. Area(LS)	 Change the value of the DVI control start address within the ranges of LS20 - 2026 and 2096 - 8894. NOTE If a value outside of the ranges is specified, all the DVI functions are disabled. 		

2.15.7 When WinGP is used with IPC (Only when the panel computer is used)

Menu	Description		
Same Print of the same Print	 "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ■ [Main Unit Settings] Setting Guide" (page 2-139) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Operation Settings] setting guide" (page 2-139) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Ethernet Local Settings] setting guide" (page 2-139) 		
Mart Mart Data Particles Particles Particles Min Spirit Data Particles Particles Inhubble Minimum Frendrik Particles Inhubble Inhubble Inhubble Inhubble Inhubble Inhubble	"2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ■ [Initialization Menu] Setting Guide" (page 2-140)		
Instrume Parabasis Parabasis Parabasis Parabasis Non-Straight Program Parabasis	"2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ■ [Maintenance Menu] Setting Guide" (page 2-141)		
Barton Participant Participant <t< td=""><td> "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ■ [IPC Settings] Setting Guide" (page 2-141) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Restart IPC]" (page 2-141) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Detach hardware]" (page 2-142) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Start Explorer]" (page 2-142) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Start Explorer]" (page 2-142) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Start Task Manager]" (page 2-143) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Start Task Manager]" (page 2-143) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Start Task Manager]" (page 2-143) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Specify file name and run]" (page 2-143) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Specify file name and run]" (page 2-143) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Specify file name and run]" (page 2-143) </td></t<>	 "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ■ [IPC Settings] Setting Guide" (page 2-141) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Restart IPC]" (page 2-141) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Detach hardware]" (page 2-142) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Start Explorer]" (page 2-142) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Start Explorer]" (page 2-142) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Start Task Manager]" (page 2-143) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Start Task Manager]" (page 2-143) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Start Task Manager]" (page 2-143) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Specify file name and run]" (page 2-143) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Specify file name and run]" (page 2-143) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Specify file name and run]" (page 2-143) 		
Same Same Paradram Par	 "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ■ [WinGP Settings] Setting Guide" (page 2-145) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Network Settings]" (page 2-144) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Debug Settings]" (page 2-146) "2.15.7 When WinGP is used with IPC (Only when the panel computer is used) ◆ [Transfer Settings]" (page 2-146) 		

■ [Main Unit Settings] Setting Guide

♦ [Operation Settings] setting guide

WinGP				_ [[] ×
File(F) Help(H)				
Screen Settings	Operation Settings	Display Settings	Menu and Error Settings	Window Settings
System Area Settings	Ethernet Local Settings			
Touch Panel Detection:			• ON	© 0FF
Touch Buzzer So	und:		○ Enable	⊙ Disable
	Exit		Back	2006/11/15 00:41:34
				00:41:34

Setting item	Description
Touch Panel Detection	Select the touch panel detection mode. For detection upon a touch on the touch panel, select [ON]. For detection upon release from the touch panel, select [OFF].
Touch Buzzer Sound	 Specify whether to sound the built-in buzzer upon a touch on the touch panel. NOTE "Touch Buzzer Sound" is the setting for the touch buzzer sound of WinGP. It is different from the setting for the touch buzzer sound of IPC. If both IPC and WinGP touch buzzer sound settings are "Enable", you hear the buzzer sound twice when you touch the WinGP screen. In this case, set the WinGP touch buzzer sound to "Disable".

♦ [Ethernet Local Settings] setting guide

% WinGP				_ 🗆 ×
File(F) Help(H)				
Screen Settings	Operation Settings	Display Settings	Menu and Error Settings	Window Settings
System Area Settings	Ethernet Local Settings			
Local Name:				
Port:				5800
	Exit		Back	2006/11/15 00:41:45

Setting item	Description	
Local Name	To specify the node name used for the network, enter up to 32 half-size characters.	

Setting item	Description		
Port	 Specify the port number (5001 to 65516). Ten consecutive port numbers starting from the specified port number are used. However, when the forced transfer screen is displayed on the GP unit, the port number setting is fixed at "8000". NOTE To execute an automatic search via LAN when transferring a project file, specify the same port number as the number specified in [Transfer Tool] - [Transfer Setting] - [Communication Port Settings] - [Port (Search)]. 		

■ [Initialization Menu] Setting Guide

♦ [Initialize Backup SRAM]

All the data stored in the backup SRAM of the GP are cleared.

• Once the [Start] switch is pressed, initialization cannot be cancelled. Do not turn OFF the power switch while initialization is in progress.

- Backup data will be cleared by initialization.
- Even if initialization is executed, system data, communication protocol data, time setup data and logic program data will not be cleared.

浸WinGP ファイル(E) ヘルプ(H)			_ 0 ×
	Initialize Backup SRAM		
Warning:	All the backup data will be lost.		
Please i	nput the system password and press the §	itart switch.	R
	Alarm History Ø(Byte)		0
	Sampling Ø(Byte) Backup Internal Device		
	20(Byte)		1
	Ø(Byte)		
	5043932(Byte)]
	Exit	Back	2006/10/31 20:32:39

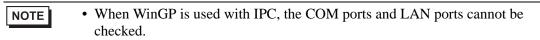
Setting item	Description
Please input the system password and press the Start switch.	Touch the system password entry field and enter the system password. If you have not specified a system password, enter "1101" (standard password).
Start	Starts initialization of the backup SRAM.

■ [Maintenance Menu] Setting Guide

Home	Main Unit Settings	Peripheral Settings	Password Settings	Initializatio Menu
Maintenance Menu	Transfer	External file operation	IPC Settings	WinGP Setting
Chec	k Display Pattern		Memory Infi	0
	Check Font		Change Color '	Tone
Ch	eck Touch Panel			
Cali	brate Touch Panel			
Save	Exit	Cancel		2006/10/31 20:32:48

For the settings in [Maintenance Menu], refer to the following description.

^(C) "2.15.1 Settings common to all Display models ■ [Maintenance Menu] Settings Guide" (page 2-99)



■ [IPC Settings] Setting Guide

♦ [Restart IPC]

🔀 WinGP				
ファイル(E) ヘルプ(H)				
Restart IPC	Detach hardware	Start Explorer	Start Task Manager	Specify file name and run
Network Settings				
Restarting	IPC.			
Enter syste	em password, and the	n touch restart swit	ch.	
				0
	Exit		Back	2006/10/31 20:33:11
	LAIL		DaCK	20:33:11

Setting item	Description
Enter system pass- word, and then touch restart switch.	Touch the system password entry field and enter the system password. If you have not specified a system password, enter "1101" (standard password).
Restart	Restarts the IPC unit.

♦ [Detach hardware]

WinGP				_ 🗆 ×
7카(JKE) ヘル카(H) Restart IPC	Detach hardware	Start Explorer	Start Task Manager	Specify file name and run
Network Settings				
Detaching I Enter syste	hardware. em password, and ther	n touch start switch		8
				8
		Start		
	Exit		Back	2006/10/31 20:33:20

Setting item	Description
Enter system pass- word, and then touch start switch.	Touch the system password entry field and enter the system password. If you have not specified a system password, enter "1101" (standard password).
Start	Starts [Detach Hardware Safely].

♦ [Start Explorer]

🐷 WinGP										
ファイル(E) ヘルプ(H)			-			My Documents				_ 🗆 ×
Restart IPC	Detach hardware	Start Explorer	Start Task Manager	Specify file name and run		le Edit View Favorites Tools				10
Kestart 110	Detach haroware	Start Exprorer	otarit rask hanager	and run			🎍 Folders 🧭 🖄 🖓 🖉 🕉 🕬 🗉	I -		
Network Settings					Ad	dress 🖄 My Documents			-	@60
Starting E	xplorer em password, and ther	h touch start switch			F0 3 8 8 1 1	Iders × Desitop My Computer My Computer My Computer Recycle Bin	My Documents Select an item to view its description. Stores and manages documents			
				8			See also: My Network Places My Computer			
		Start			200	oject(s) (Disk free space: 3.71 GB)		0 bytes	B My Computer	
	Exit		Back	2006/10/31 20:34:12						

Setting item	Description
Enter system pass- word, and then touch start switch.	Touch the system password entry field and enter the system password. If you have not specified a system password, enter "1101" (standard password).
Start	Starts [Explorer].

♦ [Start Task Manager]

🐱 WinGP				- O ×
ファイル(E) ヘルプ(E)				
Restart IPC	Detach hardware	Start Explorer	Start Task Manager	Specify file name and run
Network Settings				
Starting Te	ask Manager.			
Enter syste	em password, and ther	n touch start switch		
21001 0700				
				0
		Start		
	Exit		Back	2006/10/31 20:34:33
				20:34:33

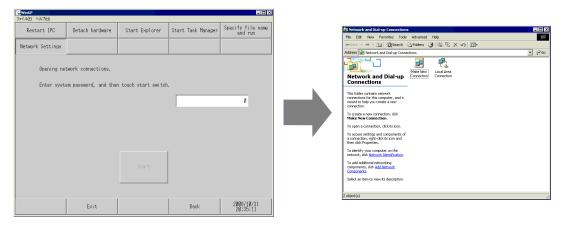
Setting item	Description
Enter system pass- word, and then touch start switch.	Touch the system password entry field and enter the system password. If you have not specified a system password, enter "1101" (standard password).
Start	Starts [Windows Task Manager].

♦ [Specify file name and run]

WinGP					
ァイル(E) ヘルプ(H)					
Restart IPC	Detach hardware	Start Explorer	Start Task Manager	Specify file name and run	
etwork Settings					
Defining a	nd running file name.				Run
Enter syst	em password, and the	n touch start switch			
				0	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
					Open:
					OK Cancel Browse
		Start			
	Exit		Back	2006/10/31 20:34:51	

Setting item	Description
Enter system pass- word, and then touch start switch.	Touch the system password entry field and enter the system password. If you have not specified a system password, enter "1101" (standard password).
Start	Starts [Specify file name and run].

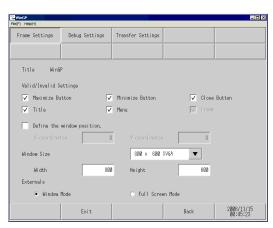
♦ [Network Settings]



Setting item	Description
Enter system pass- word, and then touch start switch.	Touch the system password entry field and enter the system password. If you have not specified a system password, enter "1101" (standard password).
Start	Starts [Network and Dialup Connections]. NOTE • With Windows [®] XP, [Network Connections] will start.

■ [WinGP Settings] Setting Guide

♦ [Frame Settings]



Setting item Description		
TitleDisplays the title of the WinGP window.		
Enable/Disable settings	When each checkbox is checked, the corresponding setting item is enabled.	
Maximize Button	Changes the window to full screen mode.	
Minimize Button	Hides the window. The window icon is displayed on the Task bar.	
Close Button	Closes WinGP.	
Title	Displays the window title and the Minimize, Maximize, and Close buttons.	
Menu	Displays the [File (F)] and [Help (H)] menus.	
Frame	If you place the cursor on the window frame, and drag and drop the cursor, the window size can be changed. If the window size is reduced from the initial setting, the scroll bar appears, allowing you to scroll up/down the window.	
Define the win- dow position	 Specify whether to define the window display position at startup of WinGP. The window display position is defined by the X and Y coordinates. X coordinate to "Maximum resolution of the selected model (horizontal) –1" Y coordinate to "Maximum resolution of the selected model (vertical) –1" Window Size Select a window size: "320 x 240 QVGA", "640 x 480 VGA", "800 x 600 SVGA", "1024 x 768 XGA". Width Specify the width of the window size in the range of 0 to the maximum resolution of the selected model. Height Specify the height of the window size in the range of 0 to the maximum resolution of the selected model. 	
Externals	Select the window display mode: "Window Mode" or "Full Screen Mode".	

♦ [Debug Settings]

Frame Settings	Debug Settings	Transfer Settings	
🗸 Display Rig	ht-Click Menu		

Setting item	Description
Display Right-Click Menu	Right-click the window on the WinGP screen to specify whether to show or hide the debug menu.

♦ [Transfer Settings]

rame Settings	Debug Settings	Transfer Settings		
Port number			21	
	Exit		Back	2006/11/15 00:45:35

Setting item	Description
Port number	You can check the port number for the transfer tool that has been spec- ified with GP-Pro EX.
• If you have forgotten the port number used for the transfer tool, you can see it in the above setting window.	

2.15.8 When the LT3000 is used

• When the LT33** series is used, the settings of [Ethernet Local Settings] and [Check COM1/COM2/LAN] are added to the menu in addition to the settings below.

For details of these features, refer to the setting guide common to all display units.

"2.15.1 Settings common to all Display models" (page 2)	2-75)
---	-------

Menu	Description
Home Main Unit Peripheral OFFLINE LANGUAGE: [ENGLISH Runtime Version: *.*.*** LT Driver **.**.** OS Version: *.*.* Save Exit Cancel 00/01/21 02:47	"2.15.8 When the LT3000 is used ■ [Home] Setting Guide" (page 2-148)
Home Main Unit Peripheral (*) Screen Settings System Area Operation Logic Display Menu and Error Window Settings Save Exit Cancel 00/01/20 21:41	"2.15.8 When the LT3000 is used ■ [Main Unit Setting] Setting Guide ◆ Logic Settings" (page 2-150)
Home Main Unit Peripheral → Device/PLC Setti I/O Driver Printer Settings Bar Code Setting USB Script Settings Save Exit Cancel 00/01/20 21:41	 "2.15.8 When the LT3000 is used ■ [Peripheral Settings] Setting Guide" (page 2-151) "2.15.8 When the LT3000 is used ◆ [I/O Driver] (STD Driver)" (page 2-151) "2.15.8 When the LT3000 is used • [Show Terminals]" (page 2-151) "2.15.8 When the LT3000 is used • [I/O Monitor]" (page 2-152) "2.15.8 When the LT3000 is used • [Check Board]" (page 2-153) "2.15.8 When the LT3000 is used ◆ [I/O Driver] (EXM Driver)" (page 2-154) "2.15.8 When the LT3000 is used • [I/O Monitor] (DIO settings)" (page 2-154) "2.15.8 When the LT3000 is used • [I/O Monitor] (Analog settings)" (page 2-154) "2.15.8 When the LT3000 is used • [I/O Monitor] (Analog settings)" (page 2-154)

■ [Home] Setting Guide

Home	Main Unit Peripher	ral 🔿
OFFLINE LANG	JAGE: ENGLISH	×
Runtime Vers	ion: *.*.***	
LT Driver		
	..**.	*
OS Version:	*.*.*	*** indicates the version number.
Save Exit	t Cancel 00/01/21	02:47

Setting item	Description	
OFFLINE LANGUAGE	Select the language used in the offline menu: "JAPANESE" or "ENGLISH".	
Runtime Version	The Runtime version information is displayed.	
LT Driver	 The LT driver version information is displayed. NOTE With the LT33** series, the protocol driver version information is displayed. 	
OS Version	The OS version information is displayed.	

Home	Main Unit	Peripheral	+		
I/O Driver V	ersion:				
STD Driver	**.	**.**			
EXM Driver	**.	**.**			
			,	** indicates	the version num
Save Exi	t Cancel	00/01/20 21	:41		

Setting item	Description
I/O Driver Version	The I/O driver name and the I/O Driver Runtime version information are displayed.

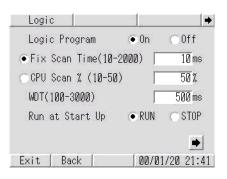
Home Mai	in Unit Peripheral 🔶	
Project Informat Last Saved Date: Model Info: Display Colors: Editor Name: Editor Version: Creator:		
Comment:	•	*** indicates the version number.
Save Exit	Cancel 00/01/21 02:47	

Setting item	Description
Last Saved Date	Displays the date/time when the project was last saved.
Model Info	Displays the model of the specified LT series.
Display Colors	Displays the display colors available with the LT series.
Editor Name	Displays the name of the Editor software that created the project.
Editor Version	Displays the version of the Editor software that created the project.
Creator	Displays the name of the person who edited or created the project.
Comment	Displays a comment on the project.

■ [Main Unit Setting] Setting Guide

♦ Logic Settings

Set up the logic program.

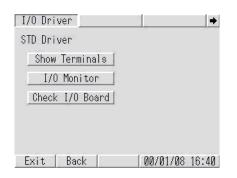


Setting item	Description
Logic Program	If you select "On", you can set up all of the following items. If you select "Off", these items cannot be set up.
Fixed Scan Time	Specify the logic function execution time. Setting range: 10 to 2000 ms
CPU Scan %	Specify the percentage of logic function execution time. Setting range: 10 to 50%
WDT (100 to 3000)	Specify the watchdog timer. Setting range: 100 to 3000 ms
Run at Start Up	Select the logic operation at the power supply when the GP unit is turned ON: "RUN" or "STOP".

Logic		
Data Update Rate	Normal 🔳	
Minor Errors	● RUN ○ STOP	
I/O Settings	●On COff	
Exit Back	00/01/20 21:41	

Setting item	Description
Data Update Rate	Select the speed for updating the device addresses of the connected devices and internal devices assigned to the logic program: "Fastest", "Normal", or "Slowest".
Minor Errors	Select the logic operation when continuous errors occur: "RUN" or "STOP".
I/O Settings	To enable input and output, select "On". To disable input and output, select "Off".

- [Peripheral Settings] Setting Guide
- ♦ [I/O Driver] (STD Driver)



Setting item	Description
Show Terminals	The terminal configuration display screen is displayed.
I/O Monitor	The I/O monitor screen is displayed.
Check I/O Board	The I/O board check execution screen is displayed.

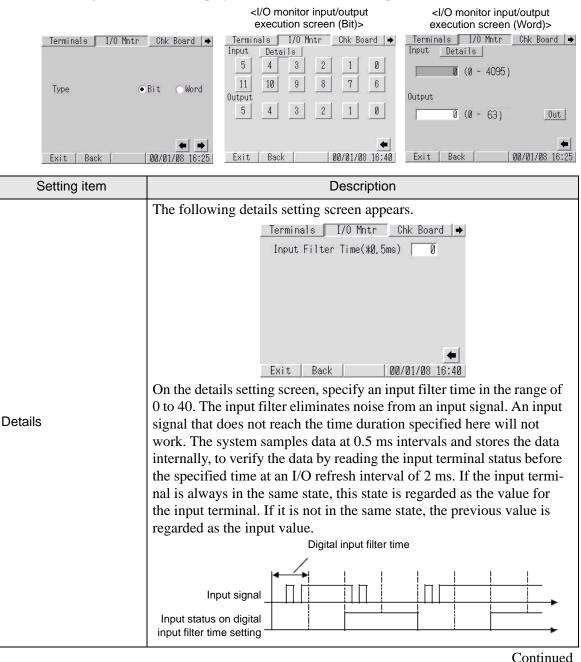
• [Show Terminals]

Ter	minal	sI/O	Mntr	Chk	Board 📕
CH1	Std. Std.	Input Input	X0 X1 Y0	Std.	Output
CH2	Std. Std.	Input Input	X2 X3 Y1	Std.	Output
CH3	Std. Std.	Input Input	X4 X5 Y2	Std.	Output
CH4	Std. Std.	Input Input	X6 X7 Y3	Std.	Output
K8-X	11:St	d.Input '	Y4-Y5 :S	itd, Ou	utput 🗲
Exi	t	Back		00/01	/08 16:40

Setting item	Description
Terminals	 Configurations of the specified input terminals (X0 to X11) and output terminals (Y0 to Y5) are displayed. NOTE • When the LT33** series is used, it displays the configuration of input terminals X0 to X15 and output terminals Y0 to Y15. The bottom of the screen shows [X8-X15: Std. Input] and [Y4-Y15: Std. Output].

• [I/O Monitor]

The monitoring results of the standard input and output can be displayed by selecting either bit or integer. The [Word] display cannot be selected when special I/O is used.



Setting item	Description
Input (0 to 11)	 When [Type] is set to [Bit] The terminal number specified for standard input is displayed. You can check the input value by bit. When the switch is not pressed, the OFF value is displayed. When the switch is pressed, the ON value is displayed. NOTE With the LT33** series, you can check the status by using inputs 0 through 15. When [Type] is set to [Word]
	You can check the input value with integers 0 to 4095 when the LT32** series is used, or with integers 0 to 65535 when the LT33** series is used.
Output (0 to 5)	 When [Type] is set to [Bit] The terminal number specified for standard output is displayed. You can check the output value by bit. NOTE With the LT33** series, you can check the status by using outputs 0 through 15. When [Type] is set to [Word] You can check the output value with integers 0 to 63 when the LT32** series is used, or with integers 0 to 65535 when the LT33** series is used.
Error display	If the I/O driver detects an error, the corresponding error code and error message are displayed. For details about error messages, refer to the following description. Image:

• [Check Board]

Terminals	I/O Mntr	📕 Chk Boa	rd 🔸
Check I/O	Board		
Checks mei I/O board,	nory on int	ernal	
	Start		(
Exit Bac	k	00/01/08	16:40

Setting item	Description
Start	The system starts checking if the I/O board is operating normally or not. If the I/O board operation is abnormal, the corresponding error message appears. For details about error messages, refer to the following description. If "1.7.3 Errors displayed with the LT3000 series I/O driver errors" (page 1-199)

◆ [I/O Driver] (EXM Driver)

EXM Dr		-i	
	0 Monitor		

Setting item	Description
I/O Monitor	The I/O monitor connection module information screen is displayed.

• [I/O Monitor] (DIO settings)

I/O Mntr →
Module Number 2
Display Module
DIO :Output 16 points
DIO :Input 16 points
•
Exit Back 00/01/08 17:01

Setting item	Description	
Module Number	 The number of connected modules is displayed. (0 to 2) NOTE When the LT33** series is used, it displays the number of connected modules with values 0 to 3. 	
Display Module	The number of connected modules is displayed. Module No. 1 indi- cates the module directly connected to the LT back panel.	

Setting item	Description
Setting item	 The I/O monitor setting screen is displayed. I/O monitor setting screen Type I/O Mntr Module No. 1 DIO :Output 16 points Type Bit Word Exit Back 00/01/08 17:01 I/O execution screen (Bit) Outputs signals to a destination module on a bit basis. Input status after I/O monitoring appears in a bit representation when selecting the input module. Output 15 14 13 12 11 10 9 8 Exit Back 00/01/08 17:01 I/O execution screen (Word) Sets output values transmitted to a destination module and output val-
	Exit Back 00/01/08 17:01 I/O execution screen (Word)
	Sets output values transmitted to a destination module and output values appear. Input values after I/O monitoring appear when selecting the input module.
	0 (0 - 65535) <u>Out</u> Exit Back 00/01/08 17:27

• [I/O Monitor] (Analog settings)

I/O m	nonitor connection mode	ule informatio	n screen
	I/O Mntr		-
	Module Number	1	
	Display Module		
	1 Analog:In:2CH/	Out:1CH	
	Exit Back	00/01/08 1	• 6:52

Setting item	Description
Module Number	 The number of connected modules is displayed. (0 to 2) NOTE When the LT33** series is used, it displays the number of connected modules with values 0 to 3.
Display Module	The number of connected modules is displayed. Module No. 1 indicates the module directly connected to the LT back panel.
Module No.	The I/O monitor setting screen is displayed.

I/O monitor connection module information screen

СН	1
Data Format	Voltage(0-10V) 💌
Data Range	Fixed 💌

Setting item	Description
СН	 Specify the number of channels for execution of the I/O monitor. NOTE If "In: 2CH/Out: 1CH" is selected, the third channel is used for output.
Data Format	Select the data format for execution of the I/O monitor: "Voltage (0 - 10V)", "Current (4 - 20 mA)", "Pt100", "K Thermocouple", "J Thermocouple" or "T Thermocouple".
Data Range	Select the data range for execution of the I/O monitor: "Fixed", "Centi- grade", "Fahrenheit" or "User Defined".

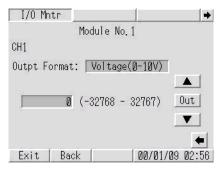
Setting item	Description
	Specify the upper and lower limit values for execution of the I/O monitor. These parameters can be specified only when "User Defined" is selected for "Data Range".
Maximum / Minimum	Module No. 1 Analog: In:2CH/Out:1CH CH 1 Data Format Voltage(0-10V) Data Range User Defined Maximum 32767 Minimum -32768 Exit Back 00/01/09 02:56

I/O monitor analog input execution screen

I/O Mntr			+
	Module No.	1	
CH1			
Input Format	: Voltage	(0-10V)	
Ø	(-32768 -	32767)	
	i (1.00.001.000	(
_Exit Bac	K	00/01/09	02:56

Setting item	Description
Input Format	Displays the "Data Format" specified on the I/O monitor setting screen.
Input value	Displays the input value.
Input data range	Displays the "Data Range" specified on the I/O monitor setting screen.

I/O monitor analog output execution screen

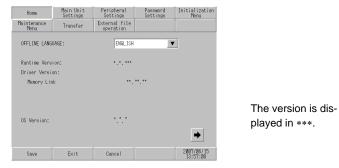


Setting item	Description	
Output Format	Displays the "Data Format" specified on the I/O monitor setting screen.	
Output value	Displays the output value. Touching the entry field displays numeric keys, allowing you to specify an output value.	
Output Range	Displays the "Data Range" specified on the I/O monitor setting screen.	
▲▼	Increases or decreases the output value.	
Output	Outputs the value specified in "Output value".	

2.15.9 When the GP/LT supporting the CANopen master is used

Menu	Description
Nome Plan link to produce a location Personal field of the location Name Prender Retring to the location STFLNE LANSARE: Section to the location Bring the location *** Drive the location *** Brease the location ***	"2.15.9 When the GP/LT supporting the CANopen master is used ■ [Home] setting guide" (page 2-159)
Nome Plain Block Perspectage Perspectage Initial Initial Parsenerse Interest of Section Initial Initial New Screen Settings System Area Settings System Area Settings Derestion Settings Derestion Settings Etherest Initial Initial Derestion Settings System Area Settings Etherest Initial Initial Derestion Settings Logic Settings Logic Settings Nender Settings Extended Settings Extended Settings Nender Settings Extended Settings Extended Settings Nender Settings Extended Settings Extended Settings Seve Exit Cancel 20000015	"2.15.9 When the GP/LT supporting the CANopen master is used ■ [Main Unit Settings] setting guide ◆ Logic Settings" (page 2-161)
None Main Bits Periodecal Testing Periodecal Periodecal Secting Periodecal	 "2.15.9 When the GP/LT supporting the CANopen master is used ■ [Peripheral Settings] setting guide" (page 2-162) "2.15.9 When the GP/LT supporting the CANopen master is used ◆ Master Diagnostics" (page 2-162) "2.15.9 When the GP/LT supporting the CANopen master is used ◆ Slave Diagnostics" (page 2-164) "2.15.9 When the GP/LT supporting the CANopen master is used ◆ Slave Diagnostics" (page 2-164) "2.15.9 When the GP/LT supporting the CANopen master is used ◆ Master configration and events" (page 2-165)

■ [Home] setting guide



Setting item	Description
OFFLINE LAN- GUAGE	Select the language used for the offline menu from [JAPANESE] and [ENGLISH].
Runtime Version	Display the runtime version.
Driver Version	Display the protocol driver version. 4 drivers of active maximum amount are displayed. In case of the GP-3300 series 2 drivers of active maximum amount are displayed.
OS Version	Display the OS version.

Setting item	Description		
Device Monitor Ver- sion	OS Version: 2.0.0 Device Monitor Version: V1.00.00 Save Exit Cancel Only when [Device Monitor] is selected in the [Main Unit Settings]- [Extended Settings] tab in the System Settings window, Device Monitor Version is displayed.		



The version is dis-
played in ***.

Setting item	Description
I/O Driver Version	Display the name and runtime version of the I/O driver.

Home	Main Unit Settings	Peripheral Settings	Password Settings	Initialization Menu
Maintenance Menu	Transfer	External file operation		
Project Infor	mation			
	Date and Time:	2007/06/	15 11:06	
Model Info:		AGP-3500	S-CA1M	
Display Col	lors:	4096 Cole	ors, 3-Speed B	link
Creation Ec	ditor Name:	GP-Pro EX	К	
Creation Ec	ditor Version:	* . ** . *** .		
Creator:				
Comment:				
				← →
Save	Exit	Cancel		2007/06/15 13:58:52

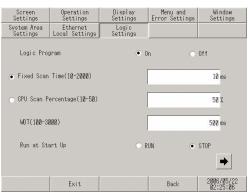
Setting item	Description
Last Saved Date and Time	Display the last saving day and time of project.
Model Info	Display the setting GP/LT model.
Display Colors	Display the setting colors.
Creation Editor Name	Display the editor name which created the project.
Creation Editor Ver- sion	Display the editor version which created the project.
Creator	Display the creator name of project.
Comment	Display the comment of project.

Maintenance/Troubleshooting

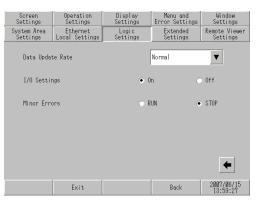
■ [Main Unit Settings] setting guide

♦ Logic Settings

Set the logic program.



Setting item	Description
Logic Program	When [On] is selected, all of the following items can be set. When [Off] is selected, none of them can be set.
Fixed Scan Time	Set the execution time of the logic function to a value within the range of 10 to 2,000 ms.
CPU Scan Percent- age	Set the ratio of the execution time of the logic function to a value within the range of 10% to 50%.
WDT(100-3000)	Set the watch dog timer to a value between 100 and 3,000 ms.
Run at Start Up	Select the logic operation when the GP/LT unit is turned ON from [RUN] and [STOP].



Setting item	Description
Data Update Rate	Select the speed to update the value of the connected device or internal device address assigned to the logic program from [Fastest], [Normal], and [Slowest].
I/O Settings	Select [On] to use I/O operation. Select [Off] to stop I/O operation.
Minor Errors	Select the controller operation when an error continues from [RUN] and [STOP].

Maintenance/Troubleshooting

■ [Peripheral Settings] setting guide

Master Diagnostics

The master side is checked to see if it can accept communication when the slave is connected and the check result is displayed.

NOTE

• It may take some time to display the check result.

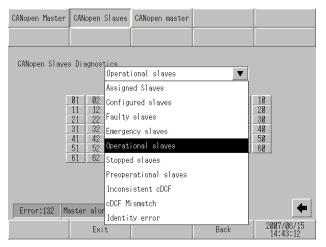
Master Diag.	Slave Diag.	Master Conf.		
CANopen Maste Network State				
Communication	Status: CAN CAN CAN CAN CAN TX I CAN TX I CAN	OPERATIONAL controller overrun Bus Off controller error controller left err. P Queue overrun HP Queue overrun HP Queue overrun HP Queue overrun	 Mandatory Network o 	
	Exit		Back	2008/03/10 17:25:42

Setting item	Description		
CANopen Master State	Current state of the CANopen master supported GP/LT board will be displayed.		
INIT	CANopen module is not initialized yet.		
RESET	CANopen module is performing a reset.		
PREPARE NET INIT	CANopen module carries out a check of the slave assignments.		
NETWORK RESET	The CANopen network is reset by NMT command Reset all communica- tion slaves.		
NETWORK WAIT	The CANopen module waits for a certain time so that the modules can execute that Reset communication command.		
BOOTING UP	The CANopen module initializes the individual slaves on the network.		
CLEAR	CANopen network is scanned. The CANopen module can be started.		
OPERATIONAL	The CANopen network is operational.		
PREOPERA- TIONAL	The CANopen network is preoperational.		
	A fatal error has occurred on the network. The CANopen module will get reset.		
FATAL ERROR	A fatal error occurred in an error code. Check the error details displayed in the lower left of the screen and take the appropriate action according to the following:		
	"1.8.6 Errors displayed when CANopen is used" (page 1-216)		
MISSING MAND. SLAVE	A mandatory module in the CANopen network has a failure.		

	Setting item	Description
Con state	nmunication us.	The different radio buttons shows the communication status of CANopen Master.
	CAN controller overrun	CAN controller overrun has occurred.
	CAN Bus off	BUS OFF detected by CAN Controller.
	CAN controller error	CAN controller is in error state. Check the connection devices (e.g. con- nector and cable) and then reset the CANopen module.
	CAN ctrl. Left error state	CAN controller has left the error state.
	Tx LP Queue overrun	An overrun of the low priority transmit queue has occurred. Low priority transmit queue is for heartbeat, node guarding and SDO transfer.
	Tx HP Queue overrun	An overrun of the high priority transmit queue has occurred. High priority transmit queue is for TPDOs, NMT, commands, SYNC, and EMCY messages.
	Rx LP Queue overrun	An overrun of the low priority receive queue has occurred. Low priority receive queue is for heartbeat, node guarding and SDO transfer.
	Rx HP Queue overrun	An overrun of the high priority receive queue has occurred. High priority receive queue is for RPDOs, NMT, commands, SYNC and EMCY messages.
	Optional module error	At least one optional or unexpected module does not correspond to the expected network configuration. Reset the network. If this error reoccurs despite the network reset, review the project settings and slave configuration.
	Mandatory module error	At least one mandatory module does not match the network configura- tion. Review the project settings and slave configuration.
	Network operational	At least one module (besides the GP/LT) is operational.
	Master operational	The CANopen master module (GP/LT) is operational.
Erro	r Message	An I/O driver error message is displayed. For details on the errors to be displayed, refer to the following: ⁽²⁷⁾ "1.8.6 Errors displayed when CANopen is used" (page 1-216)

Slave Diagnostics

Check if the slave side can accept communication when the slave is connected to the master.



	Setting item	Description		
	e diagnostic us list	Each slave diagnosis status list is displayed.		
	Assigned Slaves	The used (Assigned) slaves in the GP-Pro EX Project are displayed.		
	Configured Slaves	Displays which slaves in the network are configured by CANopen Mas- ter.		
	Faulty Slaves	Slaves that did not send heartbeat in time, not yet initialized and has a faulty cDCF file are displayed.		
	Emergency Slaves	Slaves that have sent an emergency message will be diplayed. The details of an emergency message can be read from OBJECT 0x2018, Node ID as Sub-Index.		
	Operational Slaves	Slaves which are in Operational State will be displayed.		
	Stopped Slaves	Currently stopped slaves are displayed.		
	Preoperational Slaves	Slaves which are in "Pre-Operational" mode are displayed.		
	cDCF Mismatch	There is a format error in the project.		
	Inconsistent cDCF	There is an error in the project settings.		
Identity errorSlaves which have identity error will be displayed. IdentionIdentity error• Device ID Error [OBJECT - 0x1F84]• Device type [OBJECT - 0x1000]• Identity Object [OBJECT - 0x1018]• Vendor ID Error [OBJECT - 0x1F85]• Product Code Error [OBJECT - 0x1F86]• Revision # Error [OBJECT - 0x1F87]		 Device ID Error [OBJECT - 0x1F84] Device type [OBJECT - 0x1000] Identity Object [OBJECT - 0x1018] Vendor ID Error [OBJECT - 0x1F85] Product Code Error [OBJECT - 0x1F86] 		
Erro	r Message	An I/O driver error message is displayed. For details on the errors to be displayed, refer to the following: *** "1.8.6 Errors displayed when CANopen is used" (page 1-216)		

♦ Master configration and events

Check the status of the entire network during CANopen communication.

Master Diag.	Slave Diag.	Master Conf.
2:		
	Master	Configuration & Events
Firmware \	/ersion : V001.10	02 / BaudRate : 250 kb / Node ID : 127
 Master Start s Master CANoper 		 Fatal error Up Ouplicate Node ID Error control event slaves C cDCF error of a mandatory module
Error:132 Ma	aster alone	
	Exit	Back 2008/03/10 17:35:09

	Setting item	Description
Firmware Version		The version number of firmware in the CANopen master module is displayed.
Bau	dRate	The configured baud rate is displayed.
Nod	e ID	The node ID of the GP/LT supporting the CANopen master is displayed.
Iration	Master	Status of the Firmware Operation Mode. Checked - GP is running as Master. Unchecked - GP is running as Slave.
Master Checked - GP is running as Master. Unchecked - GP is running as Slave. Start slaves individually The slave where the CANopen master module is configured is		The slave where the CANopen master module is configured is started.
aster (Master starts up itself	When Checked the CANopen master module will start itself.
Master starts up itself CANopen mas- ter starts the slaves OMaster is SYNC		The CANopen master module will start the slaves.
SolutionMaster is SYNC producerThe CANopen master will broadcast SYNC messages.		The CANopen master will broadcast SYNC messages.

	Setting item	Description
	Fatal error	A fatal error has occurred. The CANopen master module will be reset.
	Dupplicate Node ID	A node in the network has the same slave ID as the GP.
	Error control event	Error control event of the mandatory module. The behavior of the master depends on the operation when an error occurs in the mandatory slave set in the master settings of the I/O driver settings.
	cDCF error of a mandatory module	There is a format error in the project.
Global events	Identity error of an optional module	 One of the slaves in the newtok has one of the following errors: Device ID error (object 0x1F84) Device type (object - 0x1000) Identity Object (object - 0x1018) Vendor ID error (object 0x1F85) Product code error (object 0x1F86) Revision number error (object 0x1F87) Serial number error (object 0x1F88) The applicable slave is in stop mode
	Faulty slave assignment	A slave in the network contains features that are not supported by the CANopen master module
	RPDO receive failure	The CANopen master module received an RPDO of incorrect size.
	Faulty cDCF	There is an error in the project settings.
	SDO queue overrun	Overrun of the SDO queue
Master alone The slave is not connected.		The slave is not connected.
Erro	or Message	An I/O driver error message is displayed. For details on the errors to be displayed, refer to the following: "" "1.8.6 Errors displayed when CANopen is used" (page 1-216)

2.15.10 When GP-32** Series is used

■ [Main Unit Settings]

♦ [Display Settings]

Screen Settings	Operation Settings	Display Settings		Menu and Error Settings	;	Window Settings
System Area Settings	Ethernet Local Settings					
Reverse Disp					0	
Show Brightn	ess/Contrast Con	trol Bar: (•	Enable	0	Disable
D-Script_deb	ug() Function Fe	ature: (•	Enable	0	Disable
Display cros	s-hair cursor:		•	Enable	0	Disable
	Exit			Back		2006/05/22 01:48:04

Setting item	Description	
Reverse Display	 Specify whether to enable or disable the highlight (reverse) display. NOTE This item can be specified only when the monochrome GP model is selected. 	
Show Brightness / Contrast Control Bar	Specify whether to show the Brightness/Contrast Control Bar to adjust brightness and contrast.	
D-Script_debug() Function Feature	Specify whether to execute the _debug () function described in D-Script GP-Pro EX Reference Manual "21.9.1 D-Script/Common [Global D-Script] So tings Guide" (page 21-54)	
Display cross-hair cursorSpecify whether to display the cross cursor. When the cross curso play is enabled, the "+" (cross) cursor appears at the touched posit the screen. You can check for a touch calibration error based on the ference between the "+" cursor position and the drawing position.NOTE• This option can also be set for the ST-3000 series.		

2.15.11 Using the handheld type GP

This section describes the setting screens displayed only for the handheld type GP.

Menu	Description
Nome Page Not Not Attingent Page Not Attingent Page Not Attingent Nome Screen Settings Sorten Settings Green Settings Sorten Area Settings Overation Settings Etheres Local Settings Brisslaw Settings Etheres Local Settings Mindow Settings Etheres Local Settings Mindow Settings Etheres Local Settings Mindow Settings Boxed Settings Mindow Settings Boxed Settings Save Exist Cancel	"2.15.11 Using the handheld type GP ◆ [Operation Settings]" (page 2-169)
None Mission Perspectation Perspectation Perspectation Tendence Enternal (fin) Enternal (fin) Enternal (fin) Enternal (fin) Device/RCS Settings 1/0 Enternal (fin) Enternal (fin) Enternal (fin) Printer Settings Conversion Adapter Bar look Settings UrB Enternal (fin) Serve Ent (server) Enternal (fin)	"2.15.11 Using the handheld type GP ◆ [Conversion Adapter]" (page 2-169)
Nome Pipit Rois Activity Perspectal Disting Perspectal Disting None Transfer Disting None Deck Topic Pattern Reserver Info Disting Deck Topic Pattern Disting Disting Disting Disting Disting <	"2.15.11 Using the handheld type GP ◆ [Check Function Switch]" (page 2-170)

- [Main Unit Settings]
- ♦ [Operation Settings]

Screen Settings	Operation Settings	Display Settings	Menu and Error Settings	Window Settings
System Area Settings	Ethernet Local Settings	External file operation		
Touch Panel	Detection:		• ON	O OFF
Touch Buzzer	Sound:		• Enable	🔿 Disable
Output to External Buzzer Terminal:			• Enable	🔿 Disable
Touch Panel Operation on Back Light Off:			 Operational 	🔿 Inhibit
Operation Sw	itch:		• Enable	🔿 Disable
	Exit		Back	2006/05/22 01:47:55

Setting item	Description
Operation Switch	Select the operation switch setting of the handheld GP type from [Enable] or [Disable].

[Peripheral Settings]

♦ [Conversion Adapter]

Device/PLC Settings	Printer Settings	Bar Code Settings	USB	Script Settings
I/O Driver	Conversion Adapter			
Conversion Ada	pter :	• E	nable C	Disable
				0000 (05 (00
	Exit		Back	2006/05/22 01:50:47

Setting item	Description
Conversion Adapter	When the handheld type GP is used, select whether to use a conversion adapter from [Enable] or [Disable].

[Maintenance Menu]

♦ [Check Function Switch]

Check Pattern	Check Font	Check Touch Panel	Calibrate Touch Panel	Check COM1/COM2/LAM	N
Memory Info	Color Tone	Check FunctiorSwitch			
O OP				F1 0	
• F7				F2 O	
C F8				F3 O	
• F9				F4 O	
F10				F5 O	
 F11 				F6 O	
	Exit		Back	2006/05/22 01:50:47	

Setting item	Description
OP, F* (* Indicates a func- tion switch number.)	Touch the function switch to activate a specified function.

2.15.12 System Menu

■ Offline, CF Starting, Error, Reset

This section describes the menu items that are displayed in the first menu of the system menu.



Menu Items	Description		
Offline	Touch this switch to enter the offline mode.		
	Touch this switch to start the CF memory loader program. To restart the CF memory loader program, touch [CF_Starting] (if the CF memory loader tool is stored in the CF card) or touch [USB_Starting] (if the CF memory loader tool is stored in the USB storage). The following screen then appears.		
CF/USB	Memory Loader Tools Language [English Upload (Display->CF) Download (CF->Display) Ver. 1, 8, 1 Menu Exit		
	 For the CF card and USB storage operating procedure, refer to the following description. GP-Pro EX Reference Manual "33.7 Transferring Project Files Using a CF Card or USB Storage" (page 33-37) NOTE This menu is not displayed with GP-3302B. When the LT3*** series is used, only the USB memory loader can be started. 		
Language	Select the display language used for the CF memory loader tool from [Japanese] and [English].		
Upload	Move to the upload screen. ^{CP} GP-Pro EX Reference Manual "33.7.2 Transfer Process ■ Transferring Project Files from GP to PC (or to Another GP)" (page 33-44)		
Download	Move to the download screen. ^{CP®} GP-Pro EX Reference Manual "33.7.2 Transfer Process ■ Transferring Project Files from PC to GP" (page 33-38)		

Menu Items	Description
	The following menu screen is displayed.
Memory Loader Tool Menu	 Upload Move to the upload screen. GP-Pro EX Reference Manual "33.7.2 Transfer Process Transferring Project Files from GP to PC (or to Another GP)" (page 33-44) Download Move to the download screen. GP-Pro EX Reference Manual "33.7.2 Transfer Process Transferring Project Files from GP to PC (or to Another GP)" (page 33-44) Download Move to the download screen. GP-Pro EX Reference Manual "33.7.2 Transfer Process Transferring Project Files from PC to GP" (page 33-38) System Info Display the backup data stored on the CF card and the data stored in the GP. Compare Internal Data with the CF Card Compare all data in the GP with the backup data stored on the CF card. View Files in the CF Card List all files in the CF Card List all files in the CF card a file.
Back	Return to the initial screen.
Exit	Display a confirmation window for exit operation. Touch [Yes] to termi- nate the CF memory loader tool and reset the GP.
Error	Always display the latest error message in a single line. If the message is longer than one line, only the amount that can display in a single line is displayed.
Reset	Touch this option to reset the GP unit.

Volume, IP Address

This section describes the menu items that are displayed in the second menu of the system menu.

	Volume IP Address RGB Screen
Menu Items	Description
Volume	Adjust the volume of the external speaker connected to the AUX termi- nal. This switch is displayed only when the model supports sound output (AUX output).
IP Address	IP Address [192]. [168]. [0]. [5] Touch this switch to check the IP address designated for the GP. This switch is displayed only when the model supports Ethernet.
RGB Screen	Position Screen Color Default This switch is displayed only when the VM unit is used. Touching this switch displays the menu to move to the [Position], [Screen], [Color], and [Default] setting screens.
Position	Adjust the horizontal and vertical positions of the screen. Available ranges are between -128 and 128 for the horizontal position, and between -16 and 16 for the vertical position.
Screen	♦ CLOCK - 0 + 122 × ♦ PHASE - 15 + 222 × Adjust the clock and phase. Available ranges are between -128 and 128 for the clock and between 0 and 63 for the phase.
Color	Image: constraint of the set within the range of 0 to 255.
Default	Default EXECUTE Touch [EXECUTE] to reset the [Position], [Screen], and [Color] settings to the initial values.

AddressMonitor, LogicMonitor

This section describes the menu items that are displayed in the third menu of the system menu.

♦ →	AddressMonitor	LogicMonitor	LadderMonitor	DeviceMonitor	
-----	----------------	--------------	---------------	---------------	--

Touch these menu items when monitoring the address or checking the operating status and instructions of the logic program.

- The [AddressMonitor] switch is displayed on all models in the GP-3000 series, but the [LogicMonitor] switch will only display on models which can use the logic program. Touching the [LogicMonitor] switch when the logic function is set to [Disabled] will display the [AddressMonitor] screen.
 - When a slave unit of Ethernet Multilink is used, the ladder monitor and device monitor are disabled.

Menu Items	Description		
Address Monitor	 Start monitoring the variables used in the logic. The name and current value of the variable can be checked. When the address format is used, the control address is monitored. ^C "2.9.1 Checking whether the logic program is operating properly ■ Address-Monitor" (page 2-45) 		
Logic Monitor Start monitoring the entire logic program. The logic monitor che operating status and instruction layout. ⁽²⁾ "2.9.1 Checking whether the logic program is operating properly ■ itor" (page 2-44)			
Ladder Monitor	The monitor reads a ladder program from a PLC (Q Series manufactured by Mitsubishi Electric Corporation), allowing you to monitor it on the display screen. You can monitor the ladder program online without stop ping other functions.Image: Mitsubishi Electric Q Series PLC Ladder Monitor Operation Manual		
Device MonitorYou can monitor a device with the specified connection equipment change an arbitrary address value on the GP screen.Control Control Contr			

Brightness and contrast

For the procedure for displaying this menu, see the following section.

⁽²⁾ "2.2.1 Adjusting the brightness/contrast" (page 2-10)

	Bright - + X			
Menu Items	Description			
	Adjust the brightness of the GP screen.			
	Bright - + X			
Bright	 NOTE When the type of GP is TFT, this menu looks as follows because only [Bright] can be adjusted. 			
	Bright - + ×			
	• The GP-3200 series enables brightness adjustment in 16 steps.			
	Adjust the contrast of the GP screen. This menu is displayed when the button is touched.			
Contrast	Contrast			
	NOTEWhen the type of GP is TFT, [Contrast] cannot be adjusted.			