Easy! Smooth!

Replacement Guidebook (Hardware)

GP4000 Series W Model → ST6000 Series (ST-6300T / 6500T)

The 2nd Edition Feb. 2023

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Update History

Date	Edition	Updated Slide	Description
2022/09/06	1st	-	Newly created
2023/02/02	2nd	7, 9	Correction of backup memory type for ST6000 Series (SRAM → NVRAM)

Preface

This guidebook introduces the procedures to replace a unit from "GP4000 Series W Model" to "ST6000 Series (ST-6300T / 6500T)". The recommended substitute models are as follows.

Model in use		Recommended substitutes	
GP-4301TW	PFXGP4301TADW	ST-6300T (GP-Pro EX)	PFXST6300TADE
GP-4501TW	PFXGP4501TADW	ST-6500T (GP-Pro EX)	PFXST6500TADE

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Safety Information

HAZARD OF OPERATOR INJURY, OR UNINTENDED EQUIPMENT DAMAGE
- Before operating any of these products, be sure to read all related manuals thoroughly.
- Be sure to do installation, connection, and maintenance by a person who is familiar with the construction method of electrical equipment, related laws and regulations, and has appropriate technology.

We shall not be liable for any serious injury to human life, damage to equipment, or any other consequences if used without observing these.

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Agenda

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Summary

The replacement from GP4000 series W Model to ST-6300T / 6500T generally keeps compatibility, but the following is the main point to note.

- Display resolution: ST6000 series have a better resolution so it's necessary to convert resolution by the software to use old project data from GP4000 series W model. For more details, please refer to Chapter1 from software replacement procedure "Replacement Guidebook (Software)_EN. pdf" included in the zip file.

GP-4301TW	320 x 240 pixels (QVGA)	ST-6300T	640 x 480 pixels (VGA)
GP-4501TW	640 x 480 pixels (VGA)	ST-6500T	800 x 600 pixels (SVGA)

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1. GP-4301TW vs ST-6300T Specification comparison -1. Basic information-

	PFXGP4301TADW	PFXST6300TADE	Compatibility
Display Size	5.7"	5.7"	✔
Display Type	TFT color LCD	TFT color LCD	✔
Display Colors	65,536 colors	262,000 colors	**UP!**
Display Resolution	320 x 240 pixels (QVGA)	640 x 480 pixels (VGA)	- Need to change resolution setting by Software
Backlight	White LED (not user replaceable)	White LED (not replaceable)	- Backlight is not replaceable.
Backlight / Service life	50,000 hours or more (continuous operation at 25°C [77°F] before backlight brightness decreases to 50%)	50,000 hours or more (continuous operation at 25°C [77°F] before backlight brightness decreases to 25%)	- This spec becomes lower.
Panel Cutout Dimensions	W156 x H123.5 mm	W156 x H123.5 mm	✔
External Dimensions	W169.5 x H137 x D59.5 mm	W169.5 x H137 x D58 mm	- Only the depth length is different.
Touch Panel / Type	Resistive film (analog, single touch)	Resistive film (analog, single touch)	✔
Touch Panel / Service life	1 million times or more	1 million times or more	✔
Memory / Application	FLASH EPROM 8MB	FLASH EPROM 64MB	**UP!**
Memory / Backup Memory	Screen area: SRAM 128KB	Screen area: NVRAM 320KB Variable area: NVRAM 64KB	Please refer to FAQ for the available capacity of each memory.
Backup Battery	Rechargeable battery / Secondary battery for clock data backup	Replaceable battery / Primary battery for clock data backup	**UP!** Battery can be replaced by user.
Input Voltage	DC 24V	DC 24V	✔

1. GP-4301TW vs ST-6300T Specification comparison -2. Interface-

		PFXGP4301TADW	PFXST6300TADE	Compatibility
Serial I/F	COM1	RS-232C (D-Sub 9pin Plug)	RS-232C (D-Sub 9pin Plug)	✔
	COM2	RS-422/485 (D-Sub 9pin Plug)	RS-422/485 (D-Sub 9pin Plug)	Please check the manual for the communication cable.
Ethernet I/F		10BASE-T/100BASE-TX (RJ-45) x1	10BASE-T/100BASE-TX (RJ-45) x1	✔
CF Card I/F		-	-	✔
SD Card I/F		-	-	✔
USB I/F	Type A	USB 2.0 x1 -USB transfer cable (CA3-USBCB-01)	USB 2.0 x1	- No screen data transfer via Type A
	Type mini-B	USB 2.0 x1 -USB data transfer cable(ZC9USCBMB1) or commercial USB mini-B transfer cable	-	- USB I/F changed from USB Type mini-B to Type micro-B.
	Type micro-B	-	USB 2.0 x1 -USB transfer cable(PFXZUSCBMB2) or commercial USB micro-B transfer cable	
Auxiliary I/O I/F		-	-	✔
Sound Output I/F		-	-	✔
Field Bus / Expansion Unit I/F		-	-	✔

Hardware Manual: ST6000 Series Hardware Manual

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1. GP-4501TW vs ST-6500T Specification comparison -1. Basic information-

		PFXGP4501TADW	PFXST6500TADE	Compatibility
Display Size		10.4"	10.4"	✔
Display Type		TFT color LCD	TFT color LCD	✔
Display Colors		65,536 colors	16 million colors	**UP!**
Display Resolution		640 x 480 pixels (VGA)	800 x 600 pixels (SVGA)	- Need to change resolution setting by Software
Backlight		White LED (not user replaceable)	White LED (not replaceable)	- Backlight is not replaceable.
	Service life	50,000 hours or more (continuous operation at 25°C [77°F] before backlight brightness decreases to 50%)	50,000 hours or more (continuous operation at 25°C [77°F] before backlight brightness decreases to 25%)	- This spec becomes lower.
Panel Cutout Dimensions		W301.5 x H227.5 mm	W301.5 x H227.5 mm	✔
External Dimensions		W315 x H241 x D56 mm	W319 x H245 x D55.3 mm	-
Touch Panel	Type	Resistive film (analog, single touch)	Resistive film (analog, single touch)	✔
	Service life	1 million times or more	1 million times or more	✔
Memory	Application	FLASH EPROM 16MB	FLASH EPROM 64MB	**UP!** Please refer to FAQ for the available capacity of each memory.
	Backup Memory	Screen area: SRAM 128KB	Screen area: NVRAM 320KB Variable area: NVRAM 64KB	
Backup Battery		Replaceable battery / Primary battery for clock data backup	Replaceable battery / Primary battery for clock data backup	✔
Input Voltage		DC 24V	DC 24V	✔

1. GP-4501TW vs ST-6500T Specification comparison -2. Interface-

|		PFXGP4501TADW	PFXST6500TADE	Compatibility
Serial I/F	COM1	RS-232C (D-Sub 9pin Plug)	RS-232C (D-Sub 9pin Plug)	✔
	COM2	RS-422/485 (D-Sub 9pin Plug)	RS-422/485 (D-Sub 9pin Plug)	Please check the manual for the communication cable.
Ethernet I/F		10BASE-T/100BASE-TX (RJ-45) x1	10BASE-T/100BASE-TX (RJ-45) x1	✔
CF Card I/F		-	-	✔
SD Card I/F		Yes	Yes	✔
USB I/F	Type A	USB 2.0 x1 -USB transfer cable (CA3-USBCB-01)	USB 2.0 x1	- No screen data transfer via Type A
	Type mini-B	USB 2.0 x1 -USB data transfer cable(ZC9USCBMB1) or commercial USB mini-B transfer cable	-	- USB I/F changed from USB Type mini-B to Type micro-B.
	Type micro-B	-	USB 2.0 x1 -USB transfer cable(PFXZUSCBMB2) or commercial USB micro-B transfer cable	
Auxiliary I/O I/F		-	-	✔
Sound Output I/F		-	-	✔
Field Bus / Expansion Unit I/F		-	-	✔

Hardware Manual: ST6000 Series Hardware Manual

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2. Standards compatibility

*1: Please contact our Customer Service for the latest information.

| Certification	GP4000 Series W Model	ST-6300T / ST-6500T
CE (EN61000-6-4, EN61000-6-2, EN61131-2)	✓	✓
UKCA	✓	✓
UL/cUL	✓ (UL508) (CSA C22.2 No.142)	✓ (UL61010-2-201) (CSA C22.2 No.61010-2-201)
UL/cUL Class 1, Div. 2	✓ (ANSI/ISA12.12.01) (CSA C22.2 No213)	✓ (UL121201) (CSA C22.2 No213)
ATEX (Zones 2/22, equipment category 3 Gas Dust) IECEx (Zones 2/22, equipment category 3 Gas Dust)	✓	Planned *1
UKEX	✓	Planned *1
KCs	✓	Planned *1
NEPSI → CCC-Ex	✓	Planned *1
RCM (C-Tick)	✓	✓
EAC (GOST-R)	✓	✓
RoHS for EU RoHS for China	✓	✓
REACH	✓	✓
CCC *apply for CCC exemption	-	-
KC	✓	✓
Marine (DNV-GL, ABS, LR, BV, NK, RINA, CCS)	DNV-GL, ABS, LR, BV, NK, RINA, CCS	DNV-GL, ABS, BV, NK, CCS, KR: Planned *1
WEEE	✓	✓

3. Hardware compatibility
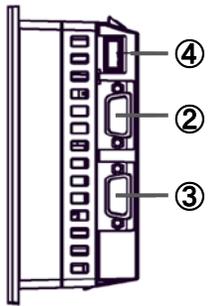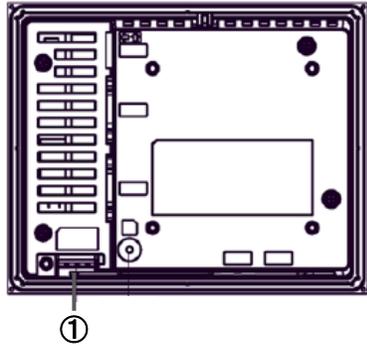
GP-4301TW Right   **GP-4301TW** Rear   **GP-4301TW** Bottom   **ST-6300T** Right   **ST-6300T** Rear   **ST-6300T** Bottom
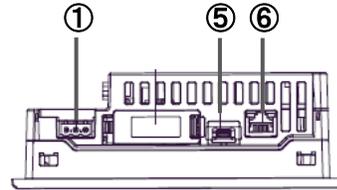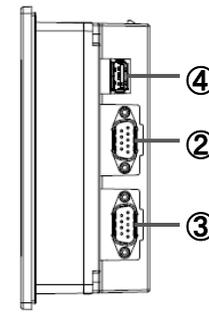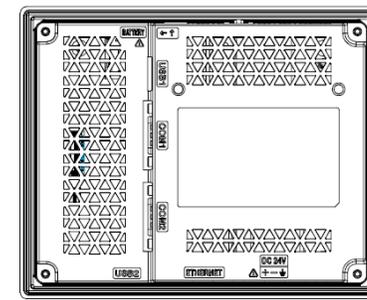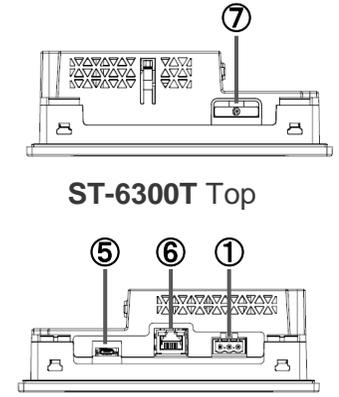
	GP-4301TW	ST-6300T
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	Serial Interface (COM 2)	Serial Interface (COM 2)
④	USB (Type A) Interface	USB (Type A) Interface
⑤	USB (mini-B) Interface	USB (micro-B) Interface
⑥	Ethernet Interface(ETH1)	Ethernet Interface(ETH1)
⑦	-	Battery Slot

Please check ST6000 Series Hardware Manual for details such as interface specifications and pin assignments.

3. Hardware compatibility
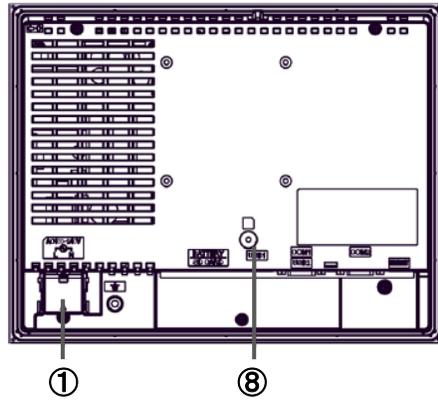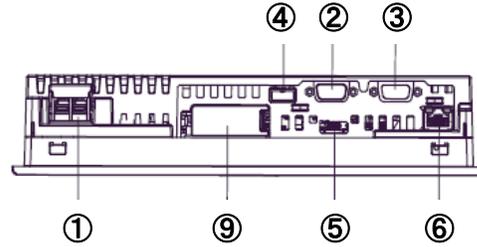
GP-4501TW Rear   **GP-4501TW** Bottom   **ST-6500T** Rear   **ST-6500T** Top   **ST-6500T** Bottom
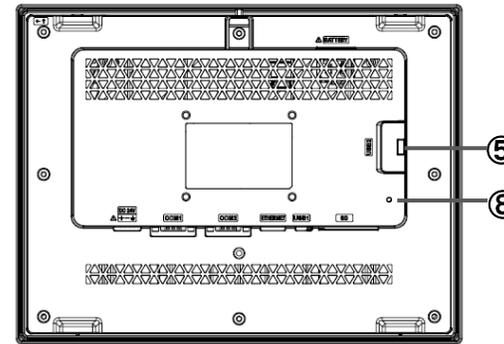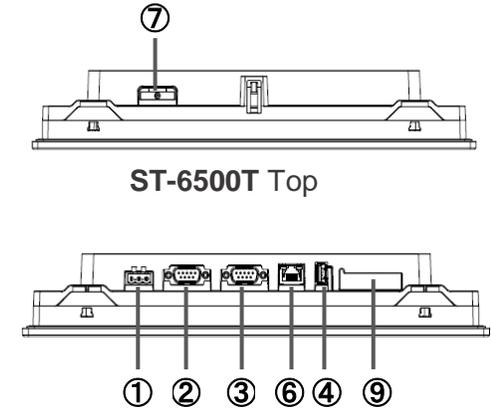
	GP-4501TW	ST-6500T
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	Serial Interface (COM 2)	Serial Interface (COM 2)
④	USB (Type A) Interface	USB (Type A) Interface
⑤	USB (mini-B) Interface	USB (micro-B) Interface
⑥	Ethernet Interface(ETH1)	Ethernet Interface(ETH1)
⑦	-	Battery Slot
⑧	SD Card Access LED	SD Card Status LED
⑨	SD Card Interface Cover / Replacement Battery Cover	SD Card Slot

Please check ST6000 Series Hardware Manual for details such as interface specifications and pin assignments.

About the installation method

| GP4000 W Model	ST-6300T / ST-6500T
Insert the installation fasteners into HMI's insertion slots on the top and bottom sides. Slide the fasteners to the back.	Insert the installation fastener hooks into the insertion slots of this product.

GP4000 W Model panel:
- Installation Panel
- Hook
- Slots

Use a Phillips screwdriver to tighten each fastener screw. The necessary torque is 0.5 N•m (4.4 lb-in).

ST-6300T / ST-6500T panel:
- Installation fastener
- Installation panel
- Insertion slots
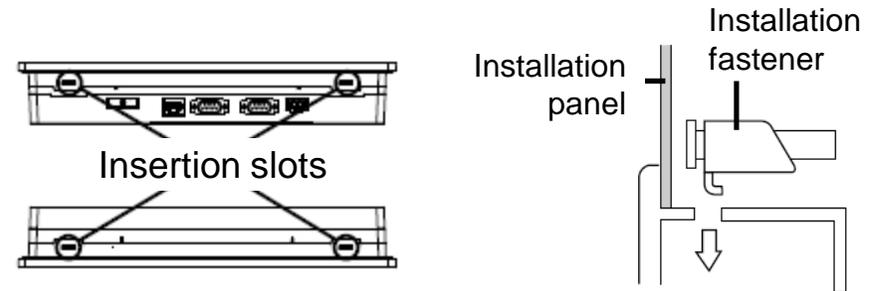
In a clockwise direction, tighten the installation fastener's screws with a screwdriver. The necessary torque is 0.5 N•m (4.4 lb-in).
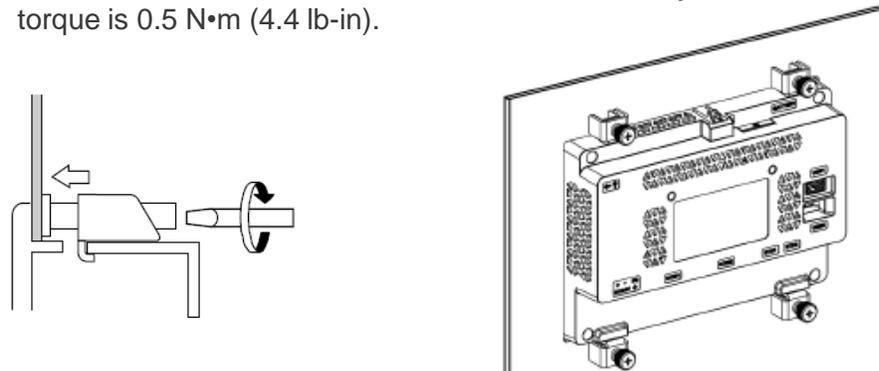
Please check ST6000 Series Hardware Manual for installation requirements and procedure.

4. Option compatibility

	Product Name	GP4000 W Model	ST-6300T/6500T	Description	Compatibility
Serial Interface	RS-232C Cable (5m)	CA3-CBL232/5M-01	CA3-CBL232/5M-01	Connects a host controller to the GP unit.(RS-232C)	✔
	RS-422 Cable (5m)	CA3-CBL422/5M-01	CA3-CBL422/5M-01	CA3-CBL422/5M-01 Connects a host controller to the GP unit. (RS-422 / Socket Type)	✔
	RS-422 Cable (5m)	CA3-CBL422-01	CA3-CBL422-01	Connects a host controller to the GP unit. (RS-422 / Plug Type)	✔
	Mitsubishi PLC A-Series Connection Cable (5m)	CA3-CBLA-01	CA3-CBLA-01	Connects Mitsubishi PLC A or QnA Series programming console I/F to GP unit. (Simultaneous use of programming consoles is not possible.)	✔
	Mitsubishi PLC Q-Series Connection Cable (5m)	CA3-CBLQ-01	CA3-CBLQ-01	Connects Mitsubishi PLC Q-Series programming console I/F to GP unit.(Simultaneous use of programming consoles is not possible.)	✔
	Mitsubishi PLC Q-Series Link Cable (5m)	CA3-CBLLNKMQ-01	CA3-CBLLNKMQ-01	Connects Mitsubishi PLC Q-Series (or other host controller) to the GP unit. (RS-232C)	✔
	Mitsubishi PLC FX-Series Connection Cable	CA3-CBLFX/1M-01 (1m) CA3-CBLFX/5M-01 (5m)	CA3-CBLFX/1M-01 (1m) CA3-CBLFX/5M-01 (5m)	Connects Mitsubishi PLC FX-Series programming console I/F and GP unit. (Simultaneous use of programming consoles is not possible.)	✔
	Omron PLC SYSMAC Link Cable(5m)	CA3-CBLSYS-01	CA3-CBLSYS-01	Connects Omron PLC SYSMAC Series unit (or other host controller) to the GP unit. (RS-232C)	✔
	Siemens TTY Converter Cable (5m)	CA6-CBLTTY/5M-01	CA6-CBLTTY/5M-01	Connects Siemens PLC S5 Series to the GP unit.	✔
	MPI Cable (3.5m)	ST03-A2B-MPI21-PFE CA3-MPI-PG1-PFE CA3-MPI-PGN-PFE	ST03-A2B-MPI21-PFE	Connects a host controller to the GP unit for MPI communication.	✔

4. Option compatibility

	Product Name	GP4000 W Model	ST-6300T/6500T	Description	Compatibility
Serial Interface	Multi-Link Cable (5m)	CA3-CBLMLT-01	CA3-CBLMLT-01	Connects a host controller to the GP unit for multi-link (n:1) communication. Please see "GP-Pro EX Device/PLC Connection Manual" for how to connect the cable.	✔
		PFXZCBCBML1	PFXZCBCBML1	Connects a host controller directly to the GP unit (D-sub 9 pin plug) for multi-link (n:1) communication.	✔
	9-pin-to-25-pin RS-232C Conversion Cable (0.2m)	CA3-CBLCBT232-01	CA3-CBLCBT232-01	Connects a standard RS-232C cable (D-Sub 25-pin socket) to the GP unit (D-sub 9-pin plug).	✔
	RS-422 9/25-pin Conversion Cable (0.2m)	PFXZCBCBCVR41	PFXZCBCBCVR41	Connects a standard RS-422 cable (D-sub 25-pin socket) to the GP unit (D-sub 9 pin plug).	✔
	2 Port Adapter Cable (5m)	CA3-MDCB11	CA3-MDCB11	Connects Mitsubishi PLC to the GP unit using 2 port adapter II (RS-422). Please see "GP Pro EX Device/PLC Connection Manual" for how to connect the cable. End of sale: 2019/12/26	✔
		PFXZCBCBMD1	PFXZCBCBMD1	Connects Mitsubishi PLC directly to the GP unit (D-sub 9 pin plug) using 2 port adapter II (RS-422). End of sale: 2019/12/26	✔
	Mitsubishi PLC A, QnA, FX Series 2 Port Adapter II	GP070-MD11	GP070-MD11	Enables simultaneous use of a GP unit and a Mitsubishi PLC A, QnA, or FX Series peripheral device. End of sale: 2019/12/26	✔
	COM Port Conversion Adapter	CA3-ADPCOM-01	CA3-ADPCOM-01	Connects optional RS-422 communication items to serial interface.	✔
	RS-422 Terminal Block Conversion Adapter	PFXZCBADTM1	PFXZCBADTM1	Connects output from a serial interface (D-sub 9 pin plug) directly to an RS-422 terminal block.	✔
	Terminal Block Conversion Adapter	CA3-ADPTRM-01	CA3-ADPTRM-01	Connects output from a GP unit's Serial Interface (D-sub 9 pin socket) directly with an RS-422 terminal block.	✔
	RS-232C Isolation Unit	CA3-ISO232-01	CA3-ISO232-01	Connects a host controller to this product and provides isolation (RS-232C and RS-422 are switchable).	✔

4. Option compatibility

Product Name	GP4000 W Model	ST-6300T/6500T	Description	Compatibility
USB Transfer Cable (2m)	CA3-USBCB-01	-	Cable for transferring screen data between a PC (USB Type A) and the GP unit (USB Type A).	- A to A screen transfer is not available.
USB Transfer Cable	ZC9USCBMB1	-	Cable for transferring screen data from a PC (USB Type A) to the GP unit (USB mini-B).	**NEW!** Use the option for ST6000 series.
USB Transfer Cable	-	PFXZUSCBMB2	Cable for transferring screen data from a PC (USB Type A) to this product (USB micro-B).	
USB Cable (5m)	FP-US00	FP-US00	Connects a USB printer (Type B).	✔
USB Front Cable (1m)	CA5-USBEXT-01	CA5-USBEXT-01	Extension cable that attaches USB interface (Type A) to front panel.	✔
USB Panel-mount Extension Cable (USB mini-B) (1 m)	ZC9USEXMB1	-	Extension cable that attaches to the USB (mini-B) interface on the front side of the operation panel.	**NEW!** Use the option for ST6000 series.
USB (micro-B) Front Cable	-	PFXZCIEXMB2	Extension cable that attaches USB interface (micro-B) to front panel.	
USB Clamp Type A (1 port)	PFXZCBCLUSA1	PFXZCBCLUSA1	Clamp to prevent disconnection of USB cable (USB/A, 1 port, 5 clamps/set)	✔ This clamp is included in the package of GP4000TW, not included in ST6000.
USB Clamp mini-B (1 port)	ZC9USCLMB1	-	Clamp to prevent disconnection of USB cable (USB/mini-B, 1 port, 5 clamps/set)	- No option available as micro-B clamp
USB-Serial (RS-232C) Conversion Cable (0.5m)	CA6-USB232-01	CA6-USB232-01	Cable for converting a USB interface into a serial interface (RS-232C).	✔

USB Interface

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4. Option compatibility

	Product Name		GP4000 W Model	ST-6300T/6500T	Description	Compatibility
USB Interface	USB/RS-422/485 Conversion Adapter		PFXZCBCBCVUSR41	PFXZCBCBCVUSR41	Adapter for connecting this product (USB Type A) to an external device (RS-422/RS-485).	✔
	EZ Tower Light tube mounting fixing plate		PFXZCETWHA1	PFXZCETWHA1	USB Connection Type Monolithic EZ Tower Light tube mounting with fixing plate 3 tiers, Ø60, lighting and flashing with a buzzer.	✔
	EZ Tower Light with base mounting		PFXZCETWW1	PFXZCETWW1	USB Connection Type Monolithic EZ Tower with base mounting 3 tiers, Ø60, lighting and flashing with a buzzer.	✔
	EZ LAN Adapter		PFXZCGEUUE1 *1	- *2	An adapter to expand an Ethernet port to HMI	-
	EZ Illuminated Switch		PFXZCCEUSG1	PFXZCCEUSG1	A unit of 5 illuminated switches with multiple color LED easily connected with this product unit via USB.	✔
	EZ Numpad		PFXZCCEUKB1	PFXZCCEUKB1	Numpad connected to this product via USB.	✔
	EZ Fingerprint Recognition Unit		PFXZCCEUSS1	PFXZCCEUSS1	Fingerprint recognition unit connected to this product via USB. End of sale: 2020/3/31	✔
Other	SD Memory Card		PFXZCBSD4GC41	PFXZCBSD4GC41	SD Memory Card（4GB）	✔
	Screen Protection Sheet	5.7"	PFXZCBDS61	PFXZCBDS61	Disposable, dirt-resistant sheet for the GP unit screen (5 sheets/set)	✔
		10.4"	PFXZCBDS101	PFXZCBDS101		✔
	UV Protection Sheet	5.7"	PFXZCFUV61	PFXZCFUV61	Sheet to protect the display from dirt and ultraviolet light (1 sheet/set)	✔
		10.4"	PFXZCFUV101	PFXZCFUV101		✔
	Environment Cover	5.7"	PFXZCBOP61	PFXZCBOP61	Disposable, environmental resistant cover for the GP unit screen (1 sheet/set)	✔
		10.4"	PFXZCBOP121	-		-

*1: Please check if your GP-Pro EX version supports this option.
*2: This option will be supported by future GP-Pro EX version. Please contact our Customer Service for the latest information.

4. Option compatibility

Product Name		GP4000 W Model	ST-6300T/6500T	Description	Compatibility
Maintenance					
Installation Fastener	All GP4000W	PFXZCBAF1	-	Used to install the GP unit into a solid panel (4 pieces/set)	**NEW!** Use the option for ST6000 series.
	ST-6300T ST-6500T	-	PFXZC3AT1	Installation fastener (4 pieces/set)	
Installation Gasket	GP-4301TW	PFXZCBWG61	-	Provides dust and moisture resistance when this product is installed into a solid panel (1 piece).	**NEW!** Use the option for ST6000 series.
	GP-4501TW	PFXZCBWG121	-		
	ST-6300T	-	PFXZHWG31		
	ST-6500T	-	PFXZHWG51		
USB Clamp Type A (1 port)		PFXZCBCLUSA1 ✔	PFXZCBCLUSA1	Clamp to prevent disconnection of USB cable (USB/A, 1 port, 5 clamps/set)	✔ This clamp is included in the package of GP4000TW, not included in ST6000.
DC Power Supply Connector	GP-4301TW	PFXZCBCNDC1	-	Connector to connect DC power supply cables (5 pieces/set)	**NEW!** Use the option for ST6000 series.
DC Power Supply Connector (Right-angle)	GP-4501TW	PFXZCBCNDC2	-	Right-angle connector to connect DC power supply cables (5 pieces/set)	
DC Power Supply Connector		-	CA5-DCCNM-01	Connector to connect DC power supply cables (5 pieces/set)	
Battery for Memory Backup		PFXZCBBT1	-	Primary battery for memory and time data backup (1 piece) For GP-4501TW/GP4401WW	**NEW!** Use the option for ST6000 series.
Battery for Data Backup		-	PFXZGEBT1	Primary battery for memory and time data backup (1 piece) For all ST6000 series	
Panel Cutout Adapter		CA4-ATM10-01	-	Panel cutout adapter for mounting GP-4501TW in cutout for GP-2500/2600 series.	-

5. Software compatibility

| Software	GP4000 W Model	ST-6500T / ST-6300T	Compatibility of Project Data
GP-Pro EX	✔ Ver. 3.01 or later (Ver. 3.0 or later for GP-4301TW) https://www.pro-face.com/otasuke/files/manual/gpproex/new/refer/gpproex.htm	✔ Ver. 4.09.400 or later	✔
Pro-Server EX	✔ Ver. 1.30 or later https://www.pro-face.com/otasuke/files/manual/soft/server_ex/v1_37/ref/SRPreface.htm	✔ Ver. 1.37.200 or later	✔
Pro-face Remote HMI (iOS/Android) *1	✔ Ver. 1.00 or later https://www.pro-face.com/otasuke/qa/remotehmi/faq.html	✔ Ver. 1.60 or later	✔
Pro-face Remote HMI Client for Win *1	✔ Ver. 1.40 or later https://www.proface.com/en/product/soft/remotehmi_client/download	✔ Ver. 1.42 or later	✔
Pro-face Connect *1	✔ Ver. 1.0 or later https://www.proface.com/en/product/soft/proface_connect/download	✔ Ver. 9.6 or later	✔

*1: Supported GP-Pro EX Version differs depending on the software.

Software	Version	Supported GP-Pro EX Version
Pro-face Remote HMI (iOS/Android)	1.10	3.5 or later
	1.20	3.6 or later
	1.30	4.0 or later
	1.31	4.02 or later
	1.41	4.03 or later
	1.42 or later	4.05 or later
Pro-face Remote HMI Client for Win	1.40 or later	4.03 or later
Pro-face Connect	1.0 or later	4.07.100 or later

If you would like to check the software replacement procedure, please check the following document included in the zip file.
Replacement Guidebook (Software)_EN.pdf

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6. About Resolutions

When replacing with a model with a different resolution, Convert the resolution with the following settings.
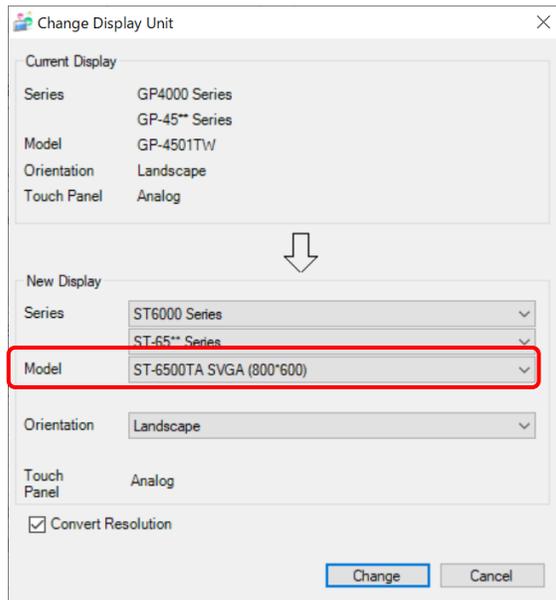
With GP-Pro EX

The display unit can be changed on the "Project" → "System Settings" → 'Change Display Unit' screen of GP-Pro EX.

If you check on [Convert Resolution] when changing the Display Unit type (as shown below), you can adjust both size and location of the part and the text relative to the display resolution automatically. But still, you may need to adjust them manually. Especially, if using Standard font for the font type, after resolution converter, the size will get smaller. In that case, you can improve by using Stroke font or Image font.
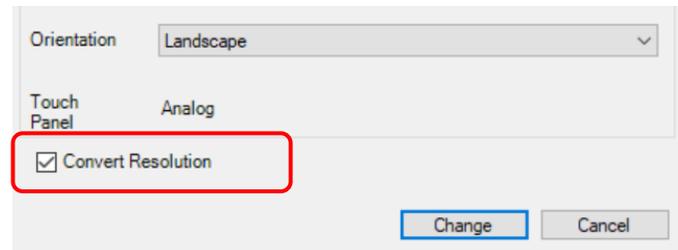
7. Other Important notes

- Do not expose the hardware to direct sunlight. Recommend to use the option item "UV Protection Sheet" to protect the display from ultraviolet light.
- Do not use the hardware outdoors.
- Do not turn on the hardware if condensation has occurred inside the device.
- The panel brightness may decrease when used for a long time in an environment continuously filled with inert gas. Please ventilate the control panel periodically.

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