Pro-face

Easy! Smooth!

ST40X Series -> GP4X01TM

Replacement Guidebook

Preface

This guidebook introduces the procedures to replace a unit in the ST40X series (ST-400/401/403) with a GP4X01TM unit. The recommended replacement models are as follows;

Model in use	Replacement model
ST-400	**GP-4201TM**
ST-401	
ST-403	

First Edition: Sept 2011

Table of Contents

Chapter 1 Specification Comparison

1.1 Specifications of ST-40X series and GP-4201TM

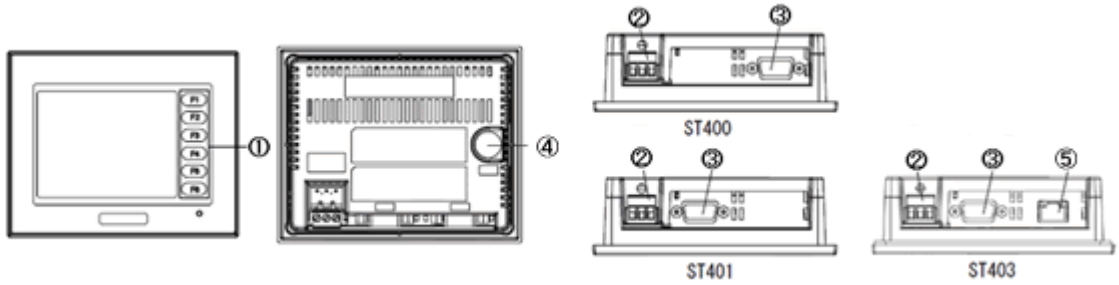
			ST-40X series	GP-4201TM
				
Display Type			Monochrome LCD	NEW! TFT Color LCD
Display Colors, Levels			Monochrome, 2 levels/ Monochrome, 8 levels	UP! 65,536 colors
Display Resolution			QVGA (320 x 240 pixels)	
Panel Cutout Dimensions (mm)			118.5 (W) x 92.5 (H)	NEW! ϕ22mm -> See 2.4
External Dimensions (mm)			130(W) x 104(H) x 41(D)	NEW! 118(W) x 98.15(H) x 56.3(D) *The main module is included. -> See 2.5
Touch Panel Type			Matrix	NEW! Resistive film (Analog) -> See 2.2
Memory	**Application**		640 KB	UP! 8MB
	Backup		96 KB	128KB -> See 2.9
Serial I/F	**COM1**	**ST-400**	9 pin D-Sub (male) RS-422	NEW! 9 pin D-Sub (male) RS-232C/422/485 -> See 2.8
		ST-401	9 pin D-Sub (male) RS-232C	
		ST-403	9 pin D-Sub (male) RS-232C/422	
Ethernet I/F		**ST-400**	-	UP! 10BASE-T/100BASE-TX
		ST-401		
		ST-403	10BASE-T	
USB Host I/F			-	NEW! ✔ -> See 2.6

Chapter 2. Compatibility of Hardware

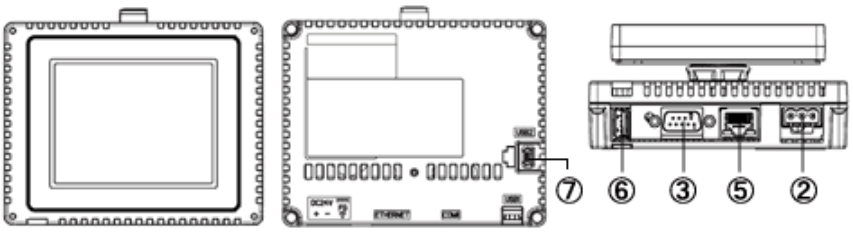
2.1 Locations of connectors

Connector locations on ST40X series and GP-4201TM are as follows:

ST-400/401/403



GP-4201TM



Interface names

	ST40X series	GP-4201TM
1	Function Switch	-
2	Power Plug Connector	
3	Serial Interface (COM1)	
4	Tool Connector	-
5	Ethernet Interface *1	
6	-	USB Interface (Type A)
7	-	USB Interface (miniB)

*1: Only ST-403 and GP-4201TM have this interface.

2.2 Touch panel specifications

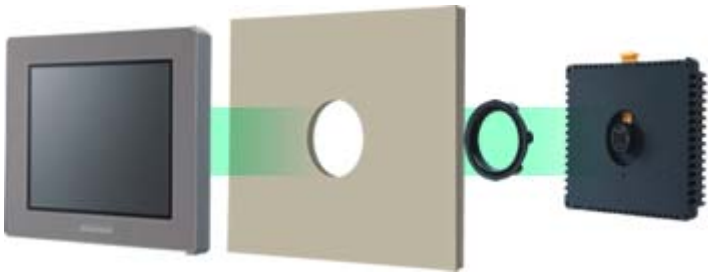
The touch panel type for GP-4201TM is “Resistive Film (Analog) type.” The Resistive Film (Analog) type doesn’t recognize the touch input even if you touch two points at the same time. Please do not touch two points at the same time. If you touch two points at the same time, it’s recognized that the coordinates located between those two points are touched.
If you have applied the two-point touch input on ST40X series, we recommend you to change to the one-point touch input using the switch delay function of GP-Pro EX.

2.3 Display Colors

ST40X series has monochrome LCD, but GP-4201TM has TFT Color LCD. After replacement, the black and white display changes to the color display.
When data of a monochrome model are converted to a color model with GP-Pro EX, the data may be displayed in colors except black and white depending on a setting of GP-PRO/PBIII. After conversion, please confirm the display colors of drawing or parts on screens just in case.

2.4 Panel cutout dimensions

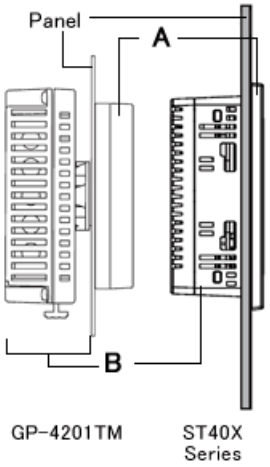
The panel cutout of GP-4201TM is a ϕ22-mm circular hole. The panel cutout shape and dimensions of GP-4201TM are different from those of ST40X series.



2.5 External Dimensions

For GP-4201TM, the front face display module (display part) and the back face main module are separated. Compared with ST40X series, the tickness of the part appearing on the installation panel differs.

	ST40X series	GP-4201TM
A (the thickness of the front bezel)	5mm	16.2mm
B (the depth of the back face)	36mm	40.1mm



2.6 Transfer cable

To transfer screen data to GP-4201TM, use a USB transfer cable or Ethernet. Use a USB data-transfer cable (model: ZC9USCBMB1) or a commercial USB cable (USB A/mini-B). Please note that the cables (GPW-CB02, GPW-CB03, GP430-CU02-M) for ST40X series cannot be used for GP-4201TM.

2.7 Function Switch

GP-4201TM does not have any function switches. In order to use the functions of the function switches set on ST40X series, make settings of the switches replacing the function switches with GP-Pro EX.

2.8 Serial interface

The communication cable for ST40X can be used for GP-4201TM.

2.9 Memory

GP-4201TM does not have SRAM, but uses a part of application memory as a backup area. Data in the backup area is retained even after power off or reset of GP-4301TM in the same way as SRAM. The functions possible for backup on GP-4201TM are as follows:

- Alarm History (Up to 768)
- Recipe (Filing data)
- Brightness/Contrast values

*For the functions above, data is saved in the backup area at the time of ‘Save’.

*Sampling and clock data is not backed up.

2.10 Peripheral units and option units

2.10.1 Barcode reader connection

GP-4201TM is not equipped with a tool port. A barcode reader that was connected from the tool port on ST40X series cannot be used. However, GP-4201TM allows you to connect a barcode reader on its USB interface (Type A).

For the models GP-4201TM supports, see [Otasuke Pro!] (http://www.pro-face.com/otasuke/).

And if you connect a barcode reader to GP-4201TM, be sure to supply power to the barcode reader from an external power source (such as a USB hub supporting self-power supply). When no power is supplied from an external power source, if the barcode reader consumes more electricity than expected, operation of GP-4201TM will become unstable and reset may be activated.

2.11 Power Consumption

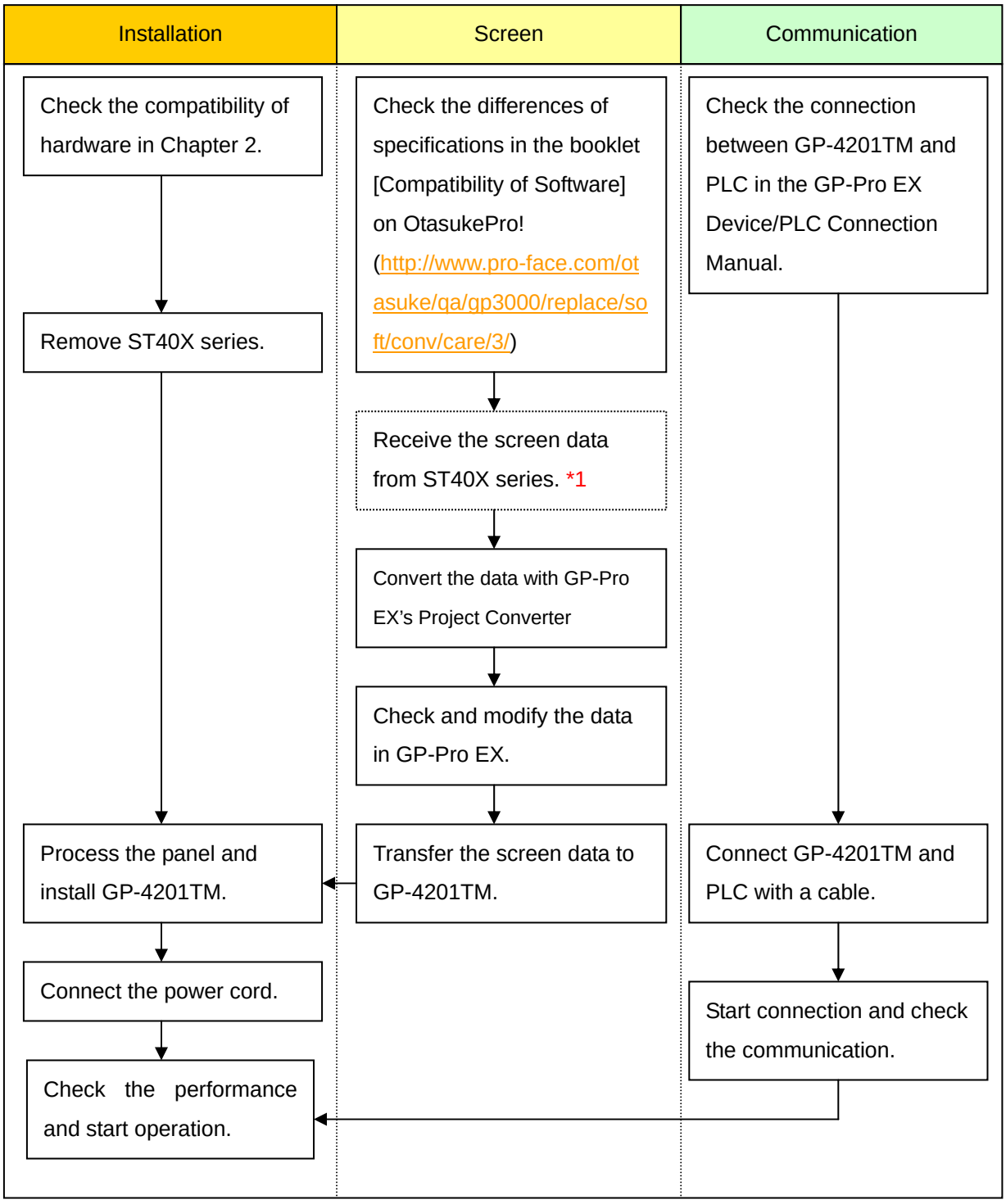
The power consumption of ST40X series is differenct from that of GP-4201TM.

ST40X series	GP-4201TM
7W or lower	6.5W or lower

For the detailed electric specifications, see the hardware manual.

Chapter 3 Replacement Procedure

3.1 Work Flow



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

3.2 Preparation

<table>
<tr><td>Requirements for receiving screen data from ST40X series *1</td><td>PC in which GP-PRO/PBIII for Windows with the following version is installed. *2<table><tr><td>ST400, 401</td><td>GP-PRO/PBIII for Windows C-Package03 V7.0 or later</td></tr><tr><td>ST403</td><td>GP-PRO/PBIII for Windows C-Package03 V7.20 or later</td></tr></table></td></tr>
<tr><td></td><td>USB data-transfer cable (the following three kinds can be used.)
・ GPW-CB02 (9 pin D-sub to the PC)
・ GPW-CB03 (USB to the PC *3)
・ GP430-CU02-M or GPW-SET (25 pin D-sub to PC)
For ST-403, it’s possible to receive screen data on Ethernet.</td></tr>
<tr><td rowspan="2">Requirements for converting screen data of ST40X series and transferring to GP-4201TM</td><td>PC in which GP-Pro EX Ver.2.71 or later is installed.</td></tr>
<tr><td>A USB data-transfer cable (model: ZC9USCBMB1) or
A commercial USB cable (USB A/mini-B)
*GP-4201TM also allows you to transfer screen data via USB flash drive or on Ethernet.</td></tr>
</table>

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

*2: The software version must be the same or higher than the version that you used when creating screen data for the ST40X series.

We recommend you upgrade to the latest version, which is GP-PRO/PB3 for Windows C-Package03 (SP2) Ver. 7.29. If the version of GP-PRO/PB3 for Windows C-Package03 that you currently use is version 7.0, upgrade it on our website Otasuke Pro! (http://www.pro-face.com/otasuke/)

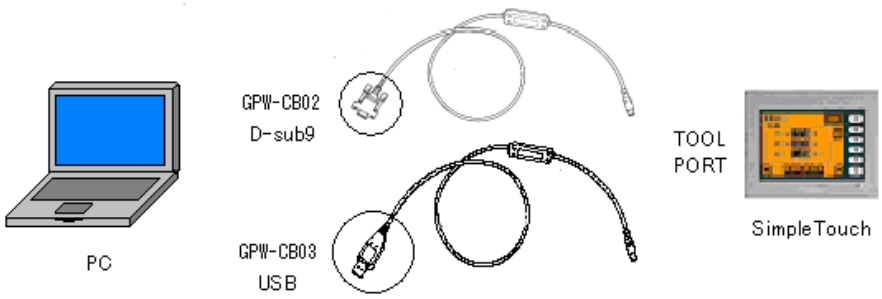
*3 GPW-CB03 is compliant with GP-PRO/PBIII for Windows C-Package02 (SP2) Ver. 6.23 or later.

Also, to use it, you may need to Install the driver on our website OtasukePro! (http://www.pro-face.com/otasuke/).

3.3 Receive screen data from ST40X series

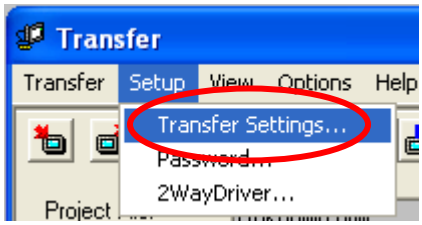
This section explains, as an example, how to receive screen data from ST40X series using a transfer cable, GPW-CB02 or GPW-CB03. If you have backed up screen data, this step is unnecessary; skip to the next section [3.4 Convert screen data with the Project Converter].

1. Connect a transfer cable to ST40X series.

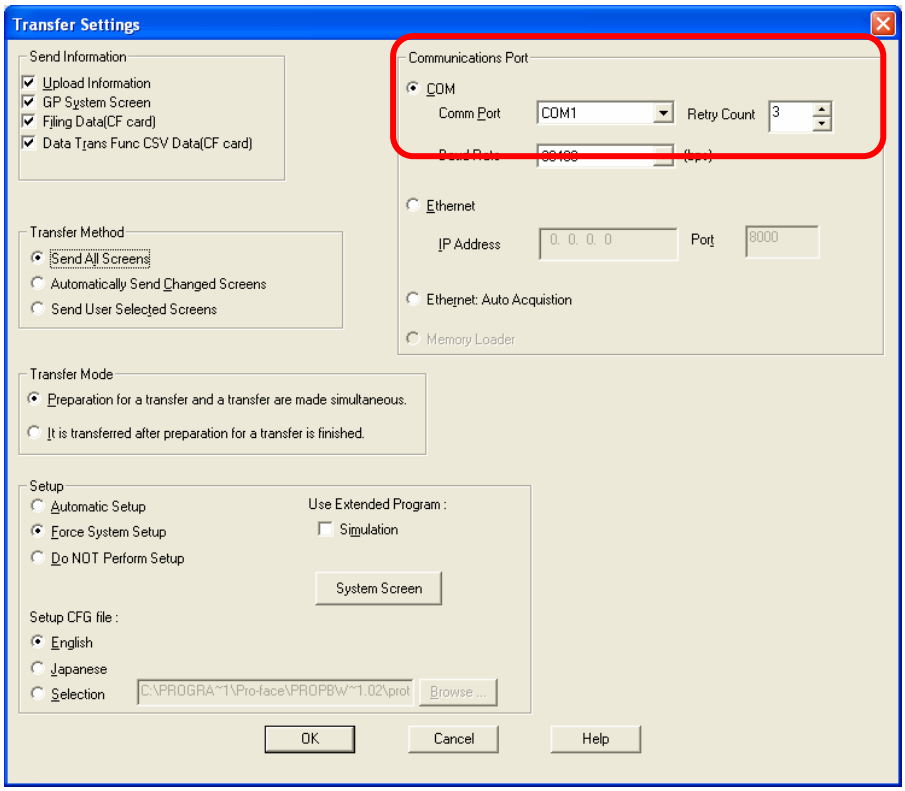


2. Start up GP-PRO/PB3 C-Package and click the [Transfer] icon on the Project Manager. (Specify a desired project file.)

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

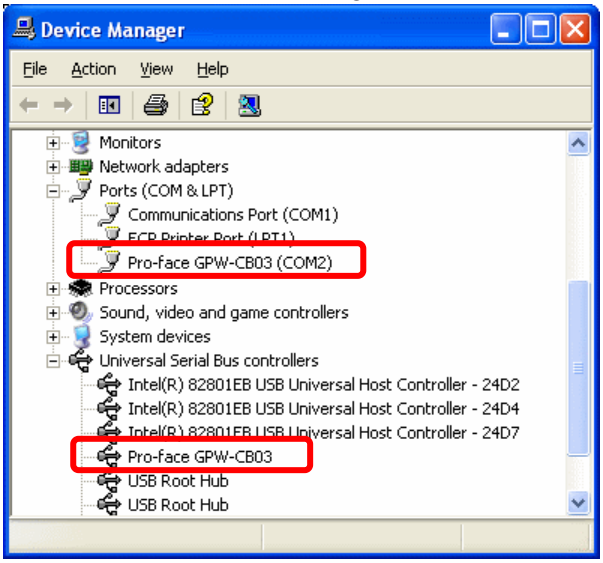


4. In the Communication Port field, select [COM], specify the COM port to which the cable is connected, and click [OK].

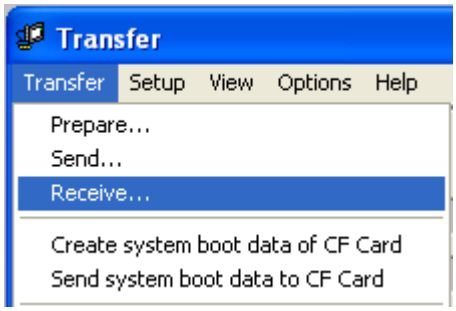


If you use a USB transfer cable (GPW-CB03)…

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.



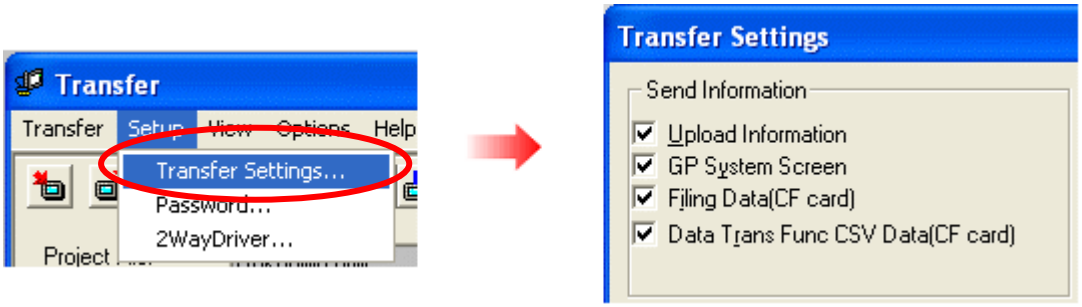
5. Select the [Transfer] menu and click [Receive…].



Specify the location to save the received screen data in and the project file name and save.

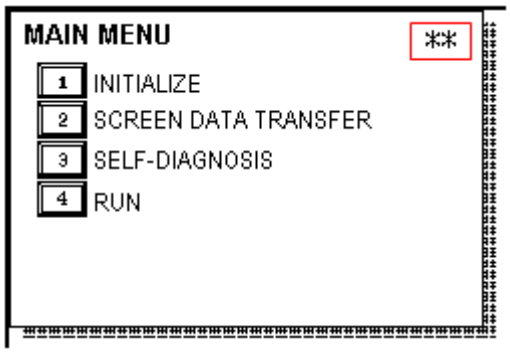
In case there is no Upload Information…

"Upload Information" is necessary to receive screen data from ST40X 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 if the Upload Information has been sent or not in the following way.

Enter into the ST40X's Offline mode. If there are 2 asterisk (*) marks in the Main menu as below, the Upload Information has been sent. If not, there is no Upload Information sent.

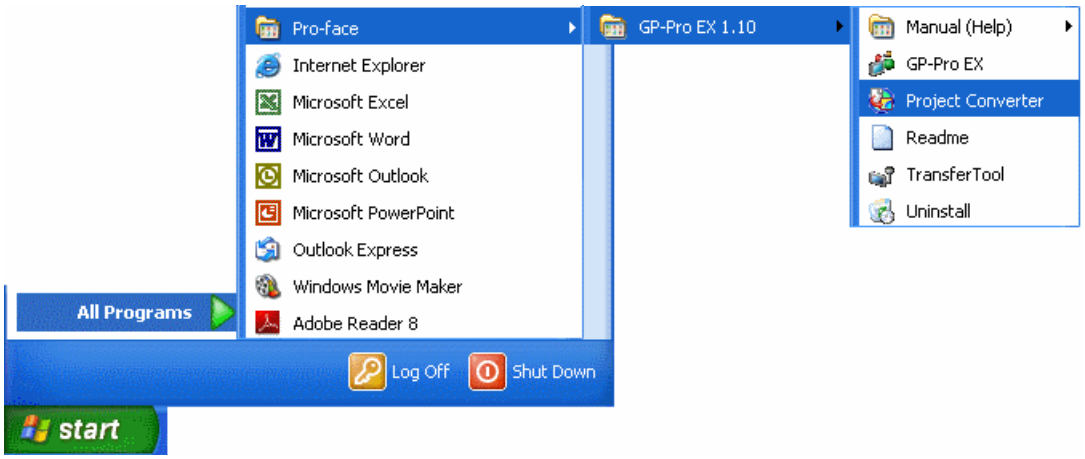


In this case, a message, which indicates there is no Upload Information," appears and you cannot receive the data.

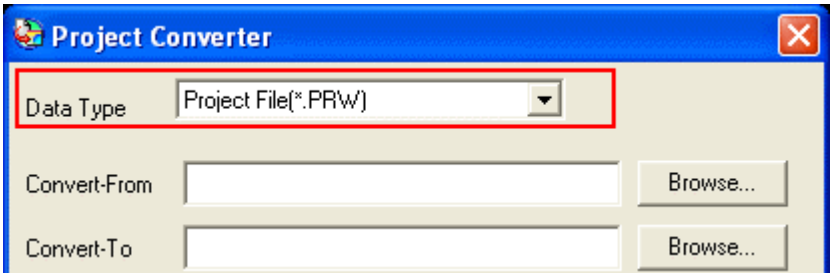
3.4 Convert screen data with the Project Converter

Convert a project file (*.prw) for ST40X series with the GP-Pro EX's Project Converter and change the model setting to GP-4201TM.

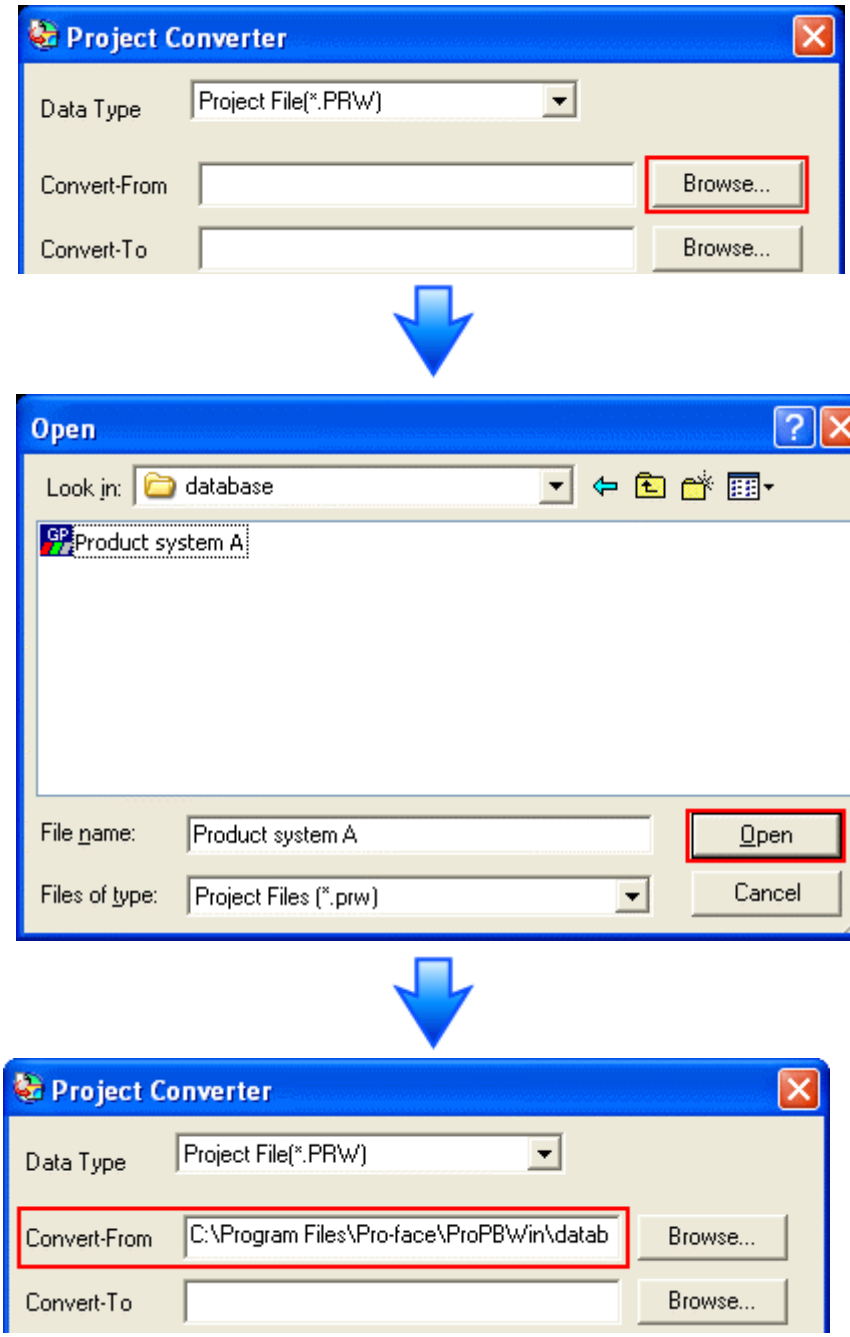
1. Click the [Start] button, select the [All Programs] ([Programs] -> [Pro-face] -> [GP-Pro EX*.**]. (Where *.** is the version of the software you use.)



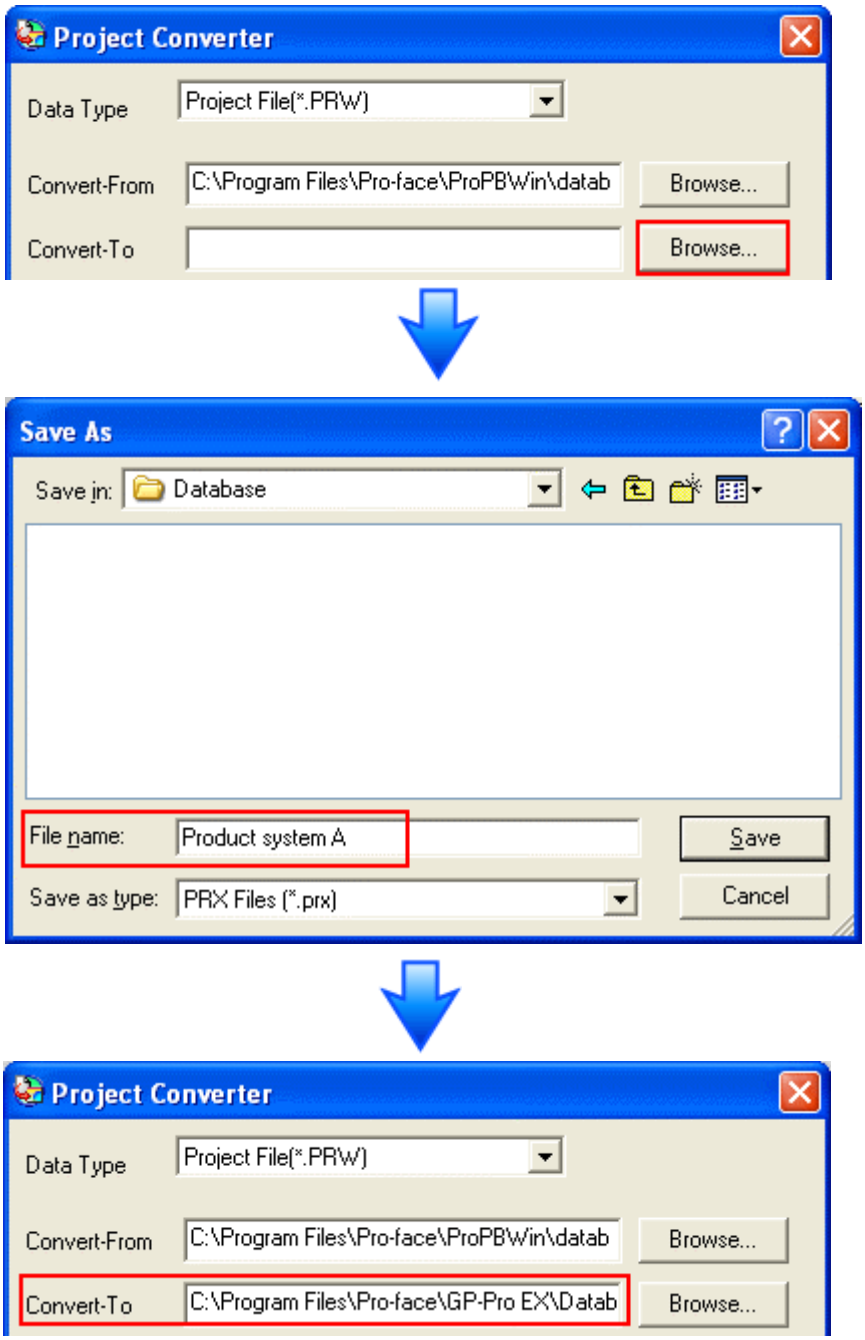
2. The Project Converter starts up and the [Project Converter] dialog box opens. Select [Project File (*.PRW)] in the [Data Type].

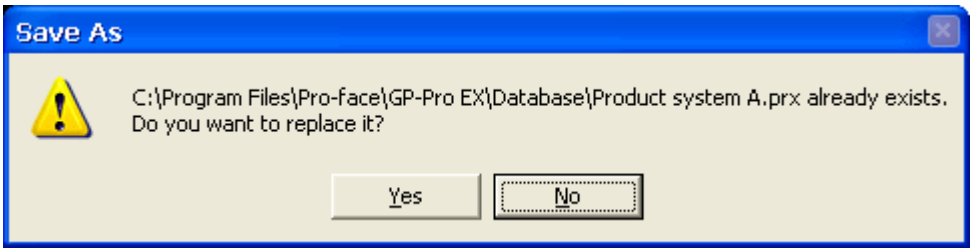


3. Click the [Browse…] button and select a project file (e.g.: “Project system A.prw”). Click [Open], and the file will be set in [Convert-From].

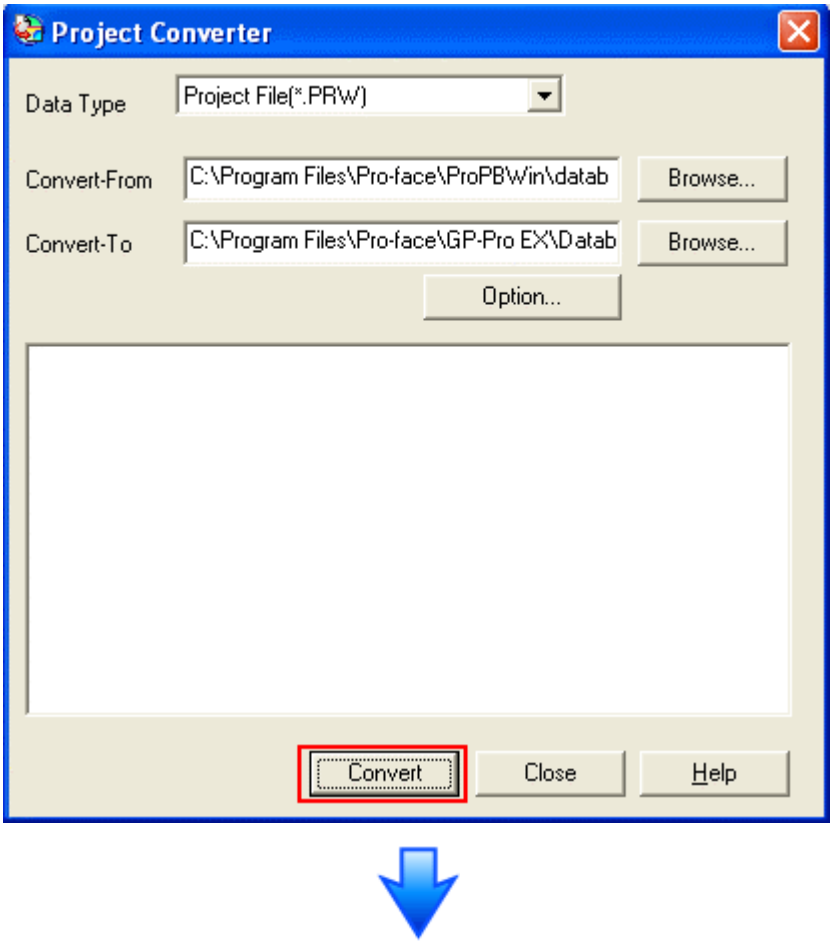


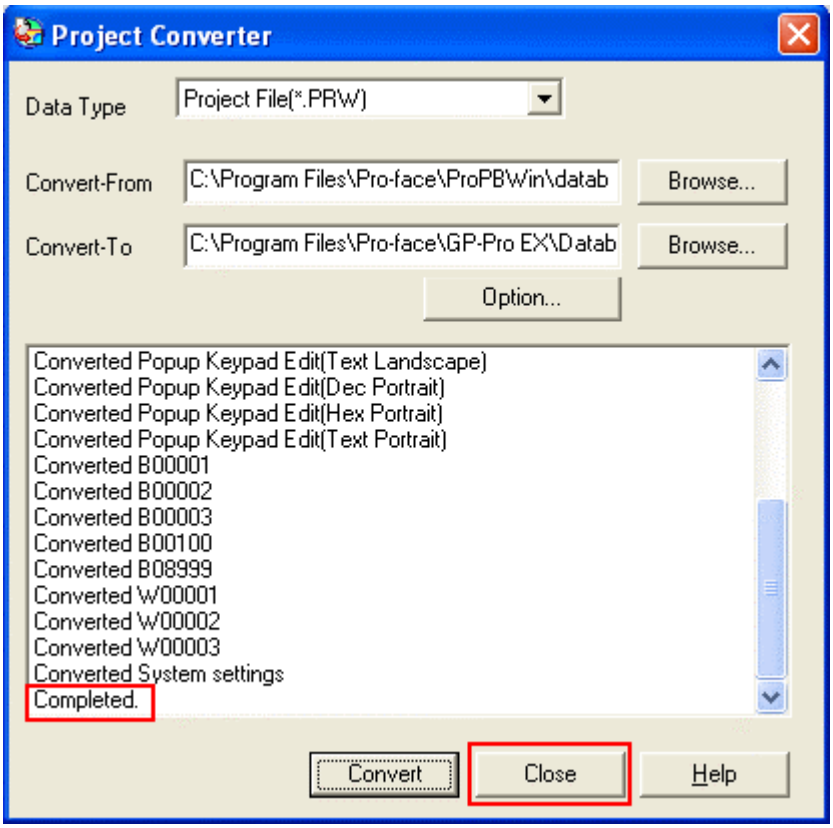
4. In [Convert-To], designate a GP-Pro EX's project file (*.prx). Click the [Browse…] button and enter a new [File Name] (e.g.: "Product system A.prx"). Click [Save], and a new project file will be set to [Convert-To].



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

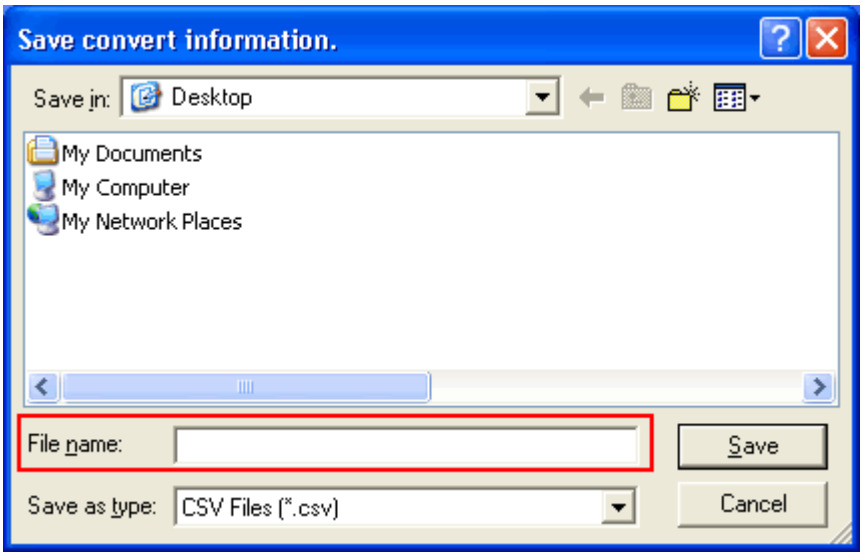
5. Click [Convert] and start the conversion.





NOTE
Depending on the model you are converting from, the [Convert Destination] dialog box may appear and you can select the type and the model.

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

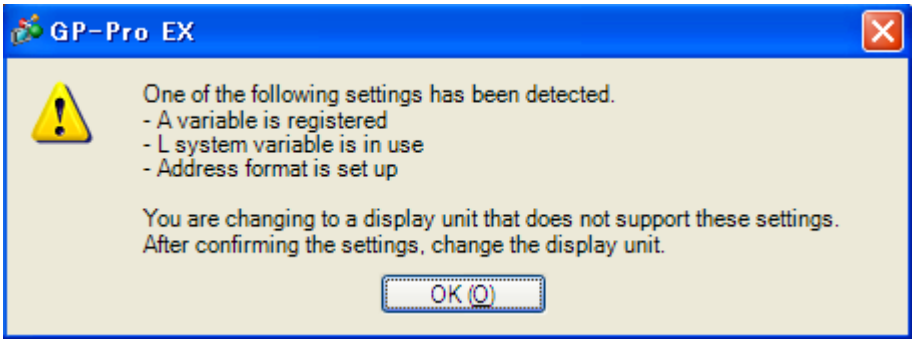


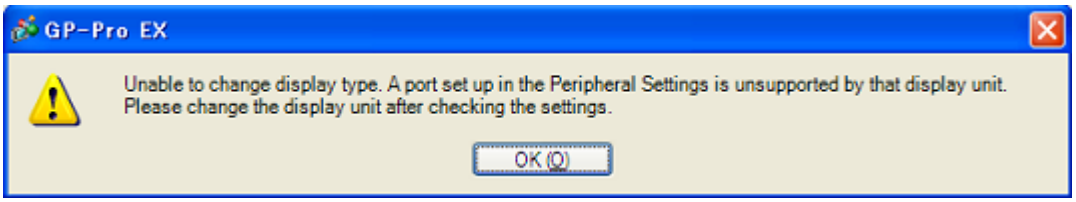
NOTE
Because the differences made at the time of conversion from GP-Pro/PBIII for Windows are described in the saved file, the project file (*.prx) after conversion can be checked and modified according to the conversion information.

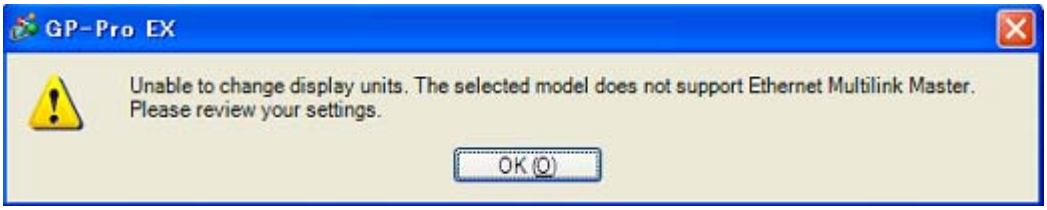
7. Click [Close] to close the [Project Converter] dialog box.
8. If you double click the project file (*.prx) after conversion, GP-Pro EX will start and the file will open. (At this point, the model setting hasn't changed to GP-4201TM yet.)
9. Change the Display Unit to GP-4301TM in [Display] on [System Settings] of GP-Pro EX.

NOTE

- If you change the Display Unit, the parts or the function settings that do not support GP-4201TM are deleted, initialized, or changed.
  For the functions GP-4201TM doesn't support and the important notes, see [3.6.2 Differences made at the time of change to GP-4301TM].
- Depending on a setting of the project file, the message as shown below appears, the Dispay Unit may not change to GP-4301TM.
  When the message appears, check the cause and the solution in [5.1 When the Display Unit cannot be changed.] and then change the Display Unit again.







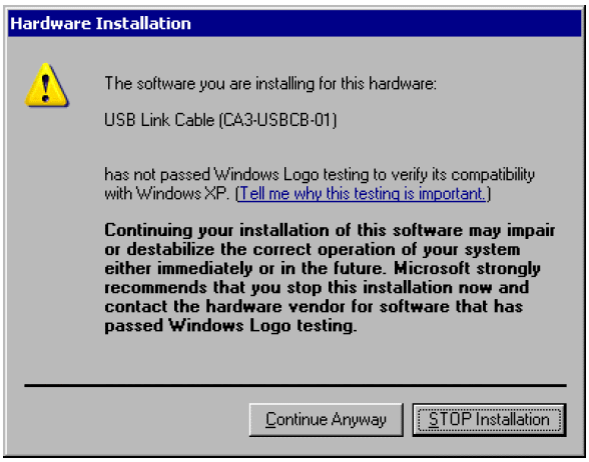
3.5 Transfer screen data to GP-4201TM

Thransfer the converted project file to GP-4201TM. Although you can transfer data to GP-4201TM via a USB transfer cable (model: ZC9USCBMB1), a commercial USB cable (USB A/mini-B), a USB flash drive, or Ethernet, this section explains, as an example, how to transfer screen data with a USB transfer cable (model: ZC9USCBMB1).

1. Connect your PC and GP-4201TM with a USB transfer cable (model: ZC9USCBMB1). If the driver of the cable has not been installed on your PC yet, a dialog box will appear. Please follow the instructions.

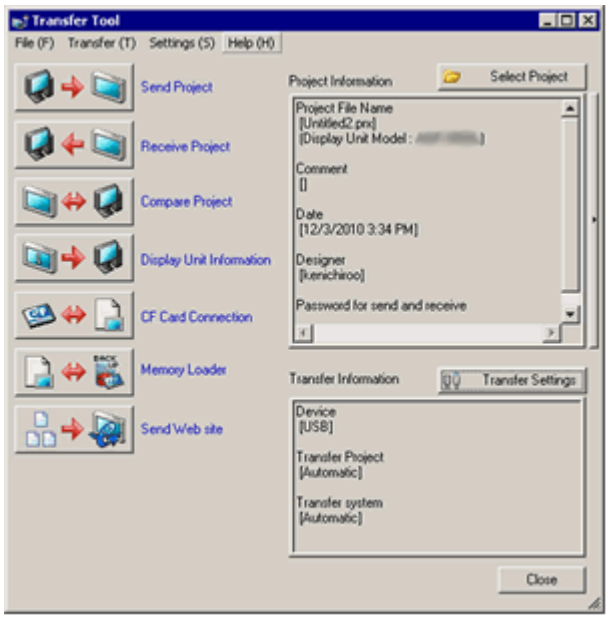
NOTE

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



2. Turn on the power of GP-4201TM. The “Initial Start Mode” screen will appear on the display unit. After transferring a project file once, this screen will not appear again.

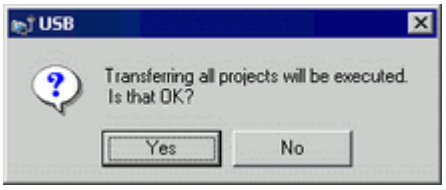
3. On the GP-Pro EX’s State Toolbar, click the [Transfer Project] icon to open the Transfer Tool.



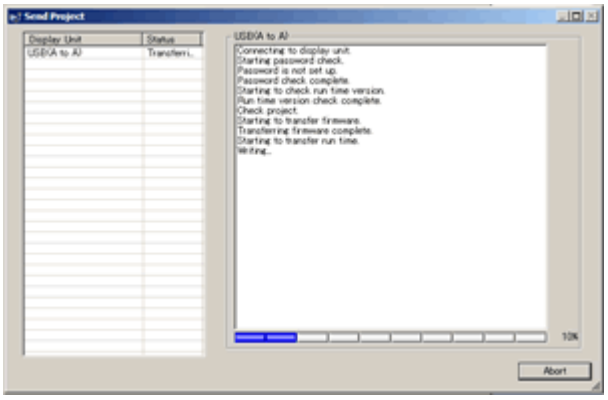
To transfer a different project file, click the [Select Project] button and select a project file.

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].

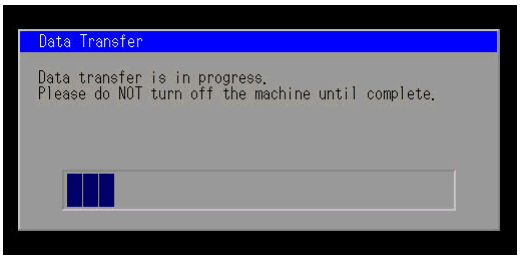
5. Click [Send Project] to start transfer. When the following dialog box appears, click [Yes]. This dialog box doesn’t appear when the same project file is sent again.



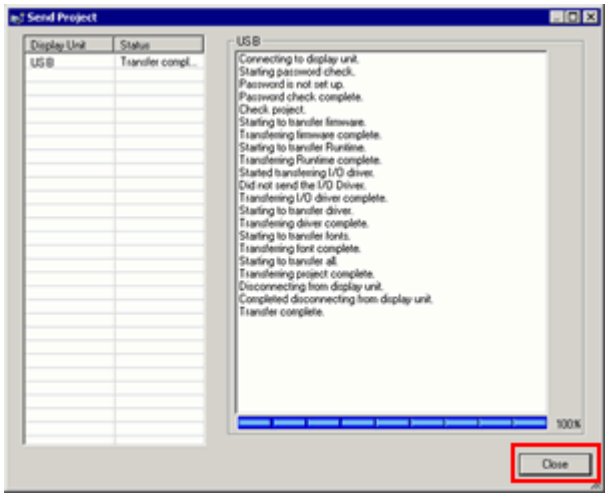
6. The following dialog box appears during transfer and you can check the communication status. (The display unit enters the Transferring mode and communication with the device such as a PLC is terminated.)



Display Screen



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.

3.6 Differences of software

3.6.1 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.htm

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

3.6.2 Differences made at the time of change to GP-4201TM

If you change the Display Unit to GP-4201TM after data conversion from GP-PRO/PBIII to GP-Pro EX, the function settings GP-4201TM does not support are deleted from the project file.

The functions to be deleted from the GP-Pro EX's project files

Settings on GP-PRO/PBIII			**Settings on GP-Pro EX**
Tags	Tag Name	Operation details	Part Name
	A Tag	Alarm Summary (Text) Display	Text Alarm
	a tag	Alarm Summary Display	Alarm
	v tag	Video Window Display Expansion Funciton	VM Unit Display
Parts	Part Name		
	FilingData Display		FilingData Display
	Logging Display		Logging Display
	Data Trans Display		Data Trans Display
	CSV Display		CSV Display
	File Manager Display		File Manager Display
The other functions	Sound Settings		Sound Setting
	CSV Data Transfer Settings		Transfer CSV Data on Recipe
	Data Logging Settings		Sampling Setting *1

*1: In the Sampling settings, only the [Display/Save As CSV, Printing Language] setting that is not supported by GP-4201TM is deleted.

NOTE
For details of GP-Pro EX's parts and functions that cannot be used or have restrictions on GP-4201TM, refer to [For Those Using GP-4*01] in the GP-Pro EX Reference Manual. (http://www.pro-face.com/otasuke/files/manual/soft/gpproex/new/refer/mergedProjects/welcome/welcome_rr_gm4000.htm).

Chapter 4. Communication with Device/PLC

4.1 Driver list

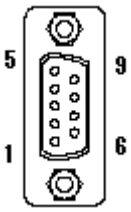
IMPORTANT
・The followings are information as of September 2011. More connectable drivers will be added. Please check our website “Otasuke Pro!” for the latest information. For the devices/PLC each driver supports, see [Connectable Devices] (http://www.pro-face.com/product/soft/gpproex/driver.html). ・If an unsupported driver is set in a project file, a message appears and the model cannot be changed to GP-4201TM. (See [5.1 When the Display Unit cannot be changed])

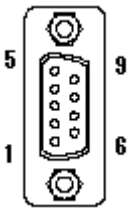
PLC	
Manufacturer	**Series**
OMRON Corporation	C/CV Series HOST Link CS/CJ Series Ethernet CS/CJ Series HOST Link
KEYENCE Corporation	KV-700/1000/3000/5000CPU Direct KZ10_80R/T Series CPU Direct
Koyo Electronics Co., Ltd.	KOSTAC/DL Series CCM SIO KOSTAC/DL Series MODBUS TCP
JTEKT Corporation (Formerly Toyoda Machine Works)	TOYOPUC CMP-LINK Ethernet TOYOPUC CMP-LINK SIO
TOSHIBA Machine Co., Ltd.	TC Series (TCmini/TC200)
Panasonic Electric Works, Ltd. (Formerly Matsushita Electric Works, Ltd)	FP Series Computer Link SIO
Fuji Electric Co., Ltd.	MICREX-F Series SIO MICREX-SX Series Ethernet MICREX-SX Series SIO
Mitsubishi Electric Corporation	A Series CPU Direct A Series Computer Link A Series Ethernet FX Series Computer Link FX Series CPU Direct

	FX Series Ethernet Q Series CPU Direct Q Series QnU CPU Ethernet Q/QnA Serial Communication Q/QnA Series Ethernet QnA Series CPU Direct QUTE Series CPU Direct
YASKAWA Electric Corporation	MP Series SIO (Extension)
YOKOGAWA Electric Corporation	Personal Computer Link SIO
Fatek Automation Corp.	FB Series SIO
LS Industrial System	MASTER-K Series Cnet XGT Series Cnet XGT Series FEnet
Rockwell Automation, Inc.	DF1 DH-485 EtherNet/IP
Schneider Electric SA	MODBUS SIO Master MODBUS Slave MODBUS TCP Master Uni-Telway
Siemens AG	SIMATIC S7 Ethernet SIMATIC S7 MPI Direct
Siemens Building Technologies	SAPHIR SIO
Temperature Controller	
Manufacturer	**Series**
YOKOGAWA Electric Corporation	Personal Computer Link SIO
RKC Instrument Inc.	Temp. Controller MODBUS SIO Temperature Controller
Inverter/Servo/Industrial Robot	
Manufacturer	**Series**
YASKAWA Electric Corporation	MP/Servo Ethernet

Other Devices	
Manufacturer	**Series**
Digital Electronics Corporation	General Ethernet General SIO Memory Link
Modbus-IDA	General MODBUS RTU SIO Master General MODBUS TCP Master

4.2 Shapes of COM ports

<table>
<tr><th></th><th>ST40X series</th><th>GP-4201TM</th></tr>
<tr><td rowspan="2">COM1</td><td colspan="2">D-Sub9P (male)</td></tr>
<tr><td>


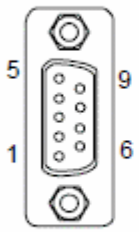
<table>
<tr><td>ST-400</td><td>RS-422</td></tr>
<tr><td>ST-401</td><td>RS-232C</td></tr>
<tr><td>ST-403</td><td>RS-232C/422</td></tr>
</table>
</td><td>


RS-232C/422/485
</td></tr>
</table>

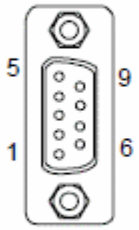
4.3 Signals of COM ports

◆For ST40X series

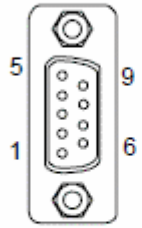
ST400 RS-422 Interface (male)

Pin Connection	Pin No.	Signal	Signal Name	Direction
 (male)	1	RDA	Receive data A	Input
	2	RDB	Receive data B	Input
	3	SDA	Send data A	Output
	4	ERA	Enable receive A	Output
	5	SG	Ground	-
	6	CSB	Clear send B	Input
	7	SDB	Send data B	Output
	8	CSA	Clear send A	Input
	9	ERB	Enable receive B	Output

ST401 RS-232C Interface (male)

Pin Connection	Pin No.	Signal	Signal Name	Direction
 (male)	1	CD	Carrier detect	Input
	2	RD	Receive data	Input
	3	SD	Send data	Output
	4	ER	Enable receive	Output
	5	SG	Ground	-
	6	DR	Data set ready	Input
	7	RS	Request send	Output
	8	CS	Clear send	Input
	9	RI	Ring indicate	Input

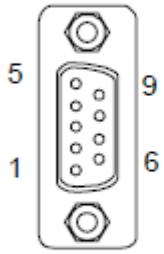
ST403 RS-232C/ RS-422 Interface (male)

Pin Connection	Pin No.	Signal	Signal Name	Direction
 (male)	1	CD/RDA	Carrier detect /Receive data A	Input /Input
	2	RD/RDB	Receive data /Receive data B	Input /Input
	3	SD/SDA	Send data/Send data A	Output /Output
	4	ER/ERA	Enable receive /Enable receive A	Output /Output
	5	SG/SG	Ground/Ground	-
	6	DR/CSB	Data set ready/Clear send B	Input /Input
	7	RS/SDB	Request send /Send data B	Output /Output
	8	CS/CSA	Clear send/Clear send A	Input /Input
	9	RI/ERB	Ring indicate /Enable receive B	Input /Output

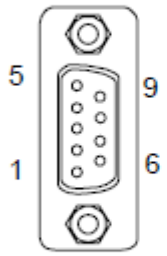
◆For GP-4201TM

The COM1 of GP-4201TM is RS-232C/422/485 (male). Change the setting with GP-Pro EX and then use it.

RS-232C (male)

Pin Arrangement	Pin No.	RS-232C		
		Signal Name	Direction	Meaning
 (GP unit side)	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)	Input	Called status display
	Shell	FG	-	Frame Ground (Common with SG)

RS-485(422)(male)

Pin Arrangement	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

There are some communication drivers that do not support multi-link connection (n:1) with RS-422 in GP-4201TM.

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

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).

4.5 Cable Diagram at the time of replacement

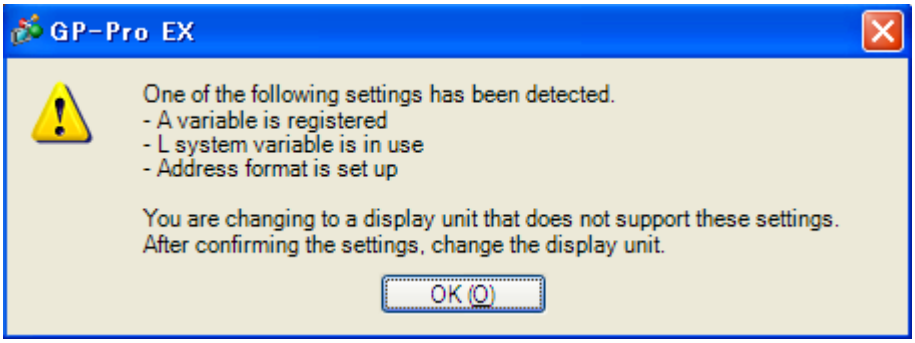
The connetion cable used for ST40X series can be also used for GP-4201TM. But, please note that there are the precautions and restrictions as described below.

IMPORTANT
・Please check the connection configurations GP-4201TM supports with GP-Pro EX Device/PLC Connection Manual before using the connection cable. (http://www.pro-face.com/otasuke/files/manual/gpproex/new/device/index.htm) ・When using Siemens MPI Connection, the cable cannot be used. Please check the GP-Pro EX Device/PLC Connection Manual stated above and prepare a connection cable for GP-4201TM. The other communication cables can be used.

Chapter 5 Appendix

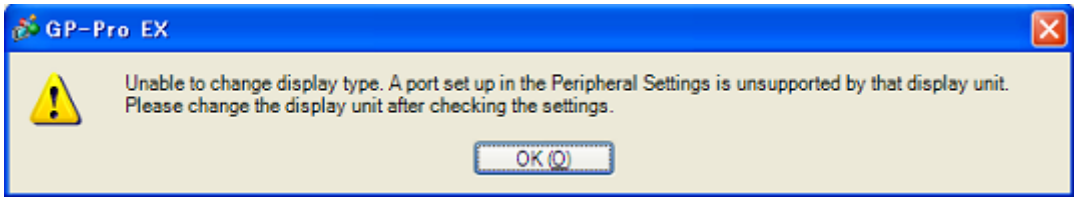
5.1 When the Display Unit type cannot be changed

Depending on a project file's function setting, the following message may appear and the Display Unit may not be able to be changed to GP-4201TM.



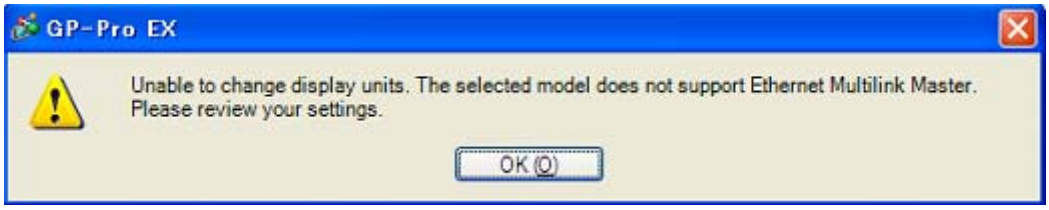
[Cause]

- Logic settings are made.->Solution (1)-1
- L system variables are used.->Solution (1)-2
- I/O Settings are made.->Solution (1)-3
- Unsupported variables are registered in Symbol Variable Setting ->Solution (1)-4
- In logic Program Setting, [Address Format] is selected.->Solution (1)-5



[Cause]

- In Device/PLC Setting, multiple communication drivers are registered.-> Solution (2)-1
- A communication driver that is not supported is set.-> Solution (2)-2
- The function using the unsupported port (COM2) is set-> Solution (2)-3



[Cause]

[Master] is selected in [Ether Multilink Settings].-> Solution (3)-1

[Solutions]

(1)-1: Logic settings are made.

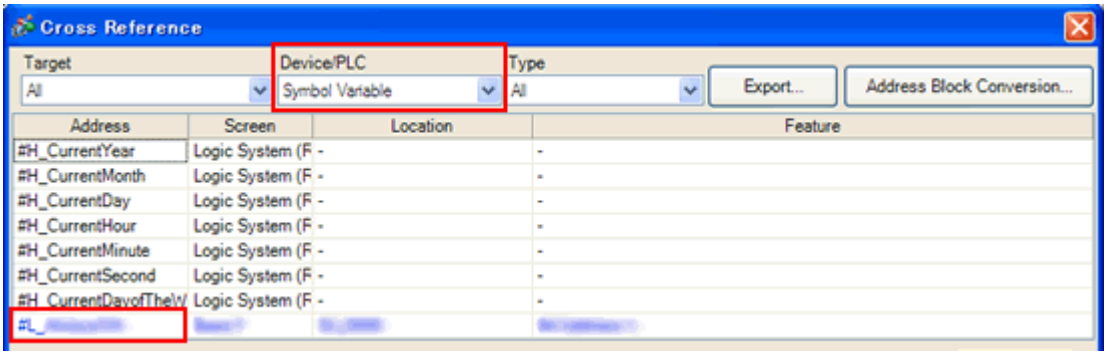
Because GP-4201TM does not support Logic Function, if logic settings are made, the Display Unit cannot be changed. Open the logic screens, check the logic settings, and delete them.

(1)-2: L system variables are used.

[L System Variable] is a logic variable starting with [#L_].

Because GP-4201TM does not support Logic Function, [L System Variable] cannot be used. When [L System Variable] is used, the Display Unit cannot be changed. Check where the address is used and delete it or replace it with another address.

1. Click [Project]->[Utility]->[Cross Reference].
2. Select [Symbol Variable] for [Device/PLC].
   If a L system variable is used, an address starting with [#L_] is displayed.



(1)-3: I/O settings are made.

GP-4201TM does not support I/O Connection. If I/O Settings are made, the Display Unit cannot be changed.

Click [Project]->[System Settings]->[I/O Driver] and check the displayed I/O settings.

(1)-4: Variables that do not support Symbol Variable Setting are registered.

GP-4201TM supports only the variables of [Word Address] or [Bit Address].

Click [Common Settings]->[Symbol Variable]. If variables except [Word Address] or [Bit Address] are registered, the Display Unit cannot be changed. If a variable except these 2 types is registered, change the type to [Word Address] or [Bit Address], or replace it with another address.

(1)-5: In Logic Programs Setting, [Address Format] is selected.

GP-4201TM does not support Logic Function. When [Address Format] is selected for [Register Variable] in the Logic Programs Setting, even if no logic setting is made, the Display Unit cannot be changed.

Click [Project]->[System Settings]->[Logic Programs]. If [Address Format] is selected for [Register Variable], change it to [Variable Format].

(2)-1: In Device/PLC Setting, multiple communication drivers are registered.

For GP-4201TM, only one communication driver can be set. (But, if [Enable Ethernet Multilink] is selected, and GP-4301TM is used as a slave, up to 2 can be set.) If the Device/PLC setting exceeds the upper limit, the Display Unit cannot be changed.

Click [Project]->[System Settings]->[Device/PLC]. Check the displayed Device/PLC setting.

(2)-2: A communication driver that is not supported is set.

If a communicaton driver that cannot be used for GP-4201TM is set, the Display Unit cannot be chagned.

Click [Project]->[System Settings]->[Device/PLC] and check the displayed Device/PLC setting and change the communication driver setting.

For the communication drivers that are supported by GP-4201TM, see [4.1 Driver List].

(2)-3: The function using the unsupported port (COM2) is set.

COM1 is the only one port that GP-4201TM has. If COM2 is selected for [Port] in the [Script] setting, the Display Unit cannot be changed.

Click [Project]->[System Settings]->[Script]. Check the displayed port setting of Script.

(3)-1: [Master] is selected in [Ether Multilink Settings].

GP-4201TM cannot be a master at the time of Ether multilink connection (can be a slave only.). If [Master] is selected in [Ether Multilink Settings], the Display Unit cannot be changed.

After disabling the Ether multilink setting, change the Display Unit.

1. Click [Project]->[System Settings]->[Display Unit].
2. In [Ether Multilink Settings] in the [Extended Settings] tab, uncheck [Enable Ether Multilink].