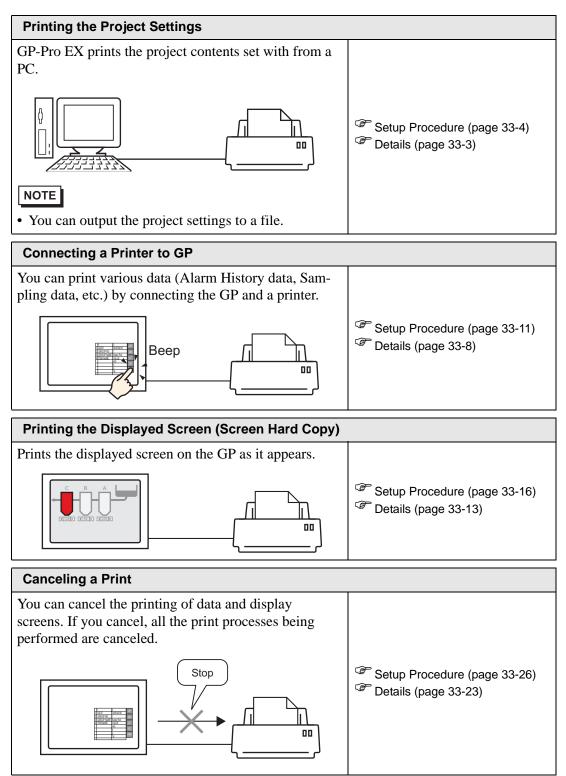
# 33 Print

This chapter explains ways of printing the created screens and settings in GP-Pro EX and connecting a printer to the GP to print the GP's data and display screens. Please start by reading "33.1 Settings Menu" (page 33-2) and then turn to the corresponding page.

Settings Menu	
Printing the Project Settings	33-3
Connecting a Printer to GP	33-8
Printing the Displayed Screen (Screen Hard Copy)	33-13
Canceling a Print	
Settings Guide	33-33
Restrictions	33-51
	Printing the Project Settings Connecting a Printer to GP Printing the Displayed Screen (Screen Hard Copy) Canceling a Print Settings Guide

#### 33.1 Settings Menu

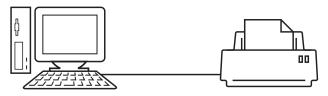


#### 33.2 Printing the Project Settings

#### 33.2.1 Details

Prints the setting information of project files created with GP-Pro EX. This feature is useful for debugging and creating documents.

Also, you can output them into a rich text file (\*.rtf).



Print Example

Project Setting	(Sommary)		2005/10/28 11:31 test.prx	
Summary				
Project Name Last Saved Date Creator Title	and Time	test.prx Fri Oct 28 11:24:41 2005 Pro-face		
Send Data Size Model Device/PLC 1		75843 Bytes AGP-3500T		
Printer Bar Code 1 Bar Code 2 Script 1 Script 2	Cammon Setti	ng(Sampling)	2005/10/28 11:33 tes	t.prx
	Sampling Set	tings		
	Sempling Set Group1 Addressing Sempling Top No. of Sampling Por Bit Length Execution Co Sempling Per Start Time End Time Sempling Cyc No. of Times Data Full Bi Data Clear B Backup to SR Overwrite fr No. of Days Time Data	ing Words ndition mit Bit Address le t Address it Address Mon the oldest data nvalid Flag in CSV Settings gs	ASCII Standard Font Group Sequential [PLC1]P00100 1 16Bit Time Specification [PLC1]M000100 00:00 00:00:00 00:00:00 00:00:00 1 Times Pisable [PLC1]M00050 Enable Enable Enable Enable Disable Disable	

#### 33.2.2 Setup Procedure

• Please refer to the settings guide for details.

Output the Project Information and the Common Settings' Alarm Settings and Sampling Settings from a PC to a printer.

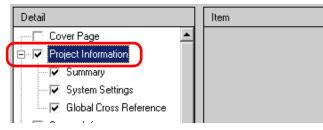


1 Select the [Project (F)] menu - [Print (P)] command or click

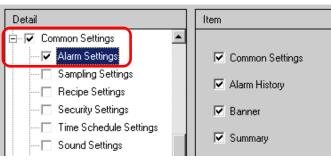
💰 Print	×
Printer Printer Name ( <u>N</u> ) Printer Name	Properties (P)
	Output to a File (RTF Format)
Туре	
Location	
Comment	
Detail	Item
Cover Page	
E Project Information	
🗖 Summary	
System Settings	
Global Cross Reference	
Screen Info	
Logic	
I/O Settings	
Common Settings	
🗖 Alarm Settings	
Sampling Settings	
Recipe Settings	
- C Security Settings	
- Time Schedule Settings	
Sound Settings	
Text Table Settings	
🗖 Global D-Script	
Extended Script	
User Define Function	
Print Preview	Option Settings Print Cancel Apply

2 Select a printer to use in [Printer Name (N)].

**3** Put a check mark next to the [Project Information] box and a check mark appears next to all the sub items. (e.g.: [Summary], [System Settings], [Global Cross Reference])



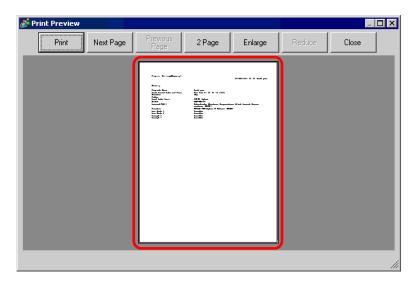
4 Put a check mark next to the [Alarm Settings] box under [Common Settings]. Put a check mark next to all the Alarm Settings boxes to print in [Item]. (e.g.: [Common Settings], [Alarm History])



5 Put a check mark next to the [Sampling Settings] box as well under [Common Settings]. Select [Detail] for the Sampling Settings' [Print Contents].

Detail	Item		
E			
Alarm Settings	Print Content	s 🔿 Summary	💿 Detail
Sampling Settings			
Recipe Settings			
Security Settings			

6 Click [Print Preview] and check the print status.



7 Click [Print] and the [Print] dialog box appears again. Click [Print] and the printing will start.

Print	2
Printer Printer Name (N) Printer Name	Properties (P)
	Output to a File (RTF Format)
Туре	
Location	
Comment	
Detail	Item
Project Information	🗖 Title
- 🔽 Summary	
🔽 System Settings	
Global Cross Reference	
Creen Info	Date/Time
🗖 Logic	
I/O Settings	
E Common Settings	Company Name
─ ✓ Alarm Settings	
Sampling Settings	
- Recipe Settings	,
Control Security Settings     Time Schedule Settings	Name
Sound Settings	,
Text Table Settings	□ Image
- Global D-Script	
Extended Script	Reference
User Define Function	Edybut
Print Preview	Option Settings Print Cancel Apply

To output to a rich text file without printing, put a check mark next to the [Output to a File (RTF Format)] box.

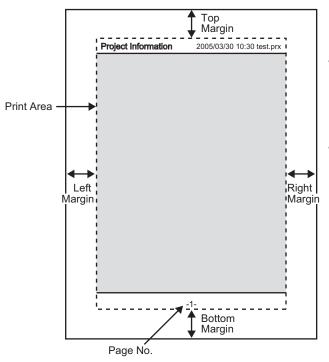
💕 Print			×
Printer			
Printer Name ( <u>N</u> )	Printer Name	▼	Properties (P)
		🔽 🛛 Output t	o a File (RTF Format)
Туре			
Location			
Comment			

Click [Print] and the following dialog box will be displayed. Designate the [Save in] and [File name] and click [Save].

Print						? ×
Savejn:	🗀 Database		•	+ 🗈 🕯	* 🎫	
My Recent Documents	iadata iafile					
Desktop My Documents						
My Computer						
My Network	File <u>n</u> ame:				•	<u>S</u> ave
Places	Save as <u>type</u> :	RTF Files (*.rtf)				Cancel

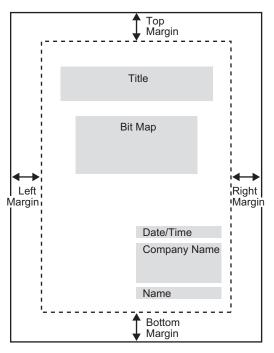
#### 33.2.3 Print Layout

e.g.) Project Settings



- The print item name is printed on the top left corner, and the printout date/time and the project file name on the top right corner.
- A page number can be set in Option Settings.

e.g.) Cover Page

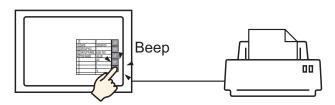


- Image files can be placed from the line after Title to two lines before Date/Time. When printing an image that exceeds this area, the image is automatically reduced to fit into the area.
- Bit map image alignment can be moved within the print area.

#### 33.3 Connecting a Printer to GP

#### 33.3.1 Details

You can print various data (Alarm History data, Sampling data, etc.) by connecting a printer to the GP. Only one printer can be connected to the entire system.



You can print the following data from the GP.

Feature	Print Contents
Screen Hard Copy	Prints the displayed screen on the GP as it appears. <sup>(37)</sup> "33.4 Printing the Displayed Screen (Screen Hard Copy)" (page 33-13)
Alarm Banner	Prints an alarm message in the displayed language (table) when it triggers or recovers.
Indicates Alarm	<ul> <li>Real Time Print Prints when an alarm triggers, is confirmed, or recovers.</li> <li>Batch Print Prints all the alarm history in a specified format when a specified [Print Word Address]'s Bit 0 is turned ON.</li> </ul>
Sampling	<ul> <li>Real Time Print Prints in the print format specified in [Sampling Settings] each time it collects data.</li> <li>Block Print You can print in [Block Unit]when [Overwrite old data after fin- ishing the specified no. of times] is not set for the [Extended Set- tings] on the [Sampling Settings]'s [Action Settings] tab. Prints the collected data in block unit in a specified print format when a spec- ified [Print Word Address]'s Bit 0 is turned ON.</li> </ul>
CSV Data Print	Prints the displayed CSV data when you touch the print key on a special data display [Show CSV]. You can select whether to print only the displayed portion or to print the whole data.
Script Printer Output	Outputs a specified bytes of data when the printer operation func- tion in the return sentence for D-script, global D-script, and extended script is executed.

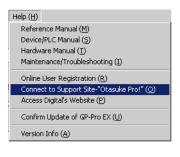
#### Type of printers that can be connected to GP

You can use the following printers.

- NEC PC-PR201/PL command compatible
- EPSON ESC/P24-J84 (C) command compatible
- HP Laser Jet PCL 4 command compatible
- Some models of EPSON PM/Stylus (6 Colors) and Stylus (4 Colors)

For supported printer models, refer to Pro-face's support site "Otasuke Pro!" (http://www.pro-face.com/otasuke/).

You can easily connect to this site by clicking the [Help (H)] menu - [Connect to Support Site - "Otasuke Pro!" (O)] command.



- IMPORTANT
   Supported models may change due to GP upgrades.
   If you use a printer other than the supported models, printing.
  - If you use a printer other than the supported models, printing may not function normally. Confirm in advance that the printer operates normally.
- **NOTE** You cannot use Windows dedicated printers. Use the above-mentioned command compatibles or the corresponding printers.

#### Printer and Interface

Connect a printer using COM1 (RS-232C), USB, or LAN. The USB connection supports USB direct and USB-PIO conversion. The following interface corresponds to each printer.

			II	nterface	
		COM1	USB Direct	USB-PIO	LAN (LPR/IPP)
	NEC PR Series	Enable	Disable	Enable	Enable
	EPSON ESC/P (High Speed)	Enable	Disable	Enable	Enable
J.	EPSON ESC/P (High Quality)	Enable	Disable	Enable	Enable
Printer	HP LASERJET Series	Enable	Disable	Enable	Enable
₫.	EPSON PM/Stylus (6 Colors)	Disable	Enable	Enable	Enable
	EPSON Stylus (4 Colors)	Disable	Enable	Enable	Enable
	Text ASCII	Enable	Disable	Enable	Disable

- COM2 cannot be used to connect a printer. NOTE
  - Use a USB/PIO converter to connect a Centronics parallel interface printer. For supported USB-PIO converters, refer to Pro-face's support site "Otasuke Pro!" (http://www.pro-face.com/otasuke/).
  - For USB direct connection, confirm the supported models. A complex machine with a scanner and storage cannot be used for USB direct print.
  - <sup>(</sup> Type of printers that can be connected to GP" (page 33-9)
  - · When printing with LAN connection, it takes approximately one minute before the print starts.

. . .\*1

. . . . .

## - - - - -

Output Port and Print Feature

Print Feature	COM1	USB	LAN '
Screen Hard Copy	Enable	Enable	Enable
Alarm (Banner) Print	Enable	Enable	Disable
Alarm (History) Real Time Print	Enable	Enable	Disable
Alarm (History) Batch Print	Enable	Enable	Disable
Sampling Data Real Time Print	Enable	Enable	Disable
Sampling Data Block Print	Enable	Enable	Disable
CSV Data Print	Enable	Enable	Disable
Script Printer Output	Enable	Enable <sup>*2</sup>	Disable

\*1 LAN connection (network printer) does not support Alarm (Banner) Print, Alarm (History) Real Time Print, Alarm (History) Batch Print, Sampling Data Real Time Print, Sampling Data Block Print, CSV Data Print, or Script Printer Output.

\*2 Script printer output with USB connection supports only USB-PIO conversion.

#### 33.3.2 Printer Setup Procedure

• Please refer to the settings guide for details.

Configure settings to connect the GP and a printer using a USB-PIO converter.

1 Select [Printer Settings] from the System Settings Window.

System Settings Window 7 × Display Settings Device Settings	Display Type Driver GP3000 Series Model AGP-3500T Installation Method Horizontal
Main Unit Settings Logic Program Settings Video/Movie Settings Font Settings	Printer Settings Summary Type Disable Port COM1
Peripheral Settings  Peripheral List Device/PLC Settings Bar Code Settings Script Settings I/O Driver Settings ETP Server Settings Modem Settings Video Module Settings	

- If the [System Settings Window] tab is not displayed in the Work Space, select the [View (V)] menu [Work Space (W)] option [System Settings Window (S)] command.
- 2 Designate the printer type to use and the output port. (e.g.: [Type] EPSON PM/Stylus 6 Colors, [Port] USB/PIO)

Series	GP3000 Series		
Model	AGP-3500T		
Installation Method	Horizontal		
Printer Settings			
Printer Settings Summary			
-			

**NOTE** • If the port is being used by another device, the **()** mark is displayed next to the box. Select a port that is not used by another device/PLC.

**3** Configure output settings. Set [Print Method], [Screen Hardcopy Rotation], [Print Scale], [Black/White Reverse Display], [Paper Size], [Paper Orientation] and [Top Margin].

Output Settings	
Print Method	C Monochrome  Color
Screen Hardcopy Rotation	C Enable 🗹 💿 Disable 🔺
Print Scale	3 🕂 🏙 Multiple
🔽 Black/White Reverse D	isplay
Paper Size	A4 297x210mm
Paper Orientation	C Landscape   Portrait
Top Margin	3 🕂 🗰 mm
	,

The printer connection settings are complete.

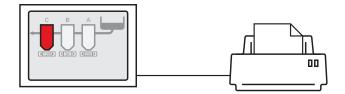
Connect the printer to the GP with a specified output port (USB/PIO) and configure print settings for each feature. The print will start.

• For a monochrome GP model, the print will be monochrome even if [Color] is selected for the [Print Method].

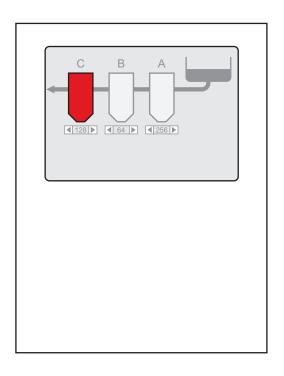
#### 33.4 Printing the Displayed Screen (Screen Hard Copy)

#### 33.4.1 Details

Prints what is displayed on the GP screen as an image.



Print Example



- The start method of screen hard copy differs depending on whether the communication method is direct access method or memory link method.
  - You can save the displayed screen into the CF-Card as a JPEG file.
  - "12.6 Saving the Displayed Screen" (page 12-18)

#### 33.4.2 Operation Method

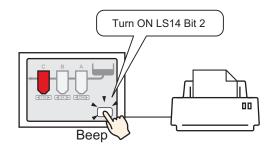
The following methods are used to start screen hard copy. The operation method differs depending on the communication method (direct access method/memory link method).

IMPORTANT	For more details on the communication method, refer to:
	<sup>(C)</sup> "A.1.2 Communicating with a Device/PLC without Burdening it (Direct Access
	Method)" (page A-3)
	<sup>(C)</sup> "A.1.3 Communicating with Unsupported Devices/PLCs (Memory Link Method)"
	(page A-5)

#### Direct Access Method

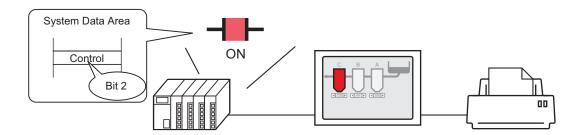
Operating by touch on the screen @ (page 33-16)

If you turn ON the GP internal device's LS14 (control address) Bit 2 (print start bit) using a switch, screen hard copy will start.



Operating from a device (PLC) @ (page 33-18)

If you turn ON the control address' Bit 2 in the system data area allocated to a device/PLC, screen hard copy will start.

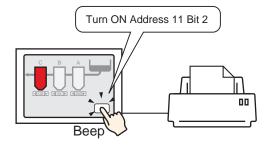


#### Memory Link Method

Operating by touch on the screen @ (page 33-20)

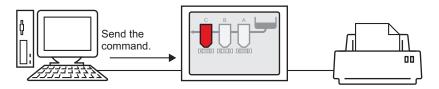
If you turn ON '0011' (control address) Bit 2

(print start bit) in the GP internal device (#MEMLINK) using a switch, screen hard copy will start.



Operating from a host (PC) (page 33-22)

If you send the command to write '0004h' to '0011' (control address) from a host (PC), screen hard copy will start.



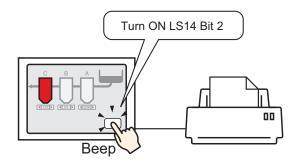
#### 33.4.3 Setup Procedure

#### Direct Access Method

#### ◆ To start screen hard copy by touch

For details of the part placement method and the address, shape, color, and label setting method, refer to the "Part Editing Procedure".
 "9.6.1 Editing Parts" (page 9-37)

Create a switch to operate the internal device LS14 bit 2.



- 1 Configure connection settings for the printer.
  - (33.3.2 Printer Setup Procedure" (page 33-11)
- 2 Select the [Part (P)] menu [Switch Lamp (C)] option [Bit Switch (B)] command, or click such a place the Switch Part on the screen.
- **3** Double-click the placed Switch and the settings dialog box opens.

Switch/Lamp						×
Part ID SL_0000	Switch Feature Switch Common	Lamp Feature C	olor   Labe	a ]		
Comment	Switch Feature Multi-function List Bit Switch	Bit Switch	Word Switch	Screen Chance	Special Switch	Selector Switch
Normal Select Shape No Shape	Add Add Copy and Add	Bit Address [PLC1]×0000 Copy from Lemp Bit Action Bit Set	Copy t Lamp			<u>&gt;&gt;Detai</u>
Help (H)					OK ( <u>O</u> )	Cancel

4 Select the Switch's shape from [Select Shape].

5 Designate the GP internal device's LS14 Bit 2 (print start bit) in [Bit Address].

Click the icon to display an address input keypad.

Select " #INTERNAL" from the device/PLC, select the "LS" device, input "1402" for the address, and then click "Ent."

Bit Address  [PLC1]X00000  Click  Click  T  4  1  0  Click  T  Cli	Cr 8 9 5 6 2 3
--	-------------------------

• The same operation switch can be created by selecting a variable "#H\_Control\_HardcopyPrint" from the pull-down menu of [Bit Address].

6 Choose [Bit Invert] from [Bit Action].

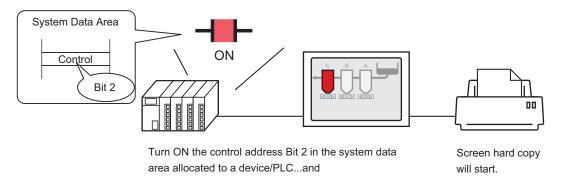
Bit Action	
Bit Invert	•

7 As needed, set the Switch's color and display text on the [Color] tab and [Label] tab, and click [OK].

A switch used to start screen hard copy has been created.

• During screen hard copy, LS6 (status address) Bit 2 (printing bit) in the GP internal device is ON. After printing, this bit automatically turns OFF. Confirm this bit OFF and then turn OFF LS14 Bit 2 (print start bit).

◆ To operate the start of screen hard copy from a device (PLC):



- 1 Configure connection settings for the printer. <sup>(3)</sup> "33.3.2 Printer Setup Procedure" (page 33-11)
- 2 Click the System Settings Window's [Main Unit Settings] to open the [System Area Settings] tab.

System Settings Window 4 × Display Settings Device Settings	Display Type Driver GP3000 Series Model AGP-3500T Installation Method Horizontal
Main Unit Settings Logic Program Settings Video/Movie Settings Font Settings	Main Unit Settings Display Settings Deration Settings Device Settings System Area Device PLC1
Peripheral Settings           Peripheral List           Device/PLC Settings	System Data Area System Area Start Address [PLC1]D00000 Read Area Size Enable System Data Area
Printer Settings Bar Code Settings Script Settings I/O Driver Settings ETP Server Settings Mode Settings	Select System Data Area Item     No. of Words to Use 0       Current Screen No.: (1 Word)       Error Status: (1 Word)       Clock Data (Current): (4 Word)       Status: (1 Word)
Modem Settings Video Module Settings	Reserved (Write): (1 Word)     Ghange-To Screen No.: (1 Word)

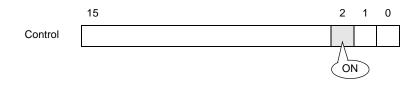
- If the [System Settings Window] tab is not displayed in the Work Space, select the [View (V)] menu [Work Space (W)] option [System Settings Window (S)] command.
- **3** Select a device/PLC to which to allocate the system data area in [System Area Device]. The system data area can be set to only one device/PLC.

4 Designate the start address of the system area in [System Area Start Address] and put a check mark next to the [Enable System Data Area] box. (e.g.: D00000)

Main Unit Settings	
Display Settings   Operation Settings   Action Sett	ings Logic Settings System Area Settings
Device Settings	
System Area Device PLC1	
System Data Area	
System Area Start Address [PLC1]D00000	
Read Area Size 0 📑 🏥	
🔽 Enable System Data Area	
Select System Data Area Item	No. of Words to Use 16
Current Screen No.: (1 Word)	[PLC1]D00000
Error Status: (1 Word)	[PLC1]D00001
Clock Data (Current): (4 Word)	[PLC1]D00002
Status: (1 Word)	[PLC1]D00006
Reserved (Write): (1 Word)	[PLC1]D00007
Change-To Screen No.: (1 Word)	[PLC1]D00008
Screen Display ON/OFF: (1 Word)	[PLC1]D00009
Clock Data (Setting Value): (4 Word)	[PLC1]D00010
Control: (1 Word)	[PLC1]D00014
Reserved (Read): (1 Word)	[PLC1]D00015
🗌 Window Control: (1 Word)	
🔲 Window Screen No.: (1 Word)	

**5** Confirm that there is a check mark next to the [Control: (1 Word)] box.

If you turn ON Bit 2 in the address displayed on the right side ('D00014' in the above example), screen hard copy will start.



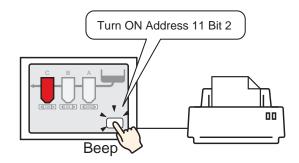
• When a [Status] address ("[Status: (1 Word)] D00006" in the above example) is allocated to the device/PLC, this address' bit 2 (printing bit) is ON during screen hard copy. After printing, this bit automatically turns OFF. Create the [Script] to turn OFF the control address ([Control: (1 Word)] D00014) bit 2 after making sure this bit has turned OFF.

#### Memory Link Method

#### ◆ To start screen hard copy by touch

### For details of the part placement method and the address, shape, color, and label setting method, refer to the "Part Editing Procedure". "9.6.1 Editing Parts" (page 9-37)

Create a switch to operate the internal device address '0011' Bit 2.



- 1 Configure connection settings for the printer. "33.3.2 Printer Setup Procedure" (page 33-11)
- 2 Select the [Part (P)] menu [Switch Lamp (C)] option [Bit Switch (B)] command, or click and place the Switch Part on the screen.
- **3** Double-click the placed Switch and the settings dialog box opens.

💰 Switch/Lamp							×
Switch/Lamp Part ID SL_0000  Comment  Normal  Select Shape  No Shape	Switch Feature Switch Common	Lamp Feature C Eit Switch Bit Address [#MEMLINK] Copy from Bit Action Bit Set	Word Switch	Screen Chance	Special Switch	Selector Switch	X
	Copy and Add						
Help ( <u>H</u> )					OK ( <u>D</u> )	Cancel	

4 Select the Switch's shape from [Select Shape].

5 Designate the GP internal device address '0011' Bit 2 (print start bit) in [Bit Address].

Click the icon to display an address input keypad.

Select "#MEMLINK" from Device/ PLC, input "1102" as the address, and click the "Ent."

Bit Address	Device/PLC #MEN		Bit Address
Click	Back     A   B     C     D   E     F	Clr           7         8         9           4         5         6           1         2         3           0         Ent	

• The same operation switch can be created by selecting a variable "#H\_Control\_HardcopyPrint" from the pull-down menu of [Bit Address].

6 Choose [Bit Invert] from [Bit Action].

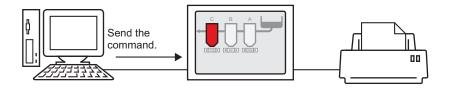
В	it Action	
	Bit Invert	•

7 As needed, set the Switch's color and display text on the [Color] tab and [Label] tab, and click [OK].

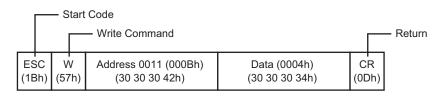
A switch used to start screen hard copy has been created.

**NOTE** • During screen hard copy, "0001" (status address) Bit 2 (printing bit) in the GP internal device (#MEMLINK) is ON. After printing, this bit automatically turns OFF. Confirm this bit OFF and then turn OFF the address "0011" Bit 2 (print start bit).

◆ To operate the start of screen hard copy from a host (PC):



- 1 Configure connection settings for the printer. <sup>(3)</sup> "33.3.2 Printer Setup Procedure" (page 33-11)
- **2** Send the write command to turn ON the internal device address "0011" Bit 2 (print start bit). For all inputs, use the ASCII code.



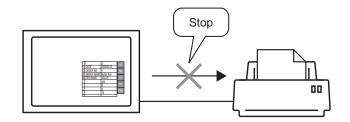
- If you write the above commands, all bits except Bit 2 in the address "0011" will turn OFF. To turn ON only Bit 2 without changing the other bits, read out the address "0011" data with the read-out command and then send the write command to change only Bit 2 of the read-out data.
  - If write commands are sent continuously without intervals, GP may not update displays.
  - During screen hard copy, "0001" (status address) Bit 2 (printing bit) in the GP internal device (#MEMLINK) is ON. After printing, this bit automatically turns OFF. Create the [Script] to turn OFF the address "0011" Bit 2 after making sure this bit has turned OFF.

#### 33.5 Canceling a Print

#### 33.5.1 Details

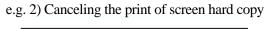
You can cancel data print or screen hard copy.

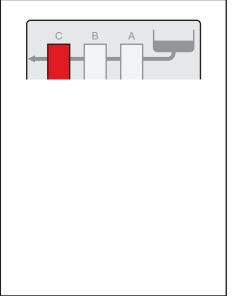
If you cancel, the print processes for all features that have been set will be canceled.



e.g. 1) Canceling the print of recipe (CSV data)

+	-+	+ 10:30:00
GROUP No.	•	10:30:00
GROUP NO.	•	1
ITEM NAME	•	1
	150	1
1	230	1
1	1300	1
I	1300	I





**NOTE** • The method of canceling print differs depending on whether the communication method is direct access method or memory link method.

#### 33.5.2 How to Cancel Printing

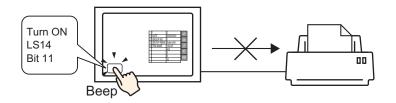
The following methods are used to cancel printing. The operation method differs depending on the communication method (direct access method/memory link method).

<b>IMPORTANT</b>	<ul> <li>For more details on the communication method, refer to:</li> </ul>
	"A.1.2 Communicating with a Device/PLC without Burdening it (Direct Access
	Method)" (page A-3)
	"A.1.3 Communicating with Unsupported Devices/PLCs (Memory Link Method)"
	(page A-5)

#### Direct Access Method

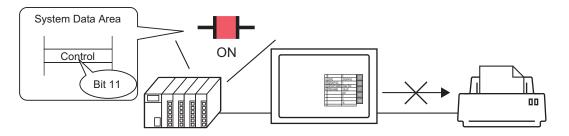
Operating by touch on the screen @ (page 33-26)

If you turn ON LS14 (control address) Bit 11 (print cancel bit) in the GP internal device using a switch, printing will be canceled.



Operating from a device (PLC) @ (page 33-28)

If you turn ON the [Control] address Bit 11 in the system data area allocated to a device (PLC), printing will be canceled.

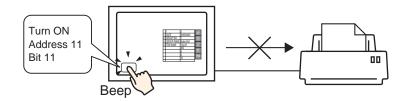


• The internal device LS14 or the device/PLC (control address) Bit 11 does not automatically turn OFF. While Bit 11 is ON, none of the print features will operate. Be sure to turn it OFF after canceling the print.

#### Memory Link Method

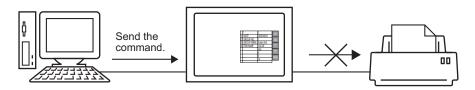
Operating by touch on the screen  $\Im$  (page 33-30)

If you turn ON Address 11 (control address) Bit 11 (print cancel bit) in the GP internal device (#MEMLINK) using a switch, printing will be canceled.



Operating from a host (PC) @ (page 33-32)

If you send the command to write '0800h' to Address 11 (control address) from a host (PC), printing will be canceled.



• "0011" (control address) bit 11 in the GP internal device (#MEMLINK) does not automatically turn OFF. While Bit 11 is ON, none of the print features will operate. Be sure to turn it OFF after canceling the print.

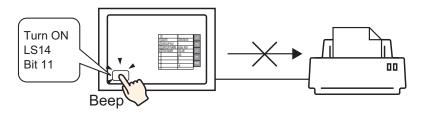
#### 33.5.3 Setup Procedure

#### Direct Access Method

#### ◆ To cancel the print by touch:

For details of the part placement method and the address, shape, color, and label setting method, refer to the "Part Editing Procedure".
 "9.6.1 Editing Parts" (page 9-37)

Create a switch to turn ON the internal device LS14 Bit 11.



- 1 Select the [Part (P)] menu [Switch Lamp (C)] option [Bit Switch (B)] command, or click and place the Switch Part on the screen.
- **2** Double-click the placed Switch and the settings dialog box opens.

💰 Switch/Lamp		<
Part ID SL_0000 ** Comment Normal Select Shape No Shape	Switch Feature       Switch Common       Lamp Feature       Color       Label         Image: Switch Feature       Multi-function List       Image: Special Special Switch       Special Special Switch       Selector         Bit Switch       Bit Address       Special Switch       Special Switch       Special Switch         Bit Address       Special Switch       Special Switch       Special Switch       Special Switch         Bit Address       Special Switch       Special Switch       Special Switch       Special Switch         Bit Address       Special Switch       Special Switch       Special Switch       Special Switch         Bit Address       Special Switch       Special Switch       Special Switch       Special Switch         Bit Address       Special Switch       Special Switch       Special Switch       Special Switch         Bit Action       Station       Station       Special Switch       Special Switch       Special Switch         Add       Special Switch       Special Switch       Special Switch       Special Switch       Special Switch         Copy and Add       Special Switch       Special Switch       Special Switch       Special Switch       Special Switch	
Help (H)	OK (D) Cancel	

**3** Select the Switch's shape from [Select Shape].

4 Designate the GP internal device LS14 Bit 11 (print cancel bit) in [Bit Address].

Click the icon to display an Select "#INTERNAL" from the address input keypad. Device/PLC, select the "LS" device, input "1411" for the address, and then click "Ent." 💰 Input Address Bit Address **Bit Address** [PLC1]X00000 [#INTERNAL]LS0014 Device/PLC #INTERNAL Ŧ • LS ▼ 1411 Back Click Clr 7 8 9 4 5 6 2 3 1 0 Ent The same operation switch can be created by selecting a variable NOTE "#H\_Control\_PrintCancel" from the pull-down menu of [Bit Address].

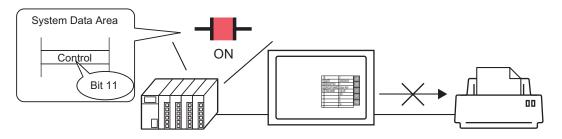
5 Choose [Bit Momentary] from [Bit Action].

В	it Action	
	Bit Momentary	•

6 As needed, set the Switch's color and display text on the [Color] tab and [Label] tab, and click [OK].

A momentary switch to cancel the print has been created.

#### ◆ To cancel the print from a device(PLC):



1 Click the System Settings Window's [Main Unit Settings] to open the [System Area Settings] tab.

System Settings Window 7 × Display Settings Device Settings	Display Type       Driver     GP3000 Series       Model     AGP-3500T       Installation Method     Horizontal
Main Unit Settings Logic Program Settings Video/Movie Settings Font Settings	Main Unit Settings Display Settings   Dperation Settings   Action Settings   Logic Settings   System Area Settings Device Settings System Area Device   PLC1
Peripheral Settings Peripheral List Device/PLC Settings Print Control	System Data Area System Area Start Address [PLC1]D00000 Read Area Size 0 Enable System Data Area
Printer Settings Bar Code Settings Script Settings I/O Driver Settings ETP Server Settings Modem Settings	Select System Data Area Item     No. of Words to Use 0       Current Screen No.: (1 Word)       Error Status: (1 Word)       Clock Data (Current): (# Word)       Status: (1 Word)       Status: (1 Word)       Reserved (Write): (1 Word)
Video Module Settings	Change-To Screen No.: (1 Word)

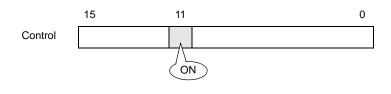
- If the [System Settings Window] tab is not displayed in the Work Space, select the [View (V)] menu [Work Space (W)] option [System Settings Window (S)] command.
- **2** Select a device/PLC to which to allocate the system data area in [System Area Device]. The system data area can be set to only one device/PLC.

**3** Designate the start address of the system area in [System Area Start Address] and put a check mark next to the [Enable System Data Area] box. (e.g.: D00000)

Main Unit Settings			
Display Settings   Operation Settings   Action Settings   Logic Settings   System Area Settings			
Device Settings			
System Area Device PLC1			
System Data Area			
System Area Start Address [PLC1]D00000			
Read Area Size 0 📑 🧮			
🔽 Enable System Data Area			
Select System Data Area Item	No. of Words to Use 16		
Current Screen No.: (1 Word)	[PLC1]D00000		
🔽 Error Status: (1 Word)	[PLC1]D00001		
Clock Data (Current): (4 Word)	[PLC1]D00002		
🔽 Status: (1 Word)	[PLC1]D00006		
Reserved (Write): (1 Word)	[PLC1]D00007		
🔽 Change-To Screen No.: (1 Word)	[PLC1]D00008		
Screen Display ON/OFF: (1 Word)	[PLC1]D00009		
Clock Data (Setting Value): (4 Word)	[PLC1]D00010		
Control: (1 Word)	[PLC1]D00014		
Reserved (Read): (1 Word)	[PLC1]D00015		
Window Control: (1 Word)			
🔲 Window Screen No.: (1 Word)			

4 Confirm that there is a check mark next to the [Control: (1 Word)] box.

If you turn ON Bit 11 in the address displayed on the right side ('D00014' in the above example), printing will be canceled.



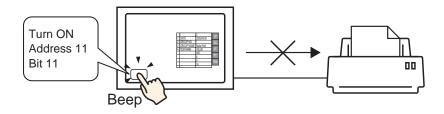
• [Control: (1 Word)] address Bit 11 does not automatically turn OFF. While Bit 11 is ON, none of the print features will operate. Be sure to turn it OFF after canceling the print.

#### Memory Link Method

#### ◆ To cancel the print by touch:

## For details of the part placement method and the address, shape, color, and label setting method, refer to the "Part Editing Procedure". "9.6.1 Editing Parts" (page 9-37)

Create a switch to turn ON the internal device address '0011' Bit 11.



- 1 Select the [Part (P)] menu [Switch Lamp (C)] option [Bit Switch (B)] command, or click and place the Switch Part on the screen.
- 2 Double-click the placed Switch and the settings dialog box opens.

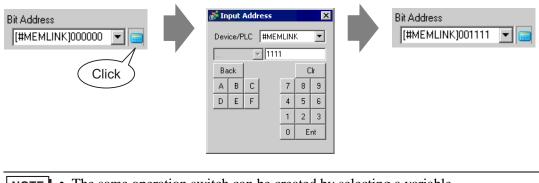
Switch/Lamp	K K K K K K K K K K K K K K K K K K K	1
Switch/Lamp Part ID SL_0000 Comment Normal Select Shape No Shape	Switch Feature       Switch Common       Lamp Feature       Color       Label         Image: Switch Feature       Multi-function List       Image: Special Special Switch       Special Switch       Selector Switch         Bit Switch       Bit Address       Special Switch       Special Switch       Special Switch         Bit Address       Image: Special Switch       Special Switch       Special Switch       Special Switch         Bit Address       Image: Special Switch       Special Switch       Special Switch       Special Switch         Bit Address       Image: Special Switch       Special Switch       Special Switch       Special Switch         Bit Address       Image: Special Switch       Special Switch       Special Switch       Special Switch         Image: Switch       Copy from Copy to Lemp       Copy to Lemp       Special Switch       Special Switch         Image: Switch       Switch       Switch       Switch       Special Switch       Special Switch         Image: Switch       Switch       Switch       Switch       Switch       Switch       Special Switch         Image: Switch       Switch       Switch       Switch       Switch       Switch       Switch         Image: Switch       Switch       Switch       Switch       Switc	
Help ( <u>H</u> )	OK (0) Cancel	]

**3** Select the Switch's shape from [Select Shape].

4 Designate the GP internal device '0011' Bit 11 (print cancel bit) in [Bit Address].

Click the icon to display an address input keypad.

Select "#MEMLINK" from Device/ PLC, input "1111" as the address, and click the "Ent."



• The same operation switch can be created by selecting a variable "#H\_Control\_PrintCancel" from the pull-down menu of [Bit Address].

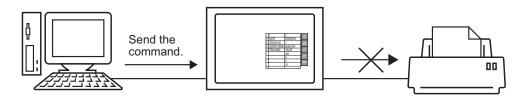
5 Choose [Bit Momentary] from [Bit Action].

В	it Action	
	Bit Momentary	•

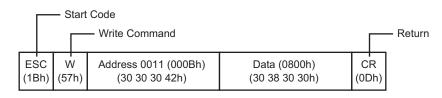
6 As needed, set the Switch's color and display text on the [Color] tab and [Label] tab, and click [OK].

A momentary switch to cancel the print has been created.

◆ To cancel the print from a host (PC):



1 Send the write command to turn ON the internal device address "0011" Bit 11 (print cancel bit). For all inputs, use the ASCII code.



- If you write the above commands, all bits except Bit 11 in the address "0011" will turn OFF. To turn ON only Bit 11 without changing the other bits, read out the address "0011" data with the read-out command and then send the write command to change only Bit 11 of the read-out data.
  - If write commands are sent continuously without intervals, GP may not update displays.
  - The address "0011" Bit 11 does not automatically turn OFF. While Bit 11 is ON, none of the print features will operate. Be sure to turn it OFF after canceling the print.

#### 33.6 Settings Guide

#### 33.6.1 [Print] Settings Guide

Prints the settings for the project file currently opened on GP-Pro EX.

🖇 Print	×
Printer	
Printer Name ( <u>N</u> )	Properties (P)
	Output to a File (RTF Format)
Туре	
Location	
Comment	
Detail	Item
Cover Page	Title
Project Information	
🖂 Summary	
- System Settings	
Global Cross Reference	J
- Screen Info	
Logic	Date/Time
I/O Settings	
🗄 🖳 Common Settings	Company Name
🗖 Alarm Settings	
Sampling Settings	
Recipe Settings	
Security Settings	
Time Schedule Settings	□ Name
🗖 Sound Settings	
Text Table Settings	Image
🗖 Global D-Script	
Extended Script	Reference Layout
User Define Function	
Print Preview	Option Settings Print Cancel Apply

Setting	Description	
Printer Name	Select the printer to use.	
Properties	The print setting dialog box opens for the printer selected in [Printer Name]. Configure settings for the paper size, direction, layout etc.	
Output to a File (RTF Format)	Put a check mark here for direct output to a file (*.rtf), not to a printer. The file output is in the same layout as for printing.	
	• Reduced bit map images are outputted.	
Detail	Select the items to print. Put a check mark next to all the items you want to print in [Cover Page], [Project Information], [Screen Info], [Common Settings] and [Comment]. [Project Information] and [Common Settings] have small items for print settings.	
Item	Detailed printing of the print contents selected in [Detail].	
Apply	Saves the settings.	
Cancel	Closes the [Print] dialog box.	
Print	Starts the print. Starts the file output when [Output to a File (RTF For- mat)] is designated.	

Continued

	Setting	Description
Option Settings		The [Option Settings] dialog box opens and you can set the page number,
		margin, black/white reverse display and other settings.
		💰 Option Settings
		Text Table used in Print Table 1
		☐ Black/White Reverse Display
		Page No.
		Print Page No. on Cover Page
		Start Page No.
		<u> </u>
	Text Table used in Print	Designate the text table used for printing.
	Black/White	Put a check mark to print the screen display colors with black and white
	Reverse Display	reversed.
	Page No.	Put a check mark to print the page number.
	Print Page No.	Put a check mark to print the page number on the cover page. Otherwise
	on Cover Page	the page number starts with "1" sequentially from the page following the
		cover page.
	Start Page No.	Designate the start page number for printing. The setting range is from 1 to 65,535.
		Opens the preview screen.
		Seprint Preview
		Print         Next: Page         Previous Page         2 Page         Enlarge         Reduce         Close
		·
		Project Setting(Summary)
Pri	nt Preview	
		Summary Project Name test.prx
		Project Name test.prx Last Saved Date and Time Fri Oct 28 11:24:41 2005 Creator Pro-face
		Title Send Data Size 75347 Bytes
		Model AGP-3500T Device/PLC 1 Mitsubishi Electric Corporation Q/QnA Ser
		ication [COM1] Printer Disable
		Bar Code 1 Disable
		11
	Print	Returns to the [Print] dialog box.
Next Page Previous Page		Previews the page following the currently displayed page.
		Previews the page preceding the currently displayed page.
	2 Page	Previews 2 pages per screen.
	Enlarge/Reduce	Enlarges or reduces the display.
	Close	Closes the preview screen.

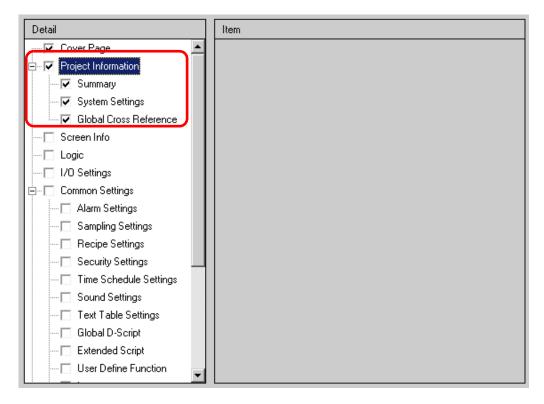
#### Cover Page

Detail	Item	
Cover Page	🔽 Title	
Summary		
System Settings		
Global Cross Reference		
🗖 Screen Info		
🗖 Logic	✓ Date/Time	
I/O Settings		
E Common Settings	🔽 Company Name	
Alarm Settings		
Sampling Settings		
Recipe Settings		
Security Settings		
Time Schedule Settings	Name	
Sound Settings		
Text Table Settings	🔽 Image	
Global D-Script		
Extended Script		Reference Layout
User Define Function		

Setting	Description	
Title	Put a check mark to print the Title. Then input the title with up to 60 sin- gle-byte or two-byte characters.	
Date/Time	Put a check mark to print the Date/Time. Then the date and time is auto- matically displayed in the "yyyy/mm/dd hh:mm" form. You can change the form by inputting up to 40 single-byte or 20 two-byte characters if necessary.	
Company Name	Put a check mark to print the Company Name. Then input the company name with up to 60 single-byte or 30 two-byte characters.	
Name	Put a check mark to print the Name. Then the project file creator's name will be automatically displayed. You can change the form by inputting up to 30 single-byte or two-byte characters if necessary.	
Image (Main Unit)	Put a check mark to print an image file on the cover page. Then the stor- age location and name of the file selected in [Reference] will be dis- played.	
Reference	The [Open File] dialog box is displayed. Select an image file you want to print. You can use two types of files: [Bitmap (*.bmp)] and [JPEG (*.jpg, *.jpeg)].	
Layout	The [Cover Page Bit Map Layout] dialog is displayed. You can change the layout alignment with the mouse.	

#### Project Information

Put a check mark next to the items you want to print: [Summary], [System Settings], and [Global Cross Reference].



Setting	Description	
SummaryPrints the project information, such as a project file name, a file's saved date and time, main unit model name, device/PLC, etc.		
System Settings	Prints the contents of the [Main Unit Settings] and [Font Settings] in the [System Settings] Window. <sup>(CP)</sup> "5.13.6 [System Settings Window] Settings Guide" (page 5-99)	
Global Cross Refer- ence	Prints the addressing for the whole project. The addressing for all the screens is printed.	

## Logic

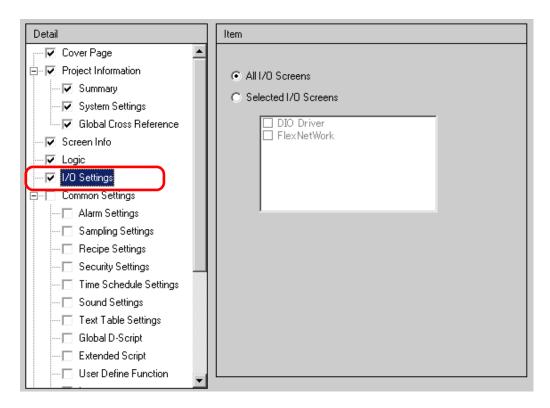
Detail	Item
Cover Page Project Information Summary System Settings Global Cross Reference Screen Info I/O Settings Common Settings Alarm Settings Sampling Settings Security Settings Security Settings Time Schedule Settings	All Logic Screens Selected Logic Screens   INIT   MAIN   MAIN   C Print Range   Logic   MAIN   Start Rung   End Rung   Select Rung
Cound Settings     Text Table Settings     Global D-Script	<ul> <li>Variable Comment</li> <li>Rung Comment</li> <li>Reverse Black/White</li> </ul>
Extended Script     User Define Function	

Setting	Description
All Logic Screens	Print all logic screens.
Selected Logic Screens	Select the logic screen to print from [INIT] or [MAIN]. If a subroutine program has been created, you can select from [SUB-01]-[SUB-32].
Print Range	<ul> <li>Specify the print range.</li> <li>Logic Select the logic screen to print from [INIT] or [MAIN]. If a subroutine program has been created, you can select from [SUB-01]-[SUB-32].</li> <li>Start Rung Specify the row from which to start printing.</li> <li>End Rung Specify the row at which to end printing.</li> <li>Select Rung On the logic screen, select and click a row to specify a row number for the [Start Rung] and [End Rung].</li> </ul>
Variable Comment	Print the comment specified for the variable.
Rung Comment	Print the comment specified for the row.
Reverse Black/White	Select whether to print in black and white.

• If the placed instruction does not fit within the space between the left and right rails, the line is printed after being reduced. Line break printing is not applied.

#### I/O Settings

• You can only print the settings on models that support logic functions. \* "1.3 List of Supported Functions by Device" (page 1-4)



Setting	Description	
All I/O Screens	Print all I/O screens.	
Selected I/O Screens	Select the I/O screen to print from either [DIO Driver] or [FlexNetwork].           NOTE           • You can only print if a I/O Driver is supported.	

# Screen Info (List)

Detail	Item
Cover Page     Project Information     Summary	Print Contents C Detail
Screen Info Cogic	✓ Window Screen       Print Method <ul> <li>Thumbnail</li> <li>List</li> <li>Thumbnail Size</li> <li>Large</li> </ul>

Setting	Description	
Print Contents	Select the Print Contents from [List] or [Detail].	
Base Screen	Put a check mark to print all the [Base Screen] information set for the project file.	
Window Screen	Put a check mark to print all the [Window Screen] information set for the project file.	
Print Method	<ul> <li>Select the Print Method.</li> <li>Thumbnail Prints multiple screens in reduced images.</li> <li>List Prints the screen information list in text.</li> </ul>	
Thumbnail Size	<ul> <li>For [Thumbnail] in [Print Method], select the size from [Large], [Middle] or [Minor].</li> <li>Large: Prints 6 reduced images per A4 sheet.</li> <li>Middle: Prints 12 reduced images per A4 sheet.</li> <li>Minor: Prints 20 reduced images per A4 sheet.</li> </ul>	

# Screen Info (Detail)

Detail	Item	
Cover Page	Print Contents C List 💽 Detail	
Erroject Information		
Summary	Base Screen  All  Specify Screen	
System Settings	Start  1 🚔 🏢 End  1 🕂 🏢	
Global Cross Reference	☑ Window Screen	
Screen Info	Start 1 🕂 🏭 End 1 🕂 🏭	
- V Logic	Print Items	
····▼ I/O Settings	Screen Hard Copy	
E Common Settings	Screen Border	
Alarm Settings		
Sampling Settings	Part Mark. Address	
Recipe Settings	🗖 Show Window Screen 🗖 Show Grid	
Security Settings	State State 0 (OFF)	
Time Schedule Settings	Part List © Summary C Detail	
Sound Settings	D-Script	
Text Table Settings		
🗖 Global D-Script	Trigger Action	
Extended Script	Cross Reference	
User Define Function		

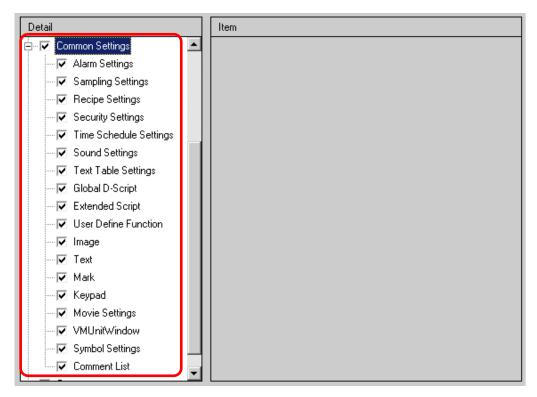
Setting	Description
Print Contents	Select the print contents from [List] or [Detail].
Base Screen	Put a check mark to print the [Base Screen] information in the project file.
All/Specify Screen	To print base screen information, select [All] or [Specify Screen]. For [Specify Screen], specify the print range with screen numbers in [Start] and [End]. The setting range of screen numbers is from 1 to 9,999.
Window Screen	Put a check mark to print the Window Screen information in the project file.
All/Specify Screen	To print window screen information, select [All] or [Specify Screen]. For [Specify Screen], specify the print range with screen numbers in [Start] and [End]. The setting range of screen numbers is from 1 to 2,000.

Continued

Setting		Setting	Description	
Print Items		ems	Select the items to print.	
	Screen Hard Copy		Put a check mark to print the drawing screen. Then you can set the fol- lowing items.	
		Screen Border	Put a check mark to print the Screen Border.	
		Part Mark	Put a check mark to print the Part Mark.	
		Show Window Screen	Put a check mark to print the Window Screen.	
		Part ID	Put a check mark to print the Part ID.	
		Address	Put a check mark to print the setting address.	
		Show Grid	Put a check mark to print the Grid.	
		Status	Designate the State of the part to print.	
Part List		st	Put a check mark to print the information list of the placed part. Select the Print Contents from [Summary] or [Detail].	
D-S	Script		Put a check mark to print the settings for D-Script.	
Triç	gge	r Action	Put a check mark to print the settings for Trigger Action.	
Cross Reference		Reference	Put a check mark to print the addressing for the screen.	

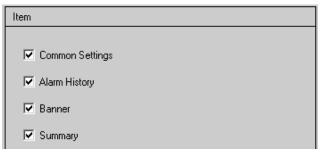
#### Common Settings

Select all the items you want to print in the [Common Settings].



#### ♦ Alarm Settings

Select all the settings you want to print from [Common Settings], [Alarm History], [Banner], and [Summary].



## Sampling Settings/Recipe Settings

Item			
Print Contents	Summary	O Detail	
Think Contents	is building	S Dordan	

Setting	Description
Print Contents	Select the print contents from [Summary] or [Detail]. e.g.) For Sampling Settings Summary : Prints a summary list of settings for each group. Detail : Prints the settings for all the items in each group.

#### ♦ Global D-Script/User Define Function

Item		
Print Contents	C List	🔘 Detail

Setting	Description
	Select the print contents from [List] or [Detail].
	e.g.) For Global D-Script
Print Contents	List: Prints a list of each ID's [ID], [Comment], [Trigger Condition], and
	[Debug Function].
	Detail: Prints the settings for all the items in each ID.

# ♦ Image

Item		
Print Method	Thumbnail	🗋 🔿 List
Thumbnail Size	Large	•
Print Range	⊙ All	O No. Specification
	Start 1 🚊	End 1 🕂 🏭

Setting	Description
	Select the Print Method.
	• Thumbnail
Print Method	Prints multiple [Image] screens in reduced images.
	• List
	Prints a list of each [Image] screen's [No.] and [Comment].
	For [Thumbnail] in [Print Method], select the size from [Large], [Middle]
	or [Minor].
Thumbnail Size	Large: Prints 6 reduced images per A4 sheet.
	Middle: Prints 12 reduced images per A4 sheet.
	Minor: Prints 20 reduced images per A4 sheet.
	For [Thumbnail] in [Print Method], select the Print Range from [All] or
Print Range	[No. Specification]. For [No. Specification], specify the Range with image
	numbers in [Start] and [End].

#### ♦ Text

Item			
Print Contents		C List	• Detail
Print Range		• All	O No. Specification
	Start	1 🗧 🏢	End 1 🕂 🏢
Table to print		<ul> <li>Table specif</li> <li>Settings only</li> </ul>	
		C All	

Setting	Description
Print Contents	<ul> <li>Select the print contents from [List] or [Detail].</li> <li>List <ul> <li>Prints a list of each text's [No.], [Comment], [Language], [Max No. of Chars], [Max No. of Rows], etc.</li> </ul> </li> <li>Detail <ul> <li>Prints the input contents of each text.</li> </ul> </li> </ul>
Print Range	Select the Print Range from [All] or [No. Specification]. For [No. Specification], specify the Range with text numbers in [Start] and [End].
Table to Print	Select whether to print text with the text table specified in [Option Set- tings] in the [Print] dialog box or with all the text tables.

#### Mark

Item			
Print Method		• Thumbnail	O List
Print Range		• All	O No. Specification
	Start	1 * *	End 1 🕂 🏢

Setting	Description
	Select the Print Method.
	• Thumbnail
Print Method	Prints multiple [Mark] screens in reduced images.
	• List
	Prints a list of each [Mark] screen's [No.] and [Comment].
	For [Thumbnail] in [Print Method], select the Print Range from [All] or
Print Range	[No. Specification]. For [No. Specification], specify the Range with
	mark numbers in [Start] and [End].

## Keypad

Item		
Print Contents	Summary	🔿 Detail
Summary		
Print Method	Thumbnail	C List
Thumbnail Size	Large	•
Detail		
🔲 Screen Hard Copy		
🔲 Part List		
O All	💿 No. Specificatio	n
Start 1 🚊	End 1	

Setting		Description
Print Contents		Select the print contents from [Summary] or [Detail].
Summary	Print Method	<ul> <li>Select the Print Method.</li> <li>Thumbnail Prints multiple [Keypad] screens in reduced images.</li> <li>List Prints a list of each [Keypad] screen's [No.] and [Comment].</li> </ul>
	Thumbnail Size	For [Thumbnail] in [Print Method], select the size from [Large], [Mid- dle] or [Minor]. Large: Prints 6 reduced images per A4 sheet. Middle: Prints 12 reduced images per A4 sheet. Minor: Prints 20 reduced images per A4 sheet.
	Screen Hard Copy	Put a check mark to print a [Keypad]'s screen hard copy.
Detail	Part List	Put a check mark to print a list of parts with keypad settings.
	Print Range	<ul> <li>For [Detail] in [Print Contents], select the Print Range from [All] or [No. Specification]. For [No. Specification], specify the Range in [Start] and [End].</li> <li>NOTE</li> <li>This can only be specified when the print range is 'Screen Hard Copy' or 'Part List' or when both are set.</li> </ul>

#### ♦ VM Unit Window

Item
Print Contents 💿 Summa 🔿 Detail
Summary
Print Method 💿 Thumbnail 💿 List
Thumbnail Size
Detail
C All C No. Specification
Start End 🕅 🏥
🔽 Screen Hard Copy
🔽 Screen Border 🛛 🗖 Part ID
🗖 Part Mark. 🗖 Address
🗖 Show Window Screen 🗖 Show Grid
Part List C Summary © Detail

Setting		Description
Prin	t Contents	Select the print contents from [Summary] or [Detail].
Summary	Print Method	<ul> <li>Select the Print Method.</li> <li>Thumbnail Print the multiple [VM Unit Window] screens in a reduced size image.</li> <li>List Print a list of the [Numbers] and [Comments] for the [VM Unit Window] screens.</li> </ul>
	Thumbnail Size	For [Thumbnail] in [Print Method], select the size from [Large], [Mid- dle] or [Minor]. Large: Prints 6 reduced images per A4 sheet. Middle: Prints 12 reduced images per A4 sheet. Minor: Prints 20 reduced images per A4 sheet.
	All/No. Specification	Specify whether to print all the [VM Unit Window] screens or only print the screen No.'s specified by [Start] and [End].
Detail	Screen Hard Copy	Display [Screen Border], [Part ID], [Part Mark], [Address], [Show Win- dow Screen], and [Show Grid] and specify whether to print a hardcopy of the screen.
	Part List	Specify whether to print the list of parts specified in the VM Unit Win- dow Settings in [Summary] or [Detail].

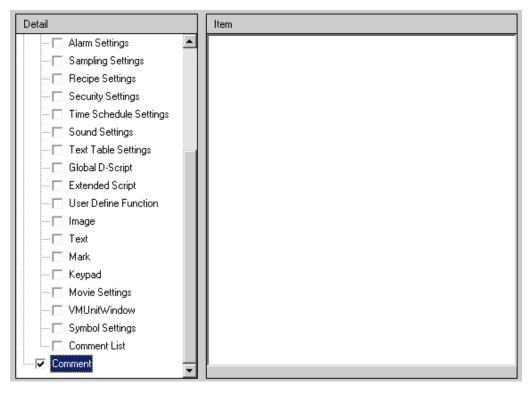
## ♦ Comments List

Specify the [Variable], [System Variable] and [Rung] that you wish to print.

Item	
🔽 Variable	
System Variable	
🔽 Rung	

#### Comment

Input a comment for the print contents. The comment can be up to 80 single-byte characters (40 two-byte characters)  $\times$  40 rows.



# 33.6.2 System Settings [Printer Settings] Guide

#### Set a printer connected to GP.

Pr	inter Settings				
Su	Summary				
	Type EPSON PM/Stylus 6 (	Colors 🔽 Port COM1 🔽 9			
Г	Output Settings				
	Print Method	O Monochrome       Color			
	Screen Hardcopy Rotation	◯ Enable 🗹 💿 Disable 🔺			
	Print Scale	3 🕂 🏙 Multiple			
	🔽 Black/White Reverse Di	splay			
	Paper Size	A4 297x210mm			
	Paper Orientation	O Landscape 💿 Portrait			
	Top Margin	3 📑 🏥 mm			
L					
Γ	Communication Settings				
	Speed	9600			
	Data Length	○ 7 Bit ● 8 Bit			
	Parity	⊙ None ○ Odd ○ Even			
	Stop Bit	O 2 Bit ● 1 Bit			
	Flow Control	○ None ④ RTS/CTS Control ○ ER(DTR/CTS) Control			

	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 PM/Stylus 4 Colors] or [Text ASCII].
		• For [Text ASCII], the text's shape may be different, because the print method is different.
Port		Select the output port of the printer to connect from [COM1], [Ethernet], [USB], or [USB/PIO].
		NOTE
		• If the port is being used by another device, the $\textcircled{0}$ mark is displayed next to the box.
	Print Method	Select the print method from [Monochrome] or [Color].
Output Settings		NOTE
		• For a monochrome GP model, the print will be monochrome even if [Color] is selected for the [Print Method].
	Screen Hard- copy Rotation	Select the print direction for screen hard copy from [Enable] or [Disable].
	Print Scale	Set the print scale to 1-4 only if the [Type] is [EPSON PM/Stylus 6 Colors] or [EPSON PM/Stylus 4 Colors].
	•	Continued

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	Setting	Description
Output Settings	Black/White Reverse Display	Select whether or not to print with black and white reversed.
	Connection Method	Select the LAN printer connection method from [LPR] or [IPP] only if the [Port] is [Ethernet].
	Paper Size	Select the paper size from [A3], [A4], [B4], [B5], or [Letter] only if the [Type] is [EPSON PM/Stylus 6 Colors] or [EPSON Stylus 4 Colors].
	Paper Orienta- tion	Select the output paper orientation from [Landscape] or [Portrait] only if the [Type] is [EPSON PM/Stylus 6 Colors] or [EPSON Stylus 4 Colors].
	Top Margin	<ul> <li>Specify the top margin from 3-20 only if the [Type] is [EPSON PM/Stylus 6 Colors] or [EPSON PM/Stylus 4 Colors].</li> <li>NOTE</li> <li>When you use PM-G700, PM-G720, or PM-G730, specify the top margin as 3mm. If anything other than 3mm is specified for the top margin, only the hard copy of the screen can be printed normally.</li> </ul>

#### Communication Settings (for COM1)

Communication Settings —	
Speed	9600
Data Length	C 7 Bit ⊙ 8 Bit
Parity	⊙ None ⊂ Odd ⊂ Even
Stop Bit	◯ 2 Bit 💽 1 Bit
Flow Control	○ None ● RTS/CTS Control ○ ER(DTR/CTS) Control

Setting	Description
Speed	Select a communication speed to the printer from [2400], [4800], [9600], [19200], [38400], [57600] or [115200].
Data Length	Choose the communication data length to the printer from [7 Bit] or [8 Bit].
Parity	Select the communication parity bit to the printer from [None], [Odd], or [Even].
Stop Bit	Choose the communication stop bit length to the printer from [2 Bit] or [1 Bit].
Flow Control	Select the communication control method to the printer from [None], [RTS/CTS Control], or [ER (DTR/CTS) Control].

**NOTE** • Basically suit to the printer settings.

## **Communication Settings (for Ethernet)**

Communication Settings —	
IP Address	0.0.0.0
Port No.	1024 -
Timeout	90 🕂 🇱
User Name	noname
Printer Name	noname

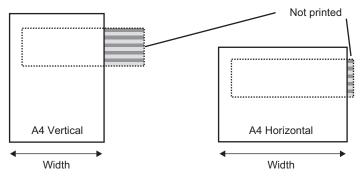
Setting	Description
IP Address	Designate the printer server IP address.
Port No.	Designate the printer server port number from 0 to 65,535.
Timeout	Set the output timeout from 0 to 300 ms (millisecond).
User Name	Input the name of the user who requests a printing job only if the [Con- nection Method] is [LPR]. The name specified here will be displayed in the owner field on the queue display. (e.g.: "Guest")
Printer Name	Set the shared name of the printer server only if the [Connection Method] is [LPR]. (e.g.: "EPSONStyC61")
Printer URI	This item is displayed only if the [Connection Method] is [IPP]. Set part of the printer's network name. (e.g.: "/printers/StyC61/.printer")

• When printing with LAN connection, it takes approximately one minute before the print starts.

## 33.7 Restrictions

## 33.7.1 Restrictions for Printing from the GP

- Only one printer can be connected to the GP.
- The print is canceled if you switch to the offline screen or transfer screens during printing.
- Any portion that exceeds an A4 width is not printed.



- Because the print processing load is heavy, especially in printing with PM/Stylus (6 Colors) or Stylus (4 colors), GP screen updates (parts and screen switching processing) will become slower.
- When printing screen hard copy in monochrome tone, the print results differ between PM/ Stylus (6 Colors) or Stylus (4 Colors) and with other printers (such as NEC PC-PR201). This is because the color data is identified not by its density but as levels of shading.
- If the printer type is [Text ASCII], the text's shape may be different, because the print method is different.
- If you cancel, all the print processing features that have been set will be canceled.
- When the communication method is direct access, use the system data area (the area that links to the system data area in the GP internal device) to control screen hard copy or print cancel from a device (PLC). If multiple devices (PLCs) are connected, the system data area can be set to only one device (PLC).
- When the communication method is memory link, if write commands are sent continuously without intervals, GP may not update displays.
- When printing with LAN connection, it takes approximately one minute before the print starts.
- If you print from the GP when the printer is not connected to the GP with a cable or when the printer is OFF, the GP temporarily saves the print data. When the connection with the printer recovers or when the printer turns ON, the GP outputs the temporarily saved print data to the printer.
- LAN connection (network printer) does not support Alarm (Banner) Print, Alarm (History) Real Time Print, Alarm (History) Batch Print, Sampling Data Real Time Print, Sampling Data Block Print, CSV Data Print, or Script Printer Output.
- For a monochrome GP model, the print will be monochrome even if [Color] is selected for the [Print Method] in the [System Settings Window]'s [Printer Settings].
- Regardless of whether [Printer Settings] [Print Method] is set with monochrome or color settings, an Alarm History is printed out in color. However, if you have selected the printer's [Type] as HP Laser Jet, an Alarm History will print out in monochrome if you select [Monochrome] for the [Print Method].

# Memo