

Easy! Smooth!

GP-2300 Series->GP4000 Series

Replacement Guidebook

## Preface

This guidebook introduces the procedures to replace a unit in GP-2300 series with a GP-4301T/TW unit.

Model in use	Recommended Substitution
GP-2300T/S/L	<b>GP-4301T</b>
GP-2301T	
GP-2300L	<b>GP-4301TW</b>
GP-2301T/S/L	

## Safety Information

### HAZARD OF OPERATOR INJURY, OR UNINTENDED EQUIPMENT DAMAGE

Before operating any of these products, be sure to read all related manuals thoroughly.

Failure to follow these instructions can result in death, serious injury or unintended equipment damage.

## GP4000 Series Model Number

GP4000 series model number partly differs depending on a specification. Before placing an order, please make sure of the model number.

PFXGP4 \* 0 \* \* \* \* \*

A      B      C      D      E      F

A	2	GP-4200 series (3.5")
	3	GP-4300 series (5.7")
	4	GP-4400 series (7.5"/7.0"W)
	5	GP-4500 series (10.4")
	6	GP-4600 series (12.1")
B	01	RS-232C/422/485
	03	RS-485 (isolation)
C	T	TFT color LCD
	W	TFT color LCD (Wide Type)
D	A	Analog Resistive Film Touch Panel
	M	Matrix Resistive Film Touch Panel
E	A	AC Type Power Supply
	D	DC Type Power Supply
F	W	GP-4201TW/4301TW/4401WW/4501TW
	C	Coated model
	WC	Coated model of GP-4301TW

## Contents

<b>PREFACE</b>	<b>2</b>
<b>SAFETY INFORMATION</b>	<b>2</b>
<b>HAZARD OF OPERATOR INJURY, OR UNINTENDED EQUIPMENT DAMAGE</b>	<b>2</b>
<b>GP4000 SERIES MODEL NUMBER</b>	<b>3</b>
<b>CONTENTS</b>	<b>4</b>
<b>CHAPTER 1 SPECIFICATION COMPARISON</b>	<b>6</b>
1.1 SPECIFICATIONS OF GP-2300T/S AND GP-4301T	6
1.2 SPECIFICATIONS OF GP-2300L AND GP-4301TW	8
1.3 SPECIFICATIONS OF GP-2301T/S/L AND GP-4301TW	9
1.4 SPECIFICATIONS OF GP-2301T AND GP-4301T	11
<b>CHAPTER 2 COMPATIBILITY OF HARDWARE</b>	<b>13</b>
2.1 LOCATIONS OF CONNECTOR	13
2.2 TOUCH PANEL SPECIFICATIONS	18
2.3 DISPLAY COLORS (FOR GP-2300L/2301L ONLY)	19
2.4 TRANSFER CABLE	20
2.5 INTERFACE	20
2.5.1 SERIAL INTERFACE	20
2.5.2 CF CARD INTERFACE	21
2.6 PERIPHERAL UNITS AND OPTION UNITS	21
2.6.1 BARCODE READER CONNECTION	21
2.6.2 PRINTER CONNECTION (FOR GP-2300T/S/L ONLY)	21

2.6.3 EXPANSION UNIT	21
2.6.4 ISOLATION UNIT	22
<b>2.7 POWER CONNECTOR</b>	<b>22</b>
<b>2.8 BACKUP BATTERY (ONLY WHEN REPLACING WITH GP-4301T)</b>	<b>22</b>
<b>2.9 POWER CONSUMPTION</b>	<b>22</b>
<b>2.10 MATERIALS/COLORS OF THE BODY</b>	<b>23</b>
<b>2.11 BACKUP MEMORY (SRAM)</b>	<b>23</b>
<b>2.12 ABOUT PRO-SERVER</b>	<b>23</b>
<b>2.13 OTHER NOTES</b>	<b>24</b>

## **CHAPTER 3 REPLACEMENT PROCEDURE** **25**

<b>3.1 WORK FLOW</b>	<b>25</b>
<b>3.2 PREPARATION</b>	<b>26</b>
<b>3.3 RECEIVE SCREEN DATA FROM GP-2300 SERIES</b>	<b>26</b>
<b>3.4 CONVERT SCREEN DATA WITH THE PROJECT CONVERTER</b>	<b>31</b>
<b>3.5 CHANGE THE DISPLAY UNIT TYPE</b>	<b>38</b>
<b>3.6 TRANSFER SCREEN DATA TO GP-4301T/TW</b>	<b>38</b>
<b>3.7 DIFFERENCES OF SOFTWARE</b>	<b>43</b>
3.7.1 DIFFERENCES AFTER CONVERSION	43

## **CHAPTER 4 COMMUNICATION WITH DEVICE/PLC** **45**



<b>4.1 DRIVERS</b>	<b>45</b>
<b>4.2 SHAPES OF COM PORTS</b>	<b>45</b>
<b>4.3 SIGNALS OF COM PORTS</b>	<b>46</b>
4.3.1 SIGNALS OF COM1	46
4.3.2 SIGNALS OF COM2	48
<b>4.4 MULTILINK CONNECTION</b>	<b>49</b>
<b>4.5 INTERNAL 2-PORT FEATURE FOR MITSUBISHI PLC</b>	<b>49</b>
<b>4.6 CABLE DIAGRAM AT THE TIME OF REPLACEMENT</b>	<b>50</b>
4.6.1 WHEN USING A RS-232C CONNECTION CABLE	51
4.6.2 WHEN USING A RS-422 CONNECTION CABLE	53

## **CHAPTER 5 APPENDIX** **57**

<b>5.1 CHANGING THE SETTING OF THE EXTERNAL MEDIA TO USE</b>	<b>57</b>
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## Chapter 1 Specification Comparison

### 1.1 Specifications of GP-2300T/S/L and GP-4301T

		GP-2300T/S/L	GP-4301T
			
Display Type	GP-2300T	TFT Color LCD	TFT Color LCD
	GP-2300S	STN Color LCD	
	GP-2300L	Monochrome LCD	
Display Colors, Levels	GP-2300T	256 colors (without blink)/ 64 colors (with blink)	<b>UP!</b> 65,536 colors (without blink)/ 16,384 colors (with blink) -> <a href="#">See 2.3</a>
	GP-2300S	64 colors	
	GP-2300L	Monochrome, 2 levels/ Monochrome, 8 levels	
Display Resolution		QVGA (320x240 pixels)	
Panel Cutout Dimensions (mm)		156(W)x123.5(H)	
External Dimensions (mm)		171(W)x138(H)x60(D)	169.5(W)x137(H)x59.5(D)
Touch Panel Type		Resistive film (Matrix)	<b>NEW!</b> Resistive film (Analog) -> <a href="#">See 2.2</a>
Memory	Application	2MB	<b>UP!</b> 16MB
	SRAM	256KB	<b>UP!</b> 320KB
Backup Battery		Secondary Battery (Rechargeable Lithium battery)	<b>NEW!</b> Primary Battery (Replaceable Lithium battery) -> <a href="#">See 2.8</a>
Rated Input Voltage		DC 24V	
Serial I/F	COM1	D-Sub 25 pin (socket) RS-232C/422	D-Sub 9 pin (plug) RS-232C -> <a href="#">See 2.5.1 and Chapter4</a>
	COM2	D-Sub 9 pin (plug) RS-232C	D-Sub 9 pin (plug) RS-422/485 -> <a href="#">See 2.5.1 and Chapter4</a>
Ethernet I/F		10BASE-T	<b>UP!</b> 10BASE-T/100BASE-TX
CF Card I/F		✓	- -> <a href="#">See 2.5.2</a>



<b>SD Card I/F</b>		-	<b>NEW! ✓</b>
<b>USB I/F</b>	<b>Type A</b>	-	<b>NEW! ✓</b> -> <a href="#">See 2.4</a>
	<b>Type mini B</b>		
<b>Tool Connector I/F</b>		✓	-
<b>Printer I/F</b>		Centronic-compliant (parallel)	- -> <a href="#">See 2.6.2</a>
<b>Expansion Unit I/F</b>		✓	- -> <a href="#">See 2.6.3</a>

## 1.2 Specifications of GP-2300L and GP-4301TW

		GP-2300L	GP-4301TW
			
<b>Display Type</b>		Monochrome LCD	TFT Color LCD
<b>Display Colors, Levels</b>		Monochrome 2 levels/ monochrome 8 levels	<b>UP!</b> 65,536 colors (without blink)/ 16,384 colors (with blink) <a href="#">-&gt;See 2.3</a>
<b>Display Resolution</b>		QVGA (320x240 pixels)	
<b>Panel Cutout Dimensions (mm)</b>		156(W)x123.5(H)	
<b>External Dimensions (mm)</b>		171(W)x138(H)x60(D)	169.5(W)x137(H)x59.5(D)
<b>Touch Panel Type</b>		Resistive film (Matrix)	<b>NEW!</b> Resistive film (Analog) <a href="#">-&gt;See 2.2</a>
<b>Memory</b>	<b>Application</b>	2MB	<b>UP!</b> 8MB
	<b>SRAM</b>	256KB	128KB <a href="#">-&gt;See 2.11</a>
<b>Backup Battery</b>		Secondary Battery (Rechargeable Lithium battery)	
<b>Rated Input Voltage</b>		DC 24V	
<b>Serial I/F</b>	<b>COM1</b>	D-Sub 25 pin (socket) RS-232C/422	D-Sub 9 pin (plug) RS-232C <a href="#">-&gt;See 2.5.1 and Chapter4</a>
	<b>COM2</b>	D-Sub 9 pin (plug) RS-232C	D-Sub 9 pin (plug) RS-422/485 <a href="#">-&gt;See 2.5.1 and Chapter4</a>
<b>Ethernet I/F</b>		10BASE-T	<b>UP!</b> 10BASE-T/100BASE-TX
<b>CF Card I/F</b>		✓	- <a href="#">-&gt;See 2.5.2</a>
<b>USB I/F</b>	<b>Type A</b>	-	<b>NEW!</b> ✓ <a href="#">-&gt;See 2.4</a>
	<b>Type mini B</b>		
<b>Tool Connector I/F</b>		✓	-
<b>Printer I/F</b>		Centronic-compliant (parallel)	- <a href="#">-&gt;See 2.6.2</a>
<b>Expansion Unit I/F</b>		✓	- <a href="#">-&gt;See 2.6.3</a>





### 1.3 Specifications of GP-2301T/S/L and GP-4301TW

		GP-2301T/S/L	GP-4301TW
			
Display Type	GP-2301T	TFT Color LCD	TFT Color LCD
	GP-2301S	STN Color LCD	
	GP-2301L	Monochrome LCD	
Display Colors, Levels	GP-2301T	256 colors (without blink)/ 64 colors (with blink)	<b>UP!</b> 65,536 colors (without blink)/ 16,384 colors (with blink) -> <a href="#">See 2.3</a>
	GP-2301S	64 colors	
	GP-2301L	Monochrome, 2 levels/ Monochrome, 8 levels	
Display Resolution		QVGA (320x240 pixels)	
Panel Cutout Dimensions (mm)		156(W)x123.5(H)	
External Dimensions (mm)		171(W)×138(H)×60(D)	169.5(W)×137(H)×59.5(D)
Touch Panel Type		Resistive film (Matrix)	<b>NEW!</b> Resistive film (Analog) -> <a href="#">See 2.2</a>
Memory	Application	1MB	<b>UP!</b> 8MB
	SRAM	128KB	128KB
Backup Battery		Secondary Battery (Rechargeable Lithium battery)	
Rated Input Voltage		DC 24V	
Serial I/F	COM1	D-Sub 25 pin (socket) RS-232C/422	D-Sub 9 pin (plug) RS-232C -> <a href="#">See 2.5.1 and Chapter4</a>
	COM2	-	D-Sub 9 pin (plug) RS-422/485 -> <a href="#">See 2.5.1 and Chapter4</a>
Ethernet I/F		-	<b>NEW!</b> 10BASE-T/100BASE-TX
CF Card I/F		✓	- -> <a href="#">See 2.5.2</a>
USB	Type A	-	<b>NEW!</b> ✓

<b>I/F</b>	<b>Type mini B</b>		-> <a href="#">See 2.4</a>
<b>Tool Connector I/F</b>		✓	-
<b>Expansion Unit I/F</b>		✓	- -> <a href="#">See 2.6.3</a>

## 1.4 Specifications of GP-2301T and GP-4301T

		GP-2301T	GP-4301T
			
Display Type		TFT Color LCD	
Display Colors, Levels		256 colors (without blink)/ 64 colors (with blink)	<b>UP!</b> 65,536 colors (without blink)/ 16,384 colors (with blink) <a href="#">-&gt;See 2.3</a>
Display Resolution		QVGA (320x240 pixels)	
Panel Cutout Dimensions (mm)		156(W)x123.5(H)	
External Dimensions (mm)		171(W)x138(H)x60(D)	169.5(W)x137(H)x59.5(D)
Touch Panel Type		Resistive film (Matrix)	<b>NEW!</b> Resistive film (Analog) <a href="#">-&gt;See 2.2</a>
Memory	Application	1MB	<b>UP!</b> 16MB
	SRAM	128KB	<b>UP!</b> 320KB
Backup Battery		Secondary Battery (Rechargeable Lithium battery)	<b>NEW!</b> Primary Battery (Replaceable Lithium battery) <a href="#">-&gt;See 2.8</a>
Rated Input Voltage		DC 24V	
Serial I/F	COM1	D-Sub 25 pin (socket) RS-232C/422	D-Sub 9 pin (plug) RS-232C <a href="#">-&gt;See 2.5.1 and Chapter4</a>
	COM2	-	D-Sub 9 pin (plug) RS-422/485 <a href="#">-&gt;See 2.5.1 and Chapter4</a>
Ethernet I/F		-	<b>UP!</b> 10BASE-T/100BASE-TX
CF Card I/F		✓	- <a href="#">-&gt;See 2.5.2</a>
SD Card I/F		-	<b>NEW!</b> ✓
USB I/F	Type A	-	<b>NEW!</b> ✓ <a href="#">-&gt;See 2.4</a>
	Type mini B		
Tool Connector I/F		✓	-

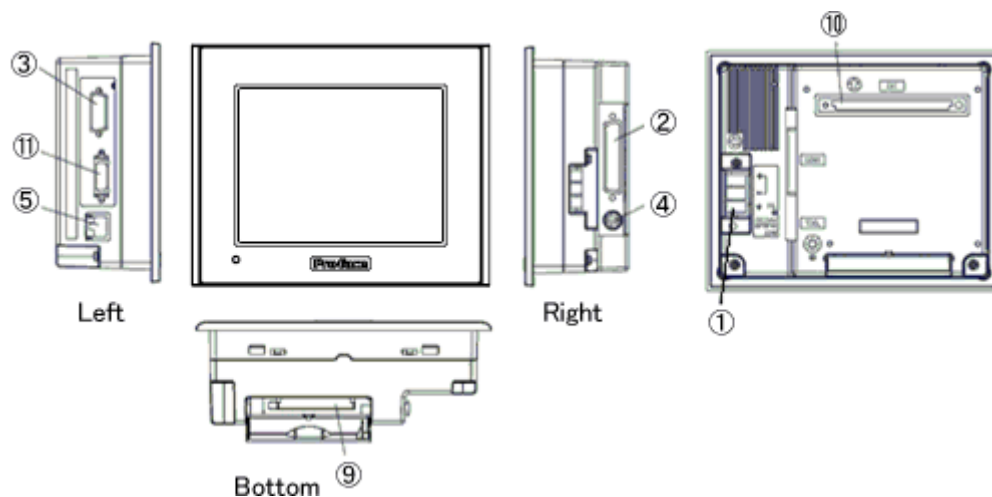
<b>Printer I/F</b>	-	<b>NEW!</b> USB (Type A) -> <a href="#">See 2.6.2</a>
<b>Expansion Unit I/F</b>	✓	- -> <a href="#">See 2.6.3</a>

## Chapter 2 Compatibility of Hardware

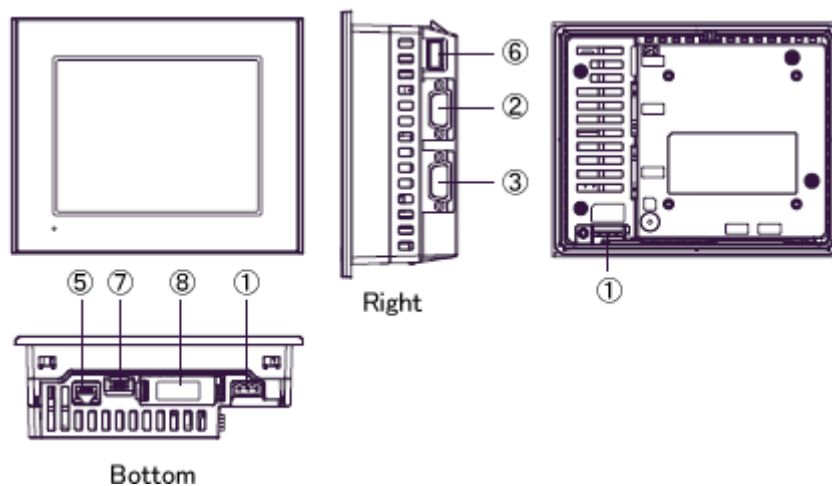
### 2.1 Locations of connector

Connector locations on GP-2300 series and GP-4301T/TW are as follows:

GP-2300T/S



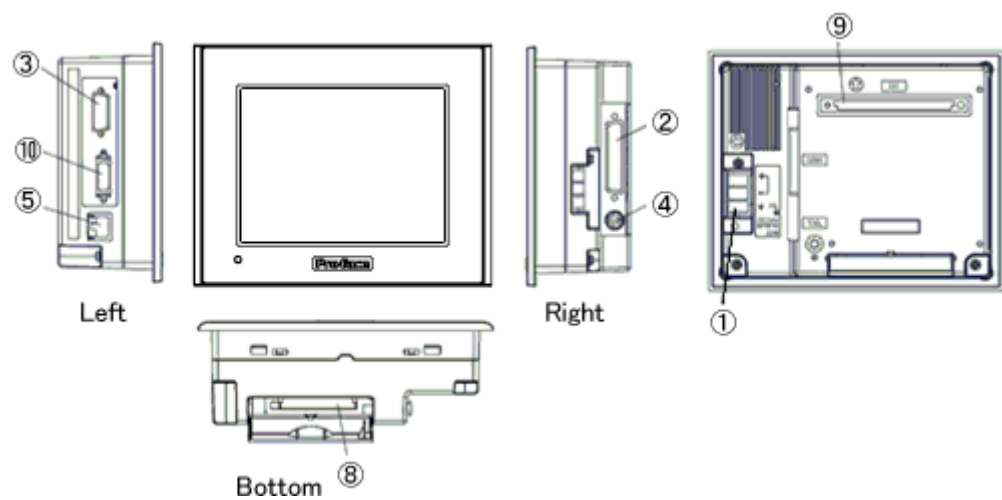
GP-4301T



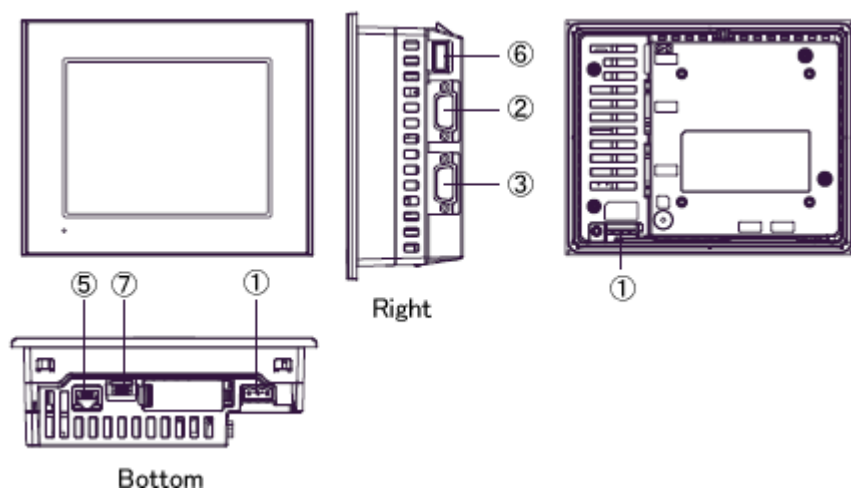
Interface names

	GP-2300T/S	GP-4301T
1	Power Input Terminal Block	Power Connector
2	Serial Interface (COM1)	
3	Serial Interface (COM2)	Serial Interface (COM2)
4	Tool Connector	-
5	Ethernet I/F	
6	-	USB Interface (Type A)
7	-	USB Interface (Type mini B)
8	-	SD Card Interface
9	CF Card Interface	-
10	Expansion Unit Interface	-
11	Printer Interface	-

# GP-2300L



# GP-4301TW

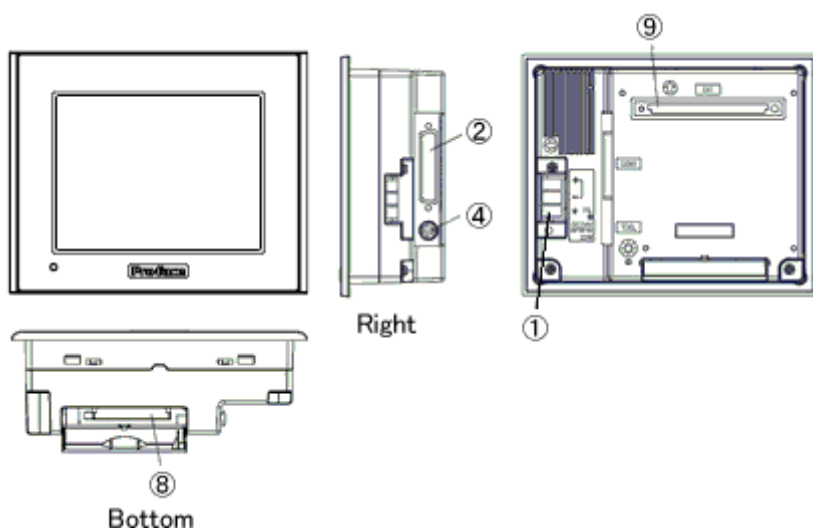


Interface names

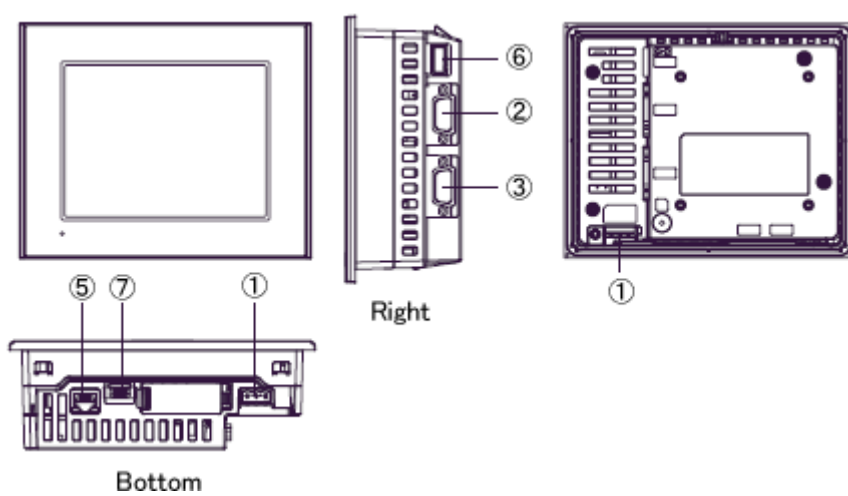
	GP-2300L	GP-4301TW
1	Power Input Terminal Block	Power Connector
2	Serial Interface (COM1)	
3	Serial Interface (COM2)	Serial Interface (COM2)
4	Tool Connector	-
5	Ethernet Interface	
6	-	USB Interface (Type A)
7	-	USB Interface (Type mini B)
8	CF Card Interface	-
9	Expansion Unit Interface	-
10	Printer Interface	-



# GP-2301T/S/L



# GP-4301TW



#### Interface names

	GP-2301T/S/L	GP-4301TW
1	Power Input Terminal Block	Power Connector
2	Serial Interface (COM1)	
3	-	Serial Interface (COM2)
4	Tool Connector	-
5	-	Ethernet Interface
6	-	USB Interface (Type A)
7	-	USB Interface (Type mini B)
8	CF Card Interface	-
9	Expansion Unit Interface	-

## 2.2 Touch Panel specifications

GP-4301T/TW adopts the Analog type. Because of it, simultaneous 2-point touch input operation is not supported. When simultaneous 2-point touch input operation is performed, GP's operation is as described below.

<p>GP-4301T: Only the first detected touch is effective.</p> <p>GP-4301TW: When two different points are pushed at the same time, touch input on the middle coordinates between those two points is recognized.</p>
---

If you have used the 2-point touch input on GP-2300 series, change to the 1-point touch input setting using the switch delay function of GP-Pro EX.

### 2.3 Display Colors (for GP-2300L/2301L only)

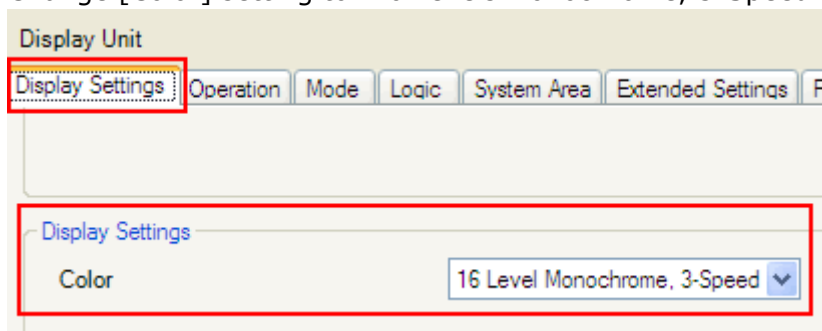
The display color of GP-2300L/2301L is monochrome, but GP-4301T/TW has a TFT color LCD. After replacement, the display color changes from monochrome to color. When data of a monochrome model is converted to data of a color model with GP-Pro EX, the data may be displayed in colors depending on the version of the Project Converter or settings of the drawing/the parts on the screen.

After conversion, please confirm the display colors of the drawing or the parts on the screens just in case.

#### If the display is in colors after the data conversion to GP-4301T/TW...

GP-Pro EX Ver. 3.01.200 (Service Pack1) or later supports the function which changes drawing in colors to in monochrome. To change the setting, follow the steps below.

- (1) Click [Project]->[System Settings]->[Display Unit].
- (2) Open the [Display Settings] tab.
- (3) Change [Color] setting to "16 Levels Monochrome, 3-Speed Blink".



- \* [Reverse Display] setting is for displaying the screen with black/white reversed. Check on it if needed.





- \* Please confirm the display colors of the drawing or the parts on the screens after changing the [Color] setting to "16 Levels Monochrome, 3-Speed Blink".

## 2.4 Transfer cable

To transfer screen data to GP-4301T/TW, use a USB transfer cable or Ethernet.

The USB cables that can be used for GP-4301T/TW are as follows:

	Model	Connector Type	Connector on GP
Options	CA3-USBCB-01		USB (Type A)
	ZC9USCBMB1		USB (Type mini B)
Commercial Item	-		

Please note that the cables (GPW-CB02, GPW-CB03, GP430-CU02-M) for GP-2300 series cannot be used for GP-4301T/TW.

## 2.5 Interface

### 2.5.1 Serial Interface

The pin assignment and the shape of plug/socket connector of GP-2300 series are different from those of GP-4301T/TW.

To know the details about them, see [[4.2 Shapes of COM ports](#)] and [[4.3 Signals of COM ports](#)].

Because of it, the existing PLC connection cables cannot be used as they are. If you use the existing connection cables for GP-4301T/TW, see [[4.6 Cable Diagram at the time of replacement](#)].

And even though the both COM1 and COM2 ports on GP-2300T/S/L are used with RS-232C setting, only the COM1 port can be used for GP-4301T/TW. In this case, please contact our sales office in your region.

(<http://www.pro-face.com/customer/contact.html>)

### 2.5.2 CF Card Interface

GP-4301T/TW is not equipped with a CF card slot. But a SD card slot (for GP-4301T only) and a USB interface are installed. In order to use the GP-2300 series data saved in the CF card and the functions using the CF card, use a SD card or USB flash drive for GP-4301T/USB flash drive for GP-4301TW instead.

\* When using a SD card with GP-4301T, please verify it supports the following specifications:

	File forma	Maximum capacity
SD	FAT16	2GB
SDHC	FAT32	32GB

For the GP-PRO/PBIII's "CF Card output folder" setting, if project file is converted on GP-Pro EX, the setting will automatically change to the one that uses a SD card. To change the setting of the output destination folder, see [[5.1 Changing the setting of the external media to use](#)].

## 2.6 Peripheral units and option units

### 2.6.1 Barcode reader connection

GP-4301T/TW is not equipped with a tool port. A barcode reader that used to be connected to the tool port on GP-2300 series cannot be used. However, GP-4301T/TW allows you to connect a barcode reader on its USB interface (Type A) or its serial interface.

For the models GP-4301T/TW supports, see [OtasukePro!] ([http://www.pro-face.com/otasuke/qa/3000/0056\\_connect\\_e.html](http://www.pro-face.com/otasuke/qa/3000/0056_connect_e.html)).

### 2.6.2 Printer Connection (for GP-2300T/S/L only)

GP-4301T/TW is not equipped with Centronics (parallel) Interface for a printer though GP-2300T/S/L is equipped with it. If the printer for GP-2300T/S/L is used for GP-4301T/TW, a converter that converts USB I/F on GP-4301T/TW to Centronics I/F is required. And GP-4301T/TW allows you to connect a printer on its USB port.

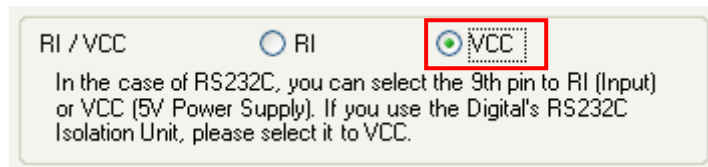
For the models GP-4301T/TW supports, see [OtasukePro!] ([http://www.pro-face.com/otasuke/qa/3000/0056\\_connect\\_e.html](http://www.pro-face.com/otasuke/qa/3000/0056_connect_e.html)).

### 2.6.3 Expansion Unit

GP-4301T/TW is not equipped with an expansion unit interface. The expansion unit (each kind of unit like CC-LINK Unit) for GP-2300 series cannot be used.

#### 2.6.4 Isolation Unit

The isolation unit for GP-2300 series (CA2-ISOALL232-01, CA2-ISOALL422-01) cannot be used for GP-4301T/TW. You can use the RS-232C isolation unit for GP-4301T/TW (CA3-ISO232-01) instead. In this case, select "VCC" from [System Settings] -> [Device/PLC] in the [Project] menu on GP-Pro EX.



#### 2.7 Power Connector

The power connector on GP-4301T/TW is a spring lock type. If you replace GP-2300 series with GP-4301T/TW, change the power cable.

#### 2.8 Backup Battery (only when replacing with GP-4301T)

Unlike GP-2300 series, GP-4301T does not use rechargeable secondary batteries but replaceable primary ones. (For both a rechargeable type and a replaceable one, contents to be backed up are the same.)

When the time for replacement of backup batteries approaches, the message to urge you to replace the battery, "RAAA053: Running out of power in the backup battery. Please change the battery." appears. When the message appears, replace the battery referring to the GP4000 series hardware manual.

Replaceable Battery Model
PFXZCBBT1

#### 2.9 Power Consumption

The power consumption of GP-2300 series is different from that of GP-4301T/TW.

GP-2300 series	GP-4301T/TW
22W or less	10.5W or less

For the detailed electric specifications, see the hardware manual.

## 2.10 Materials/Colors of the body

The materials and the colors of GP-2300 series and GP-4301T/TW are as follows:

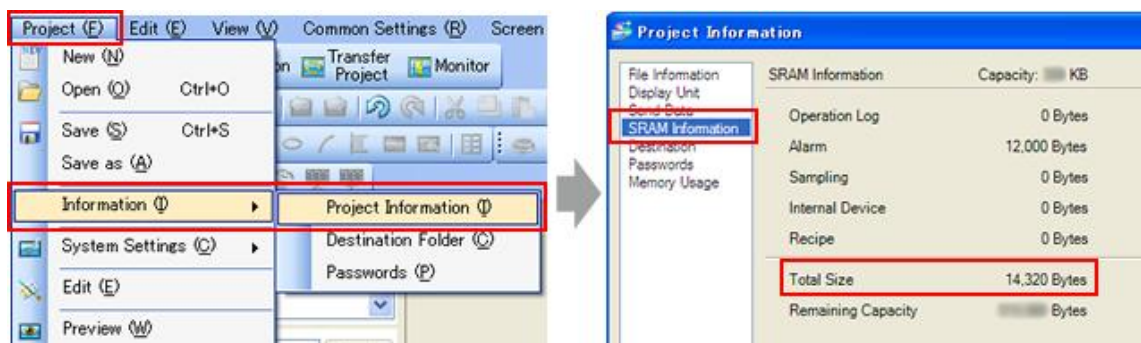
	Color	Material
GP-2300 series	Silver	Aluminum alloy
GP-4301T/TW	Light Gray	Resin with glass

## 2.11 Backup Memory (SRAM)

When replacing GP-2300L with GP-4301TW, SRAM size becomes smaller (256KB -> 128KB). In case that SRAM size of your project file is more than 128KB after converting GP-2300L project file (\*.prw) with GP-Pro EX Project Converter, replace GP-2300L with GP-4301T instead of GP-4301TW.

To check SRAM size, follow the steps below;

- (1) Convert GP-2300L project file (\*.prw) to GP-Pro EX's project file (\*.prx).  
To know how to convert a project file (\*.prw), see [[3.4 Convert screen data with the Project Converter](#)].
- (2) Double click and open the converted project file (\*.prx) on GP-Pro EX.
- (3) Click [Project]->[Information]->[Project Information]. The Project Information window appears.
- (4) Click [SRAM Information] to see SRAM size.



## 2.12 About Pro-Server

If the Pro-Server with Pro-Studio is used, please use the Pro-Server EX Ver.1.30 or later. For details of the installation, refer to the [http://www.pro-face.com/otasuke/qa/server\\_ex/replace/](http://www.pro-face.com/otasuke/qa/server_ex/replace/).

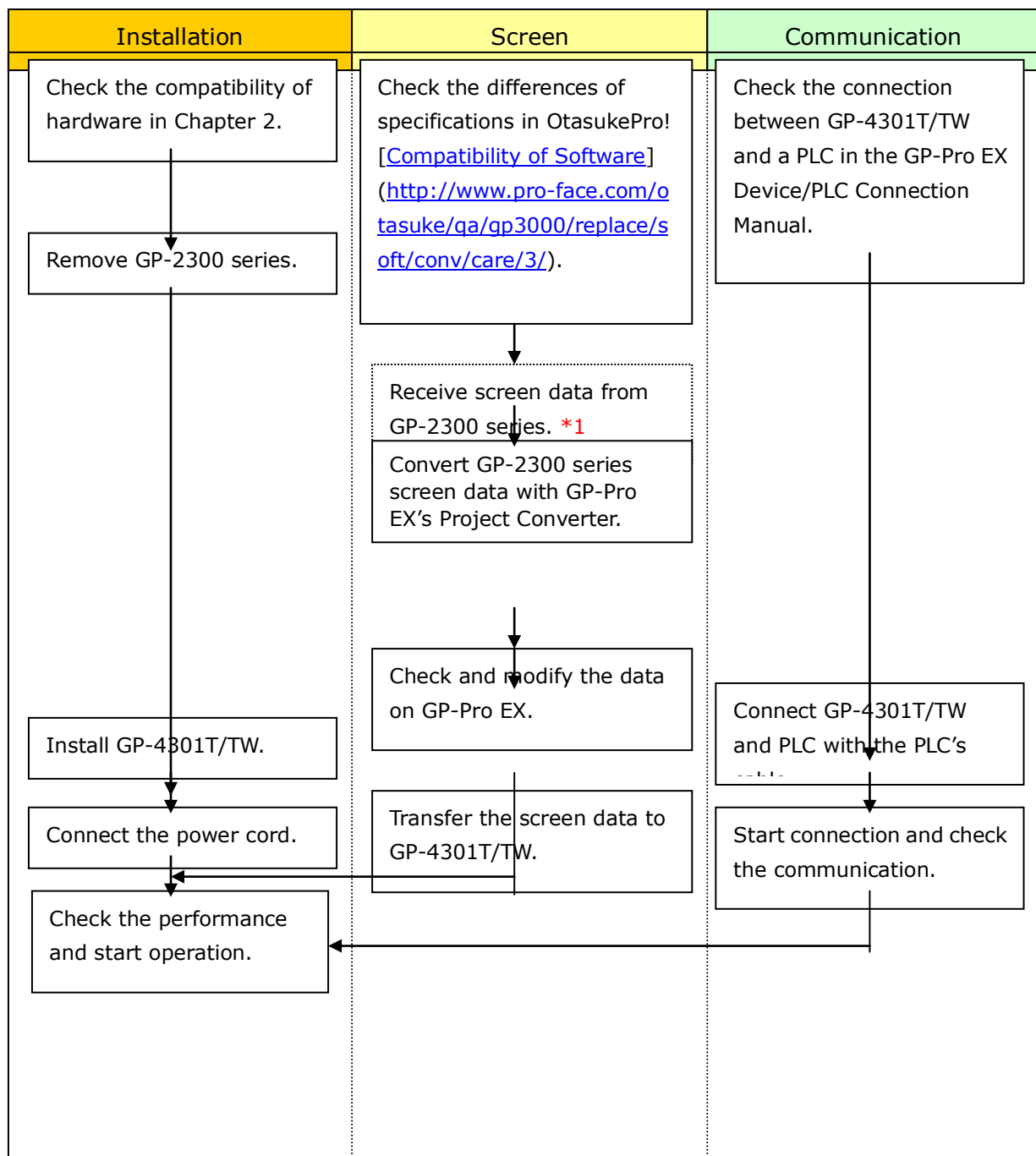
### **2.13 Other Notes**

- Do not expose GP4000 series to direct sunlight.
- Do not use GP4000 series outdoors.
- Do not turn on GP4000 series if condensation has occurred inside the device.
- When you are continuously using GP4000 series without oxygen, the brightness might decrease. Please ventilate the control panel periodically.



## Chapter 3 Replacement Procedure

### 3.1 Work Flow



\*1: This step is required if screen data is saved only in the GP unit, not in any other device.

### 3.2 Preparation

Requirements for receiving screen data from GP-2300 series. <b>*1</b>	<b>GP-2300T/2300L/2301S/2301L:</b> PC in which GP-PRO/PBIII for Windows V6.0 or later is installed. <b>*2</b> <b>GP-2300S/2301T:</b> PC in which GP-PRO/PBIII for Windows C-Package02 V6.3 or later is installed. <b>*2</b>
	Transfer Cable (The following three types of cables are available.) <ul style="list-style-type: none"> <li>GPW-CB02 (D-sub 9 pin to PC)</li> <li>GPW-CB03 (USB to PC) <b>*3</b></li> <li>GP430-CU02-M or GPW-SET (D-sub 25 pin to PC)</li> </ul> * Possible to send/receive a screen via Ethernet (for GP-2300T/S/L only) or with a CF card.
Requirements for converting screen data of GP-2300 series and transferring the converted data to GP-4301T/TW	PC in which GP-Pro EX Ver.3.0 or later is installed
	Transfer Cable (The following three types of cables are available.) <ul style="list-style-type: none"> <li>A USB transfer cable (model: CA3-USBCB-01)</li> <li>A USB data-transfer cable (model: ZC9USCBMB1)</li> <li>A commercial USB cable (USB Type A/mini B)</li> </ul> * Possible to send/receive a screen with a SD card (GP-4301TW only), a USB storage device or via Ethernet.

**\*1:** This step is required if screen data is saved only in the GP unit, not in any other device

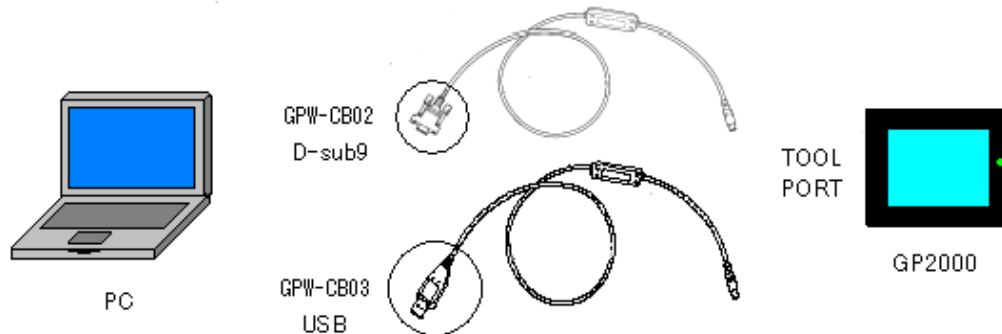
**\*2:** Please use the same version or later as or than that of the software used during creating screens on GP-2300 series. If you don't know the version, we recommend you to use the newest version. The newest version is GP-PRO/PBIII for Windows C-Package03 (SP2) V7.29. Those who have GP-PRO/PBIII for Windows C-Package03 V7.0 can download it from our web site called [OtasukePro!] (<http://www.pro-face.com/otasuke/download/update/>).

**\*3:** GPW-CB03 is supported by GP-PRO/PBIII for Windows C-Package02 (SP2) V6.23 or later. You need to install a driver from [Download] on our Web site called [OtasukePro!] (<http://www.pro-face.com/otasuke/download/driver/>).

### 3.3 Receive screen data from GP-2300 series

This section explains, as an example, how to receive screen data from GP-2300 series using a transfer cable, GPW-CB02 or GPW-CB03. If you have backed up screen data, this step is unnecessary; skip to the next section [[3.4 Convert screen data with the Project Converter](#)].

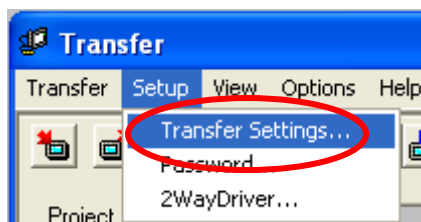
(1) Connect a transfer cable to the GP-2300 series.



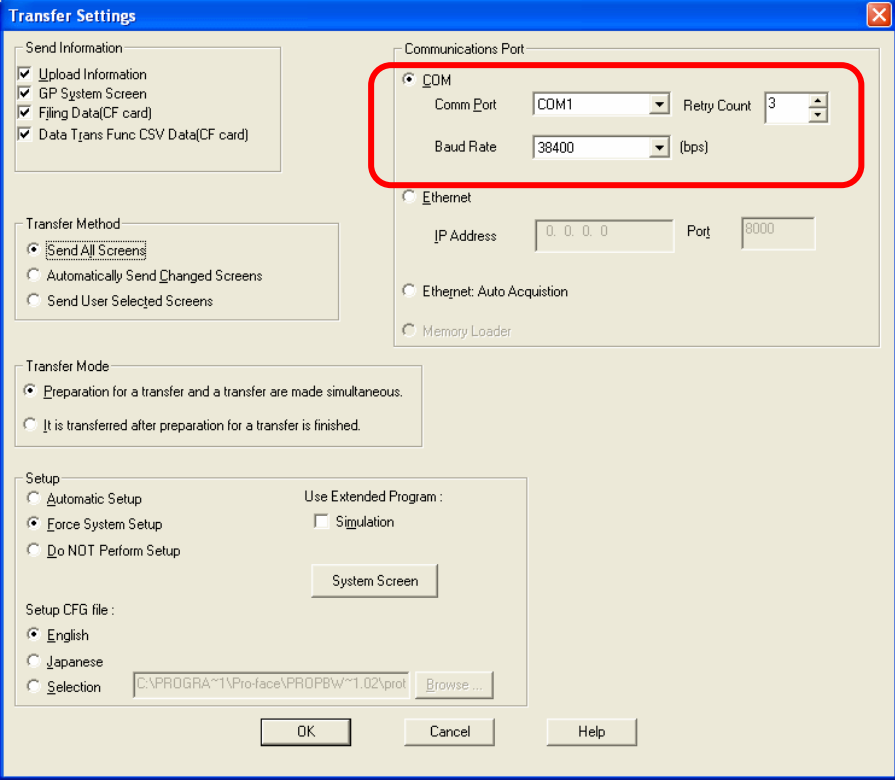
(2) Start up GP-PRO/PBIII for Windows and click the [Transfer] icon on the Project Manager (Specify a desired project file.)



(3) On the [Transfer] window, select the [Setup] menu and click [Transfer Settings.]



- (4) In the Communication Port field, select [COM], specify the COM port to which the cable is connected, and click [OK].



The image shows a 'Transfer Settings' dialog box with a blue title bar and a close button in the top right corner. The dialog is divided into several sections. The 'Send Information' section on the left has three checked items: 'Upload Information', 'GP System Screen', and 'Filing Data(CF card)'. Below it, the 'Transfer Method' section has three radio buttons, with 'Send All Screens' selected. The 'Transfer Mode' section has two radio buttons, with 'Preparation for a transfer and a transfer are made simultaneous.' selected. The 'Setup' section at the bottom left has three radio buttons: 'Automatic Setup', 'Force System Setup' (selected), and 'Do NOT Perform Setup'. To the right of these are checkboxes for 'Use Extended Program : Simulation' and a 'System Screen' button. Below the 'Setup' section is a 'Setup CFG file :' section with radio buttons for 'English' (selected), 'Japanese', and 'Selection', followed by a text field containing 'C:\PROGRAM~1\Pro-face\PROPBW~1.02\prot' and a 'Browse...' button. On the right side, the 'Communications Port' section is highlighted with a red rectangle. It contains a radio button for 'COM' (selected), a 'Comm Port' dropdown menu set to 'COM1', a 'Retry Count' spinner set to '3', and a 'Baud Rate' dropdown menu set to '38400 (bps)'. Below this is an 'Ethernet' section with an 'IP Address' field set to '0. 0. 0. 0', a 'Port' field set to '8000', and two radio buttons: 'Ethernet: Auto Acquisition' and 'Memory Loader'. At the bottom of the dialog are three buttons: 'OK', 'Cancel', and 'Help'.

Transfer Settings

Send Information

- ☒ Upload Information
- ☒ GP System Screen
- ☒ Filing Data(CF card)
- ☒ Data Trans Func CSV Data(CF card)

Transfer Method

- ☒ Send All Screens
- ☐ Automatically Send Changed Screens
- ☐ Send User Selected Screens

Transfer Mode

- ☒ Preparation for a transfer and a transfer are made simultaneous.
- ☐ It is transferred after preparation for a transfer is finished.

Setup

- ☐ Automatic Setup
- ☒ Force System Setup
- ☐ Do NOT Perform Setup

Use Extended Program :

- ☐ Simulation

System Screen

Setup CFG file :

- ☒ English
- ☐ Japanese
- ☐ Selection

C:\PROGRAM~1\Pro-face\PROPBW~1.02\prot

Browse...

Communications Port

- ☒ COM
- ☐ Ethernet
- ☐ Memory Loader

Comm Port: COM1

Retry Count: 3

Baud Rate: 38400 (bps)

IP Address: 0. 0. 0. 0

Port: 8000

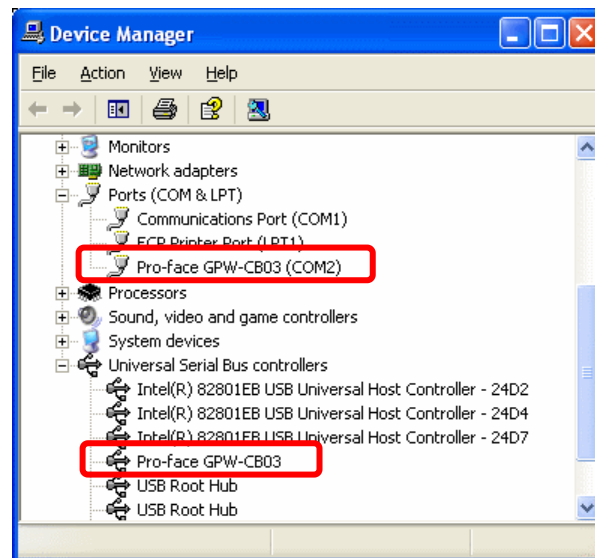
Ethernet: Auto Acquisition

OK Cancel Help

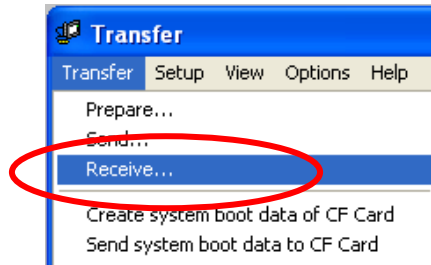
(5)

**If you use a USB transfer cable (GPW-CB03)**

You can check the COM port for the USB transfer cable (GPW-CB03), which is assigned to the PC, with the Device Manager of Windows.



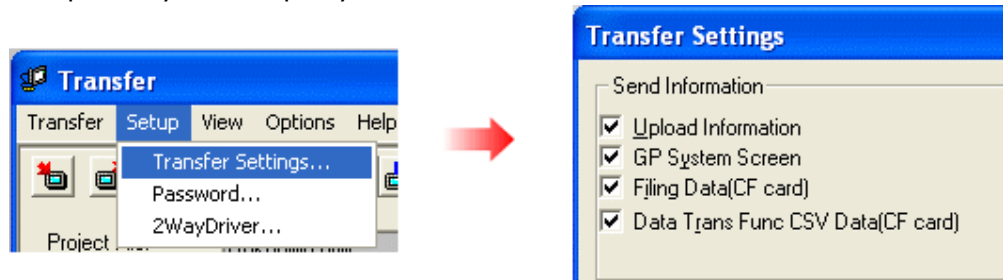
(6) Select the [Transfer] menu and click [Receive...].



(7) Specify the location to save the received screen data at and the project file name and save them.

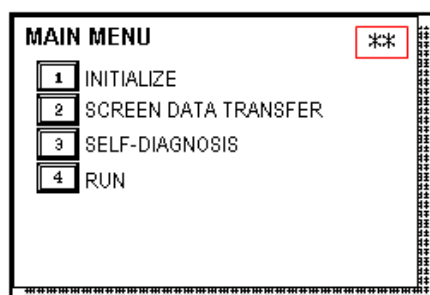
### In case there is no Upload Information

"Upload Information" is necessary to receive screen data from GP-2300 series. It needs to be included in screen data when transferring screen data to the display unit beforehand. The Upload Information is sent to the display unit by default, however, you may check off the box of Upload Information to prevent screen reception by a third party.



You can check in the following way if the Upload Information has been sent or not.

1. Enter into the GP's Offline mode.
2. If there are 2 asterisk (\*) marks in the Main menu as shown below, the Upload Information has been sent.

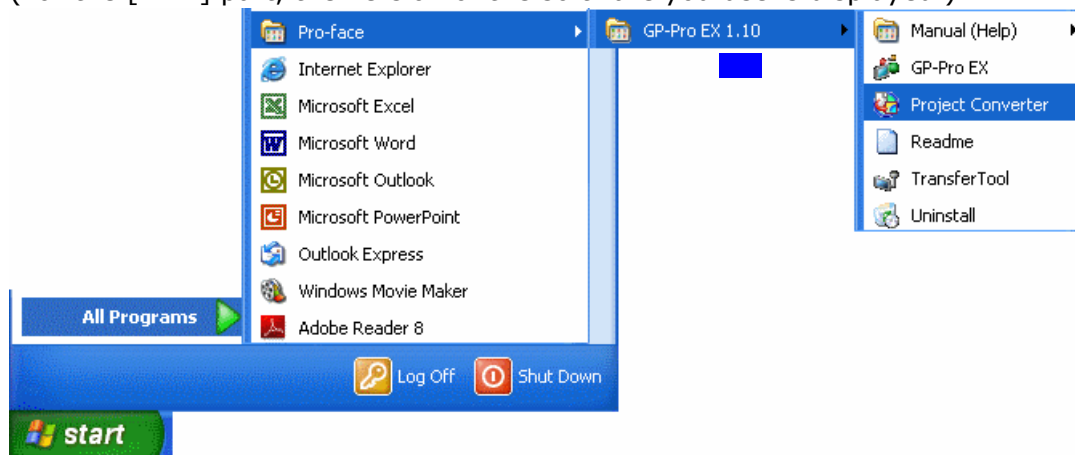


If not, there is no "Upload Information" sent. In this case, a message, which indicates there is no "Upload Information", appears and you cannot receive the data.

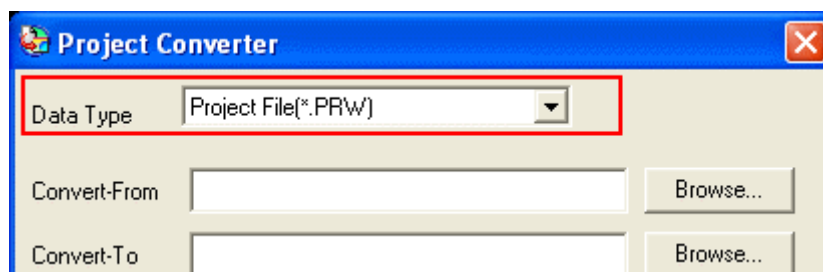
### 3.4 Convert screen data with the Project Converter

Convert a project file (\*.prw) for GP-2300 series with the GP-Pro EX's Project Converter.

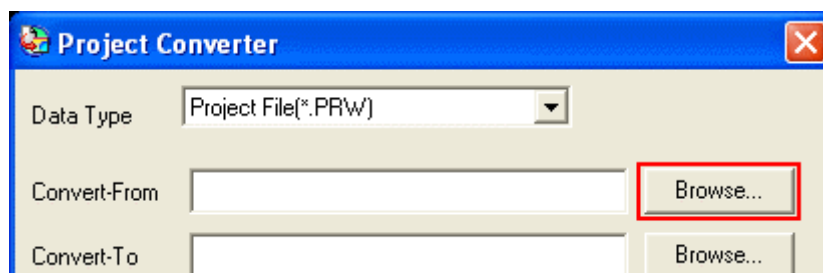
- (1) Click the [Start] button, select [All Programs] (or [Programs])->[Pro-face]-> [GP-Pro EX \*.\*\*]->[Project Converter]  
(For the [\*.\*\*] part, the version of the software you use is displayed.)

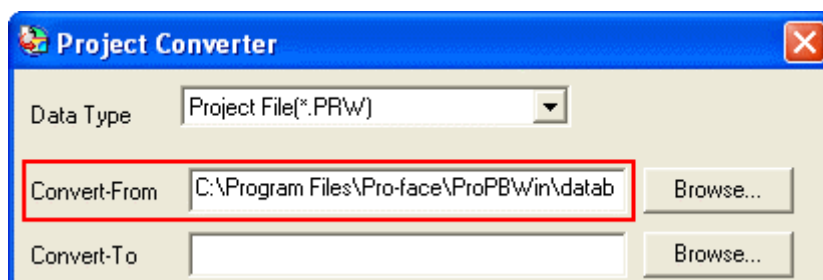
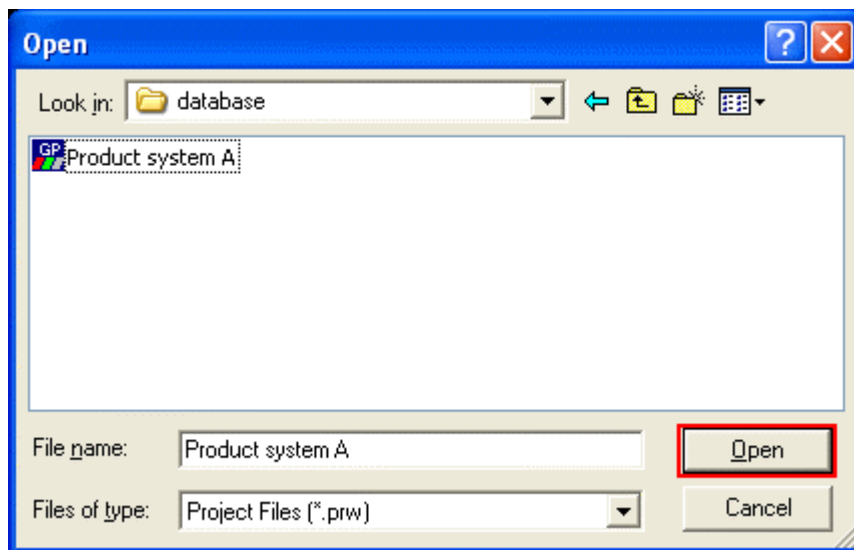


- (2) The Project Converter starts up and the [Project Converter] dialog box opens. Select [Project File (\*.PRW)] in the [Data Type].

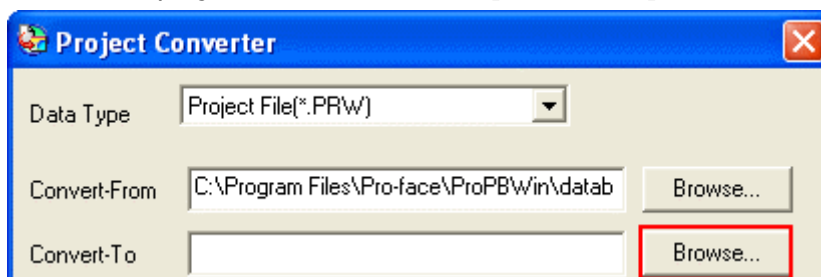


- (3) Click the [Browse...] button and select a project file (e.g.: "Project system A.prw"). Click [Open], and the file will be set in [Convert-From].

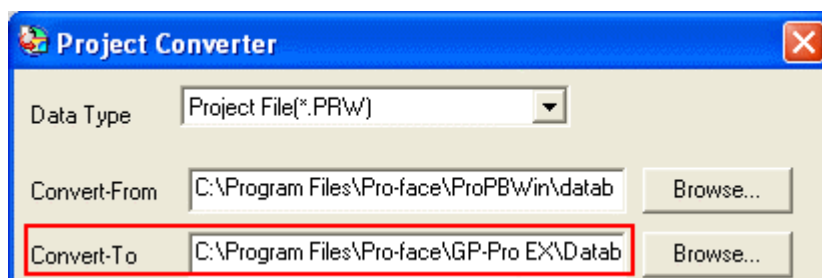
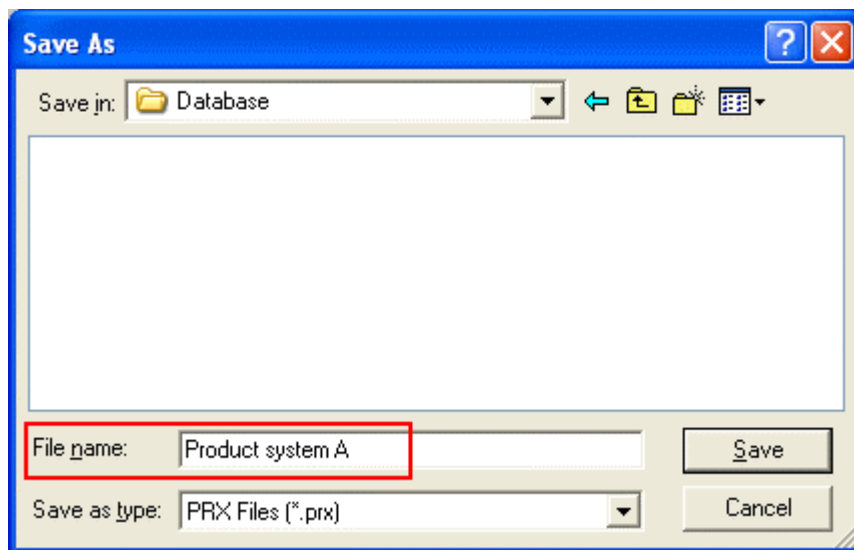




- (4) In [Convert-To], designate a GP-Pro EX's project file (\*.prx). Click the [Browse...] button and enter a new [File Name] (e.g.: "Product system A.prx"). Click [Save], and a new project file will be set to [Convert-To].

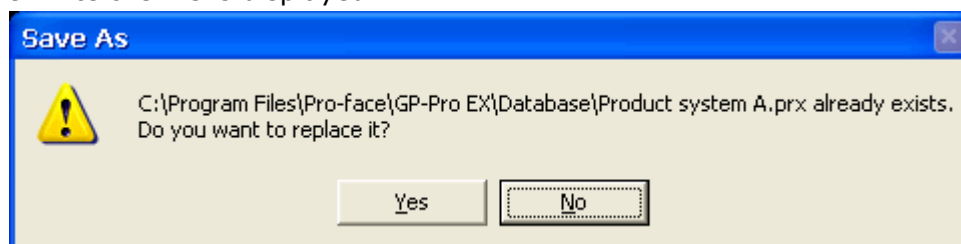




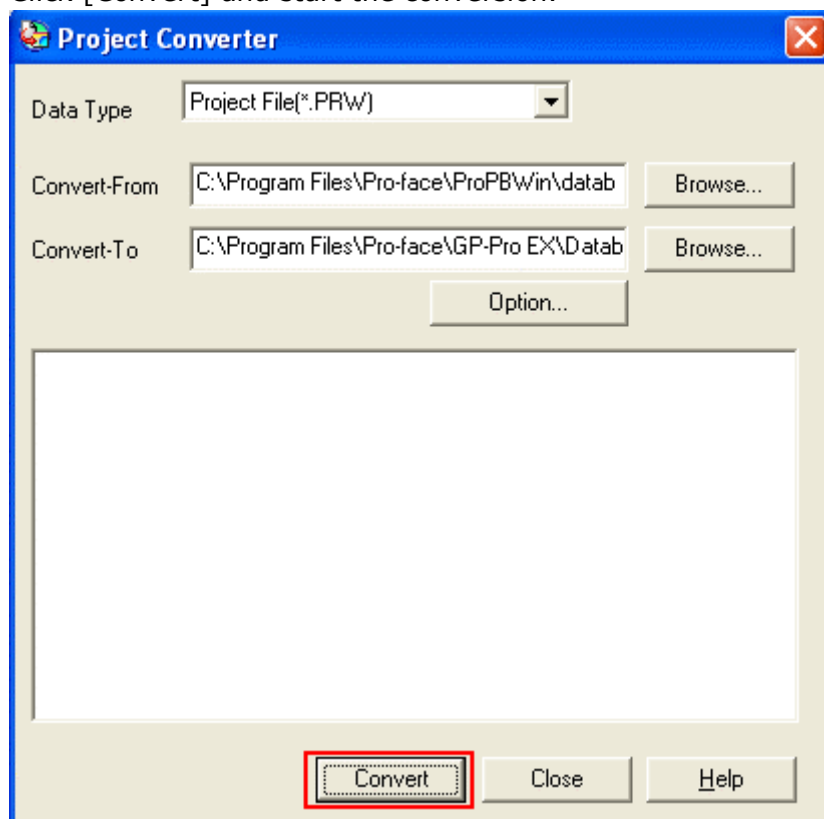


## NOTE

When a convert-to file exists, the window that confirms whether or not to overwrite the file is displayed.



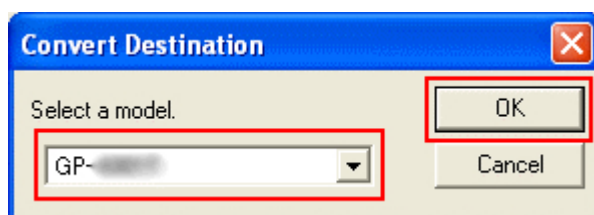
(5) Click [Convert] and start the conversion.

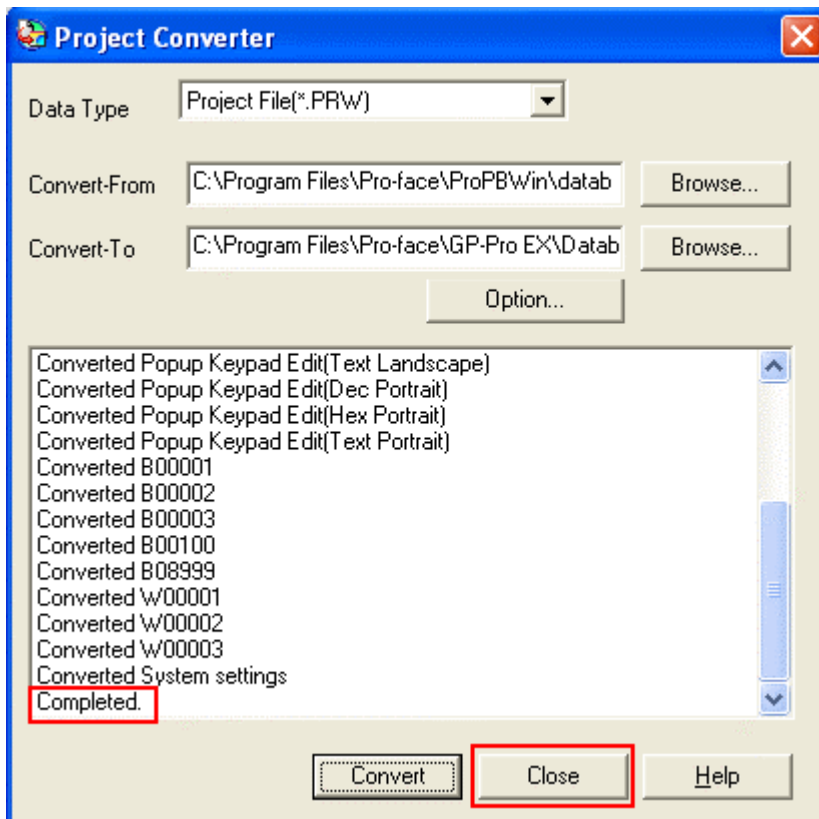


(6) If you are asked about the [Convert-To] type as shown below, select a replacement model's name on the pull-down menu. Click [OK].

**NOTE**

When replacing GP-2300L with GP-4301TW, select [GP-4301T] on the pull-down menu.





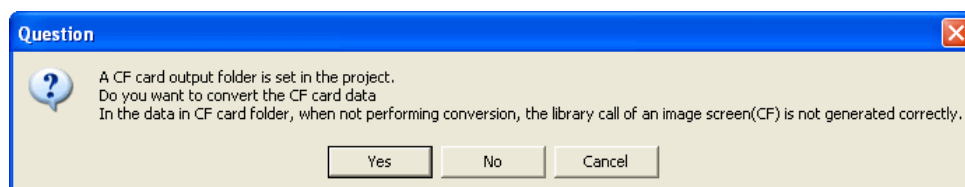
#### If an error message is displayed during conversion...

If an error message is displayed during conversion, refer to [[Project Converter Error Message](#)]

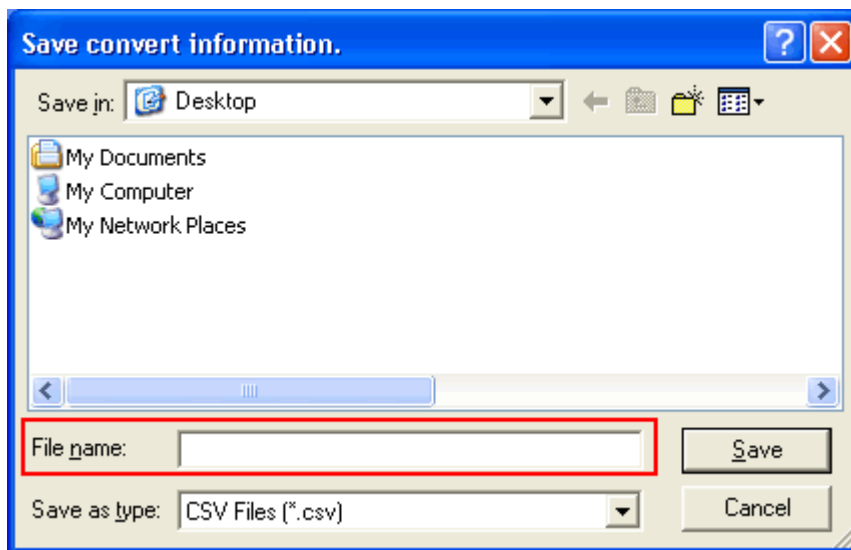
([http://www.pro-face.com/otasuke/qa/gp3000/replace/soft/conv/project\\_converter\\_error.html](http://www.pro-face.com/otasuke/qa/gp3000/replace/soft/conv/project_converter_error.html)) on our Web site called [OtasukePro!] for the cause and the solution.

#### NOTE

If the following dialog box appears, CF Card Output Folder setting is required. Please refer to [Convert GP-PRO/PBIII for Windows""Destination CF Card Folder"](#)



- (7) After conversion, the [Save convert information] dialog box appears. If you click [Save], you can save the conversion information in a CSV file format.

**NOTE**

Because the differences made at the time of conversion from GP-Pro/PBIII for Windows are described in the CSV saved file, the project file (\*.prx) after conversion can be checked and modified according to the conversion information.

(8) Click [Close] to close the [Project Converter] dialog box.

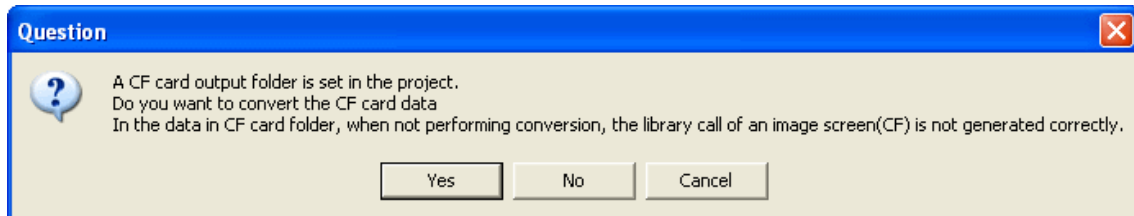
If you double click the project file (\*.prx) after conversion, GP-Pro EX will start and the file will open.

**IMPORTANT**

When the settings for the both COM1 and COM2 ports are configured for GP-2300T/S/L, the settings for the COM2 port are not converted on GP-Pro EX. If you still need the settings of the COM2 port for GP-2300T/S/L, add Device/PLC setting from [System Settings] on the [Project] menu of GP-Pro EX.

### Convert GP-PRO/PBIII for Windows “Destination CF Card Folder”

If you convert a project file (\*.prw) with a destination CF card folder designated in the step 6, the Question dialog box asking whether or not to designate the destination CF card folder for the convert destination appears again.



Select a folder (e.g.: "Database") and click [OK].

If you click the [Make New Folder] button, you can create a new folder at any location.



#### IMPORTANT

- In the [Question] dialog box, be sure to select [Yes] and specify the destination folder. If you select [No], images will not be called correctly.
- GP-4301T/TW that is a replacement model is not equipped with a CF card slot. If a destination folder is created in the work above, the CF card setting will be replaced with the SD card setting automatically.  
To check or change the destination folder setting, see [[5.1 Changing the setting of the external media to use](#)].

### 3.5 Change the Display Unit Type

(\* Only when replacing GP-2300L with GP-4301TW)

Open the project file (\*.prx) on GP-Pro EX that is converted in the Chapter 3.4 and change the display unit type to GP-4301TW.

- (1) Open the converted project file (\*.prx) on GP-Pro EX.
- (2) Click [System Settings]->[Display]->[Change Display] in [Project] menu and change the Display Unit type to "GP-4301TW".
- (3) Click [Project]->[Save] or [Save As] to save the change.

### 3.6 Transfer screen data to GP-4301T/TW

Transfer the project file after conversion to GP-4301T/TW.

You can transfer data to GP-4301T/TW via;

- An USB transfer cable (model: CA3-USBCB-01)
- An USB data transfer cable (model: ZC9USCBMB1)
- A commercial USB cable (USB Type A/mini B)
- A SD card (for GP-4301T only) /USB storage device
- Ethernet

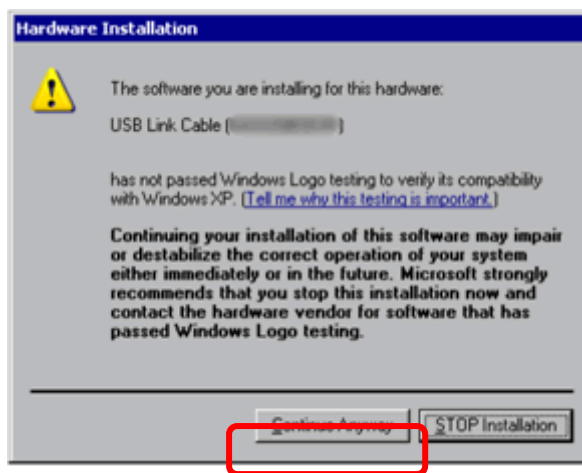
But this section explains, as an example, how to transfer screen data with an USB transfer cable (model: CA3-USBCB-01).



- (1) Connect your PC and GP-4301T/TW with an USB transfer cable (model: CA3-USBCB-01). If the driver of the cable has not been installed on you PC yet, a dialog box will appear. Please follow the instructions.

#### NOTE

- The "Hardware Installation" dialog box as shown below may appear during installing the USB driver depending on the security level of Windows® XP. Click [Continue Anyway] to start installing the driver. When installation is completed, click [Finish].

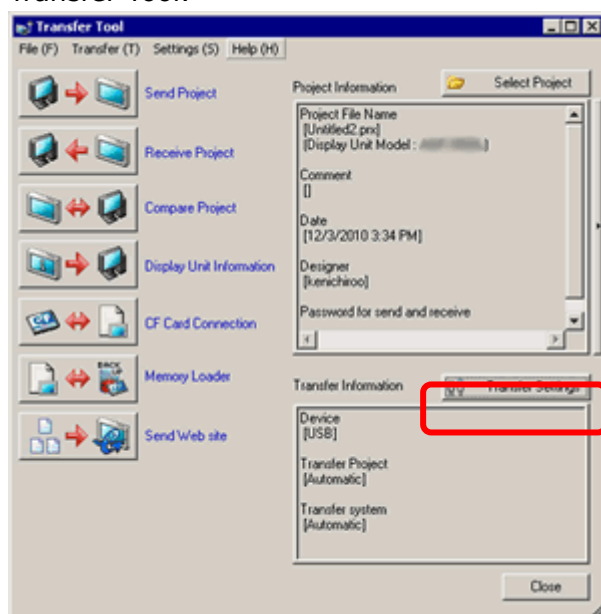


- If the following symptoms appear on Microsoft Windows® 7, go to updating "USB Data Transfer Driver" on [OtasukePro!] for download ([http://www.pro-face.com/otasuke/download/freesoft/gpproex\\_transfer.htm](http://www.pro-face.com/otasuke/download/freesoft/gpproex_transfer.htm)).
  - An error occurs when GP-Pro EX or Transfer Tool is installed
  - An error occurs when data is transferred via a USB transfer cable (model: CA3-USBCB-01).

- (2) Turn on the power of GP-4301T/TW. The "Initial Start Mode" screen will appear on the display unit. After transferring a project file once, this screen will not appear again.



- (3) On the GP-Pro EX's State Toolbar, click the [Transfer Project] icon to open the Transfer Tool.



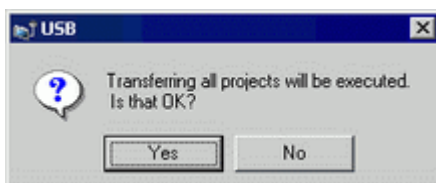
To transfer a different project file, click the [Select Project] button and select a project file.



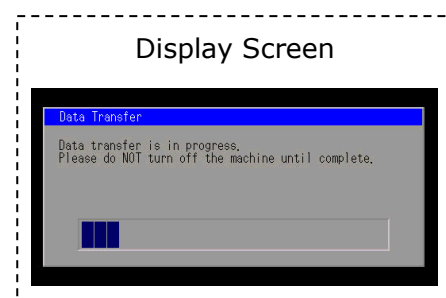
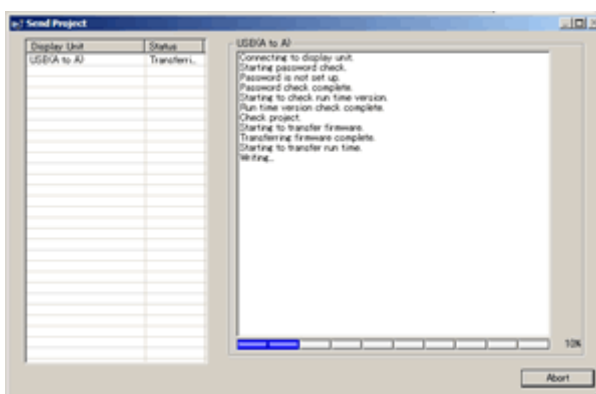
- (4) Make sure that the [Device] in the "Transfer Settings Information" is set to [USB]. If not, click the [Transfer Setting] button to open the "Transfer Setting" dialog box. Select [USB] in the Communication Port Settings field and click [OK].



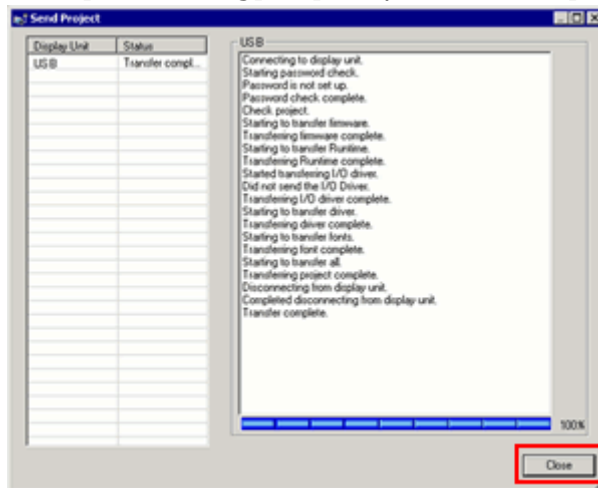
- (5) Click [Send Project] to start transfer. When the following dialog box appears, click [Yes]. This dialog box doesn't appear when the same project file is sent again.



- (6) The following dialog box appears during transfer and you can check the communication status. (The display unit enters the Transferring mode and communication with the device such as a PLC is terminated.)



- (7) When transfer is completed, the status displayed in the dialog box will change from [Transferring] to [Complete Transfer]. Click [Close] to close the dialog box.



The display unit will be reset and a screen of the transferred project file will be displayed.

- (8) Close the Transfer Tool.
- (9) Click the [X] mark on top right of the screen or [Project]->[Exit] to close GP-Pro EX.

### 3.7 Differences of software

#### 3.7.1 Differences after conversion

Check the differences of screen data after conversion from GP-PRO/PBIII to GP-Pro EX. For the details of each item, refer to our website,

<http://www.pro-face.com/otasuke/qa/gp3000/replace/soft/conv/care/3/>

#### Differences of Software

1	Touch Panel Type
2	Compatibility of Bit Switch
3	Compatibility of Alarm
4	Compatibility of Trend Graph
5	Compatibility of K tag (Input Order)
6	Compatibility of K tag (difference of Writing)
7	Compatibility of K tag (Indirect Setting)
8	Compatibility of N tag
9	Precautions for using the switch for [History Data Display] of Trend Graph on the window
10	About window display on a momentary switch during momentary operation
11	About the performance when a display area of the system window is overlapping
12	Change of Tag Process
13	About the display when a fixed Draw is placed on a Part
14	Compatibility of Text
15	Compatibility of Fill
16	Compatibility of CF Card Data
17	Precautions for conversion when filing data is saved in a CF card
18	Precautions for setting "Color Settings" to [256 Colors without blinking]
19	Precautions for loading a part with "L Tag (Library Display)"
20	Compatibility of MRK files and CPW files
21	Compatibility of V Tag/v tag and Video Screen
22	Compatibility of Extended SIO Script
23	Compatibility of Sound Data
24	Compatibility of Device Monitor
25	Compatibility of Ladder Monitor
26	Compatibility of J Tag and R Tag
27	Converting Screen Data of DOS

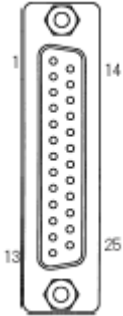
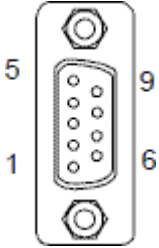
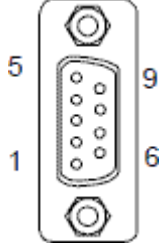
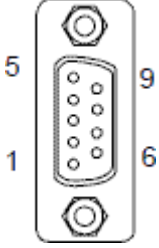
28	Compatibility of Standard Font
29	D Script starts right after screen change or power on. (Compatibility of D Script Trigger Condition)
30	The position shifts when loading a window screen (Compatibility of U Tag)
31	Precautions for using Screen Level Change
32	Compatibility of H tag

Chapter 4 Communication with Device/PLC

4.1 Drivers

More connectable drivers will be added.  
For the devices/PLC each driver supports, see [Connectable Devices]  
(<http://www.pro-face.com/product/soft/gpproex/driver/driver.html>).

4.2 Shapes of COM ports

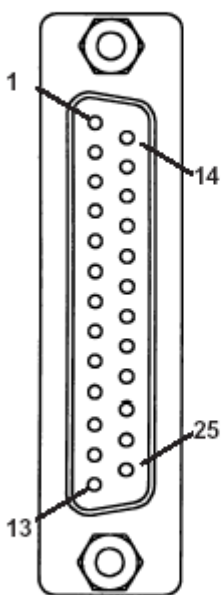
	GP-2300T/S/L	GP-2301T/S/L	GP-4301T/TW
COM1	D-Sub 25 pin (socket) RS-232C/422		D-Sub 9 pin (plug) RS-232C
			
COM2	D-Sub 9 pin (plug) RS-232C	-	D-Sub 9 pin (plug) RS-422/485
			

### 4.3 Signals of COM ports

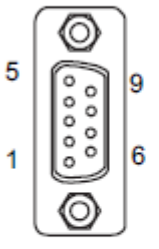
#### 4.3.1 Signals of COM1

For GP-2300 series

RS-232C or RS-422 (socket)

Pin Assignments	Pin #	Signal Name	Condition
(D-Sub 25pin female) 	1	FG	Frame ground
	2	SD	Send data (RS-232C)
	3	RD	Receive data (RS-232C)
	4	RS	Request send (RS-232C)
	5	CS	Clear send (RS-232C)
	6	DR	Data Set Ready (RS-232C)
	7	SG	Signal ground
	8	CD	Carrier detect (RS-232C)
	9	TRMX	Termination (RS-422)
	10	RDA	Receive data A (RS-422)
	11	SDA	Send data A (RS-422)
	12	NC	No connection (Reserved)
	13	NC	No connection (Reserved)
	14	VCC	5V±5% output 0.25A
	15	SDB	Send data B (RS-422)
	16	RDB	Receive data B (RS-422)
	17	RI	Ring Indicate (RS-232C)
	18	CSB	Clear send B (RS-422)
	19	ERB	Enable receive B (RS-422)
	20	ER	Enable receive (RS-232C)
	21	CSA	Clear send A (RS-422)
	22	ERA	Enable receive A (RS-422)
	23	NC	No connection (Reserved)
	24	NC	No connection (Reserved)
	25	NC	No connection (Reserved)

For GP-4301T/TW  
RS-232C (plug)

Pin Connection	Pin No.	RS-232C		
		Signal Name	Direction	Meaning
 <p>(GP unit side)</p>	1	CD	Input	Carrier Detect
	2	RD(RXD)	Input	Receive Data
	3	SD(TXD)	Output	Send Data
	4	ER(DTR)	Output	Data Terminal Ready
	5	SG	-	Signal Ground
	6	DR(DSR)	Input	Data Set Ready
	7	RS(RTS)	Output	Request to Send
	8	CS(CTS)	Input	Send possible
	9	CI(RI)/VCC	Input/-	Called Status Display +5V±5% Output 0.25A <sup>*1</sup>
	Shell	FG	-	Frame Ground (Common with SG)

\*1: RI and VICC of Pin 9 are switched on the software.

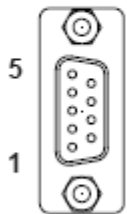
VCC Output is not protected from overcurrent.

Please follow the current rating to avoid false operation or breakdown.

#### 4.3.2 Signals of COM2

For GP-2300T/S/L

RS-232C (plug)

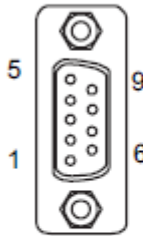
Pin Assignments	Pin No.	Signal Name	Signal Direction	Condition
(D-Sub 9pin male) 	1	CD	Input	Carrier detect (RS-232C)
	2	RD	Input	Receive data (RS-232C)
	3	SD	Output	Send data (RS-232C)
	4	ER	Output	Enable receive (RS-232C)
	5	SG	—	Signal Ground
	6	DR	Input	Data Set Ready (RS-232C)
	7	RS	Output	Request Send (RS-232C)
	8	CS	Input	Clear send (RS-232C)
	9	RI/VCC	Input/Output	Ring Indicate (RS-232C) +5V±5% 0.25A

For GP-2301T/S/L

N/A

For GP-4301T/TW

RS-422/485 (plug)

Pin Connection	Pin No.	RS-422/RS-485		
		Signal Name	Direction	Meaning
 (GP unit side)	1	RDA	Input	Receive Data A (+)
	2	RDB	Input	Receive Data B (-)
	3	SDA	Output	Send Data A (+)
	4	ERA	Output	Data Terminal Ready A (+)
	5	SG	-	Signal Ground
	6	CSB	Input	Send Possible B (-)
	7	SDB	Output	Send Data B (-)
	8	CSA	Input	Send Possible A (+)
	9	ERB	Output	Data Terminal Ready B (-)
	Shell	FG	—	Frame Ground (Common with SG)



#### 4.4 Multilink Connection

For GP-4301T/TW, some communication drivers do not support multi-link connection (n:1) via RS-422.

When converting the project file with the setting of the communication driver that does not support multi-link connection (n:1) via RS-422, the connection is automatically converted to (1:1).

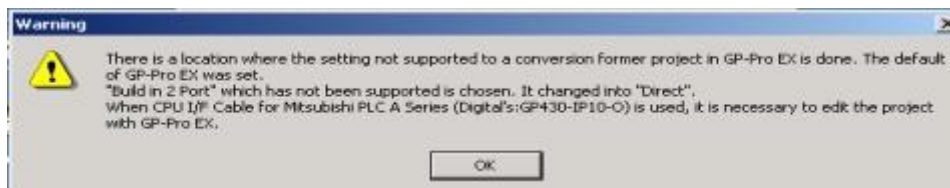
For the communication drivers that support serial multi-link, see [[Which drivers support serial multilink communication?](#)]

([http://www.pro-face.com/otasuke/files/manual/gpproex/new/device/com\\_mlnk.htm](http://www.pro-face.com/otasuke/files/manual/gpproex/new/device/com_mlnk.htm)).

#### 4.5 Internal 2-Port feature for Mitsubishi PLC

For GP-4501TW, the internal 2-Port feature for Mitsubishi PLC cannot be used.

If [GP Setup]->[Mode Settings]->[Option]->[Internal 2 port] is selected on GP-PRO/PBIII, the following message will appear when converting the project file with the GP-Pro EX Project Converter.



#### 4.6 Cable Diagram at the time of replacement

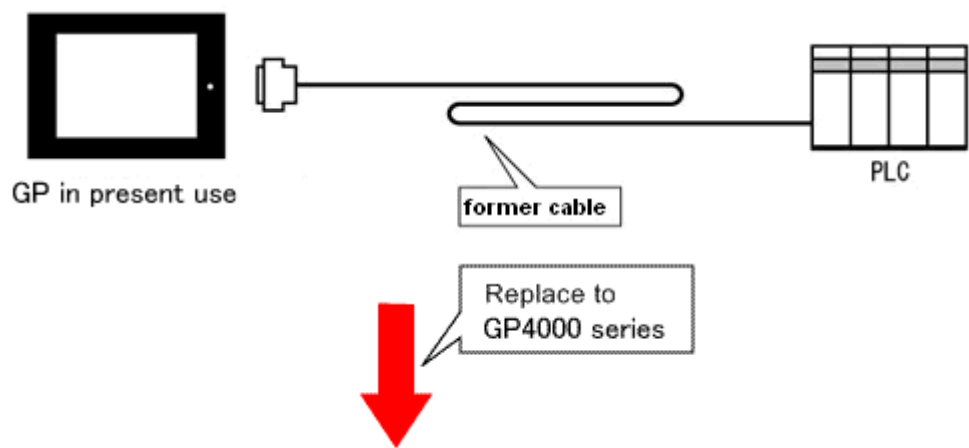
The connection cable for GP-2300 series can be used for GP-4301T/TW.

But please note that there are precautions and restrictions as described below.

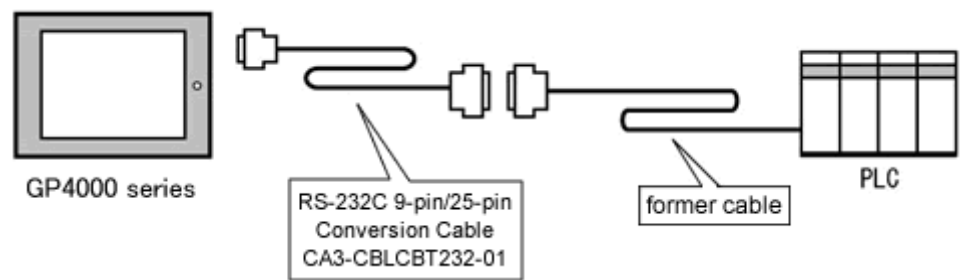
##### IMPORTANT

- Please check the connection configurations GP-4301T/TW supports with GP-Pro EX Device/PLC Connection Manual before using a connection cable.  
(<http://www.pro-face.com/otasuke/files/manual/gpproex/new/device/index.htm>)
- **The Siemens MPI connection cable, MPI adapter (GP070-MPI-41)** cannot be used.  
Please refer to the above-mentioned GP-Pro EX Device/PLC Connection Manual and prepare a connection cable for GP-4301T/TW newly.
- When using Mitsubishi PLC A/QnA series (CPU Direct), please refer the following notes,
  - [When using GP430-IP10-O/ GP430-IP11-O,](#)  
Refer > 4.6.1 When using a RS-232C connection cable > When using CPU I/F Cable for Mitsubishi PLC...
  - [When using GP2000-CBLA/5M-01 \(\\* including User-created cable\)](#)  
Refer > 4.6.2 When using a RS-422 connection cable > When using Mitsubishi A/QnA series (CPU Direct) connection cable (GP2000-CBLA/5M-01)
  - [When using GP2000-CBLFX/5M-01, GP2000-CBLFX/1M-01\(\\* including User-created cable\)](#)  
Refer > 4.6.2 When using a RS-422 connection cable > When using Mitsubishi FX series (CPU Direct) connection cable (GP2000-CBLFX/5M-01, GP2000-CBLFX/1M-01)

4.6.1 When using a RS-232C connection cable  
 GP-2300 series System Configuration (connecting to **COM1**)



GP-4301T/TW System Configuration (connecting to **COM1**)



To replace GP-2300 series with GP-4301T/TW, prepare the following item.

Product Name	Model
RS-232C 9-pin/25-pin Conversion Cable (20cm)	CA3-CBLCBT232-01

**When using CPU I/F Cable for Mitsubishi PLC...**

When using CPU I/F Cables for Mitsubishi PLC (GP430-IP10-O/ GP430-IP11-O) with GP-2300 series, be sure to select "VCC" in the Device/PLC Setting on GP-Pro EX after converting a project file, or the communication will not work properly.

RI / VCC

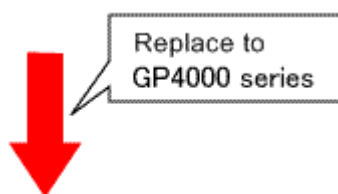
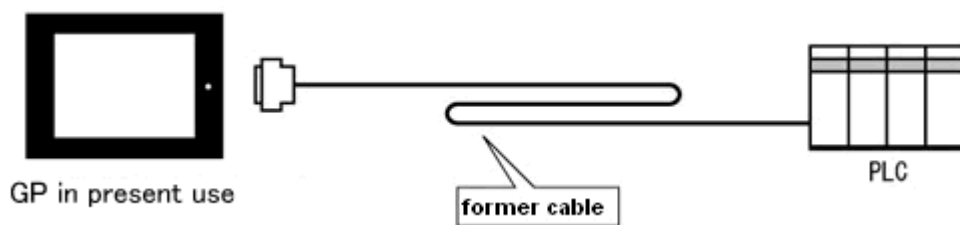
☐ RI
 ☒ VCC

In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.

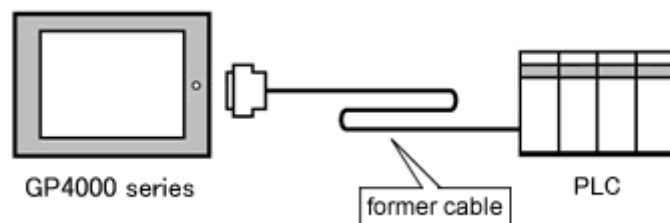
To change this setting, select [System Settings] -> [Device/PLC] in the [Project] menu on GP-Pro EX.

\* For GP-2300T/S/L only:

GP-2300T/S/L System Configuration (connecting to **COM2**)



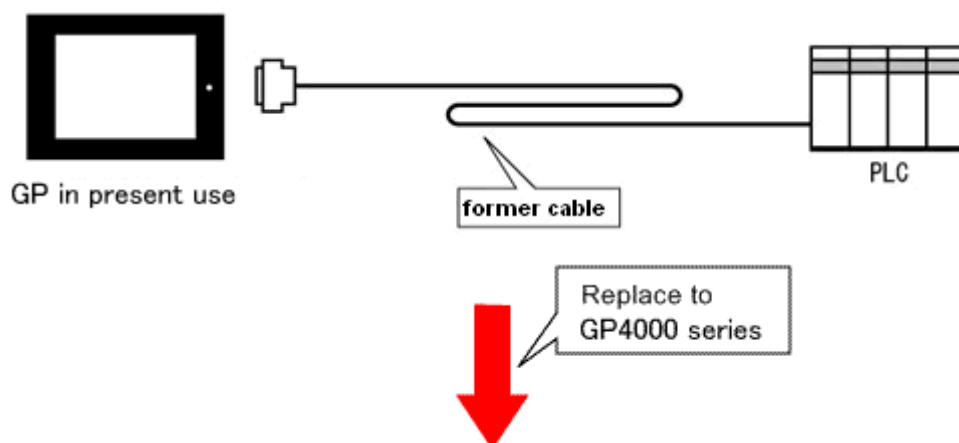
GP-4301T/TW System Configuration (connecting to **COM1**)



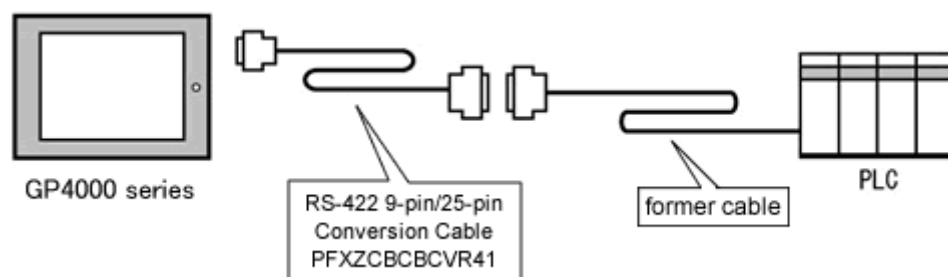
\*The same cable can be used.

#### 4.6.2 When using a RS-422 connection cable

GP-2300 series System Configuration (connecting to **COM1**)



GP-4301T/TW System Configuration (connecting to **COM2**)



#### IMPORTANT

Before connecting to GP-4301T/TW, be sure to change the port setting to **[COM2]** on Device/PLC Setting of GP-Pro EX. Please check the communication setting with GP-Pro EX Device/PLC Connection Manual just in case.

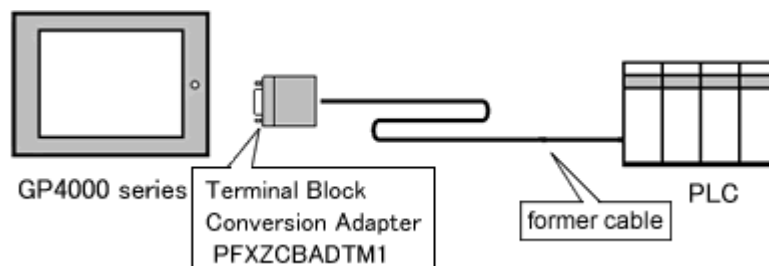
(<http://www.pro-face.com/otasuke/files/manual/gpproex/new/device/index.htm>)

To replace GP-2300 series with GP-4301T/TW, prepare the following item.

Product Name	Model
RS-422 9-pin/25-pin Conversion Cable (20cm)	PFXZCBCBCVR41

## NOTE

When using a terminal block adapter (GP070-CN10-O), we recommend you to replace it with a terminal block conversion adapter (PFXZCBADTM1) for GP-4301T/TW.

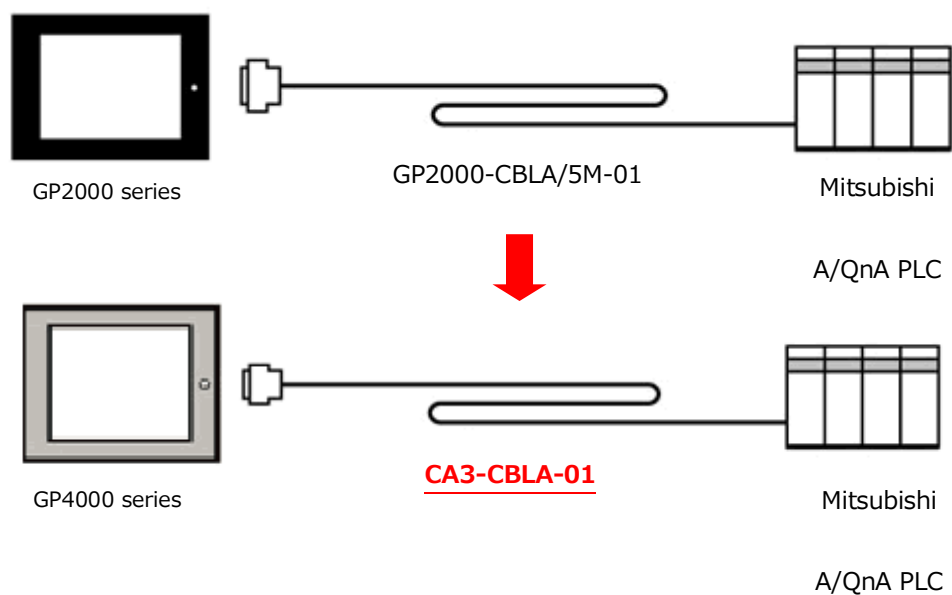


For replacement in this connection method, prepare the following item.

Product Name	Model
Terminal Block Conversion Adapter	PFXZCBADTM1

When using Mitsubishi A/QnA series (CPU Direct) connection cable  
(GP2000-CBLA/5M-01) \* Including User-created cable

**9/25-pin Conversion Cable cannot be used.**  
**Please replace to Mitsubishi A connection cable by Pro-face**  
**(CA3-CBLA-01).**



**Not available options for 4000 series**

RS-422 9/25-pin Conversion Cable (20cm) (PFXZCBCBCVR41)

COM Port Conversion Adapter (CA3-ADPCOM-01)

+ RS-422 9/25-pin Conversion Cable (20cm) (CA3-CBLCBT422-01)

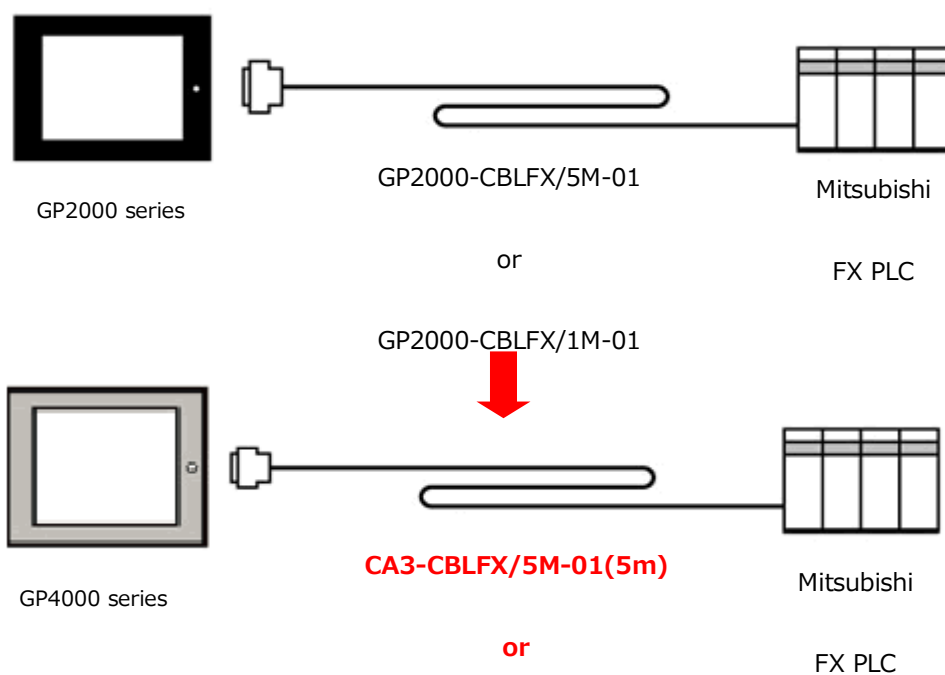
When using Mitsubishi A/QnA series (CPU Direct) connection cable  
(GP2000-CBLFX/5M-01, GP2000-CBLFX/1M-01)

\* Including User-created cable

**9/25-pin Conversion Cable cannot be used.**

**Please replace to Mitsubishi FX connection cable by Pro-face**

**(CA3-CBLFX/5M-01(5m) or CA3-CBLFX/ 1 M-01(1m)) .**



**CA3-CBLFX/ 1M-01(1m)**

**Not available options for 4000 series**

RS-422 9/25-pin Conversion Cable (20cm) (PFXZCBCBCVR41)

COM Port Conversion Adapter (CA3-ADPCOM-01)

+ RS-422 9/25-pin Conversion Cable (20cm) (CA3-CBLCBT422-01)

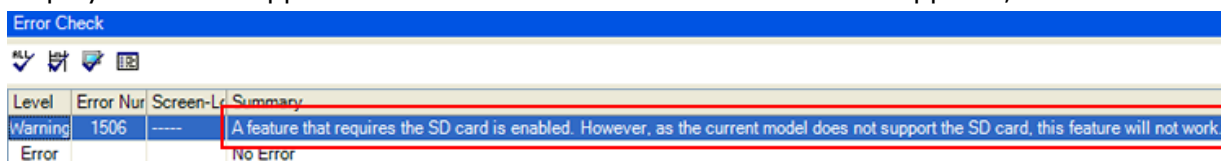


## Chapter 5 Appendix

### 5.1 Changing the setting of the external media to use

If a CF card has been used for GP-PRO/PBIII, after GP-2300 series is replaced with GP-4301T/TW with GP-Pro EX, "a CF card" is automatically replaced with "a SD card" for the external media setting.

- (1) After conversion of the project file data, at GP-Pro EX Error Check, if the message, "The project contains features that require a SD card. However, the selected display does not support SD cards so these features will not run." appears,



<Cause>

The model without a SD card slot has the setting that uses a SD card.

->[Solution 1](#)

- (2) To use a USB storage device instead of a SD card ->[Solution 1](#)

- (3) To check or change the SD card's data output destination folder setting

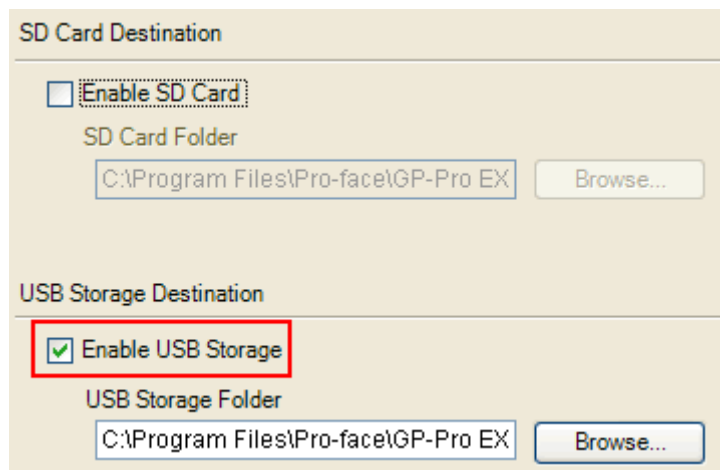
->[Solution 2](#)

#### [Solution]

1. Change the SD Card setting to the USB storage setting following the steps below.

<Procedure>

- Click [Project]->[Information]->[Destination Folder].
- Uncheck "Enable SD Card" and check "Enable USB Storage".



iii. Click the [Browse] button and specify a destination folder.

The screenshot shows a dialog box titled "SD Card Destination" and "USB Storage Destination". Under "SD Card Destination", the "Enable SD Card" checkbox is unchecked. The "SD Card Folder" text box contains the path "C:\Program Files\Pro-face\GP-Pro EX" and the "Browse..." button is visible. Under "USB Storage Destination", the "Enable USB Storage" checkbox is checked. The "USB Storage Folder" text box contains the same path "C:\Program Files\Pro-face\GP-Pro EX", and the "Browse..." button is highlighted with a red rectangle.

iv. Click [OK] to confirm the setting.

v. Click [Project]->[Save] to save changes.

vi. Check each function that uses the CF card and replace the setting of [SD Card] with the one of [USB Storage].

#### NOTE

- To see how the tags or the parts of GP-PRO/PBIII for Windows are replaced on GP-Pro EX, refer to [OtasukePro!] (<http://www.pro-face.com/>)  
"Feature Comparison between GP-PRO/PBIII and GP-Pro EX"  
(<http://www.pro-face.com/otasuke/qa/gp3000/replace/soft/conv/care/3/compare.htm>)
- To check each function setting of GP-Pro EX, refer to GP-Pro EX Reference Manual.

2. Check and change the destination folder setting following the steps below.

i. Click [Project]->[Information]->[Destination Folder].

ii. The current setting is displayed.

The image shows a settings dialog box with two sections. The top section is titled "SD Card Destination" and contains an unchecked checkbox labeled "Enable SD Card". Below this is a text field labeled "SD Card Folder" containing the path "C:\Program Files\Pro-face\GP-Pro EX", followed by a "Browse..." button. The bottom section is titled "USB Storage Destination" and contains a checked checkbox labeled "Enable USB Storage". Below this is a text field labeled "USB Storage Folder" containing the same path "C:\Program Files\Pro-face\GP-Pro EX", followed by a "Browse..." button.

SD Card Destination

☐ Enable SD Card

SD Card Folder

C:\Program Files\Pro-face\GP-Pro EX    Browse...

USB Storage Destination

☒ Enable USB Storage

USB Storage Folder

C:\Program Files\Pro-face\GP-Pro EX    Browse...

- iii. After changing it, click [OK] to confirm the setting.
- iv. Click [Project]->[Save] to save changes.