

Easy! Smooth! GP-3300 Series->GP4000 Series Replacement Guidebook

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Preface

This guidebook introduces the procedures to replace a unit in GP-3300 series with a GP-4301T/TW unit.

Model in use	Model No.	Recommended Substitution	
GP-3300T	AGP3300-T1-D24	GP-4301T	
CD 2200C		GP-4301T	
GP-33005	AGP3300-S1-D24	GP-4301TW	
		GP-4301T	
GP-3300L	AGP3300-L1-D24	GP-4301TW	
		GP-4301T	
GP-33015*1	AGP3301-S1-D24	AGP3301-S1-D24 GF	GP-4301TW
GP-3301L*1	AGP3301-L1-D24	GP-4301TW	
GP-3302B*1	AGP3302-B1-D24	GP-4301TW	
ST-3301T	AST3301-T1-D24	GP-4301T	
ST-3301T	AST3301-T1-D24	GP-4301TW	
ST-3301S*1	AST3301-S1-D24	GP-4301TW	
ST-3301B*1	AST3301-B1-D24	GP-4301TW	
ST-3302B	AST3302-B1-D24	GP-4303T	

*1: It is also possible to replace GP-3301S/L with GP-4301TM (modular type). For details, please refer to "GP/ST3000 Series -> GP4000M Series Replacement Guidebook".



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.



А	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")	
В	01	RS-232C/422/485	
	03	RS-485 (isolation)	
С	Т	TFT color LCD	
	W	TFT color LCD (Wide Type)	
D	А	Analog Resistive Film Touch Panel	
	М	Matrix Resistive Film Touch Panel	
Е	А	AC Type Power Supply	
	D	DC Type Power Supply	
F	W	GP-4201TW/4301TW/4401WW/4501TW	
C Coa		Coated model	
	WC	Coated model of GP-4301TW	

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Chapter 1 Specification Comparison

1.1 Specifications of GP-3300T/S/L and GP-4301T

		GP-3300T/S/L	GP-4301T
Dicplay	GP-3300T	TFT color LCD	
Type	GP-3300S	STN color LCD	TFT color LCD
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	GP-3300L	Monochrome LCD	
		65,536 colors	
Display	GP-3300T	(without blink)/	65,536 colors
Colors,		16,384 colors (with blink)	(without blink)/
Levels	GP-3300S	4,096 colors	16,384 colors (with blink)
	GP-3300L	Monochrome, 16 levels	
Display Colors, Levels		65,536 colors (without blink)/16,384 colors (with blink)	
Display Resolution		QVGA (320x240 pixels)	
Panel Cutout Dimensions (mm)		156(W)×123.5(H)	
External Dimensions (mm)		167.5(W)x135(H)x59.5(D)	169.5(W)x137(H)x59.5(D)
Touch F	Panel Type	Resistive film (Analog)	
Momory	Application	6MB	UP! 16MB
метогу	SRAM	320KB	
			NEW!
Backup Battery		Secondary Battery	Primary Battery
		(Rechargeable Lithium	(Replaceable Lithium
		battery)	battery)
			-> <u>See 2.7</u>
Rated Input Voltage		DC 2	24V
Serial		D-Sub 9 pin (plug)	D-Sub 9 pin (plug)
I/F	COM1	RS-232C/422/485	RS-232C
			->See 2.5.1 and Chapter4

	СОМ2	D-Sub 9 pin (socket) RS-422/485	D-Sub 9 pin (plug) RS-422/485 ->See <u>2.5.1</u> and <u>Chapter4</u>	
Ethernet I/F		10BASE-T/1	10BASE-T/100BASE-TX	
CF Card I/F		V	- -> <u>See 2.5.2</u>	
SD Card I/F		-	NEW! 🗸	
USB	Туре А	~	 ✓ 	
I/F	Type mini B	-	-> <u>See 2.4</u>	
Expansion Unit I/F		~	> <u>See 2.6.3</u>	

1.2 Specifications of GP-3300S/L and GP-4301TW

		GP-3300S/L	GP-4301TW
Display	GP-3300S	STN color LCD	
Туре	GP-3300L	Monochrome LCD	
Display	GP-3300S	4,096 colors	UP! 65,536 colors (without blink)/
Colors, Levels	GP-3300L	Monochrome, 16 levels	16,384 colors (with blink) -> <u>See 2.3</u>
Display	Resolution	QVGA (320)x240 pixels)
Panel Cutout Dimensions (mm)		156(W)×123.5(H)	
External Dimensions (mm)		167.5(W)x135(H)x59.5(D)	169.5(W)x137(H)x59.5(D)
Touch Panel Type		Resistive f	ilm (Analog)
Momory	Application	6MB	UP! 8MB
SRAM	320KB	128KB -> <u>See 2.10</u>	
Backup Battery		Secondary Battery (Rechargeable Lithium battery)	
Rated In	put Voltage	DC 24V	
Serial	COM1	D-Sub 9 pin (plug) RS-232C/422/485	D-Sub 9 pin (plug) RS-232C ->See <u>2.5.1</u> and <u>Chapter4</u>
I/F	COM2	D-Sub 9 pin (socket) RS-422/485	D-Sub 9 pin (plug) RS-422/485 ->See <u>2.5.1</u> and <u>Chapter4</u>
Ethernet I/F		10BASE-T/100BASE-TX	
CF Card I/F		v	> <u>See 2.5.2</u>
USB	Туре А	V	V
I/F	Type mini B	-	-> <u>See 2.4</u>

Expansion Unit I/F	✓	> <u>See 2.6.3</u>

1.3 Specifications of GP-3301S and GP-4301T

		GP-3301S	GP-4301T
Display Type		STN color LCD	UP! TFT color LCD
Display Colors, Levels		4,096 colors	UP! 65,536 colors (without blink)/ 16,384 colors (with blink) -> <u>See 2.3</u>
Display	Resolution	QVGA (320	x240 pixels)
Panel Cutout Dimensions (mm)		156(W)x123.5(H)	
External Dimensions (mm)		167.5(W)x135(H)x59.5(D)	169.5(W)x137(H)x59.5(D)
Touch Panel Type		Resistive fi	lm (Analog)
Application		6MB	UP! 16MB
метогу	SRAM	32	ОКВ
			NEW!
		Secondary Battery	Primary Battery
Backı	ip Battery	(Rechargeable Lithium	(Replaceable Lithium
		battery)	battery)
			-> <u>See 2.7</u>
Rated In	nput Voltage	age DC 24V	
Coviel	COM1	D-Sub 9 pin (plug) RS-232C/422/485	D-Sub 9 pin (plug) RS-232C
I/F			D-Sub 9 nin (nlug)
-/ •	COM2	D-Sub 9 pin (socket)	RS-422/485
	RS-422/485	->See 2.5.1 and Chapter4	

Ethernet I/F		-	NEW!
			10BASE-T/100BASE-TX
CF (Card I/F	~	> <u>See 2.5.2</u>
SD	Card I/F	-	NEW! 🗸
USB	Туре А	~	v
I/F	Type mini B	-	-> <u>See 2.4</u>
Expans	ion Unit I/F	~	> <u>See 2.6.3</u>

1.4 Specifications of GP-3301S/L and GP-4301TW

		GP-3301S/L	GP-4301TW
Display	GP-3301S	STN color LCD	
Туре	GP-3301L	Monochrome LCD	
Display	GP-3301S	4,096 colors	UP!
Colors, Levels	GP-3301L	Monochrome, 16 levels	65,536 colors (without blink)/ 16,384 colors (with blink) -> <u>See 2.3</u>
Display	Resolution	QVGA (320	x240 pixels)
Panel Cutout Dimensions (mm)		156(W)x123.5(H)	
External Dimensions (mm)		167.5(W)x135(H)x59.5(D)	169.5(W)x137(H)x59.5(D)
Touch Panel Type		Resistive fi	lm (Analog)
Momory	Application	6MB	UP! 8MB
меттогу	SRAM	320KB	128KB -> <u>See 2.10</u>
Backup Battery		Secondary Battery (Rech	argeable Lithium battery)
Rated Input Voltage DC 24V		24V	
Serial I/F	COM1	D-Sub 9 pin (plug) RS-232C/422/485	D-Sub 9 pin (plug) RS-232C ->See <u>2.5.1</u> and <u>Chapter4</u>
	COM2	D-Sub 9 pin (socket) RS-422/485	D-Sub 9 pin (plug) RS-422/485 ->See <u>2.5.1</u> and <u>Chapter4</u>
Ethernet I/F		-	NEW! 10BASE-T/100BASE-TX
CF Card I/F		~	> <u>See 2.5.2</u>
USB	Туре А	v	V

I/F	Type mini B	-	-> <u>See 2.4</u>
Expans	ion Unit I/F	~	> <u>See 2.6.3</u>

1.5 Specifications of GP-3302B and GP-4301TW

		GP-3302B	GP-4301TW	
Disp	olay Type	Monochrome Blue Mode LCD	UP! TFT color LCD	
Display Colors, Levels		Monochrome, 8 levels	UP! 65,536 colors (without blink)/ 16,384 colors (with blink) -> <u>See 2.3</u>	
Display Resolution		QVGA (320x240 pixels)		
Panel Cutout Dimensions (mm)		156(W)x123.5(H)		
External Dimensions (mm)		167.5(W)x135(H)x59.5(D)	169.5(W)x137(H)x59.5(D)	
Touch	Panel Type	Resistive film (Analog)		
	Application	6MB	UP! 8MB	
метогу	SRAM	320KB	128KB -> <u>See 2.10</u>	
Back	up Battery	Secondary Battery (Rechargeable Lithium battery)		
Rated I	nput Voltage	DC 24V		
Serial	COM1	D-Sub 9 pin	(plug) RS-232C	
I/F	COM2	D-Sub 9 pin (plug) RS-422	D-Sub 9 pin (plug) RS-422/485	
Ethe	ernet I/F	-	NEW! 10BASE-T/100BASE-TX	
USB	Туре А	<i>v</i>	V	
I/F	Type mini B	-	-> <u>See 2.4</u>	
Ехра	nsion Unit	~	> <u>See 2.6.3</u>	

1.6 Specifications of ST-3301T and GP-4301T

		ST-3301T	GP-4301T	
Display Type		TFT color LCD		
Display Colors		256 colors (without blink)/ 64 colors (with blink)	UP! 65,536 colors (without blink)/ 16,384 colors (with blink) -> <u>See 2.2</u>	
Display	/ Resolution	QVGA (320x240 pixels)		
Panel Cutout Dimensions (mm)		156(W)x123.5(H)		
External Dimensions (mm)		167.5(W)x135(H)x59.5(D)	169.5(W)x137(H)x59.5(D)	
Touch	Panel Type	Resistive film (Analog)		
M	Application	6MB	UP! 16MB	
метогу	SRAM	320KB -	> <u>See 2.9</u>	
Backup Battery		Secondary Battery (Rechargeable Lithium battery)	NEW! Primary Battery (Replaceable Lithium battery) -> <u>See 2.7</u>	
Rated I	nput Voltage	DC 24V		
Serial	COM1	D-Sub 9 pin (plug) RS-232C	
I/F	COM2	D-Sub 9 pin (pl	ug) RS-422/485	
Ethe	ernet I/F	-	NEW! 10BASE-T/100BASE-TX	
USB	Туре А	v	~	
I/F	Type mini B	-	-> <u>See 2.3</u>	

1.7 Specifications of ST-3301T/S/B and GP-4301TW

		ST-3301T/S/B	GP-4301TW	
Dicplay	ST-3301T	TFT color LCD		
Туре	ST-3301S	STN color LCD	UP! TFT color LCD	
туре	ST-3301B	Monochrome Blue Mode LCD		
ST-3301T		256 colors (without blink)/	UP!	
Display	ST-3301S	64 colors (with blink)	65,536 colors (without blink)/	
Colors ST-3301B		Monochrome, 8 levels 16,384 colors (with -> <u>See 2.2</u>		
Display	Resolution	QVGA (320x240 pixels)		
Panel Cutout Dimensions (mm)		156(W)x123.5(H)		
External Dimensions (mm)		167.5(W)x135(H)x59.5(D)	169.5(W)x137(H)x59.5(D)	
Touch	Panel Type	Resistive film (Analog)		
Manager	Application	6MB	UP! 8MB	
метогу	SRAM	320KB	128KB -> <u>See 2.9</u>	
Backı	p Battery	Secondary Battery (Rechargeable Lithium battery)		
Rated In	nput Voltage	DC 24V		
Serial	COM1	D-Sub 9 pin (plug) RS-232C	
I/F	COM2	D-Sub 9 pin (plu	g) RS-422/485 *1	
Ethe	ernet I/F	-	NEW! 10BASE-T/100BASE-TX	
USB	Type A	~	✓ ✓	
I/F	Type mini B	-	-> <u>See 2.3</u>	

*1: RS-485 is supported by Rev. B or later for ST-3301S/B.

1.8 Specifications of ST-3302B and GP-4303T

		ST-3302B	GP-4303T	
Disp	ојау Туре	Monochrome Blue Mode LCD	UP! TFT color LCD	
Display Colors, Levels		Monochrome, 8 levels	UP! 65,536 colors (without blink)/ 16,384 colors (with blink) -> <u>See 2.2</u>	
Display Resolution		QVGA (320	x240 pixels)	
Pan Dimen	el Cutout sions (mm)	utout 156(W)x123.5(H) Is (mm)		
External Dimensions (mm)		167.5(W)x135(H)x59.5(D)	169.5(W)x137(H)x59.5(D)	
Touch Panel Type		Resistive film (Analog)		
Momory	Application	6MB	UP! 16MB	
метногу	SRAM	32	ОКВ	
Backup Battery		Secondary Battery (Rechargeable Lithium battery)	NEW! Primary Battery (Replaceable Lithium battery) -> <u>See 2.6</u>	
Rated I	nput Voltage	DC	24V	
Serial	COM1	D-Sub 9 pin (plug) RS-232C	
I/F	COM2	D-Sub 9 pin (socket)	RS-485 (for MPI only)	
Ethe	ernet I/F	-	NEW! 10BASE-T/100BASE-TX	
SD	Card I/F	-	NEW! 🗸	
USB	Туре А	V	V	
I/F	Type mini B	-	-> <u>See 2.3</u>	

Chapter 2 Compatibility of Hardware

2.1 Locations of connector

Connector locations on GP-3300 series/ST-3300 series and GP-4301T/TW are as follows:

GP-3300T/S/L







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ST-3301T/S/B

|--|--|--|--|

GP-4301T



GP-4301TW



Interface names

	GP-3300T/S/L	GP-3301S	ST-3301T	GP-4301TW GP-4301T		
1	Power Connector					
2	Serial Interface (COM1)					
3	Serial Interface (COM2)					
4	Ethernet Interface - Ethernet Interface					
5	USB Interface (Type A)					
6	- USB Interface					
				(Type mini B)		
\bigcirc	- SD Card Interface					
8	CF Card Interface -					
9	Expansion Un	it Interface		_		

Connector locations on GP-3300S/L, GP-3301S/L, ST-3301T/S/B, GP-3302B and GP-4301TW

GP-3300S/L



GP-3301S/L



ST-3301T/S/B



GP-3302B



GP-4301TW



Interface names

	GP-3300S/L	GP-3301S/L	GP-3302B	ST-3301T/S/B	GP-4301TW
1	Power Connector				
2	Serial Interface (COM1)				
3	Serial Interface (COM2)				
4	Ethernet Interface	iterface -			Ethernet Interface
5	USB Interface (Type A)				
6	USB Interface				
	(Type mini B)				
7	CF Card Interface -				
8	Expans	ion Unit Interf	ace		-

Connector locations on ST-3302B and GP-4303T:

ST-3302B



GP-4303T



Bottom

Interface names

	ST-3302B	GP-4303T		
1	Power Connector			
2	Serial Interface (COM1)			
3	Serial Interface (COM2)			
4	- Ethernet Interface			
5	USB Interface (Type A)			
6	-	USB Interface (Type mini B)		
7	-	SD Card Interface		

2.2 Touch panel Specifications

GP-4301T and GP-4301TW adopt Analog resistive film type. GP-4301Tand GP-4301TW doesn't support 2-point touch input (touching 2 points on the screen at the same time).

GP-4301T	Analog type	Even if you touch two points at the san time, only the first touched point recognized, but the second touched one not.	
GP-4301TW	Analog type	Even if two different points are touched at the same time, that's recognized as touch input on the middle coordinates between those two points.	

2.3 Display Colors(only when replacing GP-3300L/3301L/3302B/ ST-3301B/3302B)

The display color of GP-3300L/3301L/3302B/ST-3301B/3302B is monochrome, but GP-4301TW has a TFT color LCD. After replacement, the display color changes from monochrome to color.

When the setting of the display unit type is changed from a monochrome model to a color one on GP-Pro EX, the data may be displayed in colors depending on the GP-Pro EX version or settings of the drawing/the parts on the screens.

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

If the display is in colors after changing the display unit type...

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

isplay Settin	Operation	Mode Loo	ic ∥ System Area	Extended Settings	Re
∽Display Set	tings				7
			101 111		

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

- Display Settings			
Color	16 Level Monochro	me, 3-Speed 💙	
	White/Black	O Yellow/Black	
Reverse Display			
Show Brightness/Contrast Control	Bar		
* Please confirm the display colo	rs of the drawing	g or the parts on	the screens afte

changing the [Color] setting.

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
Ontions	CA3-USBCB-01	Type A Type A	USB (Type A)
	ZC9USCBMB1	Type A Type mini B	USB (Type mini B)
Commercial Item	-		

The same USB transfer cable (CA3-USBCB-01) as the one for GP-3300 series can be used.

2.5 Interface

2.5.1 Serial Interface

The pin assignment and the shape of plug/socket connector of ST-3300 series are the same as those of GP-4301T/TW, but GP-3300 series are different.

To know the details about them, see [<u>4.2 Shapes of COM ports</u>] and [<u>4.3 Signals of</u> <u>COM ports</u>].

Because of it, the existing PLC connection cables cannot be used as they are.

If you use the existing connection cables, see [<u>4.5 Cable Diagram at the time of</u> <u>replacement</u>].

* For the models except GP-3302B:

When both the COM1 port and the COM2 port have the RS-422/485 setting, only the COM2 port can be used for RS-422/485 connection after replacement. Using a USB/RS-422/485 Conversion Adapter (PFXZCBCBCVUSR41) allows you to use GP4000 series' USB interface as RS-422/485 serial interface for connection.



For more information, please refer to USB/RS-422/485 Conversion Adapter Installation Guide.

(<u>http://www.pro-face.com/otasuke/download/manual/cgi/manual.cgi?mode=33</u> &cat=3)

IMPORTANT

When using USB/RS-422/485 Conversion Adapter (PFXZCBCBCVUSR41) with a display unit, the device/PLCs you can connect to its serial interface (RS-422/485) are limited. To check the connection configuration, please refer to GP-Pro EX Device/PLC Connection Manual.

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

If it's not possible to use USB/RS-422/485 Conversion Adapter

(PFXZCBCBCVUSR41) for your connection, please contact our sales office in your region. (<u>http://www.pro-face.com/customer/contact.html</u>)

2.5.2 CF Card Interface (except GP-3302B)

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-3300 series 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 format	Maximum capacity
SD	FAT16	2GB
SDHC	FAT32	32GB

When the setting of the output destination folder is set to "CF Card" on GP-Pro EX, if you change the display unit type, 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 options

2.6.1 Barcode reader connection
Like GP-3300 series/ST-3300 series, 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).

2.6.2 Printer Connection

Like GP-3300 series/ST-3300 series, GP-4301T/TW allows you to connect a printer on its USB interface (Type A). For the models GP-4301T/TW supports, see [OtasukePro!] (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 units (each kind of unit like CC-LINK Unit) for GP-3300 series cannot be used.

2.6.4 Isolation Unit

RS-485 isolation unit for GP-3300/ST-3300 series (CA3-ISO485-01) cannot be used for GP-4301T/TW. You can use the RS-232C isolation unit (CA3-ISO232-01) for GP-4301T/TW instead. In this case, select "VCC" from [System Settings] -> [Device/PLC] in the [Project] menu on GP-Pro EX.

RI / VCC	🔘 RI	⊙ VCC	
In the case o or VCC (5V F Isolation Unit,	f RS232C, you can : ?ower Supply). If you . please select it to V	select the 9th pin to u use the Digital's I /CC.	o RI (Input) RS232C

2.7 Backup Battery (only when replacing with GP-4301T/4303T)

Unlike GP-3300/ST-3300 series, GP-4301T/4303T 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	

2.8 Power Consumption

The power consumption of GP-3300/ST-3300 series is different from that of GP-4301T/TW.

GP3300T/S/L	26W or loss	
GP-3301S/L	26W of less	
GP-3302B		
ST-3302B	18W or less	
ST-3301T/S/B		
GP-4301T/TW	10 EW or loss	
GP-4303T	10.5W OF less	

For the detailed electric specifications, see the hardware manual.

2.9 Materials/Colors of the body

The materials and the colors of GP-3300 series and GP-4301T/TW are as follows:

	GP-3300 series	GP-4301T/TW
Color	Silver	Light Gray
Material	Aluminum alloy	Resin with glass

2.10 Backup Memory (SRAM) (only when replacing with GP-4301TW)

When replacing GP-3300/ST-3300 series with GP-4301TW, SRAM size becomes smaller (320KB -> 128KB). In case that SRAM size of your project file is more than 128KB after changing the Display Unit type to GP-4301TW, replace GP-3300/ST-3300 series with GP-4301T instead of GP-4301TW.

To check SRAM size, follow the steps below;

- (1) Double click and open the project file (*.prx) on GP-Pro EX.
- (2) Change the Display Unit type of your project file to "GP-4301TW". To know how to do it, see [<u>3.4 Change the Display Unit Type</u>].
- (3) Click [Project]->[Information]->[Project Information]. The Project Information window appears.
- (4) Click [SRAM Information] to see SRAM size.

Open (0) Citrle0	n 🔤 Project 🔛 Monitor	File Information	SRAM Information	Capacity: KB
Save (S) Ctrl+S Save as (A)		SRAM Information Destination Passwords	Operation Log Alarm Sampling	0 Bytes 12.000 Bytes 0 Bytes
Information Ø	Project Information Ø	Memory Usage	Internal Device	0 Bytes
System Settings (Q)	Destination Folder (©)		Recipe	0 Bytes
Edit (E)	Passwords (P)		Total Size	14,320 Bytes

2.11 About Ladder monitor

PLC Ladder monitor tool cannot be used for GP4000 series.

2.12 Retentive Variables Function

Retentive variables function cannot be used for GP4301TW.

If the Retentive Variables function is used for GP3000 series, it is necessary to replace to GP4301T.

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	PC in which GP-Pro EX Transfer Tool is installed. *2		
receiving screen data	data USB Transfer Cable (model: CA3-USBCB-01)		
from GP-3300/	* Possible to send/receive a screen with a CF card, an USB		
ST-3300 series *1	storage device, or via Ethernet (for GP-3300T/S/L only).		
Requirements for	ents for PC in which GP-Pro EX Ver.3.00 or later is installed.		
converting screen	Transfer Cable		
data of GP-3300/	(The following three types of cables are available)		
ST-3300 series and	 An USB transfer cable (model: CA3-USBCB-01) 		
transferring the	An USB data-transfer cable (model: ZC9USCBMB1)		
converted data to	 A commercial USB cable (USB Type A/mini B) 		
GP-4301T/TW	\ast Possible to send/receive a screen with a SD card (for		
	GP-4301T only), an 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-3300/ST-3300 series. If you don't know the version, we recommend you to use the newest version. For the newest version, you can download the transfer tool from our web site called [OtasukePro!] (<u>http://www.pro-face.com/otasuke/download/freesoft/gpproex_transfer.htm</u>)

3.3 Receive screen data from GP-3300/ST-3300 series

You can transfer data to GP-3300/ST-3300 series via;

- An USB transfer cable (model: CA3-USBCB-01)
- A CF card/USB storage device
- A SD card (for GP-4303T only)/USB storage device
- Ethernet (for GP-3300T/S/L only)

But this section explains, as an example, how to receive screen data from GP-3300 series using a USB transfer cable (model: CA3-USBCB-01).

If you have backed up screen data, this step is unnecessary, skip to the next section [3.4 Change the Display Unit Type].



PC

USB transfer cable (CA3-USBCB-01)

GP

(1) Connect your PC and GP-3300/ST-3300 series with an USB transfer cable.

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 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]. Hardware Installation The software you are installing for this hardware: <u>_</u> USB Link Cable (has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing. STOP Installation Continue Anyway • 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.ht <u>m</u>). - 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) Start the Transfer Tool of GP-Pro EX.

net Transfer Tool			
File (F) Transfer (T) Settings (S) Help (H)			
Send Project	Project Information	0	Select Project
Receive Project	Project File Name [Untitled2.prx] [Display Unit Model :	- 10	u ⁴
Compare Project	Date [12/3/2010 3:34 PM]		
Display Unit Information	Designer [kenichiroo]		
CF Card Connection	Password for send and re	ceive	- - -
Memory Loader	Transfer Information	QQ	Transfer Settings
Send Web site	Device [US8]		
	Transfer Project [Automatic]		
	Transfer system [Automatic]		
			Close

(3) 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].



(4) Start GP-Pro EX Transfer Tool and click the [Receive Project] button.



(5) Click [Receive Project], and the following dialog box will appear. Specify a place to save the received data in and a project file name, and then click [Save] to start transfer.

Save As				? 🔀
Savejn: 🗀 🖷	ration .	•	1	.
File <u>n</u> ame:				<u>S</u> ave
Save as type: P	RX Files (*.prx)		-	Cancel

NC	DTE				
Wł	When a file exists, the window that confirms whether or not to overwrite the				
file	e is displayed.				
	Save As				
	C:\Program Files\Pro-face\GP-Pro EX\Database\Product system A.prx already exists. Do you want to replace it?				
	<u>Y</u> es				

(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.)

ed Send Project				
Display Unit USB/A to A	Status Transferri.	USDM to All Connecting to display unit. Darking assessed direct, Passessed is not set up, Passing to check un time version Pur time version check complete. Check project.		,
		Saring to buncher frammen. Transformer frammen complete. Saring to transfer run time. Welfing.		Display Screen
				Data Transfer Data transfer is in progress, Please do NOT turn off the machine until complete,
			10K	

NOTE

 If you receive the project files that use CF card data such as Recipe Function (CSV data), the following dialog box will appear during transfer. Specify a place to save the CF card data in. Click [OK], and the [Receive Project] dialog box will return and transfer will be completed.

Browse For F	older	? 🛛
Select a destin	ation CF card folder.	
	🖃 🚞 Pro-face	~
	🖃 🚞 GP-Pro EX 1.10	
	🚞 backup	
	🗉 🧰 CML	
	🚞 Database	
	🚞 FONT	
	🚞 Fonts	
	🗉 🚞 IODriver	
	🚞 ja	
	🚞 Keymap	~
1	~	
Make New E		Cancel
		Concor

- GP-4301T/TW that is a replacement model is not equipped with a CF card slot. If the display unit type is changed to GP-4301T/TW, 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].
- (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.



(8) Close the Transfer Tool.

3.4 Change the Display Unit Type

Open the received project file (*.prx) of GP-3300/ST-3300 series on GP-Pro EX and change the display unit type to GP-4301T/TW.

- (1) Open the received project file (*.prx) on GP-Pro EX.
- (2) Click [System Settings]->[Display]->[Change Display] in [Project] menu and change the Display Unit type to the replacement model.
- (3) Click [Project]->[Save As] and save the changed project data.

3.5 Transfer screen data to GP-4301T/TW

Transfer the project file after display unit type change 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 the GP unit of GP-4301T/TW with an USB transfer cable. If the driver of the cable has not been installed on you PC, a dialog box will appear. Please follow the instructions.

(2)

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].

lardwa	re Installation
	The software you are installing for this hardware:
-	USB Link Cable (
	has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why this testing is important.</u>)
	Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway
[f the	e following symptoms appear on Micro

- If the following symptoms appear on Microsoft Windows® 7, go to updating "USB Data Transfer Driver" on [OtasukePro!] for download (<u>http://www.pro-face.com/otasuke/download/freesoft/gpproex_transfer.ht</u> <u>m</u>).
- 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).

(3) 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.



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

et Transfer Tool	
File (F) Transfer (T) Settings (S) Help (H)	
Send Project	Project Information Select Project
Receive Project	Project File Name [Unitiled2.pn] [Unitiled2.pn] [Display Unit Model :] Comment
Compare Project	0 Date [12/3/2010 3:34 PM]
Display Unit Information	Designer [kenichiroo]
CF Card Connection	Password for send and receive
Amory Loader	Transfer Information
Send Web site	Device [US8]
	Transfer Project [Automatic]
	Transfer system [Automatic]
	Close

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

(5) 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].



(6) 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.

🔊 USB			×
?	Transferring all p Is that OK?	rojects will be execute	d.
	Yes	No	

(7) 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.)

e. ¹ Send Project				
Display Unit USECA to AD	Status Transferri,	UBDA to AP Connection to display unit. Darting password check. Password in tot et up. Password in tot et up. Password in teck, up. there very on. Darting to check, no there very on.		
		Check project. Startist to basefar firmwan. Transforme firmware complete. Dartist to starofar run tine. Withing.		Display Screen
				Data Transfer Data transfer is in progress, Please do NOT turn off the machine until complete,
			108	

(8) 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.

Display Unit	Status	058
59	Tamile conpt.	Connectings to display unit. Starting pairs invoid the kit. Paramout di not at ta pa Paramout di not at ta pa Paramout di honk complete. Desti pariset. Starting to Brandler Rimmane. Transfering Runkine complete. Starting to Brandler divere. Did not service Runkine. Starting to Brandler divere. Did not service Runkine. Starting to Brandler divere. Starting to Brandler diver. Starting to Brandler diver. Disconnecting from display unit. Starting to Brandler diver. Starting to Brandler
		1008

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

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

3.6 Differences of software

Some functions supported by GP-3300/ST-3300 series are not supported by GP-4301T/TW. For details of the supported parts and functions, refer to [Supported Featuers] of GP-Pro EX Reference Manual.

(http://www.pro-face.com/otasuke/files/manual/gpproex/new/refer/gpproex.htm).

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] (<u>http://www.pro-face.com/product/soft/gpproex/driver/driver.html</u>).

4.2 Shapes of COM ports



4.3 Signals of COM ports

4.3.1 Signals of COM1

For GP-3300T/S/L and GP-3301S/L

RS-232C (plug)

Pin Connection		Pin	RS-232C			
		No.	Signal Name	Direction	Meaning	
			1	CD	Input	Carrier Detect
	\odot]	2	RD(RXD)	Input	Receive Data
5	\bigcirc	9	3	SD(TXD)	Output	Send Data
	000		4	ER(DTR)	Output	Data Terminal Ready
1	õ	6	5	SG	-	Signal Ground
	\odot		6	DR(DSR)	Input	Data Set Ready
(GP unit side)			7	RS(RTS)	Output	Request to Send
		ide)	8	CS(CTS)	Input	Send possible
			9	CI(RI)/VCC	Input/-	Called Status Display +5V±5% Output 0.25A ^{*1}
			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.

RS-422/485 (plug)

Pin Connection		Pin	RS-422/RS-485	RS-422/RS-485				
		No.	Signal Name	Direction	Meaning			
		1	RDA	Input	Receive Data A (+)			
	\odot	2	RDB	Input	Receive Data B (-)			
5	89	3	SDA	Output	Send Data A (+)			
	1 0 6	4	ERA	Output	Data Terminal Ready A (+)			
1		5	SG	-	Signal Ground			
	l 🛛 J	6	CSB	Input	Send Possible B (-)			
	Durait aida)	7	SDB	Output	Send Data B (-)			
(G	P unit side)	8	CSA	Input	Send Possible A (+)			
		9	ERB	Output	Data Terminal Ready B (-)			
		Shell	FG	-	Frame Ground (Common with SG)			

For GP-3302B, GP-4303T, GP-3302B, ST-3301T/S/B and GP-4301T/TW RS-232C (plug)

Pin Connection		Pin	RS-232C			
		No.	Signal Name	Direction	Meaning	
			1	CD	Input	Carrier Detect
	\odot]	2	RD(RXD)	Input	Receive Data
5	\bigcirc	9	3	SD(TXD)	Output	Send Data
	000		4	ER(DTR)	Output	Data Terminal Ready
1	ĕ	6	5	SG	-	Signal Ground
	\odot		6	DR(DSR)	Input	Data Set Ready
			7	RS(RTS)	Output	Request to Send
(GF	P unit s	ide)	8	CS(CTS)	Input	Send possible
			9	CI(RI)/VCC	Input/-	Called Status Display +5∨±5% Output 0.25A ^{*1}
			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.

For GP-4301T/TW	and ST-3301T/S/B
-----------------	------------------

RS-232C (plug)

Pin Connection		Pin	R\$-232C			
		No.	Signal Name	Direction	Meaning	
			1	CD	Input	Carrier Detect
	\odot]	2	RD(RXD)	Input	Receive Data
5	6	9	3	SD(TXD)	Output	Send Data
	000		4	ER(DTR)	Output	Data Terminal Ready
1	Ů	6	5	SG	-	Signal Ground
	Ø		6	DR(DSR)	Input	Data Set Ready
	(GP unit side)		7	RS(RTS)	Output	Request to Send
(G			8	CS(CTS)	Input	Send possible
			9	CI(RI)/VCC	Input/-	Called Status Display +5V±5% Output 0.25A ^{*1}
			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-3300T/S/L and GP-3301S/L

RS-422/485 (socket)

Pin	Pin No	RS422/RS485			
Arrangement	THING.	Signal Name	Direction	Meaning	
	1	TRMRX	-	Termination (Receiver side: 100Ω)	
	2	RDA	Input	Receive Data A(+)	
[@]	3	SDA	Output	Send Data A(+)	
	4	RS(RTS)	Output	Request for Send	
	5	SG	-	Signal Ground	
	6	VCC	-	+5V±5% Output 0.25A *1	
l " Le l "	7	RDB	Input	Receive DataB(-)	
	8	SDB	Output	Send Data B(-)	
(GP unit side)	9	TRMTX	-	Termination (Receiver side: 100Ω)	
	Shell	FG	-	Frame Ground (Common with SG)	

*1: VCC Output is not protected from overcurrent.

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

For ST-3302B

RS-485 (for MPI only) (socket)

Pin	Pin No	RS485 (MPI only)			
Arrangement	T III NO.	Signal Name	Direction	Meaning	
	1	NC	-	-	
	2	NC	-	-	
Ø	3	LINE(+)	Input/ Output	LINE(+)	
1 6	4	RS(RTS)	Output	Request to Send	
000	5	SG	-	Signal Ground ^{*1}	
5 9	6	5V	-	5V external output ^{2 *3}	
loj	7	NC	-	-	
(female)	8	LINE(-)	Input/ Output	LINE(-)	
	9	NC	-	-	
	Shell	FG	-	Frame Ground ^{*1} (Common with SG)	

- *1: The SG and FG terminals are isolated.
- *2: You can supply power to the Siemens PROFIBUS connector only. You cannot supply power to the device/PLC.

For GP-3302B/ST-3301T/S/B

RS-422 (plug)

Pin Connection		Pin	R\$-422		
		No.	Signal Name	Direction	Meaning
		1	RDA	Input	Receive Data A (+)
_	\odot	2	RDB	Input	Receive Data B (-)
5	89	3	SDA	Output	Send Data A (+)
	000	4	ERA	Output	Data Terminal Ready A (+)
1	6	5	SG	-	Signal Ground
	l 🛛 🖉	6	CSB	Input	Send Possible B (-)
(0)	Durnit cide)	7	SDB	Output	Send Data B (-)
(G	P unit side)	8	CSA	Input	Send Possible A (+)
		9	ERB	Output	Data Terminal Ready B (-)
		Shell	FG	-	Frame Ground (Common with SG)

For GP-4301T/TW

RS-422/485 (plug)

Pin Connection		Pin	RS-422/RS-485		
		No.	Signal Name	Direction	Meaning
		1	RDA	Input	Receive Data A (+)
	\odot	2	RDB	Input	Receive Data B (-)
5	<u></u>	3	SDA	Output	Send Data A (+)
	000	4	ERA	Output	Data Terminal Ready A (+)
1	6	5	SG	-	Signal Ground
	l 🛛 🖉	6	CSB	Input	Send Possible B (-)
		7	SDB	Output	Send Data B (-)
(G	P unit side)	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 the communication drivers that support serial multi-link, see [<u>Which drivers</u> <u>support serial multilink communication?</u>] (<u>http://www.pro-face.com/otasuke/files/manual/gpproex/new/device/com_mlnk.ht</u> <u>m</u>).

4.5 Cable Diagram at the time of replacement

The connection cable for GP-3300/ST-3300 series can be used for GP-4301T/TW. But please note that there are precautions and restrictions as described below when replacing **GP-3300T/S/L and GP-3301S/L**.

When a RS-422/485 device is connected via the COM1 port, if GP-3300T/S/L or GP-3301S/L is replaced with GP-4301T/TW, it will be connected via the COM2 port of GP-4301T/TW. (The cable diagram can be still used.)
 Before GP-4301T/TW is connected, be sure to change the port setting to COM2 on the Device/PLC setting. Also, please check the communication settings with GP-Pro EX Device/PLC Connection Manual just in case.

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



 The cable used for connection to GP-3300T/S/L or GP-3301S/L via COM2 can be used for GP-4301T/TW with a COM Port Conversion Adapter (CA3-ADPCOM-01) added in the following cases;



In all other cases, the operation is not guaranteed and it's recommended to prepare a new connection cable. To check the cable diagram, please refer to GP-Pro EX Device/PLC Connection Manual.

Chapter 5 Appendix

5.1 Changing the setting of the external media to use

If a CF card is used for GP-3300 series, after the display unit type of the project file is changed to GP-4301T/TW, "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,

Error Cl	heck		
* ⊁ ₿	V 🗈		
Level	Error Nur	Screen-L	Summary
Warning	1506		A feature that requires the SD card is enabled. However, as the current model does not support the SD card, this feature will not work
Error			No Error

<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-><u>Solution 1</u>
- (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>

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

SD Card Destination	
Enable SD Card	
SD Card Folder	
C:\Program Files\Pro-face\GP-Pro EX Browse	
USB Storage Destination	
USB Storage Destination	
USB Storage Destination Image Destination Image Destinati	

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

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

- iv. Click $\left[\mathsf{OK}\right]$ 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 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.

SD Card Destination
Enable SD Card
SD Card Folder
C:\Program Files\Pro-face\GP-Pro EX Browse
USB Storage Destination
USB Storage Destination
USB Storage Destination Enable USB Storage USB Storage Folder

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