33 Transferring Projects and Data

This chapter explains how to transfer GP-Pro EX project files to the GP and how to transfer the project files stored on the GP to your PC.

Please start by reading "33.1 Settings Menu" (page 33-2) and then turn to the corresponding page.

33.1	Settings Menu	33-2
33.2	Transferring Project Files via USB Transfer Cable	
33.3	Transferring Project Files via Ethernet (LAN)	33-12
33.4	Comparing Project Changes Prior to Transfer	33-25
33.5	Transferring Only Data to a CF Card	
33.6	Transferring with Passwords	33-32
33.7	Transferring Project Files Using a CF Card or USB Storage	33-37
33.8	Updating Remote Screen Data via Modem	33-50
33.9	Checking Errors	
33.10	Setting Up Transfer Tool	
33.11	Restrictions	33-74

33.1 Settings Menu







33.2 Transferring Project Files via USB Transfer Cable

Use an optional USB transfer cable (type: CA3-USBCB-01) to connect a PC to the GP and transfer project files (*.prx).



• For specifications and instructions on how to install your USB transfer cable, please refer to your USB transfer cable's instruction manual.

33.2.1 Introduction

Transfer from PC -> GP (Send)
 You can send the selected project files (*.prx) to the GP for display.



Transfer from GP -> PC (Receive)
 Project data stored in the GP can be transferred to the PC as a new project file (*.prx)



33.2.2 Transfer Process

■ Transfer from PC to GP (Send)

The following explains the procedure for transferring project files to the GP for the first time.

NOTE	• For more information about the Send function, please refer to "33.10.3 How
	Sending Data Works" (page 33-70).
	Diagon refer to the Setting Cride for details

- Please refer to the Settings Guide for details.
 "33.10 Setting Up Transfer Tool" (page 33-58)
- 1 Connect the PC and GP using the optional USB transfer cable set. If the USB cable driver is not installed, a dialog box appears. Install the driver as directed.
 - Depending on your Windows XP Security Level settings, the following [Install Hardware] dialog box may appear during USB driver installation. Click [Continue (C)] to start installation of the CA3-USBCB-01 driver. Once installation has been completed, click [Finish].



2 Turn ON the GP. The [Initial Start Mode] screen appears on the GP.

(GP Screen)



This screen appears when you first power up the GP. After transferring a project once, this screen will not appear. **3** On the GP-Pro EX state tool bar, click the Transfer Project icon Transfer Project. The [Transfer Tool] dialog appears.

🔊 Transfer Tool				
File (F) Transfer (T)	Settings (S) He	lp (H)		
	Send Project	Project Information		Select Project
	Receive Project	Project File Name [test.prx] (Display Unit Model : AGP-3500T) Comment		-
i i i i i i i i i i i i i i i i i i i	Compare Project	Date [2007/07/05 15:13]		
	Display Unit Information	Designer [GP User]		
🥶 🔶 📄	CF Card Connection	Transfer operation password		▼
	Memory Loader	Transfer Information	٥Ö	Transfer Settings
	Send Web site	Device [USB]		
		Transfer Project [Automatic]		
		Transfer system [Automatic]		
				Close

- 4 Confirm the project details in [Project Information]. To transfer a different project, click the [Select Project] button and choose the appropriate project.
- 5 In [Transfer Information], acknowledge that [Device] is [USB]. If [USB] is not selected, click [Transfer Settings]. The [Transfer Settings] dialog box appears. In [Communication Port Settings], select [USB] and click [OK].

🔊 Transfer Settings	×
Tarnsfer Settings Site Settings	
Communication Port Settings USB LAN Modem CDM	Transfer Project Automatic Retain retentive variables All Transfer System Automatic Forced
 ✓ Transfer CF Files ✓ Transfer site data 	OK Cancel

6 Click [Send Project].

The transfer begins. When the following dialog box appears, click [Yes]. This dialog box is not displayed when the same project file is sent again.

🔊 USB		×	
?	Transferring all projects will be executed. Is that OK?		
	Yes	No	

The following dialog box appears during transfer to check the communication status. During the transfer, the GP changes to Transferring mode and communication with the device/PLC is suspended.

Receive Project		×
Display Unit Status	USB	
Uppy Um USB transferring	Connectine Main Unit Password Chock started Password Chock Started Password Check completed Runtime-Version Check started	GP Screen
		Data transfer is in progress. Please do NOT turn off the machine until complete.
	Close	

7 When the transfer finishes, the status changes from [Transferring] to [Transfer Complete]. Click [Close]. (The GP is reset and the transferred screens are displayed.

Display Unit Status USB Transfer compl Status Status Status Connecting to display unit. Stating password check. Password check. Password check. complete. Stating to transfer firmware. Stating to transfer firmware. Transfering Plutime complete. Stating to transfer firm VD driver. Did not send the I/D Driver. Transfering I/D driver complete. Stating to transfer firm. Stating to transfer firm display unit. Transfering I/D driver. Transfering I/D driver complete. Stating to transfer firm. Stating to transfer firm display unit. Transfering from display unit. Transfering I/D driver. Disconnecting from display unit. Transfering I/D driver. Disconnecting from display unit. Transfer complete. Stating to transfer firm. Stating to transfer firm display unit. Transfer complete. Disconnecting from display unit. Transfer comp

8 Click [Close] to return to the Transfer Tool. Click [Close] again to close the Transfer Tool.

■ Transfer from GP to PC (Receive)

Receives project data currently stored on the GP to a PC.

- For more information about the Receive function, please refer to "33.10.4 How Receive Works" (page 33-71).
 Please refer to the Settinge Guide for details
 - Please refer to the Settings Guide for details. ^(C) "33.10 Setting Up Transfer Tool" (page 33-58)
- 1 Connect the PC and GP using the optional USB transfer cable set.
- 2 On the GP-Pro EX state tool bar, click the Transfer Project icon Transfer Project icon Tool] dialog appears.

🔊 Transfer Tool			
File (F) Transfer (T) Settings (S) He	lp (H)		
Send Project	Project Information	þ	Select Project
Receive Project	Project File Name [test.prx] (Display Unit Model : AGP-3500T)		<u> </u>
Compare Project	Comment [] Date [2007/07/05 15:13]		
Display Unit Information	Designer [GP User]		
CF Card Connection	Transfer operation password		•
Memory Loader	Transfer Information	QŎ	Transfer Settings
Send Web site	Device [US B]		
	Transfer Project [Automatic]		
	Transfer system [Automatic]		
			Close

3 In [Transfer Information], acknowledge that [Device] is [USB]. If [USB] is not selected, click [Transfer Settings] to display the [Transfer Settings] dialog box below. In [Communication Port Settings], select [USB] and click [OK].

Communication Port Settings	Iranster Project Automatics Detain retention unsighter
C IAN	
C Modem	CAII
С СОМ	
	Transfer System
	 Automatic
	C Forced
✓ Transfer CF Files	
Transfer site data	

4 Click [Receive Project]. When the following dialog box appears, specify the location to save the data you are receiving and its project file name. Click [Save] to start the transfer.



During the Transfer process, use the following dialog box to check the communication status.

🔊 Receive Project	_ D ×
Display Unit Status USB	
Display Unit Status USB Transferring Gonnecting Main Unit Password Not set. Password Obeck completed. Receiving the project started. Disconnecting Main Unit	
	Close

5 When the transfer finishes, the status changes from [Transferring] to [Transfer Complete]. Click [Close].

🔊 Receive Projec	t		×
Display Unit	Status Complete Tron	USB	
		Connecting Main Unit Password Check started. Password Check completed. Receiving the project started. Disconnecting Main Unit Disconnected Main Unit Received project. Complete Transfer	
1		Close	

If you receive a project file that uses CSV Data Recipes or other CF Card data, the following dialog box appears. Click [OK] to finish the process.

Browse For Folder	? ×
🖂 🦳 GP-Pro EX	_
🛅 backup	
E 🛅 CML	
🗉 🛅 CMLUSB	
🗉 📄 Converter	
🗀 Database	
🗀 en	
E FONT	
Conts Conts	T
Make New Folder OK	ancel
	11.

6 Click [Close] to return to the Transfer Tool. Click [Close] again to close the Transfer Tool.

33.3 Transferring Project Files via Ethernet (LAN)

Use an Ethernet connection to transfer project files (*.prx) over the LAN.



33.3.1 Introduction

Transfer from PC -> GP (Send)
 You can send the selected project files (*.prx) to the GP to display the project.
 The same project can be sent to multiple GPs on the network.



• Transfer from GP -> PC (Receive)

Project data stored in the GP can be saved to the PC as a new project file (*.prx) Even if multiple GPs exist on the network, data can only be received from one GP.



33.3.2 Transfer Process

■ Transfer from PC to GP (Send)

This procedure is used when sending the first project to the GP.

NOTE	• For more information about the Send function, please refer to "33.10.3 How
	Sending Data Works" (page 33-70).

- The IP address preset at the time of purchase can be used to transfer data. ^(G) " ■ Transferring Projects Using the Factory Set IP Address" (page 33-21)
- Please refer to the Settings Guide for details. ⁽²⁷⁾ "33.10 Setting Up Transfer Tool" (page 33-58)
- 1 Connect the LAN cable to the GP to establish the network with the PC installed with GP-Pro EX. (Designate the same network IP address on your PC.)
- **2** Turn ON the GP. The [Initial Start Mode] screen appears. To change the display language, touch the [Language] drop-down list.

Language	ENGL ISH	
Thank you for	your purchasing.	
To initialize	this unit, please download the	
Runtime system	n from the editor.	
Note:Touch th	e Ethernet Setup Switch	
to change the	IP address.	

This screen appears when you first power up the GP. After transferring a project once, this screen will not appear.

3 Set the IP address on the GP. Touch [Ethernet Setup]. The following screen appears and the contents set at the time of transfer are displayed.

NOTE	• The IP address is set by default to 10.***.***. The ***part depends on
L	the individual model.

IP Address:	10	***	****	skoko
Subnet Mask:	255	0	0	0
Default Gateway:	0	0	0	0
Port:		(James)	8000	

- 4 Modify the IP address, subnet mask, and touch [OK]. (For example, First GP unit: [IP Address] 192.168.0.1; [Subnet Mask] 255.255.255.0) Set the IP address of the same network also to other GPs.
- **5** The confirm restart message appears. Touch [Yes] and the system restarts. After restarting, the [Initial Start Mode] screen is displayed.
 - Once a project has been transferred, the next time you transfer a project, the [Initial Start Mode] screen does not appear. To change the Ethernet settings, do so on the GP offline screen.
- 6 On the GP-Pro EX state tool bar, click the Transfer Project icon Transfer Project. The [Transfer Tool] dialog appears.

🔊 Transfer Tool				
File (F) Transfer (T)	Settings (S) Help	p (H)		
🧔 🔶 🔪	Send Project	Project Information	Þ	Select Project
	Receive Project	Project File Name [test.prx] (Display Unit Model : AGP-3500T) Comment		
i (Compare Project	D Date (2007/07/05 15:13)		
A	Display Unit Information	Designer [GP_User]		
🥶 🔶 🔒	CF Card Connection	Transfer operation password		•
	Memory Loader	Transfer Information	90	Transfer Settings
	Send Web site	Device [LAN] Transfer Project		
		[Automatic]		
		Transfer system [Automatic]		
				Close

7 Confirm the project details in [Project Information].

To transfer a different project, click the [Select Project] button and choose the appropriate project.

8 Click [Transfer Settings] to display the [Transfer Settings] dialog box. Ensure that [Communication Port Settings] is set to [LAN]. Select the [LAN Auto Setting] check box and click [OK].

🔊 Transfer Settings	×
Tarnsfer Settings Site Settings	
Communication Port Settings	Transfer Project
C USB	
⊙ LAN	CAL
C Modem	
С СОМ	
🔽 LAN Auto Setting	Transfer System
Port (Search) 8000 🚆	Automatic
T PASV	C Forced
☑ Transfer CF Files	
Transfer site data	
	OK Cancel

You can also open the dialog box on the [Project (F)] menu by pointing to [Transfer Project (G) and selecting [Transfer Settings (C)].

9 Click [Send Project]. The [Select Main Unit] dialog box displays the IP addresses of the GPs available on the network.

P Address	Port No.	PASV	Main Unit	Node	Auto/Manual
192.168.0.1	21	Do Not Use	AGP-3500T		Auto
192.168.0.2	21	Do Not Use	AGP-3500T		Auto
192.168.0.3	21	Do Not Use	AGP-3500T		Auto

NOTE

Detects the display units connected to the same subnet mask as the PC.
If the IP address is not automatically detected, click [Add] and manually enter the IP address. You can change the port number when WinGP is in use.



• If you cannot transfer because of firewall or router restrictions, selecting the [PASV] check box sometimes allows you continue with the transfer.

10 Select each IP address of the GP to which you want to transfer [OK]. The transfer begins. When multiple IP addresses are checked, the project is sent to multiple GPs at once.

P Address	Port No.	PASV	Main Unit	Node	Auto/Manual
192.168.0.1	21	Do Not Use	AGP-3500T		Auto
192.168.0.2	21	Do Not Use	AGP-3500T		Auto
☑ 192.168.0.3	21	Do Not Use	AGP-3500T		Auto

11 When the following dialog box appears, click [Yes]. This dialog box is not displayed when the same project file is sent again.

🔊 192.16	8.0.1	ana ana ang	×
?	Transferring all pro Is that OK?	jects will be exec	cuted.
	Yes	No	

The following dialog box appears during transfer to check the communication status. The following is an example of sending multiple projects.

During the transfer, the GP changes to Transferring mode and communication with the device/PLC is suspended.

iend Project			
Display Unit	Status	192.168.0.1	
92.168.0.1 92.168.0.2 92.168.0.3	Transfer complete. Transferring Waiting	Transfering ford couplete Starting to start all. Disconnecting from display unit. Transfer complete.	
		192.168.0.2	GP Screen
		192168.0.8	Data Transfer Data transfer is in progress. Please do NOT turn off the machine until complete.

NOTE

- If you select multiple IP addresses, the project is transferred to one GP, then the next, in sequence.
- If a project file is password protected, the transfer cannot start until the password is confirmed.

12 When the transfer finishes, the status changes from [Transferring] to [Transfer Complete]. Click [Close].

The GP is reset and the transferred project screen is displayed.

🔊 Send Project		
Display Unit 192.168.0.1 192.168.0.2 192.168.0.3	Status Transfer complete. Transfer complete. Transfer complete.	192.168.0.1 Transferring font complete. Starting to transfer all. Transferring project complete. Disconnecting from display unit. Completed disconnecting from display unit. Transfer complete.
		192.168.0.2 Transferring font complete. Statting to transfer all. Transferring project complete. Disconnecting from display unit. Completed disconnecting from display unit. Transfer complete.
		192:168.0.3 Transferring font complete. Statting to transfer all. Transferring project complete. Disconnecting from display unit. Completed disconnecting from display unit. Transfer complete.
		Close

13 Click [Close] to return to the Transfer Tool. Click [Close] again to close the Transfer Tool.

■ Transfer from GP to PC (Receive)

Receives project data currently stored on the GP to a PC. You must set an IP address on the GP prior to receiving data using Ethernet.

NOTE	• For more information about the Receive function, please refer to "33.10.4
	How Receive Works" (page 33-71).

- Please refer to the Settings Guide for details.
- Set an IP address in the "Ethernet Settings" on the offline screen.
- 1 Connect the LAN cable to the GP to establish the network with the PC installed with GP-Pro EX. (Designate the same network IP address on your PC.)
- 2 On the GP-Pro EX state tool bar, click the Transfer Project Transfer icon to launch the transfer tool. Make sure that [LAN] is selected for [Device] in [Transfer Settings].

🔊 Transfer Tool		. 0.0		
File (F) Transfer (T)) Settings (S) Helj	o (H)		1
🗌 🏟 🍑 🦳	Send Project	Project Information	D	Select Project
	Receive Project	Project File Name [test.prx] [Display Unit Model: AGP-3500T] Comment		-
i i i i i i i i i i i i i i i i i i i	Compare Project	[] Date [2007/07/05 15:13]		•
	Display Unit Information	Designer [GP_User]		
ڬ 🛟 🧐	CF Card Connection	Transfer operation password		•
A the seck	Memory Loader	Transfer Information	00	Transfer Settings
	Send Web site	Device [LAN]		
	'	Transfer Project [Automatic]		
		Transfer system [Automatic]		
				Close

3 Click [Receive Project]. The following dialog box appears. Specify the [Save in] location and [File name] for the data to be received, and click [Save].

Save As				? ×
Savejn: 🔂	Database	•	(🗢 🖻 (* 💷 *
J				
File <u>n</u> ame:				<u>S</u> ave
Save as type:	Project File(*.prx)		-	Cancel
				///

4 The [Select Main Unit] dialog box appears. Select each IP address of the target GP and click [OK]. The transfer begins.

🕤 Select Main Unit					
Add	Edit	Delete			Search end
IP Address	Port No.	PASV	Main Unit	Node	Auto/Manual
☑ 192.168.0.1	21	Do Not Use	AGP-3500T		Auto
l .					
				ОК	Cancel

NOTE

- Only GPs corresponding to the subnet masks of the PCs used for transfer are displayed.
 - If the IP address was not automatically acquired, click [Add] and manually enter the IP address.

🔊 Add IP Address	×
IP Address:	Port: 21
PASV	
OK	Cancel

• If you cannot transfer because of firewall or router restrictions, selecting the [PASV] check box sometimes allows you continue with the transfer.

The following dialog box appears during file reception to check the communication status.

isplay Unit 🚺 Status	Status 192.168.0.1	
22.168.0.1 Transferring	Status Transfering Status Status Connecting to display unit. Status Statu	

5 When the transfer finishes, the status changes from [Transferring] to [Transfer Complete]. Click [Close].



If you receive a project file that uses CSV Data Recipes or other CF Card data, the following dialog box appears. Click [OK] to finish the process.

Browse For Folder	? ×
🖃 🧰 GP-Pro EX	_
🛅 backup	
🕀 🛅 CML	
🗉 📄 CMLUSB	
🕀 🗀 Converter	
🗁 Database	
🗀 en	
E FONT	
🛅 Fonts	_
1	
Make New Folder OK Can	cel

6 Click [Close] to return to the Transfer Tool. Click [Close] again to close the Transfer Tool.

Transferring Projects Using the Factory Set IP Address

The default IP address of the GP is set at the factory. When transferring with this IP address, change the IP address used by the PC to which you are transferring data.

IMPORTANT	 Do not use the factory-set IP address when a private address "10.***.***" is used on the same network. A network communication
	error may occur.

NOTE	• Please refer to the Settings Guide for details.
·	"33.10 Setting Up Transfer Tool" (page 33-58)

1 Modify the PC's IP address subnet mask.

Set the IP address within the range of "10.255.255.1" to "10.255.255.254" and the subnet mask to "255.0.0.0".

NOTE

• You may have to restart the PC before the settings take effect.

- 2 Connect the LAN cable to the GP to establish the network with the PC installed with GP-Pro EX.
- **3** Turn ON the GP. The [Initial Start Mode] screen appears. To change the display language, touch the [Language] drop-down list.

Ethernet settings do not need to be set.

Initial	Start Mode		
	Language	ENGLISH	T
	Thank you for your p	ourchasing.	
	To initialize this (unit, please downloa	ad the
	Runtime system from	the editor.	
	Note:Touch the Ether	rnet Setup Switch	
	to change the IP add	dress.	
	Trigger Device		Ethernet Setup

4 On the GP-Pro EX state tool bar, click the Transfer Project icon Froied. The [Transfer Tool] dialog appears.

🔊 Transfer Tool				
File (F) Transfer (T)) Settings (S) Helj	p (H)		
Q + 	Send Project	Project Information	0	Select Project
Q +	Receive Project	[test.prx] (Display Unit Model : AGP-3500T)		
i i i i i i i i i i i i i i i i i i i	Compare Project	Date [2007/07/05 15:13]		
i	Display Unit Information	Designer [GP User]		
🥶 🔶 📄	CF Card Connection	Transfer operation password		•
	Memory Loader	Transfer Information	00	Transfer Settings
	Send Web site	Device [USB]		
		Transfer Project [Automatic]		
		Transfer system [Automatic]		
				Close

5 Click [Transfer Settings]. The following dialog box appears. Ensure that [Communication Port Settings] is set to [LAN]. Select the [LAN Auto Setting] check box and click [OK].

ransfer Project [©] Automatic <mark>□</mark> Retain retentive variables [°] All
ransfer Project ∮ Automatic I⊓ Retain retentive variables ↑ All
Automatic Retain retentive variables All
All
ransfer System
Automatic
C Forced
OK Cancel

You can also open the dialog box on the [Project (F)] menu by pointing to [Transfer Project (G)] and selecting [Transfer Settings (C)]. NOTE

6 Click [Send Project]. The [Select Main Unit] dialog box displays the IP addresses of the GPs available on the network. The transfer begins. When multiple IP addresses are checked, the project is sent to multiple GPs at once.

🔊 Select Main Unit					×
Add	Edit	Delete			Search end
IP Address	Port No.	PASV	Main Unit	Node	Auto/Manual
☑ 10.4.9.140	21	Do Not Use	AGP-3500T		Auto
1					
				ОК	Cancel

• If the GP's IP address and subnet mask have changed, data can not be retrieved.Ensure that you update these items in the PC settings.

The following dialog box appears during transfer to check the communication status. During the transfer, the GP changes to Transferring mode and communication with the device/PLC is suspended.

Send Project			
Display Unit 10.4.9.140 Transferring	10.4.9.140 Connecting to display unit. Starting password check. Password check complete. Starting to check Runtime version.		
			GP Screen
			Data Transfer Data transfer is in progress
			Please do NOT turn off the machine until complete.
		Abort	╎╴╏╴┫╍╍╍╼╼╼╼╼╼╼╼┛╴╎

7 When the transfer finishes, the status changes from [Transferring] to [Transfer Complete]. Click [Close].

The GP is reset and the transferred project screen is displayed.

🔊 Send Project		
Display Unit 10.4.3.140 Complete Transf	10. 4.9.140 Connecting Main Unit Password Check started. Password Check completed. Runtime-Version Check started. Runtime-Version Check completed. Check project file. Transferring firmware Firmware Transfer completed. Did not send the Runtime. Runtime transfer completed. Driver transfer started. Did not send the fort. Driver transfer started. Did not send the fort. Fort transfer completed. Automatic Transfer started. Transferring the project completed Disconnecting Main Unit Disconnecting Main Unit Complete Transfer Numation Unit Complete Transfer	
		Close //.

8 Click [Close] to return to the Transfer Tool. Click [Close] again to close the Transfer Tool.

Comparing Project Changes Prior to Transfer 33.4

33.4.1 Introduction

Compares projects currently open in GP-Pro EX (or selected projects) with those stored on the GP. This is useful for confirming which screens you updated before transferring the file.



The comparison displays the following information:

- Screen numbers are the same, and screen contents are different. The screen is updated on the GP.
- Screen(s) exist only on the PC ٠

The screen is added to the GP

Screen(s) exist only on the GP

NOTE

The screen is deleted from the GP

• You can only run a comparison for one GP at a time, even when connected on a LAN.

33.4.2 Comparison Procedure

Compares the project currently open in GP-Pro EX to that stored on the GP connected through LAN.

NOTE

• Please refer to the Settings Guide for details. *** "33.10 Setting Up Transfer Tool" (page 33-58)

1 On the GP-Pro EX state tool bar, click the Transfer Project icon Froiert. The [Transfer Tool] dialog appears.

🔊 Transfer Tool		
File (F) Transfer (T) Settings	s (S) Help (H)	
Send Pro	ject Project Information	🗁 Select Project
	Project File Name [test.prx] (Display Unit Model : AGP-3500T)	<u> </u>
Compare	Project Date [2007/07/05 15:13]	,
Display U Informatio	Init on Designer [GP User]	
CF Card Connection	on	
Memory L	Loader Transfer Information	👔 🕴 Transfer Settings
Send We	b site [US B]	
	Transfer Project [Automatic]	
	Transfer system [Automatic]	
		Close

2 Click [Transfer Settings] to display the [Transfer Settings] dialog box. Ensure that [Communication Port Settings] is set to [LAN]. Select the [LAN Auto Setting] check box and click [OK].

Transfer Settings	×
Tarnsfer Settings Site Settings	
Communication Port Settings	Transfer Project
C USB	 Automatic
• LAN	CAI
C Modem	
С СОМ	
🔽 LAN Auto Setting	Transfer System
Port (Search) 8000 📩	Automatic
PASV	C Forced
✓ Transfer CF Files	
✓ Transfer site data	
✓ Transfer site data	
	OK Cancel

3 Select each IP address of the GP to compare project data and click [OK].

🔊 Select Main Unit					
Add	Edit	Delete			Search end
IP Address	Port No.	PASV	Main Unit	Node	Auto/Manual
192.168.0.1	21	Do Not Use	AGP-3500T		Auto
				ОК	Cancel

4 The following [Comparison] dialog box appears and displays the results of the comparison between the PC and GP.

OJECC FILE(PC)	Project File(Main Unit)	Result
ise1	Base1	Same
ise2	Base2	Same
ise3	Base3	Difference

NOTE

- Select the [Show Only Differences] check box. The comparison results show screens that are different.
- The following messages appear when there are no differences in projects and when the projects are different.

Transfer Tool	Transfer Tool
Project is same.	Project is different.
ОК	<u> </u>

5 After confirming the results, click [Close].

33.5 Transferring Only Data to a CF Card

33.5.1 Introduction

Use the [CF Card Connection] feature on a PC to check data currently stored in the CF Card on the GP, copy data between the CF Card folder and the CF Card, to delete the data in a CF Card, or to change a file name.

Data copy

You can copy Recipe and image data from the CF Card folder to the CF Card without transferring the project.

You can also copy alarm and sample data stored in the CF Card to the PC.

For example, Copy created Recipe data (ZR00000.csv) to the CF Card



Delete CF Card data

You can delete data in the CF Card in the GP. For example, Delete CF Card Alarm data (Z100000.csv)



33.5.2 Transfer Process

Copy the recipe data (ZR00000.csv) in the CF Card Folder to the CF Card in GP.

1 On the GP-Pro EX state tool bar, click the Transfer Project icon **Transfer**. The [Transfer Tool] dialog appears.

🔊 Transfer Tool				
File (F) Transfer (T)) Settings (S) Hel	p (H)		
	Send Project	Project Information	Þ	Select Project
	Receive Project	Project File Name [test.prx] (Display Unit Model : AGP-3500T) Comment		<u> </u>
i i i i i i i i i i i i i i i i i i i	Compare Project	[] Date [2007/07/05 15:13]		
🔊 🔶 🧔	Display Unit Information	Designer [GP User]		
ڬ	CF Card Connection	Transfer operation password		▼
	Memory Loader	Transfer Information	00	Transfer Settings
	Send Web site	Device [US B]		
		Transfer Project [Automatic]		
		Transfer system [Automatic]		
				Close

2 Click [CF Card Connection]. The following dialog box appears. Select [Connect Offline] and click [OK].

During the transfer, the GP changes to Transferring mode and communication with the device/PLC is suspended.

Connect Offline	GP Screen
Connect Online Switch Main Unit to offline state. It is possible to read and write CF card.	Data Transfer Data transfer is in progress. Please do NOT turn off the machine until complete.
DK Cancel	;

You cannot copy, delete, or move CF Card data.

3 When the CF Card connection tool starts, select the FILE folder from the folder list on the left. The data in the folder is displayed on the right side.

📷 CF Card Connection - 10.187.225.117	
Edit View	
■ ● ■ ■ → # #	
Brokens #00000.CSV Brokens #00000.CSV	Area where PC data are displayed
ALARM CAPTURE DATA FILE LOG SRAM TREND	Area where CF Card data

4 Select the Recipe data (ZR00000.csv) from the data displayed on the right-hand side, then drag it to the lower CF Card area.

• You can also select the recipe data (ZR00000.csv), click 🔁 to copy, then click 🔂 in the CF Card area to paste.

5 Close the tool with **x**. Click [Close] again to close the Transfer Tool.

33.6 Transferring with Passwords

33.6.1 Introduction

You can protect the sending and receiving of projects by setting a password. Requiring a password prevents the transfer if passwords do not match. This feature is a security measure to allow only specific persons to transfer data.

	Please input the project send/receive password. Password
	OK Cancel
IMPORTANT	 Do not forget the password as you will not be able to transfer data without it. If an incorrect wrong password is entered three times, the transfer is canceled.
NOTE	 If a Password Input window remains on the screen for 5 minutes without any input, an alarm message appears. After another 5 minutes, a time-out occurs and the transfer is forcibly canceled. Passwords also apply when comparing projects and transferring data to and
	from the CF card.

33.6.2 Setup Procedure

Set a password.

IMPORTANT	 Do not forget the password as you will n 	ot be able to transfer data without it.
-----------	--	---

1 On the [Project (F)] menu of GP-Pro EX, point to [Information (I)] and select [Project Information (I)].

The [Project Information] dialog box appears.



2 Select [Passwords] from the item list on the left-hand side.

8	Project Informatio	on X
	File Information Display Unit Send Data SRAM Information Postination Passwords Logic Memory	Passwords Edit Enable
		Send/Receive Send/Receive Project File To open, send and receive you will need this password. Please keep the password safe.
1		OK (0) Cancel

3 Under [Send/Receive], click [Set Password]. The following dialog box appears.



- 4 Enter a password up to 24 single-byte characters. Confirm the password.
- 5 Click [OK].

33.6.3 Passwords Remove/Change

Removes a previously set password.

1 On the [Project (F)] menu of GP-Pro EX, point to [Information (I)] and select [Project Information (I)].

The [Project Information] dialog box appears.

ect (F)		
New (<u>N</u>)		
Open (<u>O</u>)	Ctrl+0	
Save (<u>5</u>)	Ctrl+S	
Save as (<u>A</u>)		
Information (<u>I</u>)	11 () () () () () () () () () (Project Information (<u>I</u>)
System Settings (⊆)		Destination Folder (\underline{C})
Edit (<u>E</u>)		Passwords (<u>P</u>)
Preview (<u>W</u>)		
Simulation (L)	Ctrl+T	
Transfer Project (<u>G</u>)	•	
Monitor (<u>M</u>)		
Utility (<u>T</u>)	•	
Print (<u>P</u>)	•	
Recent Project (<u>]</u>)	•	
Exit (X)		
	ect (F) New (M) Open (Q) Save (S) Save as (A) Information (I) System Settings (C) Edit (E) Preview (W) Simulation (L) Transfer Project (G) Monitor (M) Utility (T) Print (P) Recent Project (J) Exit (X)	ect (F) New (M) Open (Q) Ctrl+O Save (S) Ctrl+S Save as (A) Information (I) System Settings (C) Edit (E) Preview (W) Simulation (L) Ctrl+T Transfer Project (G) Monitor (M) Utility (I) Print (P) Exit (X)

2 Select [Passwords] from the item list on the left-hand side.

💰 Proje	ct Information		×
File Info Display Send D SRAM Postine Passwo	File Information Display Unit Send Data SRAM Information Doctination Passwords Logic Memory	Passwords Edit Enable	•
		Send/Receive Send/Receive Project File To open, send and receive you will need this password. Please keep the password safe.	
,		OK (0) Cancel	

3 Under [Send/Receive], click [Set Password]. The following dialog box appears.



- 4 Enter the currently set password.
- 5 Leave the [Password] and [Confirm] fields blank and click [OK]. The password is reset.

• To change the password, enter the new password in the second [Password] field, then enter the same password in the [Confirm] field and click [OK].
33.7 Transferring Project Files Using a CF Card or USB Storage

33.7.1 Introduction

Without connecting USB or Ethernet cables, you can transfer project files between the GP and your PC using an external memory such as a CF Card or USB storage device. You can also use the external memory to copy project files from one GP to another.

 Transfer from PC to GP On the GP, downloads and displays the project backup data stored on a CF Card or USB storage device.



Transfer from GP to PC

Uploads the backup data from the GP to a CF Card or USB storage device and loads the data to the PC as a project file. You can also download and display the backup data on a different GP.



 To backup (upload) the project on the GP or start (download) the project from the backup data on a CF Card, the special Memory Loader Tool must also be copied to the CF Card.
 To backup the project on a USB storage device, a different Memory Loader

To backup the project on a USB storage device, a different Memory Loader Tool specific for USB storage devices must be copied to the USB storage device.

 Once the data is saved in the CF Card folder, you cannot use the data in USB storage. Similarly, once the data is saved in the USB destination folder, you cannot use the data on a CF Card.

33.7.2 Transfer Process

NOTE

Please refer to the Settings Guide for details.
 Image: "■ [Memory Loader] Settings Guide" (page 33-67)

■ Transferring Project Files from PC to GP

Create project backup data on a CF Card and start the project from the CF Card (or USB memory) on the GP. When you create backup data on your PC, the "memory loader tool" is automatically saved on the CF Card (or on the USB storage). This tool is necessary for starting up projects on the GP.



The following shows the process for using a CF Card. To use USB Storage, replace "CF Card" with "USB storage" in the process.

1 On the GP-Pro EX state tool bar, click the Transfer Project icon Transfer Project icon Tool].

🔊 Transfer Tool			_ 🗆 ×
File (F) Transfer (T) Settings (S) He	elp (H)		
Send Project	Project Information	D	Select Project
Receive Project	Project File Name [test.prx] (Display Unit Model : AGP-3500T)		
Compare Project	Date [2007/07/05 15:13]		
Display Unit Information	Designer [GP User]		
CF Card Connection	Transfer operation password		▼
Memory Loader	Transfer Information	00	Transfer Settings
Send Web site	Device [US B]		
	Transfer Project [Automatic]		
	Transfer system [Automatic]		
			Close

- 2 In [Select project], select the project you wish to transfer.
- **3** Click [Memory Loader] to open the following dialog box. Click [Create Backup File].

🔊 Memory Loader	×
Create Backup File	Abort
Confirm Backup	
Encir I Create Project File	
Create Boot Data	
[]] [
	Close

4 Select [CF Card] and click [Browse].

Select Folder	×
	Browse
C USB	
	Browz

• When you have selected [CF Card], the folder selected in the [Select Folder] dialog box appears. [©] "5.7.2 Setup Procedure ■ Setting the Destination Folder" (page 5-53) 5 In the [Browse For Folder] dialog box, specify the CF Card folder for the destination and click [OK].



6 In the [Select Folder] dialog box, click [OK] to start creating data. While creating data, the following dialog box appears to show the creation status.

1emory Loader		
Create Backup File	Data creation started Copying the memory loader. Merging systems.	Abort
Confirm Backup File		
Create Project File		
Create Boot CF-Card		
		Close

7 When the message "Data Creation Ended" appears, click [Close].

🔊 Memory Loader	×
Create Backup File Confirm Backup File Confirm Backup File Create Project File Create Boot CF-Card	Abort Data creation started. Copying the memory loader. Merging systems. Merging screens. Merging SRAM. Data creation ended.
	Close

8 Copy or move all data created in the CF Card folder to the CF Card. The data, project backup data, and the CF Card Memory Loader Tool are all transferred to the CF Card.

9 Insert the created CF Card in the GP.

Touch the top right corner -> bottom left corner (or top left corner -> bottom right) on the GP screen in this order within 0.5 seconds and switch to offline mode.



NOTE

- To start the CF Card, you can either use the system menu or the DIP switches on the back of the GP. Turn the GP power OFF, turn ON DIP switch 1, and then turn the GP power back ON to launch the Memory Loader tool. You cannot use the DIP switches to start the CF Card when using USB Storage.
 - To transfer project data to the GP for the first time (for a newly purchased GP), the [Initial Transfer Mode] screen appears when you turn the power ON.

10 Touch [CF/USB]. Touch [CF startup] to reset GP.



11 The Memory Loader Tool launches. The following screen opens. Touch [Download].

Memory Loa	ader Tool	
Language English		
Upload (Main Unit->CF)	Download (CF-	->Main Unit)
Ver. 2.0.0	Menu	Exit

12 In [Select File], select a file you want to transfer and touch [Start]. If there is a password for transferring, input the password first, then touch [Start].

Download (CF->Display)
Warining: Data in the internal memory will be lost.
Path Name: MEM3X00.CML
Password:
Please input the password and press the Start switch.
Start
Select File Back

- MPORTANT Once you start downloading, all project data on the GP is deleted, including the data in the backup SRAM.
 - If you performed CF Start with the DIP switch, turn the Number 1 DIP switch back OFF.
- **13** Once downloading is complete, touch [Back] and then [Exit] to exit the Memory Loader Tool.

■ Transferring Project Files from GP to PC (or to Another GP)

Backup (upload) the project on the GP to a CF card or USB storage. The backup data (*.cml) can be converted into a project file (*.prx) and edited on a PC. You can also download and display the backup data on a different GP.



IMPORTANT

You need to format (initialize) the CF Card and USB storage device in FAT.
You can initialize the CF Card in GP. For initializing, see "2.7. Initialization of the memory/CF Card" in "Maintenance/Troubleshooting."7

Create a startup CF Card/USB

The Memory Loader Tool must be installed on the CF Card or the USB storage device when you want to either: upload a backup project from the GP to a CF Card or a USB storage device; or download a backup project from the CF Card or USB storage device.

- 1 To launch the [Transfer tool], click the Transfer Project icon on the GP-Pro EX status tool bar.
- 2 Click [Memory Loader]. The following dialog box appears.
- **3** Click [Create Boot Data]. The memory loader tool will be created in the CF Card/USB destination folder you specified.



4 Move or copy all the created data to the CF Card/USB storage. The CF Card/USB storage device is now ready.

♦ Transfer (GP → CF Card → PC)

The following shows the process for using a CF Card. To use USB Storage, replace "CF Card" with "USB storage" in the process.

1 Insert the CF card with boot data.

To display the system menu, within 0.5 seconds of each touch, touch the top-right then the bottom-left corner, or touch the top-left then bottom-right corner.



2 Touch [CF/USB]. Touch [CF startup] to reset GP.



3 The Memory Loader Tool launches. The following screen opens. Touch [Upload].



4 Touch [Start] to begin saving the GP project as backup data (*.cml). If there is a password for transferring, input the password first, then touch [Start].

Path Name:	/	
File Name:	MEM3X00. CML	
Password:		
Please input the	e password and press the Start switch.	
	Start	

- Backup data is saved as displayed in the [File Name] field. If you are using AGP-3500T, by default this is "MEM3X00.CML." If you want to use another file name, touch [New File]. To overwrite an existing file name in the CF Card, touch [Select File].
- 5 Once upload is complete, touch [Back] then [Exit] to close the Memory Loader Tool.
- 6 Remove the CF Card from the GP and insert it into the PC.

7 On the GP-Pro EX state tool bar, click the Transfer Project icon Transfer Project icon [Transfer Tool].



8 Click [Memory Loader]. The following dialog box appears. Click [Create Project].

T Memory Loader	×
Create Backup File	Abort
Confirm Backup	
Create Project File	
Create Boot Data	
	Close

9 In the following dialog box, select the CF Card in the [Look In] field. Select the backup file (*.cml) to convert to a project file (*.prx) and click [Open].

Open		? ×	
Look in: 🖃) Removable Disk (H:) 🗾 💽 🖻	I 📸 🎫 -	
🚞 prj001			
MEM3X00	ICML		
File <u>n</u> ame:	MEM3XD0	<u>Open</u>	
Files of type:	Backup file(*.cml)	Cancel	
Project File N	test pry	<u></u>	ר
FIDJECU FIJE N			Information of the project
Model			file you create from will
Device/PLC	Q/QnA Serial Communication		be displayed.
			L
		the second s	

10 Enter the name and the location of the project file you are going to create and click [Save].

Open		? ×
Look in: 🔄 Temp	orary	 -
🗯 sendfile		
File <u>n</u> ame: test		<u>O</u> pen
Files of type: Proj	ect file(*.prx.)	Cancel
Project File Name		1
Model]
Device/PLC		 -
	1	

11 Confirm the information in the [Project Create] dialog box, and then click [Create].

	Project Create	X
	Backup File Name	
	H:\MEM3X00.CML	Reference
	Project File Name	
	C:\Program Files\Pro-face\GP-Pro EX\Temporary\test.prx	Reference
	1	
	Create Cancel	
ΈÌ	• Click [Browse] to edit the settings of the bac	ckup file or th

12 The following dialog box appears.

When the message "Creating project files complete" appears, click [Close].

🔊 Memory Loader		×
Image: Create Backup File Image: Confirm Backup Image: Create Project Image: Create Boot Data	Started creating project files. Selecting a backup file Selecting a project file Creating project files complete.	Abort
1	Ľ	Close

33.8 Updating Remote Screen Data via Modem

33.8.1 Introduction

Using a modem to transfer screen data from the PC to a remote GP. You can also use a modem to transfer from the GP to a PC.



NOTE	 In this transfer, you can only transfer screen information of the project file. You cannot transfer all projects or the system. To connect the GP to a modem, use "CA6-USB232-01", a USB-Serial (RS-232C) conversion cable manufactured by Pro-face (sold separately). The following conversion cable can also be used:
	following conversion cable can also be used: Manufacturer: IO Data Device, Inc. Model: USB-RSAQ3

33.8.2 Transfer Process

Connect a modem to your PC and GP to transfer the screen data from your PC to GP.



1 On the GP-Pro EX state tool bar, click the System Settings icon System. When the [System Settings] window appears, click [Modem].

System Settings	4 ×
Display	
<u>Display</u>	
Display Unit	
Logic Programs	
Video/Movie	
Font	
Peripheral Settings	
Peripheral List	
Device/PLC	
Printer	
Input Equipment	
Script	
1/0 Driver	
FTP Server	
Modem	
Video Module/DVI Unit	
🕅 Sy 🇱 Ad 🔛 C 🔍 Se 🖡	🛿 Co 🔡 S

• If the [System Settings] tab is not displayed in the workspace, on the [View (V)] menu, point to [Workspace (W)], and then click [System Settings (S)].

2 Select the modem communication speed. The modem settings for GP-Pro EX are now complete.

	Modem	
	Speed (Modem-GP) 115200 Initialization Command	
NOTE	• For the proper modem settings, please read the manual of the	modem.

- **3** From the [Project (F)] menu, select [Transfer Project (G)] or click Transfer Project from the tool bar.
- 4 Click [Transfer Settings] and the following dialog box will appear. In the [Communication Port Settings] select [Modem].

1 - 1	
Communication Port Settings	Transfer Project
C USB	Automatic
C LAN	CAL
Modem	
C COM	
Number	
_	
Register Telephone Number	
Remove Telephone Number	
☑ Transfer CF Files	
🔽 Transfer site data	

- 5 Select the modem. You can confirm which modems are set up on the PC from the Device Manager dialog box in the Windows Control Panel. Enter the telephone number of the modem connected with the GP in the [Number] field.
- **6** If you don't need to transfer data in the CF Card Folder to the CF Card in GP, clear the [Transfer CF Files] check box and click [OK].

7 Click [Send Project].

⊚ī Transfer Tool File (E)Transfer (T) Settings (S) Helr) (H)		_ 🗆 X
	Send Project	Project Information	0	Select Project
Ç 🔶 🏹	Receive Project	[test.prx] (Display Unit Model : AGP-3500T) Comment		
i (Compare Project	[] Date [2007/07/16 11:24]		
i 🖓 🔶 🧊	Display Unit Information	Designer [GP_User]		
ڬ 😂 🥨	CF Card Connection	Transfer operation password		•
	Memory Loader	Transfer Information	00	Transfer Settings
	Send Web site	Device [Modem: XXXXXX] (Phone: 0123456789)		
				Close

The following dialog box appears during transfer to check the communication status. During the transfer, the GP changes to Transferring mode and communication with the device/PLC is suspended.

▶5 send Project Display Unit Modem Transferring	Modem Connecting Main Unit Dialing		
		Close	GP Screen Data Transfer Data transfer is in progress. Please do NOT turn off the machine until complete.

8 When the transfer finishes, the status changes from [Transferring] to [Transfer Complete]. Click [Close]. The GP is reset and the transferred screens are displayed.

Display Unit	Status	Modem	
Modem		Connecting to display unit. Statting password check. Password is not set up. Password check complete. Statting to check Runtime version. Runtime version check complete. Check project. Statting to transfer firmware complete. Statting to transfer firmware. Runtime not sent. Transferring Runtime complete. Statted transferring I/D driver. Did not send the I/D Driver. Transferring I/D driver. Statting to transfer driver. Statting to transfer fonts. Font not sent. Transferring forts. Font not sent. Transferring forts. Font not sent. Transferring forts. Font not sent. Transferring fort complete. Statting automatic transfer. Transferring fort display unit. Completed disconnecting from display unit. Transfer complete.	

9 Click [Close] to return to the Transfer Tool. Click [Close] again to close the Transfer Tool.

33.9 Checking Errors

33.9.1 Introduction

Before sending the project file, ensure no errors exist in the screen settings and the logic program. This helps you avoid having to correct errors after the transfer.



NOTE	• An automatic error check is performed when you transfer or save a project	ct
	file.	

33.9.2 Setup Procedure

NOTE

Please refer to the Settings Guide for details.
 "5.17.7 [Preferences] Settings Guide" (page 5-187)
 "5.17.4 [Utility] Settings Guide" (page 5-116)

1 From the [View (V)] menu, select [Preferences (O)]. The following dialog box appears. On the left, select [Error Check] then select the [Display Warnings] check box. Click [OK].

💰 Preferences		×
General Toolbar Error Check Surcen Edit Otyle Logic Common Ladder IL Script Text Table Monitor Step Commoi Ladder IL	Error Check Settings Display Display warnings Include Double Coil in warnings	

2 To start the error check, from the [Project (F)] menu point to [Utility (T)] and select [Error Check (E)], or click

Proj	ect (F)			
	New (<u>N</u>)			
	Open (<u>O</u>)	Ctrl+O		
	Save (<u>5</u>)	Ctrl+S		
	Save as (<u>A</u>)			
	Information (<u>I</u>)	Þ		
	System Settings (⊆)			
🥣	Edit (<u>E</u>)			
ч.	Preview (<u>W</u>)			
	Simulation (L)	Ctrl+T		
	Transfer Project (G)	•		
	Monitor (<u>M</u>)			
	Utility (<u>T</u>)	Þ		Convert Addresses (<u>A</u>)
A	Print (P)	Ctrl+P		Cross Reference (<u>R</u>)
R	Print Preview (V)			Copy from Another Project (C)
<u> </u>			₩.v	Error Check (<u>E</u>)
	Recent Project (<u>]</u>)	>	9	Convert Text Table (\underline{T})
	$E \times it(X)$			

During the error check, the following dialog box displays, which closes when the check is complete.



3 If there is an error or a warning, the following screen appears. [Check details in the [Summary] column.



NOTE

NOTE

• The Error Check window may be hidden. To display the window, while GP-Pro EX is in its initial state move your mouse to the bottom-left part of the application and click the [Error Check] tab.

4 Double-click on the selected line in the list to view the screen with the error.

	-		-	
	1.1.1			
Γ_				
			1	
r Chec				
HH I			 	
el Er	rror Numbi Screen-Location Summary 1629 Recently Instituted I Each screen is live	sited to 1 Mouio Player		
1116	No Error	inted to it movie i layer.		

• For errors in the logic program, see the following section.

5 Make corrections in the relevant areas and click 🔯 to recheck errors. Once all the errors are fixed, the window appears as follows.

	Error Check		x
	ѷ \$7 ≥ ₪		
ſ	Level Error Numb Screen	-Location Summary	
	Error	No Error	
l	Warning	No Warning	
I			
Ì			
1			
ł			
ł			

33.10 Setting Up Transfer Tool

The "Transfer Tool" transfers project data between a PC and the GP.

On the GP-Pro EX state tool bar, click the [Transfer Project] icon Transfer Project (F)] menu, point to [Transfer Project (G)] and select [Other Transfer (E)] to launch the transfer tool.

🔊 Transfer Tool			
File (F) Transfer (T) Settings (S)) Help (H)		
Send Project	Project Information	0	Select Project
Receive Proj	Project File Name [test.prx] (Display Unit Model : AGP-3500T)		-
Compare Pro	ject Date [2007/07/05 15:13]		,
Display Unit Information	Designer [GP User]		
CF Card Connection	Transfer operation password		•
Memory Load	der Transfer Information	ġġ	Transfer Settings
Send Web si	te [USB]		
	Transfer Project [Automatic]		
	Transfer system [Automatic]		
			Close

NOTE	• You can install the transfer tool without installing GP-Pro EX on your PC.
	This is useful when only transferring files on a PC other than the
	development PC (the PC used for screen creation).
	🐨 "33.10.5 Installing the Transfer Tool" (page 33-72)

Setting	Description
Send Project	Sends the project currently open in GP-Pro or the project selected in [Select project]) to the GP. If you have selected the CF Card folder for the project, the data in the CF Card folder is sent to the CF Card inserted in the GP. If you do not wish to send the data to the CF Card, clear the [Transfer data to CF Card] check box in [Transfer Settings]. ** "33.10.3 How Sending Data Works" (page 33-70) MPORTANT • When a send occurs, data stored in GP's backup SRAM is deleted.
Receive Project	Project data stored in a connected GP is received and saved to the PC in the designated location as a new project file (*.prx). For projects using the CF Card, all data on the CF Card in the GP are received and saved in the destination location. ** "33.10.4 How Receive Works" (page 33-71)

Setting	Description	
Compare Project	Compares the project currently open in GP-Pro EX or the project selected in [Select project] to the project stored on the connected GP and displays the results. For project set with the CF Card folder, the CF Card folder data and the data on the CF Card inserted in the GP are compared.	
	Reads and displays the system version, stored project information and screen information for the connected GP.	
Display Unit Information	System Version: Type and version of the display unit and version of the driverProject Information : Project file name, comment, date, creator Screen List: Screen number and type, comment, size, date	
CF Card Connection	 Tasks you can perform are different depending on the connection. Tasks you can perform are different depending on the connection. Connect Offline Connect Offline While the CF Card is connected, the GP changes to Transferring mode and communication with the device/PLC is suspended. You can copy files between the CF Card Folder and the CF Card, delete and change names of the files. Connect Online While the CF Card is connected, the GP continues to communicate with other devices/PLCs. You can check the CF Card information such as the file name, file size, and date. NOTE GP is automatically disconnected from the CF Card 10 minutes after the last action. 	
Memory Loader	Open the [Memory loader] dialog box. This allows you to create and acknowledge the backup data and create project files from backup data. ⁽³⁷⁾ " ■ [Memory Loader] Settings Guide" (page 33-67)	

Continued

Setting	Description	
Send Web Site	Opens the [Send Web Site] dialog box. [Transfer Setting] and [Site Data Write Settings] fields display the [Second Web Site] contents. [The field displays the contents selected in the [Transfer Settings] dialog box. Source C:\Program Files\Proface\GP-Pro EX 2.2 Alt Trensfer Settings Folder Update setting It discontinues it when there is a file. Citex [Transfer Settings] to display the [Transfer Settings] dialog box's [Send Web Site] tab. " = Site Transfer Settings" (page 33-64)	
Select Project	Select the project file (*.prx) you want to transfer to the GP.	
Project InformationInformation on the project currently open in GP-Pro EX (or the project InformationProject InformationSelected in [Select project]) is displayed.Use [Select Project] to view project information of other projects		
Transfer Settings	Open the [Transfer Settings] dialog box. This allows you to modify the ports or transfer method. ^(C) "33.10.1 [Transfer Settings] Settings Guide" (page 33-61)	
Transfer Information	Displays setting information about the GP's currently selected communication port and transfer method. Change the [Transfer Settings] to update this information.	

33.10.1 [Transfer Settings] Settings Guide

On the [Project (F)] menu in GP-Pro EX, point to [Transfer Project (G)] and select [Transfer Settings (C)] or click [Transfer Settings] with the transfer tool to display the following dialog box.

	Transfer	Settings
--	----------	----------

🔊 Transfer Settings 🛛 🔀		
Tamsfer Settings Site Settings		
Communication Port Settings C USB LAN Modem C CDM	Transfer Project	
	Transfer System C Automatic C Forced	
 ✓ Transfer CF Files ✓ Transfer site data 		
	OK Cancel	

Setting		Sotting	Description
Setting		bennig	Description
	USE	3	Select when using a USB transfer cable to transfer screens.
			Select when using Ethernet (LAN) to transfer screens.
S	LAN		• LAN
ting			O Modem
Sett			О СОМ
ort			IAN Auto Setting
ЧU			Port (Search) 8000 🚍
catio			PASV
muni		LAN Auto Setting	Select to automatically search all GPs on the network.
Cor		Port (Search)	When [LAN Auto Setting] is designated, set the port number used during search.
			Select if [LAN] is selected but data cannot be transferred due to network
		FAGV	security.

Setting		etting	Description
	Мос	lem	Select this option to use a modem to transfer projects.
ings		Phone Number	Enter the phone number for the modem.
Port Setti		Register Telephone Number	Registers telephone numbers. You can register up to 100 phone numbers.
nication		Delete Telephone Number	Delete registered phone numbers.
Com	СОМ		 COM Port COM1 ▼ Baud Rate 115200 ▼
		Port	Select the COM port to use from COM1 to COM9.
		Baud rate	Select the communication speed from 9600/19200/38400/57600/115200. Select the same speed as you selected in [Modem] in the system settings.
	Transferring CF Files		Specify whether to send the data in the CF Card folder to the CF Card in the GP. If you do not wish to replace the data on the CF Card, clear the check box.
	Trar Data	nsfer Site a	[Specify whether to send the standard HTML template in the folder set for [Data Transmission] in [Site Transfer Settings]. ** "37.15.1 Standard Template HTML Setting Guide" (page 37-73)
oject	Automatic		The project to be transferred is compared with the project on the GP. If they are the same project, only updated or added screen data are sent. When sending a new or different project, the whole project is sent after you click [OK] in the confirmation message.
sfer Pr	All		Sends the whole project to be transferred. Overwrites the existing project on the GP.
Tran	Retain retentive variables		 Transfer the project and retain current values of retentive values. MPORTANT If the check box is not selected, data in the variables will be initialized.

	Setting	Description
Transfer System	Automatic	 When you send the project, GP-Pro EX automatically compares between the project system version and the GP system version, and, if necessary, downloads the system program^{*1}, the protocol program^{*2}, and the font^{*3} to the GP. These items are downloaded in the following cases: When you perform a transfer when GP has no data (factory default) If the system program (Runtime) version stored on the GP is older than the GP-Pro EX version. When old versions of protocol programs (drivers) are stored in the GP, or when project device/PLC settings have been added or changed. When a font not in the GP was used in GP-Pro EX.
	Forced	After you format the GP and send a project, GP-Pro EX will forcibly download the system programs ^{*1} , protocol programs ^{*2} , and fonts ^{*3} to the GP. These are downloaded even if the GP-Pro EX system is a previous version of the current system on the display unit.

- *1 Data used to operate the project on the GP
- *2 Data needed to communicate with the device/PLC to be used.
- *3 Font data used by the project.

Site Transfer Settings

Transfer Settings X		
Tamsfer Settings Site Settings		
Source		
C:\Program Files\Pro-face\GP-Pro EX 2.2 Alpha\HTMLContent Browz		
Transfer		
C I transfer to the destination that I set with a project file.		
 I transfer to the destination that I set with a transfer tool. Transfer		
Folder WebSite		
Update setting		
Even if the file exists, it is a superscription.		
C It discontinues it when there is a file.		
C The same file is skipped when is.		
OK Cancel		

Setting	Description
Transfer Transmission	Specify the folder where the Web site data is stored. To select the source folder, click [Browse] and use the [Browse For Folders] dialog box to select the folder. Browse For Folder Please select transfer PC folder. Please select transfer PC folder. Desktop Desk
	Make New Folder OK Cancel
	Enable Project Setup
	Transfers data to the destination specified in the [Display Unit] page's
Transfer Settings	[Remote Viewer] tab, [Web Server] settings. The data is transferred if
	the [Enable Web Server] check box is selected.
	"37.15.2 System Settings [Display Unit] - [Remote Viewer] Settings Guide n Web Server" (page 37-81)
	Enable Transfer Tool Setup
	[Transfers data to the destination specified through [Destination] and [Folder].
	Continued

Setting	Description
Site Data Write Settings	 Overwrite files If the same file name exists, the existing file will be overwritten. Stop When File Exists If a file with the same file name, the transmission of the file is terminated when such a file is detected. Skip When Same File Exists If the same file name exists, the transmission of such a file is terminated and the next file is sent.

COM Transfer Connections

Connect the computer and GP using 2 cables.



A: Originally created cable Create the cable based on the diagram below.

DSUB9 (EIA-574)

Pin	Signal name		Pin	Signal name
5	SG		5	SG
3	TX		3	ТΧ
2	RX		2	RX
7	RTS		7	RTS
8	CTS		8	CTS
4	DTR		4	DTR
6	DSR	•	6	DSR
1	CD	┝━ ●─	1	CD
9	RI	├●	9	RI

B: RS232C-USB Conversion cable

(Cable commercially available, Type: EC-USBRSAQ3)

■ [Memory Loader] Settings Guide

X
Abort
Close

NOTE

To use [Memory Loader], first set up [Destination Folder].
 ^C → Destination" (page 5-108)

Setting	Description
	In the destination folder you selected in [Select Folder], create backup data
	(*.cml) for the project currently open in GP-Pro EX (or the project
	selected in [Select project]) and the memory loader to start the data on the CP. Save the data in the CP. Card folder onto the CP. Card and the data in
	the USB folder onto the USB storage device.
Create Backup File	Select Folder
	Browse
	C USB
	Browse
	OK Cancel
	NOTE
	• This selection is not available if you selected IPC series as the unit type.
	Continued

Setting	Description
	Lists the stored backup data: [System Information], [Project Information].
	[Backup Size], and the names and dates of each backup file.
	• About Paslaun File Name
	• About Backup File Name The backup file default name depends on the display model
	A CD 2600T 2510T 2500T 2500S 2500L 2400T 2400S
	AGF-50001, 55101, 55001, 55005, 5500L, 54001, 54005
	> MENISAUU.CML ACD 2750T 2650T 2560T 2550T 2450T
	AGF-57501, 50501, 55001, 55501, 54501
	> MEMISAJU.C.ML
	AGP-55001, 55005, 5500L, 55015, 5501L > MEM220X CMI
	> MENISJOA.CML
	AUF-5502D
	> MENISSUZ.CIVIL
	AGP-52001 > MEM2YOYZ CMI
Confirm Bookup	> MENISAUAZ.CML
Data	AGP-5200A
Data	> MENISZUAZ.CIVIL
	LI-5201A MEM22XXL CML
	> MENISZAAL.CML
	> MEM220XL CML
	- > MEMISJOAL.CML
	\times MEM220X7 CMI
	AST 2201S
	× MEM2Y0Y7 CMI
	> MENGAUAL.CML AST 3401T AST 3501C AST 3501T
	MEM3Y017 CMI
	ACD3300HS ACD3300HI
	> MFM3300H CMI
	> MEM3X00H CMI
> MEMI3X00H.CM	> WEWGAOOH.CME
Create Project File	You can create a project file (*.prx) from backup data (*.cmi).
	In the destination folder you selected in [Select Folder], create the memory
	loader tool necessary for upload from the GP to the CF Card/USB storage
Create Boot Data	device and for download from the CF Card/USB storage to the GP. Save
	the data in the CF Card folder onto the CF Card and the data saved in the
	USB folder onto the USB storage device.
	NOTE
	• This selection is not evoluble if you selected IPC series as the unit type
	• This selection is not available if you selected if C selles as the unit type.
	Select Folder
	• CF Card
	Browse
	CLISB
	Browes
	Diuwse
	OK Cancel

33.10.2 [Modem] Settings Guide

System Settings T × Display Display	Display Unit Series GP3000 Series Model AGP-3500S Orientation Landscape
Display Unit	Modem
Logic Programs	Port USB/SIO V
<u>Video/Movie</u>	Speed (Modem-GP)
Font	Initialization Command
Peripheral Settings	
Peripheral List	
Device/PLC	
Printer	
Input Equipment	
Script	
1/0 Driver	
ETP Server	
Modem	
Video Module/DVI Unit	

Setting	Description
Port	Select from [Disable] or [USB/SIO].
Speed (Modem-GP)	Set the communication speed between modem and GP.
Initialization Command	 Enter the Initialization Command of the modem. NOTE If you set blank for the Initialization Command, the command "ATE1Q0V1&C1&D2" will be automatically sent.
NOTE • F	For setting details, please refer to the instruction manual that come with your

GP-Pro EX Reference Manual

modem.

33.10.3 How Sending Data Works

Writes the project currently open (or the selected project) in GP-Pro EX to the GP. If a project is configured with a CF Card output folder (\DATA and \FILE), data is saved to the CF Card in the GP.



NOTE

- Only one project file (*.prx) can be saved on the GP.
- When sending a project, the necessary system programs, protocol programs, and fonts are downloaded to the GP. The transfer will take a few moments.
- If the file is already in the CF Card folder, the file is overwritten when transferred. If you do not wish to overwrite the file, clear the [Transfer CF Card data] check box in [Transfer Settings] for the transfer tool.

If the same project exists in the GP, only modified or added screens are transferred. When there is no project or a different project on the GP, the whole project is transferred.

When a different project is stored in the GP

For example, Transfer "Lesson.prx" to the GP where "Test.prx" is stored.



33.10.4 How Receive Works

Project data currently stored in the GP are saved to the destination location on the PC as a new project file (*.prx).

If the project uses the CF Card folder, data contained in the CF Card (\DATA and \FILE) is saved to the defined location.



33.10.5 Installing the Transfer Tool

If you want to transfer projects from a PC that does not have GP-Pro EX installed, you can install the Transfer Tool onto this PC.

Operating Systems that support Transfer Tool

- Windows[®] 2000 Professional (SP3 or higher)
- Windows[®] XP
- Windows[®] 98 (Second Edition or higher)
- Windows® Me
- Windows Vista[®] (Ultimate, Home Premium, Home Basic, Business)

• You cannot install GP-Pro EX onto a PC installed with the transfer tool. Uninstall the transfer tool to install GP-Pro EX.

Installing Transfer Tool

1 Insert the GP-Pro EX installation CD-ROM (Disk1) into the CD drive of the computer that is being used for the Transfer Tool. The following window engages

The following window appears.



2 [Click [Transfer Tool].

NOTE

• You cannot run the Transfer Tool installation on a computer with GP-Pro EX already installed.

- **3** Set the destination folder for the installation. The default location is \Program Files\Pro-face\GP-Pro EX *.** (*.**indicates the version).
- 4 Installation starts. When completed restart the PC.
■ Transfer Tool: From Triggering to Sending

1 On the PC start menu, select [Program (P)] then point to [Pro-face], [GP-Pro EX *.**], and then click [Transfer Tool]. (*.** indicates the version number)



2 Transfer Tool launches.

🔊 Transfer Tool		1. 6.0		
File (F) Transfer (T) Settings (S) Hei	lp (H)		
$\square \rightarrow \square$	Send Project	Project Information		Select Project
	1	A project is not selected.		<u> </u>
🧔 🔶 🥥	Receive Project			
*	Compare Project			
🔊 🔶 🧔	Display Unit Information			
ڬ	CF Card Connection	<u>र</u>		V V
	Memory Loader	Transfer Information	00	Transfer Settings
	Send Web site	Device [USB]		
	4	Transfer Project [Automatic]		
		Transfer system [Automatic]		
				Close

3 To retrieve a project from the GP, click [Receive Project]. To send a project or compare projects, select a project with [Select Project].

33.11 Restrictions

33.11.1 Transfer Restrictions

- When sending a project, data stored in GP's backup SRAM is deleted.
- When sending a project, the necessary system programs, protocols, and fonts are downloaded to the GP. The transfer will take a few moments.

Downloads occur in the following cases:

- When you perform transfer when GP has no data (factory default)
- If the system program (Runtime) version stored on the GP is older than the GP-Pro EX version.
- When old versions of protocol programs (drivers) are stored in the GP, or when project device/PLC settings have been added or changed.
- When a font not in the GP was used in GP-Pro EX.
- When a download occurs, the GP is reset.
- After restarting, the transferred screens appear.
- When the GP unit is offline, the project cannot be transferred. During the transfer, the GP changes to Transferring mode and communication with devices/PLCs is suspended.
- When a problem is found with the system program on the GP, an error message appears on the GP. Transfer the project file again.
- You cannot transfer the project file to a different model. To perform transfers even between same model GPs, except for GP3200 Series, one of the following conditions must apply.
 - Models that do not support the control feature.
 - Models equipped with DIO board
 - Models with FLEX NETWORK connections
- Project files created on AGP3300 Series Rev.4 or later models cannot be transferred to AGP3300 Series Rev.3 or earlier models.

Transfer will fail, or the transfer screen will appear again upon restarting the GP even after file transfer is complete.

33.11.2 Restrictions for Transfer Using Ethernet

- You can transfer data between the GP and a PC on a different network by using a router. However, there are cases where the PC cannot automatically search the GP on a different network.
- For a PC that is using two or more Ethernet cards, the desired GP may not be detected even if the PC automatically detects IP addresses. This occurs when the PC searches the GPs connected to the Ethernet card that was previously found. Click [Add] on the [Select Display Unit] dialog box and manually set the IP address of the GP.
- When using the Transfer Tool on a PC running Windows XP SP2 with Windows Firewall enabled, you are prompted to allow the transfer. If you transfer data to more than one GP at the same time, either select [PASV] in the [Transfer Settings]>[Communication Port Settings] or disable Windows Firewall.

33.11.3 Restrictions on Transfer Using a COM Port

- Create the special cable before using the port. ^(C) "33.10.1 [Transfer Settings] Settings Guide ■ COM Transfer Connections" (page 33-66)
- You can only transfer project files to a GP on which the system program (Runtime) created in GP-Pro EX 1.10 is downloaded.
- COM port transfer is not available when using WinGP.

33.11.4 Restrictions on CF Card Connection

- When the GP is offline, the CF Card connection feature cannot be used.
- There is a limit to the frequency that data can be rewritten to the CF Card. 500 KB of data can be rewritten around 100,000 times. Backup to another media.
 "A.5 Transferring Data Between a CF Card and a USB Memory Device" (page A-82)
- If there is no action taken for five minutes after you start [CF Card connection], a warning message appears. If you do not take any action for another five minutes, the GP is disconnected.

33.11.5 Restrictions on Modem Transfer

- If GP does not already have a project in it, you cannot transfer via a modem.
- You cannot transfer a new project via a modem. You can only use a modem to update the screen data of the project already on the GP.
- You cannot transfer the project file under the following conditions:
 - When system settings have changed
 - For project files created on a different version of GP-Pro EX (Note that you can transfer files as long as the run-time system, protocol driver, and I/O driver versions are the same.
- The modem connecting to the GP must meet the following requirements.
 - Support AT commands
 - Allow automatic answering
 - Support hardware flow control
 - Modem that can return text with the result command
 - A modem can be used only after connecting to a specific operation center.
- Since the GP receiving modem is analog, you cannot use ISDN TA modem.
- The modem connected to your PC must support AT commands. Use a Windows-compatible modem that can establish telephone communication with the modem connected with GP. A modem can be used only after connecting to a specific operation center.
- For supported modem models, refer to Pro-face's support site "Otasuke Pro!" (http:// www.pro-face.com/otasuke/). Supported models may change due to GP upgrades.
- Modem transfer is not available when using WinGP.

33.11.6 Restrictions on Memory Loader

- The CF Card memory size must be at least 64 MB.
- There is a limit to the frequency that data can be rewritten to the CF Card. 500 KB of data can be rewritten around 100,000 times. Backup to another media.
- CF Cards and USB storage devices require different "memory loader tools" for startup. Create the respective tools.
- Even if multiple USB storage devices are connected to the GP, you can only use the USB storage that is first recognized.
- When using the memory loader to download the GP-Pro EX project to a GP set up with a Pro-Server EX project file (*.npx), be aware that the *.npx file will be deleted. Using the CF card or USB storage device, follow these steps to move .prx and .npx project files to another GP.
 - 1. Transfer the GP-Pro EX project file (.prx) from the PC to the GP.
 - 2. Transfer the Pro-Server EX project file (.npx) from the PC to the GP.
 - 3. Start the memory loader tool on the GP to begin upload operations. The GP-Pro EX (.prx) and Pro-Server EX (.npx) project files on the GP are saved to the CF card or USB storage device.
 - ⁽ Transferring Project Files from GP to PC (or to Another GP)" (page 33-44)
 - 4. From the GP, remove the CF card or USB storage device and load it into a different GP to download the project files.
- Memory Loader Tool's Backup data (*.cml) created for AGP3300 Series Rev.4 or later models cannot be downloaded to AGP3300 Series Rev.3 or earlier models. Download will fail with an error, or the transfer screen will appear upon restart after downloading.

■ CF Card Cautions for Use

- When ejecting a CF Card, make sure that the CF Card access LED lamp turns OFF. Otherwise, the data on the CF Card may be damaged.
- When accessing a CF Card, be sure not to power OFF or reset the GP, or eject the CF Card. Create an application screen on which the CF Card cannot be accessed, and on that application screen, you may power OFF or reset the GP, open and close the CF Card cover, and eject the CF Card.
- When inserting a CF Card, check the front and back sides and the connector position of the card. If the CF Card is inserted the wrong way, the data, the CF Card, or the GP may be damaged.
- Use a CF Card manufactured by Digital Electronics Corporation. If a CF Card manufactured by another company is used, the contents of the CF Card may be damaged.
- Please make sure to back up all CF Card data.
- Please refrain from doing the following, as it can result in damage to data and equipment:
 - •Bending the CF Card
 - •Dropping the CF Card
 - •Spilling water on the card
 - •Touching the CF Card's connectors directly
 - •Disassembling or modifying the CF Card

USB Storage Cautions for Use

- While accessing the USB device, do not reset the display unit or remove the USB storage device. Data on the storage device may be corrupted.
 To remove the USB storage device safely, design the system to remove the device only after turning ON system variable #H_Control_USBDetachTrigger and after confirming #H_Status_USBUsing is OFF.
 "A.6.2 HMI system variables (#H system variables) n Bit type" (page A-107)
- Please make sure to back up all data on USB storage devices.