

# PC Transfer Tool Operation Manual

# PREFACE

Thank you for purchasing “PC Transfer Tool”.

PC Transfer Tool allows you to perform maintenance operations easily, (uploading to or downloading from GP), even when the Screen creation software “GP-PRO/PB III for Windows” is not installed to the PC on the production site.

To ensure the safe and correct use of this product, be sure to read all related materials carefully and keep them nearby so that you can refer to them whenever required.

## NOTICE

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# TRADEMARK RIGHTS

The company names and product names used in this manual are the trade names, trademarks (including registered trademarks), and service marks of their respective companies. This product omits individual descriptions of each of these rights.

<b>Trademark / Tradename</b>	<b>Right Holder</b>
Windows 98, Windows Me, Windows NT, Windows 2000, Windows XP, Windows Explorer	Microsoft, U.S.
Intel, Pentium	Intel, U.S.
Pro-face	Digital Electronics Corporation (in Japan and other countries)
Ethernet	Western Digital, U.S.
IBM compatible	IBM, U.S.
Adobe, Acrobat	Adobe Systems Incorporated

The following terms differ from the abovementioned trade names and trademarks.

<b>Term used in this manual</b>	<b>Formal Tradename or Trademark</b>
Windows 98	Microsoft® Windows® 98 Operating System
Windows Me	Microsoft® Windows® Me Operating System
Windows NT	Microsoft® Windows NT® Operating System
Windows 2000	Microsoft® Windows® 2000 Operating System
Windows XP	Microsoft® Windows® XP Operating System

# OPERATING ENVIRONMENT

## ■ Compliant Operating Systems

Item	Description
Compliant OS	Windows 98, Windows Me, Windows NT, Windows 2000, Windows XP
Software version	C-Package03 SP1 and later
Connection method	Transfer cable (GPW-CB02) USB transfer cable (GPW-CB03) Ethernet connection

## ■ List of Compatible Models

### ◆ GP Series

Series		Product Name	Model	GP Type	
GP70 series	GP-H70 series	GP-H70L	GP70-LG11-24V GP70-LG41-24VP	GP70L	
		GP-H70S	GP70-SC11-24V GP70-SC41-24VP	GP70S	
	GP-270 series	GP-270L	GP270-LG11-24V	GP270-LG21-24VP GP270-LG31-24V	GP270L
			GP270-LG21-24VP		
			GP270-LG31-24V		
	GP-270S	GP270-SC11-24V	GP270-SC21-24VP GP270-SC31-24V	GP270S	
		GP270-SC21-24VP			
		GP270-SC31-24V			
	GP-370 series	GP-370L	GP370-LG11-24V	GP370-LG21-24VP GP370-LG31-24V GP370-LG41-24VP	GP370L
			GP370-LG21-24VP		
			GP370-LG31-24V		
		GP-370S	GP370-SC11-24V	GP370-SC21-24VP GP370-SC31-24V GP370-SC41-24VP	GP-370S
	GP370-SC21-24VP				
	GP370-SC31-24V				
	GP-470 series	GP-470E	GP470-EG11	GP470-EG21-24VP GP470-EG31-24V	GP470
			GP470-EG21-24VP		
	GP-570 series	GP-570L	GP570-LG11-24V	GP570-LG21-24V	GP570L
			GP570-LG21-24V		
		GP-570T	GP570-TC11	GP570-TC21-24VP GP570-TC31-24V	GP570
			GP570-TC21-24VP		
GP-570VM	GP570-TV11	GP570VM			
GP-571 series	GP-571T	GP571-TC11	GP571T		
GP-675 series	GP-675T	GP675-TC11 GP675-TC41-24VP			
GP-870 series	GP-870VM	GP870-PV11	GP870VM		
GP-37W2 series	GP-37W2B	GP37W2-BG41-24V	GP37W2		
GP-377 series	GP-377L	GP377-LG11-24V	GP377-LG41-24V	GP377L	
		GP377-LG21-24V			
GP-377S	GP377-SC11-24V	GP377-SC41-24V	GP377S		
	GP377-SC21-24V				
GP77R series	GP-377R series	GP377RT	GP377R-TC11-24V GP377R-TC41-24V	GP377R	
		GP-477R series	GP477RE		GP477R-EG11 GP477R-EG41-24VP
	GP-577R series	GP577RT	GP577R-TC11 GP577R-TC41-24VP	GP577R	

Series		Product Name	Model	GP Type	
GP2000 series	GP2000H series	GP-2301H series	GP-2301HL	GP2301H-LG41-24V	GP2301HL
			GP-2301HS	GP2301H-SC41-24V	GP2301HS
		GP-2401H series	GP-2401HT	GP2401H-TC41-24V	GP2401H
	GP-2300 series	GP-2300L	GP2300-LG41-24V	GP2300L	
		GP-2300S	GP2300-SC41-24V	GP2300S	
		GP-2300T	GP2300-TC41-24V	GP2300	
	GP-2301 series	GP-2301L	GP2301-LG41-24V	GP2301L	
		GP-2301S	GP2301-SC41-24V	GP2301S	
		GP-2301T	GP2301-TC41-24V	GP2301	
	GP-2400 series	GP-2400T	GP2400-TC41-24V	GP2400	
	GP-2401 series	GP-2401T	GP2401-TC41-24V	GP2401	
	GP-2500 series	GP-2500L	GP2500-LG41-24V	GP2500L	
		GP-2500S	GP2500-SC41-24V	GP2500S	
		GP-2500T	GP2500-TC11 GP2500-TC41-24V	GP2500	
	GP-2501 series	GP-2501L	GP2501-LG41-24V	GP2501L	
		GP-2501S	GP2501-SC11	GP2501S	
		GP-2501T	GP2501-TC11	GP2501	
	GP-2600 series	GP-2600T	GP2600-TC11 GP2600-TC41-24V	GP2600	
	GP-2601 series	GP-2601T	GP2601-TC11	GP2601	

◆ GLC Series

Series		Product Name	Model	GP Type
GLC100 series	GLC100 series	GLC100L	GLC100-LG41-24V	GLC100L
		GLC100S	GLC100-SC41-24V	GLC100S
GLC300 series	GLC300 series	GLC300T	GLC300-TC41-24V	GLC300T
GLC2000 series	GLC2300 series	GLC2300L	GLC2300-LG41-24V	GLC2300L
		GLC2300T	GLC2300-TC41-24V	GLC2300
	GLC2400 series	GLC2400T	GLC2400-TC41-24V	GLC2400 <sup>1</sup>
		GLC2500 series	GLC2500T	GLC2500-TC41-24V GLC2500-TC41-200V
	GLC2600 series		GLC2600T	GLC2600-TC41-24V GLC2500-TC41-200V



**Data backup operation cannot be performed from a GP to which the data has been transferred using the GP-PRO III or GP-PRO/PB III (MS-DOS version).**

◆ **LT Series**

Series		Type	Model	GP Type	
LT series	LT Type A series	LT Type A1	GLC 150-BG41-XY32SK-24V	LT TypeA	
		LTC Type A1	GLC 150-SC 41-XY32SK-24V	LTC TypeA	
		LT Type A2	GLC 150-BG41-XY32SC-24V	LT TypeA	
	LT Type B/B+ series	LT Type B	GLC 150-BG41-FLEX-24V	LT TypeB/B+	
		LT Type B+	GLC 150-BG41-XY32KF-24V		
		LTC Type B+	GLC 150-SC 41-XY32KF-24V	LTC TypeB+	
	LT Type C series	LT Type C	GLC 150-BG41-RSFL-24V	LT TypeC	
	LT Type H series	LT Type H1		GLC 150-BG41-ADK-24V	LT TypeH
				GLC 150-BG41-ADPK-24V	
				GLC 150-BG41-ADTK-24V	
		LTC Type H1		GLC 150-SC41-ADK-24V	LTC TypeH
				GLC 150-SC41-ADPK-24V	
				GLC 150-SC41-ADTK-24V	
		LT Type H2		GLC 150-BG41-ADC-24V	LT TypeH
				GLC 150-BG41-ADPC-24V	
			GLC 150-BG41-ADTC-24V		

◆ **ST Series**

Series	Product name	Model	GP Type
ST series	ST 400	ST 400-AG41-24V	ST 400
	ST 401	ST 401-AG41-24V	ST 401
	ST 402	ST 402-AG41-24V	ST 402
	ST 403	ST 403-AG41-24V	ST 403

◆ **Factory Gateway**

Product name	Model	GP Type
FactoryGateway	FGW-SE41-24V	FactoryGateway FGW-SE






# MANUAL SYMBOLS AND TERMINOLOGY

This manual uses the following symbols and terminology.

If you have any questions about the contents of this manual, please contact your local Pro-face sales distributor. If you have any question about your personal computer or the Windows® software, please contact your local distributor or manufacturer.

## ■ Safety Symbols and Terms

This manual uses the following symbols and terms for important information related to the correct and safe operation of this product.

Symbol	Description
	Incorrect operation resulting from negligence of this instruction may cause death or serious injury.
	Incorrect operation resulting from negligence of this instruction may cause personal injury or damage to equipment.
	Failure to observe this instruction may cause abnormal operation of equipment or data loss.
	Instructions / procedures that must be performed to ensure correct product use.
	Actions / procedures that should NOT be performed.



# *Memo*

# 1 Overview of the PC Transfer Tool

## 1.1 PC Transfer Tool

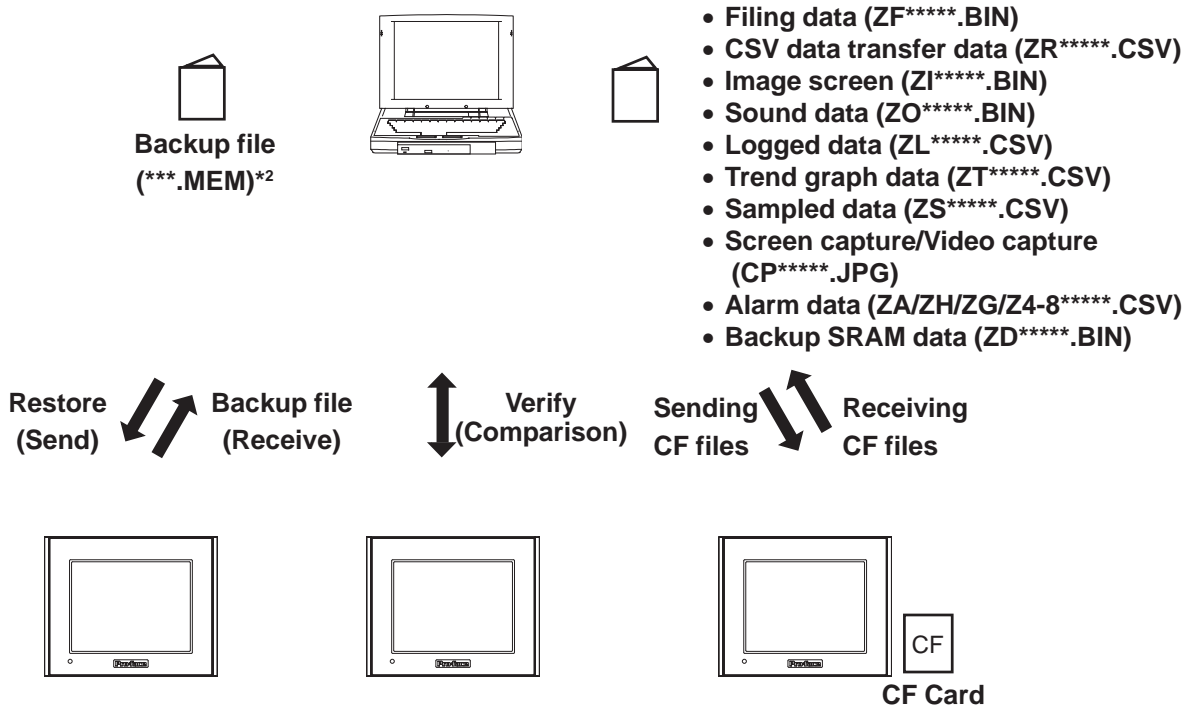
As illustrated below, PC Transfer Tool is a software program that allows you to download data easily to GP or upload data from GP even when the GP Screen creation software “GP-PRO/PB III for Windows C-Package” is not installed to the PC.

The files are downloaded or uploaded in backup file format (\*\*\*.MEM) \*1. This eliminates the risk of being edited in the process of transferring the files to the GP on the production site in maintenance operations.

Make sure that the Transfer cable (GPW-CB02) and USB transfer cable (GPW-CB03) are connected and that Ethernet connection is established when operating PC Transfer Tool.

**Notebook PC that is portable to the production site:**

**With PC Transfer Tool installed**



\*1 Backup files refer to all of the data items in the GP (system data, communication protocol, extended programs, and screen data).

\*2 A backup file (\*\*\*.MEM) can be converted to a project file (\*\*\*.prw) on a PC to which C-Package03 SP1 or later version is installed.

# *Memo*

## 2 Operation of the PC Transfer Tool

### 2.1 Start-up and Initial Setting of the PC Transfer Tool

#### 2.1.1 Installing the PC Transfer Tool

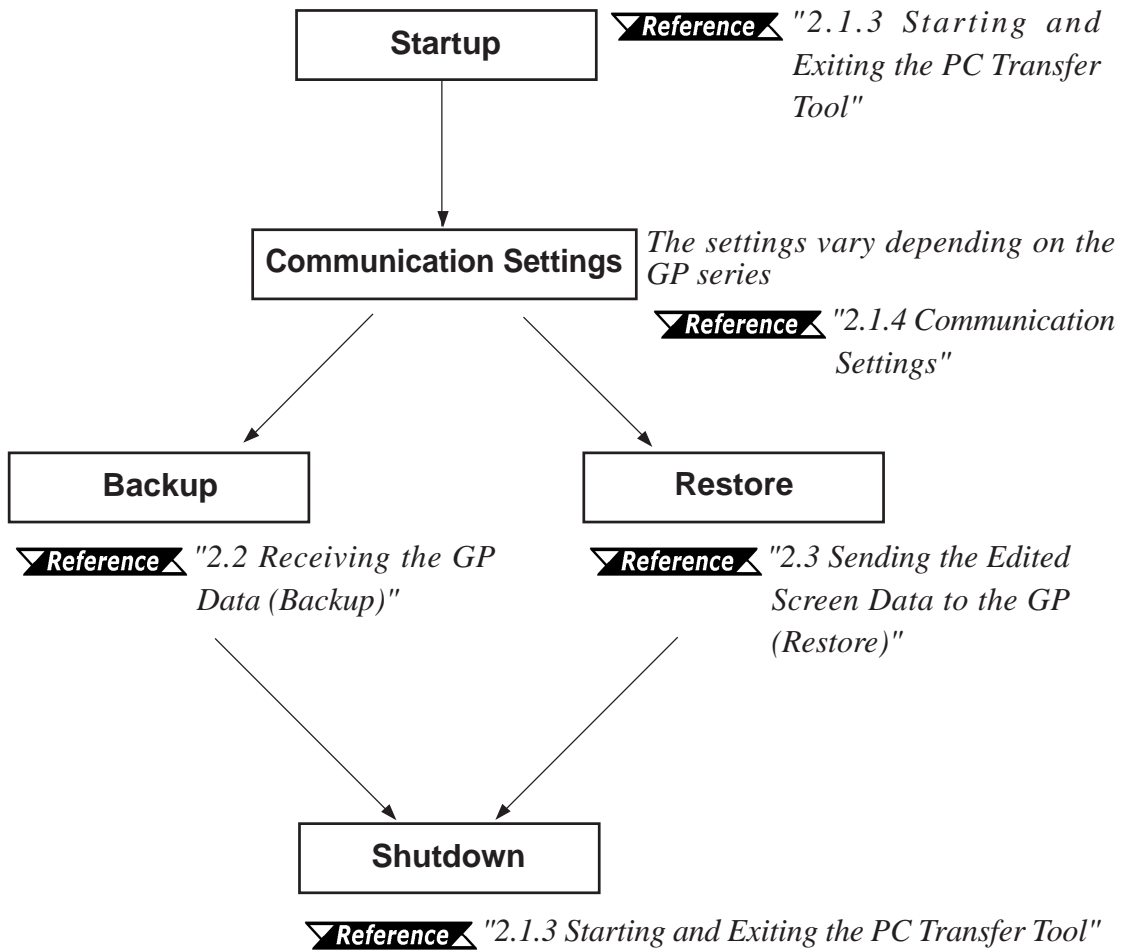
##### ■ Pre-installation Check

Before starting the installation, make sure to exit all programs including anti-virus software.

##### ■ Installation Procedure

1. Start the [**GPmntset.exe**] program file in which the installer is stored.
2. When the installer starts up, follow the instructions on the screen to complete the installation procedure.

**2.1.2** Operational Procedure

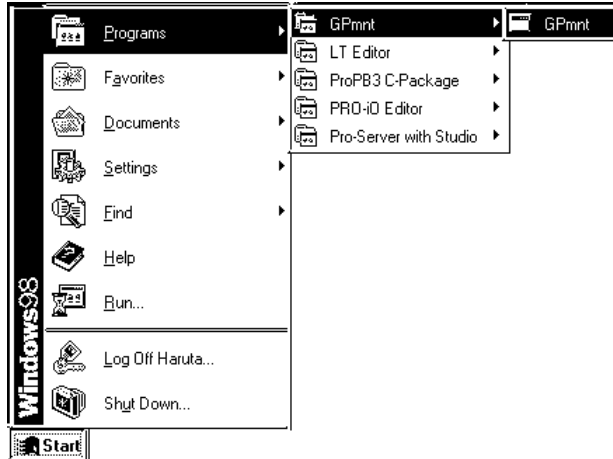


\* To verify (compare) the data in the backup file with the source data in the GP:  
**Reference** "2.4 Comparing the Data with the GP Data (Verify)"

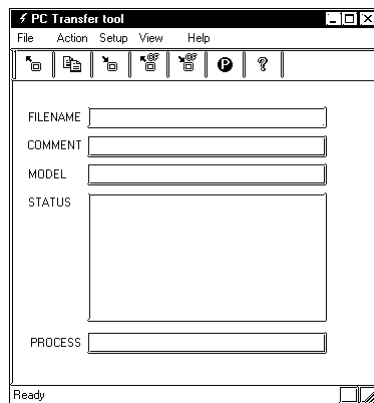
**2.1.3 Starting and Exiting the PC Transfer Tool**

**■ Starting the PC Transfer Tool**

1. Select Programs from the Start menu, and then click on [Gpmnt].

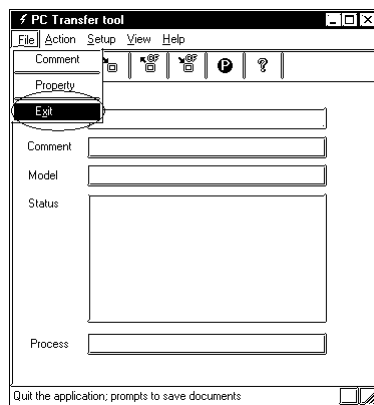


2. The PC Transfer Tool starts up.



**■ Exiting the PC Transfer Tool**

1. Click the [File/Exit] commands.



2. The system exits the PC Transfer Tool.

**2.1.4 Communication Settings**

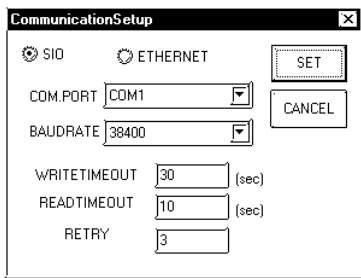
Configure the communication settings for sending or receiving backup files. The communication settings can be configured by selecting the [Settings/Communication Setup] commands.



*The maximum data transmission speed (baud rate) that can be set varies depending on the GP series. The following settings are recommended.*

GP series	Baud rate
GP70 series	38400 bps
GLC100 series	
GP77R series	115200 bps
GP2000 series	
GLC2000 series	
LT series	
ST series	
Factory Gateway	

■ **SIO Settings**



**COM.PORT**

Specify the serial port to which the transfer cable will be connected.

**BAUDRATE**

Specify the communication speed.

**WRITETIMEOUT**

Specify the duration (sec) in the write operation after which a communication error is detected.

**READTIMEOUT**

Specify the duration (sec) in the read operation after which a communication error is detected.

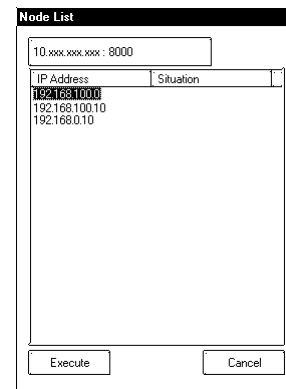
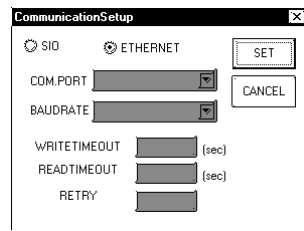
**RETRY**

Specify the number of times to retry sending the data when the transfer fails.

■ **Ethernet Settings**

When performing Ethernet communications, select [**Ethernet**] on the dialog box below, and then click the [**Set**] button.

To execute file transmissions, select the target GP from the GP units connected to the network (select from the “Node List” dialog box), and perform the file transmission.

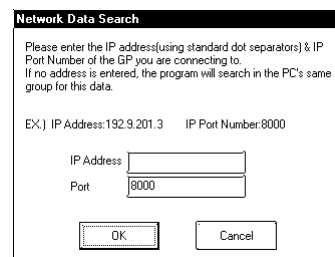
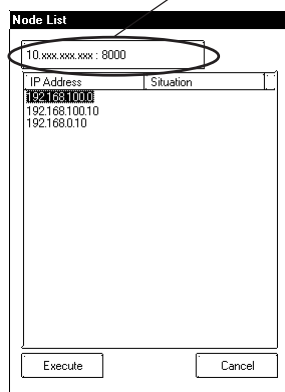


**Note:** When “ETHERNET” is selected from the Communication Setup dialog box, COM.PORT and BAUDRATE options are grayed out. Configuring these options is not required.

Clicking the Network data search button on the Node List dialog box will display the [Network Data Search] dialog box.

The GP on the Ethernet can be searched using the IP address. The search result is displayed in the [Node List/Send Screen] dialog box. The second and following search is to be performed using the same search criteria as the previous search.

### The Network data search button



- Refer to the example (EX) and enter a numerical value to the IP Address field. When data other than a numerical value (e.g. character) is entered, the data starting from the entry to the end of the IP Address is recognized as “0”.
- In an environment where two or more LAN cards are used, the search for the desired GP may fail. This is because the OS searches for GP units that are connected to the LAN card that the OS has found first. In this case, enter the IP address of the desired GP unit directly.
- The Port is set to “8000” at default. Change the setting according to your system configuration.



## 2.2 Receiving the GP Data (Backup)

This section describes the procedure for saving a project in the GP as a backup file (\*\*\*.MEM), such as system data, communication protocol, extended programs, screen data, and backup SRAM data. If you want to edit the backup file later using the C-Package, make the backup file by following the data saving procedure described in "2.2.1 Saving a Backup File (Reusable)".



- When saving a backup file that will be edited again:
  - ▶ **Reference** ▶ "2.2.1 Saving a Backup File (Reusable)"
- When saving a backup file that will not be edited again:
  - ▶ **Reference** ▶ "2.2.2 Saving a Backup File (Non-reusable)"



- **Data backup operation cannot be performed from a GP to which the data has been transferred using the GP-PRO III or GP-PRO/PB III (MS-DOS version).**
- **Upload information needs to be transferred to the GP before editing backup files.**

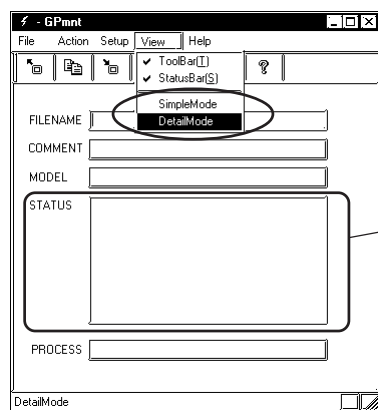
### 2.2.1 Saving a Backup File (Reusable)

This section describes the procedure for saving a backup file in a format that enables editing in the future.

By automatically generating the filename, the created backup file (\*\*\*.MEM) is converted to a project file (\*\*\*.prw) by the C-Package, allowing the user to edit the file.

#### ■ Saving the File

1. Select [Simple Mode] or [Detail Mode] from the [View] menu.

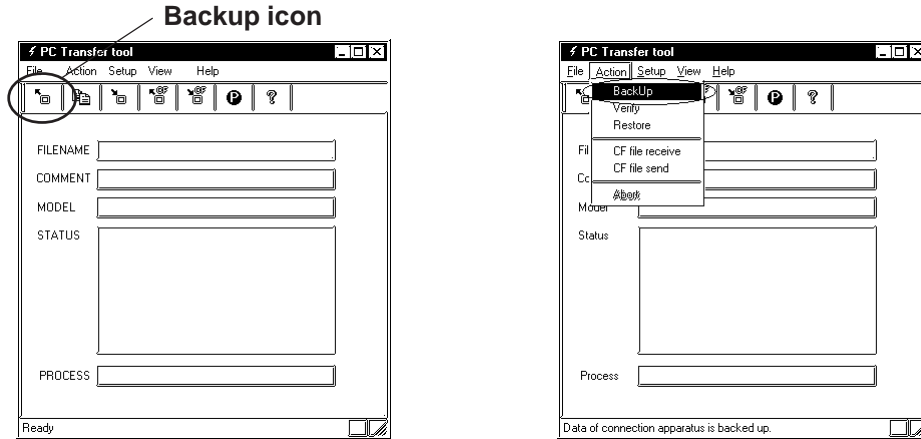


**Status window**  
(Displays the process and result of the backup operation.)

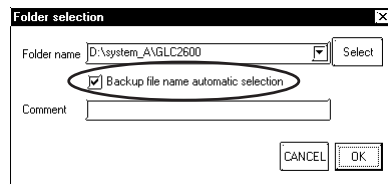


To monitor the status of transmission, select the "Detail Mode".

- Click the Backup icon or the [Action/BackUp] commands.



- Enter the name of the folder to which the backup file will be saved, and select the [Backup file name automatic selection] checkbox.



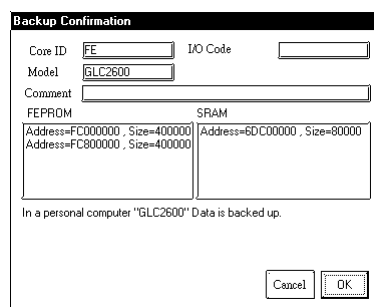
**Since the filename and extension are generated automatically, enter only the folder name to which you want to save the file.**

- Click the [OK] button to start the backup processing.



**When password-protection has been set up, a dialog box appears that prompts you to enter the transfer password.**

- The information for the connected device is displayed. Click the [OK] button to start the backup operation.



- The backup file is saved in “BK\*\*\*.MEM” format in the folder that is specified in step 3.



**Only a MEM file whose filename conforms to the format of “BK\*\*\*.MEM” (where “\*\*\*” indicates the identification code of your GP) can be specified as the source data for the conversion.**

**For the identification code: “Appendix 1: Identification (Core ID) Code”.**

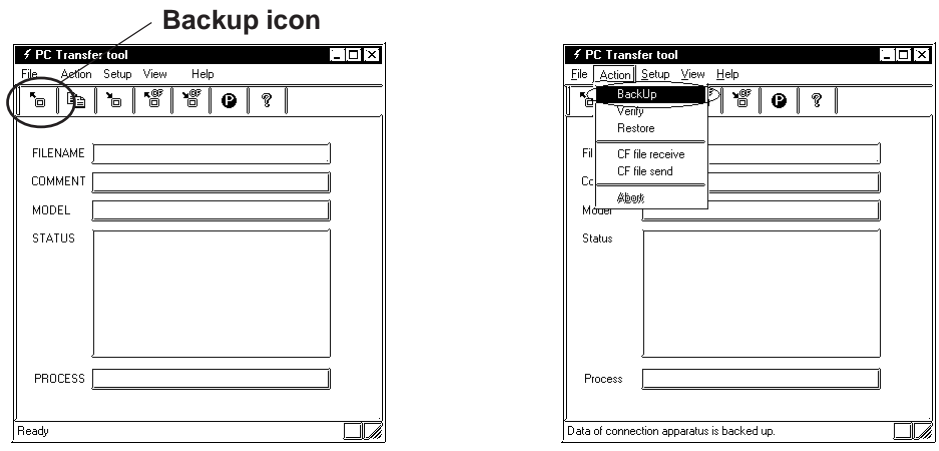
**2.2.2 Saving a Backup File (Non-reusable)**

This section describes the procedure for saving a backup file that will not require editing using the C-Package in the future.

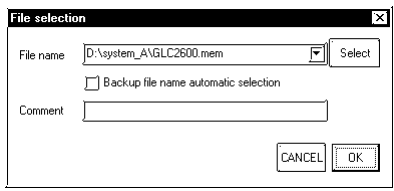
The filename can be assigned as desired. However, a backup file (\*.MEM) created using this method cannot be converted to a project file (\*.prw) for future editing.

**■ Saving the File**

1. Similarly to the procedure in “2.2.1 Saving a Backup File (Reusable)”, select [Simple Mode] or [Detail Mode] from the [View] menu.
2. Click the Backup icon or the [Action/BackUp] commands.



3. Enter the folder name and filename + extension (.MEM) to which you want to save the backup file.



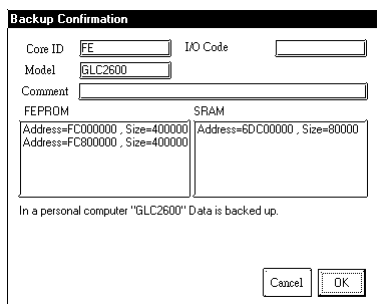
\* Click on the Browse button. Select the folder name to which you want to store the file, enter the filename, and then click [Open].

4. Click the [OK] button to start the backup processing.



**Note:** When password-protection has been set up, a dialog box appears that prompts you to enter the password.

5. The information for the connected device is displayed. Click the [OK] button to start the backup operation.



6. The backup file is saved in the folder that was specified in step 3.

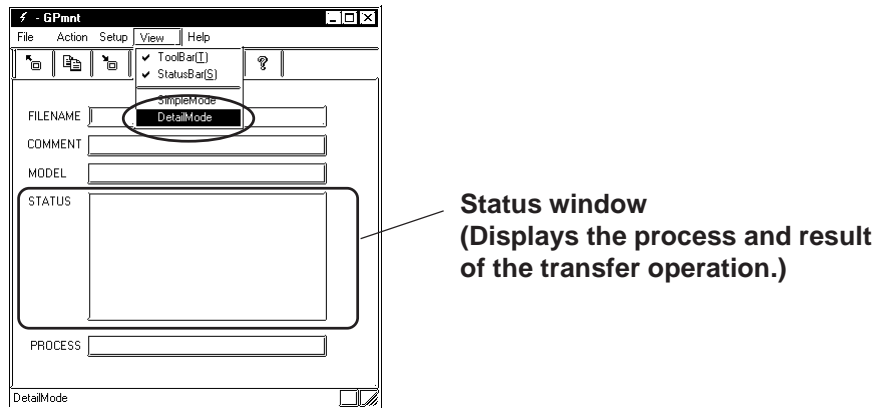
## 2.3 Sending the Edited Screen Data to the GP (Restore)

This section describes the procedure for transferring a backup file (\*\*\*.MEM) to the GP (restore operation). The transmission data includes system data, communication protocol, extended programs, screen data, and backup SRAM data.



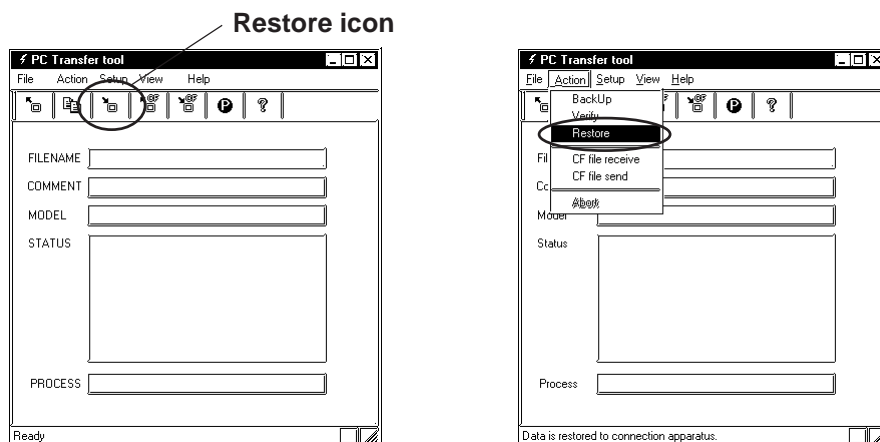
### ■ Transferring the File

1. Select [Simple Mode] or [Detail Mode] from the [View] menu.



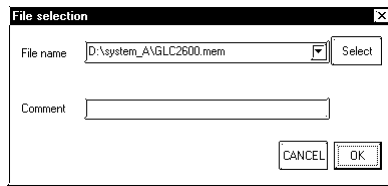
**Note:** To monitor the status of transmission, select the "Detail Mode".

2. Click the Restore icon or the [Action/Restore] commands.

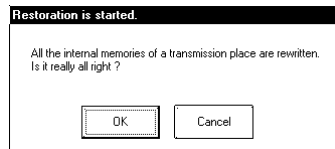


## Chapter 2 – Operation of the PC Transfer Tool

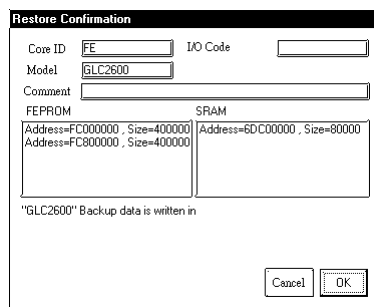
3. Enter the name of the file to be transferred.



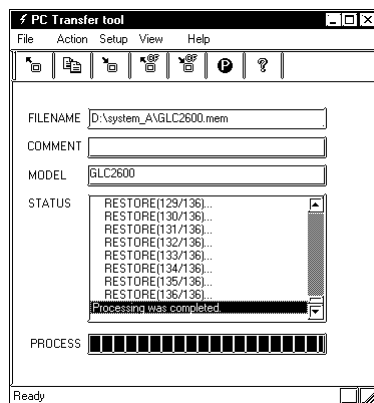
4. When the following dialog box appears on the screen, click the [OK] button.



5. The information for the connected device is displayed. Click the [OK] button to start the restore operation.



6. The result of the transmission is displayed on the Status window.



**Data can be transferred only to a GP whose model is the same as the one from which the backup file is saved.**

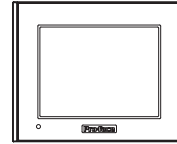
## 2.4 Comparing the Data with the GP Data (Verify)

This section describes the procedure for comparing (verifying) the project file that was downloaded to the GP with the backup file (\*\*\*.MEM). The operation allows the user to confirm that the backup data was created properly and that the result of the transmission (restore operation) does not include any errors.

The data to be compared includes system data, communication protocol, extended programs, and screen data.



Backup file (\*\*\*.MEM)



Project

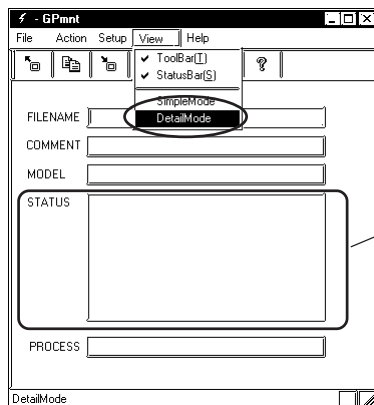


Important

- When the comparison is complete, the connected GP is reset.
- This function compares the data in order to check whether the data matches, and is not designed for searching for data disagreement.

### ■ Comparing the Data

1. Select [Simple Mode] or [Detail Mode] from the [View] menu.

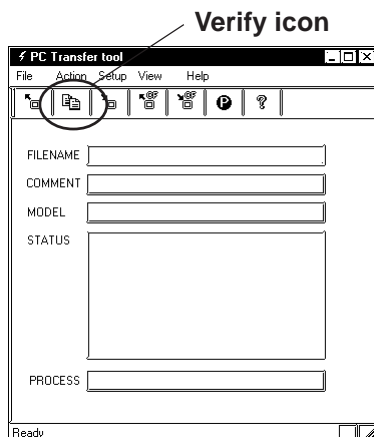


Status window  
(Displays the process and result of the comparison.)

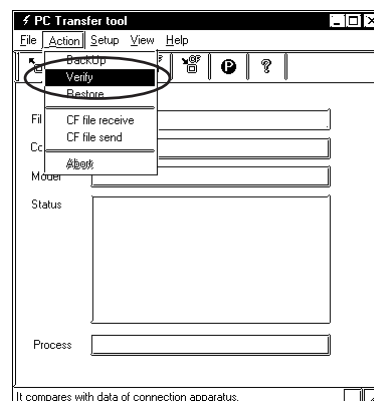


**Note:** To monitor the status of transmission, select the "Detail Mode".

2. Click the Verify icon or the [Action/Verify] commands.

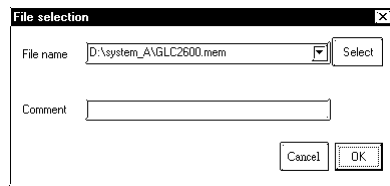


Verify icon

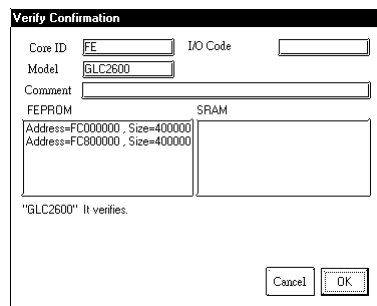


## Chapter 2 – Operation of the PC Transfer Tool

3. Enter the name of the file to be compared.



4. The information for the connected device is displayed. Click the [OK] button to start the comparison (verification) operation.

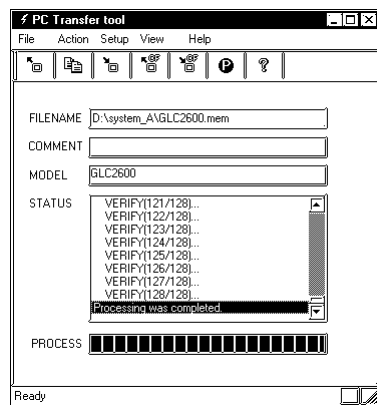


5. The following message indicating the result of the comparison is displayed on the screen.

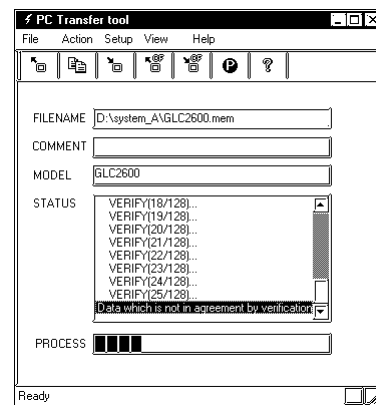
When matched : “Processing is complete.”

When unmatched : “The verification found unmatched data.”

**When matched:**



**When unmatched:**



## 2.5 Receiving Data from the CF Card

This section describes the procedure for receiving data stored in the CF Card.



Data stored in CF Card



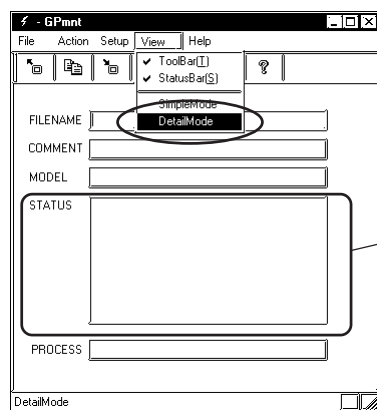
**Make sure that the CF Card is inserted into the slot before executing the data receive operation.**

The data to be received are as follows.

Folder	Data Saved	File Name
\file	Filing Data CSV data transfer data	ZF****.BIN ZR****.CSV
\log	Logged data	ZL****.CSV
\data	Image screens Sound data	ZI****.BIN ZO****.BIN
\capture	Screen capture Video capture	CP****.JPG
\mrm	GP backup data (MRM files)	ZC00001.MRM (fixed)
\trend	Trend graph data Sampled data	ZT****.CSV ZS****.CSV
\alarm	Alarm data · Active or block-1 data · History or block-2 data · Log or block-3 data · Block-4 data · Block-5 data · Block-6 data · Block-7 data · Block-8 data	ZA****.CSV ZH****.CSV ZG****.CSV Z4****.CSV Z5****.CSV Z6****.CSV Z7****.CSV Z8****.CSV
\Sram	Backup SRAM data	ZD****.BIN

### ■ Receiving the Data

1. Select [Simple Mode] or [Detail Mode] from the [View] menu.



**Status window**  
(Displays the process and result of the Receive CF File operation.)

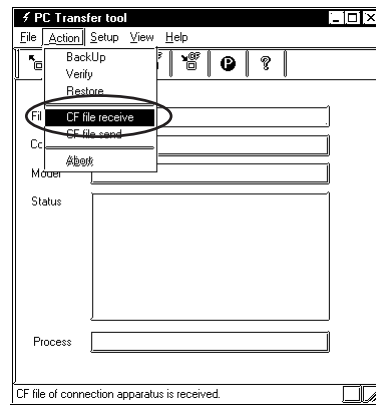
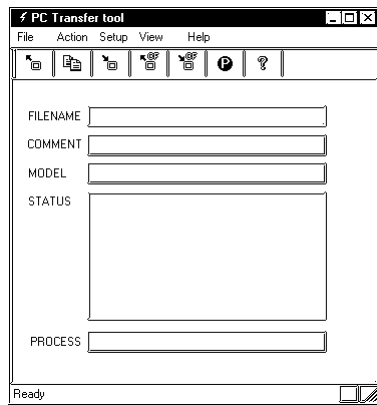


**Note:** To monitor the status of transmission, select the "Detail Mode".

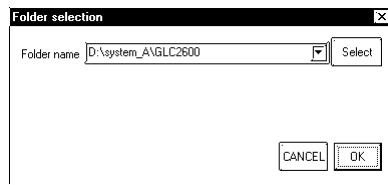


## Chapter 2 – Operation of the PC Transfer Tool

2. Click the Receive CF File icon or the [Action/CF file reception].



3. Enter the name of the folder in which the data from the CF Card will be saved. Click the [OK] button to start the Receive CF File operation.

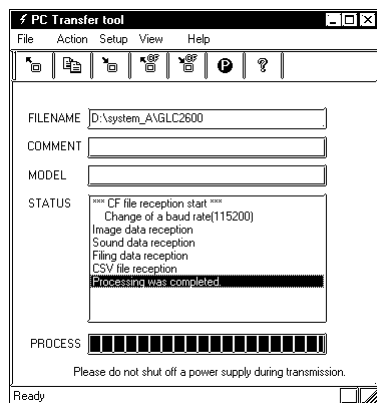


- \* The folders and files in the CF Card are received.



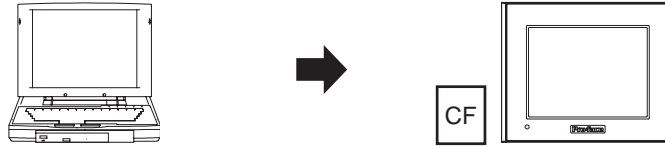
**Note:** The "data" folder and "file" folder are generated automatically on the level immediately below the specified folder, and data is received.

4. The result of the file transmission is displayed on the Status window.



## 2.6 Sending Data to CF Card

This section describes the procedure for sending files to the CF Card.



Sending data to CF Card



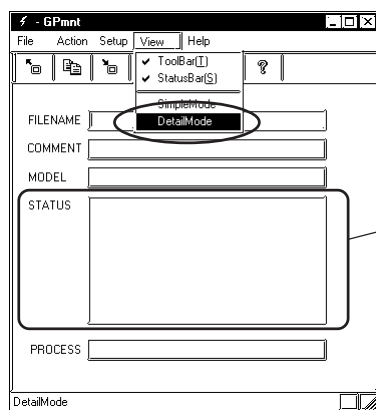
**Make sure that the CF Card is inserted into the slot before executing the data send operation.**

This data to be sent are as follows.

Folder	Data Saved	File Name
\file	Filing Data	ZF****.BIN
	CSV data transfer data	ZR****.CSV
\log	Logged data	ZL****.CSV
\data	Image screens	ZI****.BIN
	Sound data	ZO****.BIN
\capture	Screen capture	CP****.JPG
	Video capture	
\mrm	GP backup data (MRM files)	ZC00001.MRM (fixed)
\trend	Trend graph data	ZT****.CSV
	Sampled data	ZS****.CSV
\alarm	Alarm data	
	· Active or block-1 data	ZA****.CSV
	· History or block-2 data	ZH****.CSV
	· Log or block-3 data	ZG****.CSV
	· Block-4 data	Z4****.CSV
	· Block-5 data	Z5****.CSV
	· Block-6 data	Z6****.CSV
	· Block-7 data	Z7****.CSV
	· Block-8 data	Z8****.CSV
\Sram	Backup SRAM data	ZD****.BIN

### ■ Sending the Data

1. Select [Simple Mode] or [Detail Mode] from the [View] menu.



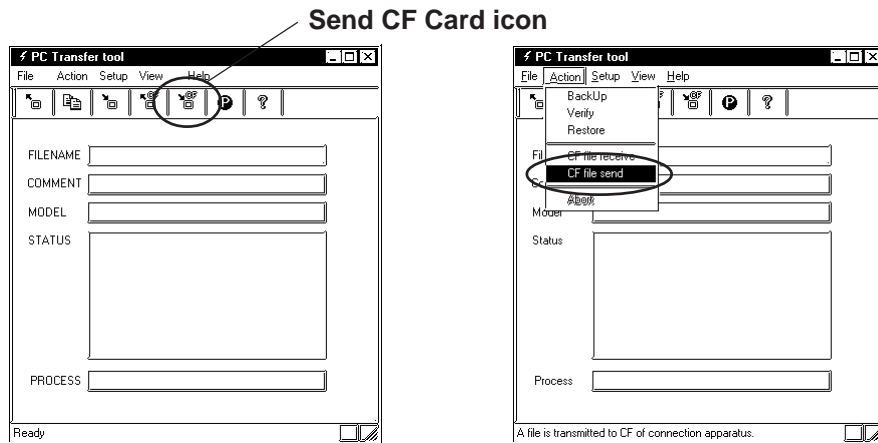
**Status window**  
(Displays the process and result of the Send CF File operation.)



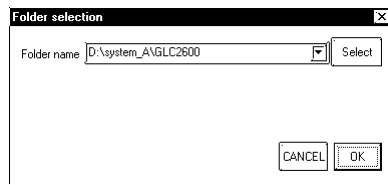
**Note:** To monitor the status of transmission, select the "Detail Mode".

## Chapter 2 – Operation of the PC Transfer Tool

2. Click the Send CF File icon or the [Action/CF file transmission] commands.

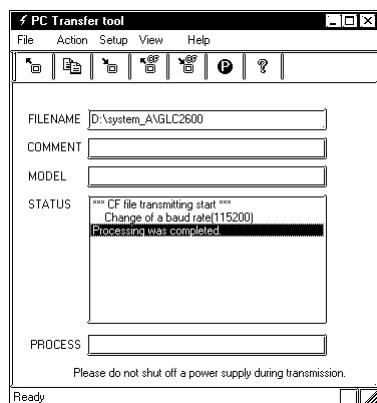


3. Enter the name of the folder that will be sent to the CF Card. Click the [OK] button to start the Send CF File operation.



***In case the specified file exists on the CF File, the file will be over-written.***

4. The result of the file transmission is displayed on the Status window.



## 3 Conversion from a MEM File to a PRW File

### 3.1 Precautions on File Conversion

This section describes the procedure for converting a backup file (\*\*\*.MEM) to a project file (\*\*\*.prw) using the C-Package03 SP1 or later version.



**Only a backup file whose filename conforms to the “BK\*\*\*\*.MEM” format (“\*\*\*\*” indicates the identification code of your GP) can be specified as the source data for the conversion.**

**For the identification code: [Reference](#) “Appendix 1: Identification (Core ID) Code”.**

**Even when the filename has been changed (renamed) to another desired name using the CF Memory Loader Tool, the file can be specified as the source file for the conversion by changing the filename back to the above format.**

**For details: [Reference](#) “10.6.6 PRW Files” in the GP-PRO/PB III Operation Manual”.**

# *Memo*

# 4 List of Error Messages

## 4.1 List of Error Messages

The error messages shown below are displayed in the PC transfer tool dialog box's status window or warning dialog box.

Message	Description
Please check a power supply or a cable.	Displayed when the power supply of the GP is shut off or the cable is disconnected during communication.
Processing was interrupted by operation.	Displayed when the "Interrupt" operation was executed during communication.
Retry over	Displayed when the frequency of timeouts exceeded the specified frequency of retrials during communication.
Reading ILOADER went wrong.	The internal file may be absent. Download "PC transfer tool" again from our company's Web site.
Data which is not in agreement by verification.	Displayed when inconsistent data was found by "Verify" processing.
Apparatus information is not registered.	A model other than the applicable ones is connected. For applicable models, refer to the List of Applicable Models.
CORE-ID is different.	Displayed when it was found by "Verify" or "Restore" that the core ID in the MEM file was different from the core ID of the connected model.
IO-CODE is different.	Displayed when it was found by "Verify" or "Restore" that the IO code in the MEM file was different from the IO code of the connected model.
Timeout...	Displayed when timeout occurred during communication.
The value besides the range is set up.	Displayed when a value outside the specified range was input at communication setting processing. Check the Communication Settings parameters again.
Password is wrong. Please input again.	Displayed when the password entered on the password input screen is incorrect.
When a password input was carried out, the retry error occurred.	Displayed when you failed in password input 3 times in succession, and operation was interrupted by force.
There is no CF card.	Displayed when the CF card is not inserted into the GP or the CF card is not applicable to the model at CF send/receive processing.
Discontinuation processing is carrying out. ... Please wait for a while.	Displayed when "Interrupt" processing takes time.
It is not a model corresponding to CF card.	Displayed when the CF card is not applicable to the model at CF send/receive processing.
It is not CF folder composition of GP.	Displayed if the "DATA" and "FILE" folders do not exist in the specified folder when sending the data to the CF card.

# *Memo*

# Appendix

## A.1 Identification (Core ID) Code

### ◆ GP Series

Product Name	Model	Identification Code
GP-H70L	GPH70-LG11-24V	0018
	GPH70-LG41-24VP	
GP-H70S	GPH70-SC11-24V	0019
	GPH70-SC41-24VP	
GP-270L	GP270-LG11-24V	0010
	GP270-LG21-24VP	
	GP270-LG31-24V	
GP-270S	GP270-SC11-24V	0011
	GP270-SC21-24VP	
	GP270-SC31-24V	
GP-370L	GP370-LG11-24V	0014
	GP370-LG21-24VP	
	GP370-LG31-24V	
	GP370-LG41-24VP	
GP-370S	GP370-SC11-24V	0015
	GP370-SC21-24VP	
	GP370-SC31-24V	
	GP370-SC41-24VP	
GP-470E	GP470-EG11	0020
	GP470-EG21-24VP	
	GP470-EG31-24V	
GP-570T	GP570-TC11	0024
	GP570-TC21-24VP	
	GP570-TC31-24V	



## A.1 – Identification (Core ID) Code

Product Name	Model	Identification Code
GP-570VM	GP570-TV11	002C
GP-571T	GP571-TC11	0029
GP-675T	GP675-TC11	0034
	GP675-TC41-24VP	
GP-870VM	GP870-PV11	0038
GP-377L	GP377-LG11-24V	0258
	GP377-LG41-24V	
GP-377S	GP377-SC11-24V	0259
	GP377-SC41-24V	
GP-377RT	GP377R-TC11-24V	0255
	GP377R-TC41-24V	
GP-477RE	GP477R-EG11	0260
	GP477R-EG41-24VP	
GP-577RT	GP577R-TC11	0265
	GP577R-TC41-24VP	
GP-2301HL	GP2301H-LG41-24V	2240
GP-2301HS	GP2301H-SC41-24V	2242
GP-2401HT	GP2401H-TC41-24V	2244
GP-2300L	GP2300-LG41-24V	2252
GP-2300S	GP2300-SC41-24V	2253
GP-2300T	GP2300-TC41-24V	2256
GP-2301L	GP2301-LG41-24V	2250
GP-2301S	GP2301-SC41-24V	2251
GP-2301T	GP2301-TC41-24V	2254
GP-2400T	GP2400-TC41-24V	2261
GP-2401T	GP2401-TC41-24V	2262
GP-2500L	GP2500-LG41-24V	226F
GP-2500S	GP2500-SC41-24V	226D
GP-2500T	GP2500-TC11	2266
	GP2500-TC41-24V	
GP-2501L	GP2501-LG41-24V	226A
GP-2501S	GP2501-SC11	2268
GP-2501T	GP2501-TC11	2267
GP-2600T	GP2600-TC11	2276
	GP2600-TC41-24V	
GP-2601T	GP2601-TC11	2277

## A.1 – Identification (Core ID) Code

### ◆ GLC Series

Product Name	Model	Identification Code
GLC100L	GLC100-LG41-24V	0014
GLC100S	GLC100-SC41-24V	0015
GLC300T	GLC300-TC41-24V	0265
GLC2300L	GLC2300-LG41-24V	225A
GLC2300T	GLC2300-TC41-24V	225E
GLC2400T	GLC2400-TC41-24V	2269
GLC2500T	GLC2500-TC41-24V	226E
	GLC2500-TC41-200V	
GLC2600T	GLC2600-TC41-24V	227E
	GLC2600-TC41-200V	

### ◆ LT Series

Type	Model	Identification Code
LT Type A1	GLC150-BG41-XY32SK-24V	024C
LTC Type A1	GLC150-SC41-XY32SK-24V	024E
LT Type A2	GLC150-BG41-XY32SC-24V	024C
LT Type B	GLC150-BG41-FLEX-24V	024C
LT Type B+	GLC150-BG41-XY32KF-24V	024C
LTC Type B+	GLC150-SC41-XY32KF-24V	024E
LT Type C	GLC150-BG41-RSFL-24V	024D
LT Type H1	GLC150-BG41-ADK-24V	024C
	GLC150-BG41-ADPK-24V	
	GLC150-BG41-ADTK-24V	
LTC Type H1	GLC150-SC41-ADK-24V	024E
	GLC150-SC41-ADPK-24V	
	GLC150-SC41-ADTK-24V	
LT Type H2	GLC150-BG41-ADC-24V	024C
	GLC150-BG41-ADPC-24V	
	GLC150-BG41-ADTC-24V	

### ◆ ST Series

Product Name	Model	Identification Code
ST400	ST400-AG41-24V	4240
ST401	ST401-AG41-24V	4241
ST402	ST402-AG41-24V	4242
ST403	ST403-AG41-24V	4243

### ◆ Factory Gateway

Product Name	Model	Identification Code
Factory Gateway	FGW-SE41-24V	2248

# *Memo*