



Easy! Smooth!

Replacement Guidebook (Hardware)

GP4000M Series → ST6000 Series (GP-Pro EX)

The 2nd Edition Sep. 2022

Update History

Date	Edition	Updated Slide	Description
2021/12/07	1	-	Newly created
2022/09/01	2	15 21 24	Updated to the latest information for ST6000 Series (GP-Pro EX) <ul style="list-style-type: none">- Standards compatibility (UKCA added)- Option compatibility (EZ Tower Light is now supported)- Software compatibility (Pro-Server EX is now fully supported.)

Preface

This guidebook introduces the procedures to replace a unit from “GP4000M Series” to “ST6000 Series (GP-Pro EX)”. The recommended substitute models are as follows.

Model in use		Recommended substitutes	
GP-4201TM (Modular Type)	PFXGM4201TAD	ST-6200WA (GP-Pro EX)	PFXST6200WADE
GP-4301TM (Modular Type)	PFXGM4301TAD	ST-6400WA (GP-Pro EX)	PFXST6400WADE

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.

Agenda

0

Summary

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Specification Comparison

GP-4201TM vs
ST-6200WA (GP-Pro EX)

[1.1 Basic Information](#)

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GP-4301TM vs
ST-6400WA (GP-Pro EX)

[1.1 Basic Information](#)

[1.2 Interface](#)

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Other important notes

Summary

On replacement from GP4000M series to ST6000 series, the following points are the main points to note.

- Installation method: It is different between ST6000 series and GP4000M series. Please see the next page for the comparison.

GP-4201TM	Φ22.5 mm circular hole mount	ST-6200WA	W118.5 x H92.5 mm square panel cut mount
GP-4301TM	Φ22.5 mm circular hole mount	ST-6400WA	W190 x H135 mm square panel cut mount

- Display size: ST6000 series are bigger than GP4000M series.

GP-4201TM	3.5"	ST-6200WA	4.3"W
GP-4301TM	5.7"	ST-6400WA	7"W

- Display resolution: ST6000 series have a better resolution but need to convert resolution by the software to use old project data from GP4000M series. For more details, please refer to Chapter1 from software replacement procedure "Replacement Guidebook (Software)_EN. pdf" included in the zip file.

GP-4201TM	320 x 240 pixels (QVGA)	ST-6200WA	480 x 272 pixels (WQVGA)
GP-4301TM	320 x 240 pixels (QVGA)	ST-6400WA	800 x 480 pixels (WVGA)

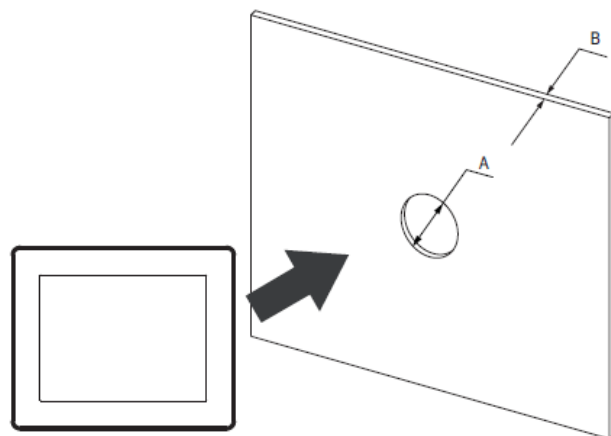
- External dimensions: ST6000 series are bigger than GP4000M series. It is necessary to check the dimensions of the HMI installation location.

Summary

Panel Cut Dimensions: GP-4201TM vs ST-6200WA

GP-4201TM	ST-6200WA
Φ22.5 mm circular hole mount	W118.5 x H92.5 mm square panel cut mount

GP-4201TM



Dimensions

Unit	A (mm)	A (in)	B (mm) (1)	B (in) (1)	B (mm) (2)	B (in) (2)
GP-4201TM	+0	+0				
GP-4301TM	22.50	0.88	1.5 to 6	0.06 to 0.23	3 to 6	0.11 to 0.23
	-0.30	-0.01				

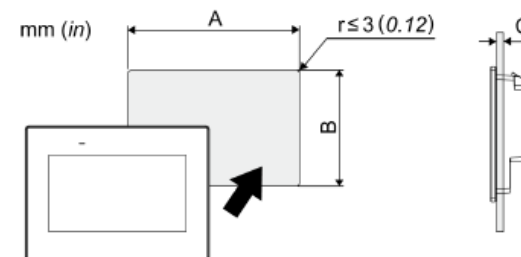
The Material of the panel

- (1) Steel sheet
- (2) Glass fiber reinforced plastics (minimum GF30)

NOTE: Without the tee option, the rotating torque that can be supported by the display module is 2.5 N•m (22.12 in-lb).

ST-6200WA

Based on the panel cut dimensions, open a mount hole on the panel.



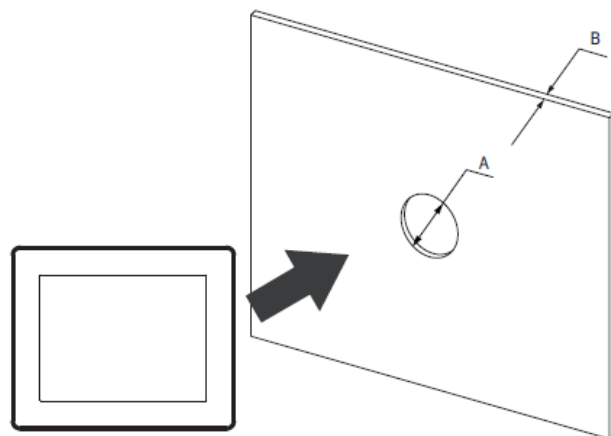
Model name		
A	B	C
ST-6200WA		1.6...5 mm (0.06...0.2 in)
118.5 mm (+1/-0 mm) (4.67 in [+0.04/-0 in])	92.5 mm (+1/-0 mm) (3.64 in [+0.04/-0 in])	
ST-6400WA		When installing ST-6200WA with spring clips: Position 1: 1.5...4 mm (0.06...0.16 in) Position 2: 4...6 mm (0.16...0.24 in)
190 mm (+1/-0 mm) (7.48 in [+0.04/-0 in])	135 mm (+1/-0 mm) (5.31 in [+0.04/-0 in])	
ST-6500WA		NOTE: For the positions, refer to the Installation Procedure (ST-6200WA) (see manual page 65)
255 mm (+1/-0 mm) (10.04 in [+0.04/-0 in])	185 mm (+1/-0 mm) (7.28 in [+0.04/-0 in])	
ST-6600WA		
295 mm (+1/-0 mm) (11.61 in [+0.04/-0 in])	217 mm (+1/-0 mm) (8.54 in [+0.04/-0 in])	
ST-6700WA		
394 mm (+1/-0 mm) (15.51 in [+0.04/-0 in])	250 mm (+1/-0 mm) (9.84 in [+0.04/-0 in])	

Summary

Panel Cut Dimensions: GP-4301TM vs ST-6400WA

GP-4301TM	ST-6400WA
Φ22.5 mm circular hole mount	W190 x H135 mm square panel cut mount

GP-4301TM



Dimensions

Unit	A (mm)	A (in)	B (mm) (1)	B (in) (1)	B (mm) (2)	B (in) (2)
GP-4201TM	+0	+0				
GP-4301TM	22.50 -0.30	0.88 -0.01	1.5 to 6	0.06 to 0.23	3 to 6	0.11 to 0.23

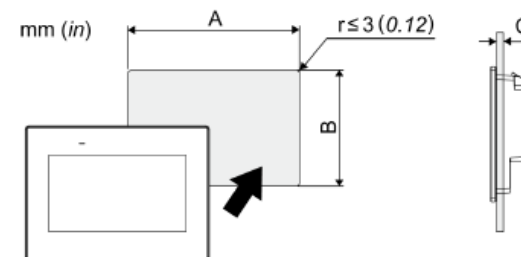
The Material of the panel

- (1) Steel sheet
- (2) Glass fiber reinforced plastics (minimum GF30)

NOTE: Without the tee option, the rotating torque that can be supported by the display module is 2.5 N•m (22.12 in-lb).

ST-6400WA

Based on the panel cut dimensions, open a mount hole on the panel.



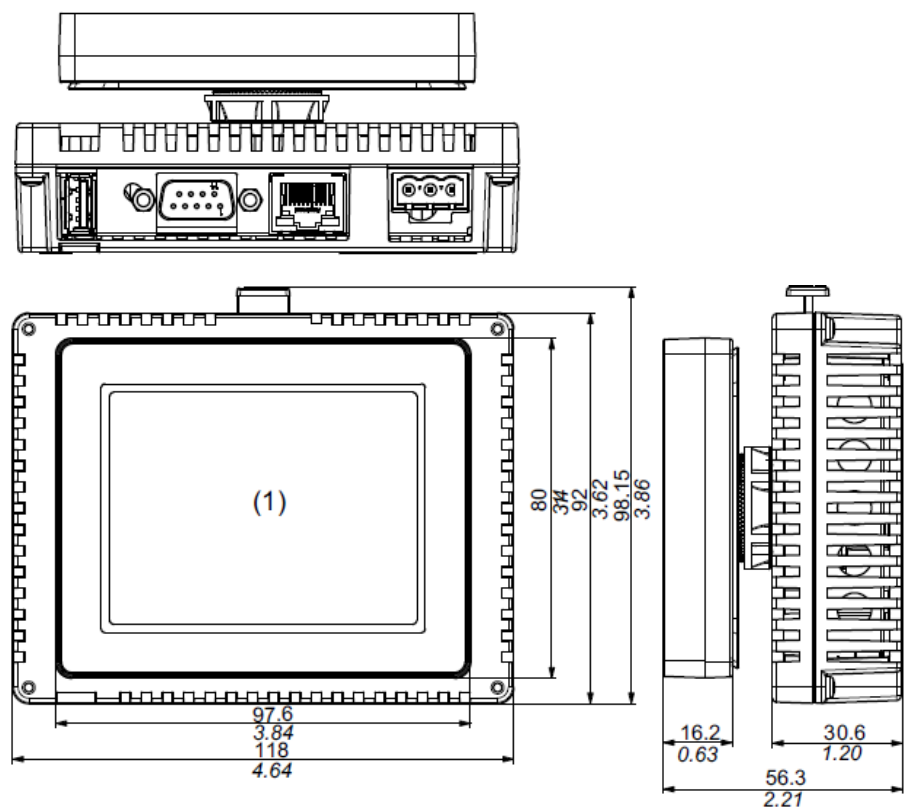
Model name		
A	B	C
ST-6200WA		1.6...5 mm (0.06...0.2 in)
118.5 mm (+1/-0 mm) (4.67 in [+0.04/-0 in])	92.5 mm (+1/-0 mm) (3.64 in [+0.04/-0 in])	
ST-6400WA		When installing ST-6200WA with spring clips: Position 1: 1.5...4 mm (0.06...0.16 in) Position 2: 4...6 mm (0.16...0.24 in)
190 mm (+1/-0 mm) (7.48 in [+0.04/-0 in])	135 mm (+1/-0 mm) (5.31 in [+0.04/-0 in])	
ST-6500WA		NOTE: For the positions, refer to the Installation Procedure (ST-6200WA) (see manual page 65)
255 mm (+1/-0 mm) (10.04 in [+0.04/-0 in])	185 mm (+1/-0 mm) (7.28 in [+0.04/-0 in])	
ST-6600WA		
295 mm (+1/-0 mm) (11.61 in [+0.04/-0 in])	217 mm (+1/-0 mm) (8.54 in [+0.04/-0 in])	
ST-6700WA		
394 mm (+1/-0 mm) (15.51 in [+0.04/-0 in])	250 mm (+1/-0 mm) (9.84 in [+0.04/-0 in])	

Summary

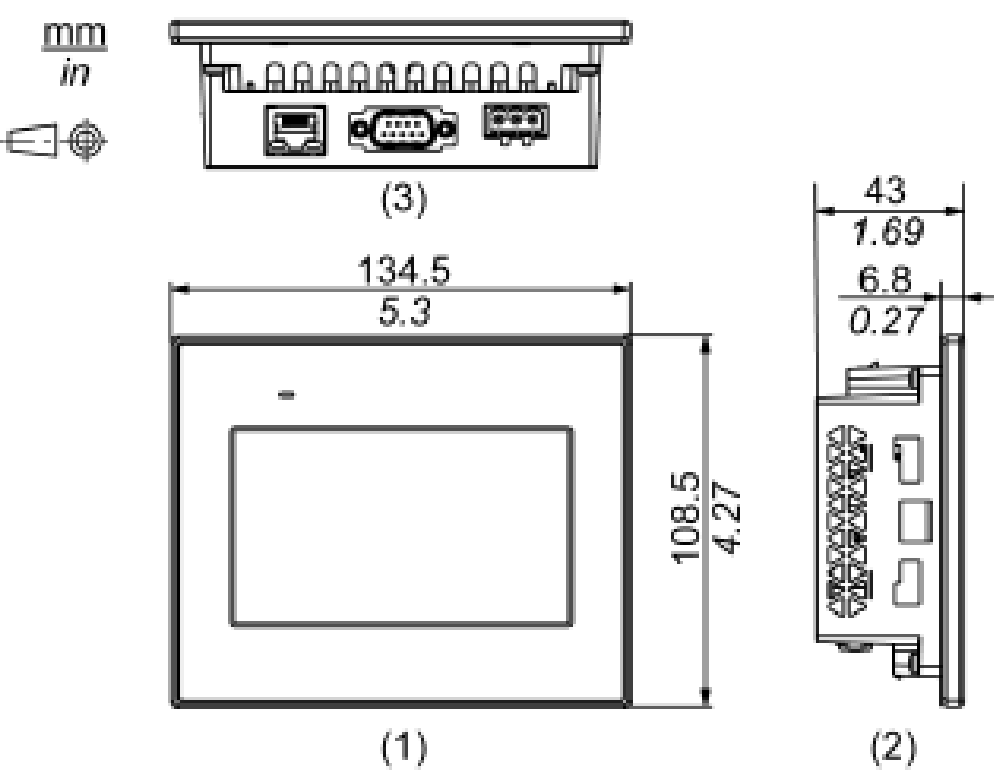
External Dimensions: GP-4201TM vs ST-6200WA

GP-4201TM	ST-6200WA	Differences from GP-4201TM to ST-6200WA (mm)
W118 x H98.15 x D56.3 (with Rear module)	W134.5 x H108.5 x D43	W+16.5 x H+10.35 x D-13.3

GP-4201TM



ST-6200WA

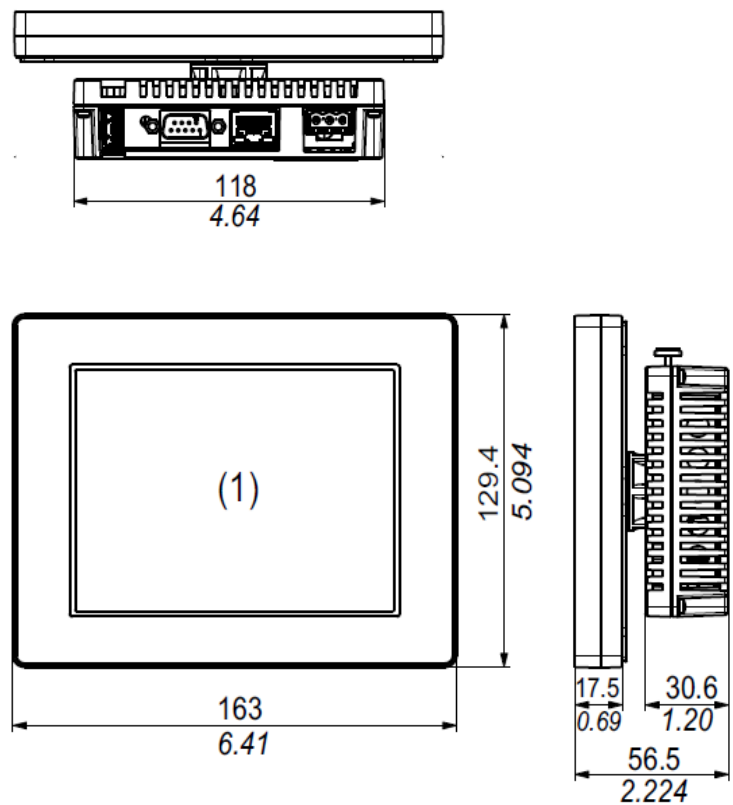


Summary

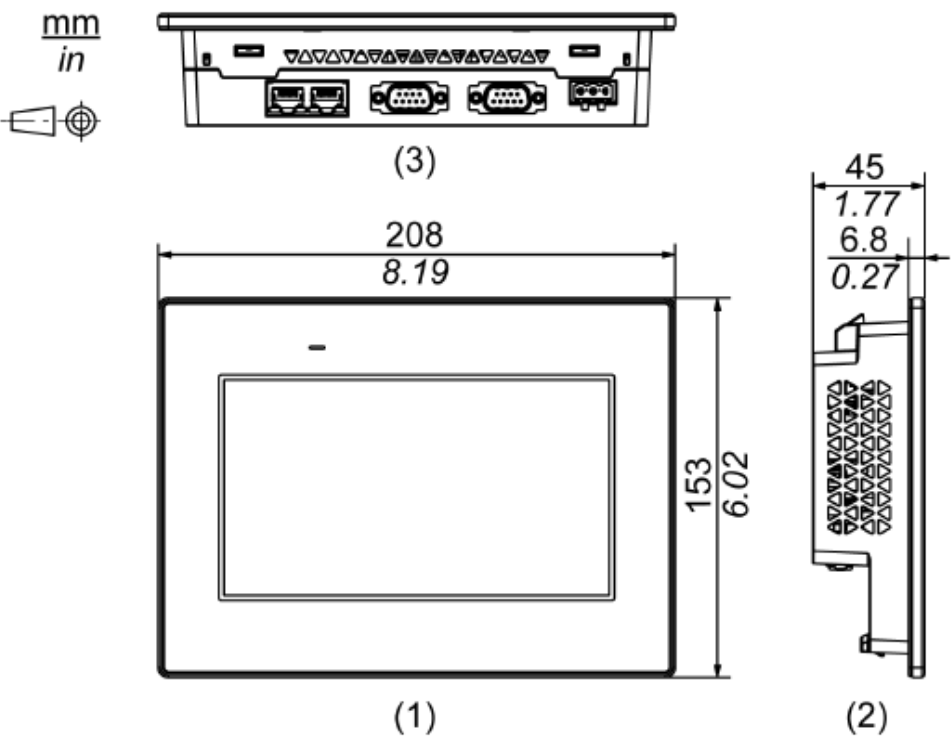
External Dimensions: GP-4301TM vs ST-6400WA

GP-4301TM	ST-6400WA	Differences from GP-4301TM to ST-6400WA (mm)
W163 x H129.4 x D56.5 (with Rear module)	W208 x H153 x D45	W+45 x H+23.6 x D-11.5

GP-4301TM



ST-6400WA



1. GP-4201TM vs ST-6200WA (GP-Pro EX) Spec Comparison

-1. Basic information-

		GP-4201TM	ST-6200WA (GP-Pro EX)	Compatibility
Display Size		3.5"	4.3"W	UP!
Display Type		TFT color LCD	TFT color LCD	✓
Display Colors		65,536 color	16 million color	UP!
Display Resolution		320 x 240 pixels (QVGA)	480 x 272 pixels (WQVGA)	- Need to change resolution setting by Software
Backlight		White LED (Not replaceable)	White LED (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%)	-
Panel Cutout Dimensions (mm)		Without an Anti-rotation Tee :22.50 x 1.5~6mm x 3~6mm With an Anti-rotation Tee:22.50 x 4.00mm x 30.00mm	W118.5 x H92.5 mm	-
External Dimensions		W118 x H98.15 x D56.3 (with Rear module)	W134.5 x H108.5 x D43 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 8MB	FLASH EPROM 64MB	UP! Please refer to the FAQ for the available capacity of each memory.
	Local Storage	-	-	
	Backup Memory	nvSRAM 128KB	MRAM 320KB	
Backup Battery		-	Replaceable battery/Primary battery for clock data backup	UP!
Input Voltage		DC 24V	DC 24V	✓
Mounting		22.5mm hole mount	Panel cut mount	-

1. GP-4201TM vs ST-6200WA (GP-Pro EX) Spec Comparison

-2. Interface-

		GP-4201TM	ST-6200WA (GP-Pro EX)	Compatibility
Serial I/F	COM1	RS-232C/RS-422/RS-485 (D-Sub 9pin Plug)	RS-232C/RS-422/RS-485 (D-Sub 9pin Plug) Isolation unit	✓ Please check the manual for the communication cable.
	COM2	-	-	✓
Ether net I/F		x1: IEEE802.3i/ IEEE802.3u, 10BASE-T/100BASE-TX (RJ-45)	x1: IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX (RJ-45)	✓
CF Card I/F		-	-	✓
SD Card I/F		-	-	✓
USB I/F	Type A	x1 USB2.0 -USB transfer cable (CA3-USBCB-01)	x1 USB 2.0	✓
	Type mini B	x1 USB2.0 -USB data transfer cable(ZC9USCBMB1) or commercial USB miniB transfer cable	-	- USB I/F changed from USB Type mini-B to Type micro-B.
	Type micro B	-	x1 USB 2.0 -USB transfer cable(PFXZUSCBMB2) or commercial USB microB transfer cable	
Auxiliary I/O I/F		-	-	✓
Sound Output I/F		-	-	✓
Field Bus / Expansion Unit I/F		-	-	✓

Hardware Manual: [ST6000 Series Hardware Manual](#)

1. GP-4301TM vs ST-6400WA (GP-Pro EX) Spec Comparison

-1. Basic information-

		GP-4301TM	ST-6400WA (GP-Pro EX)	Compatibility
Display Size		5.7"	7"W	UP!
Display Type		TFT color LCD	TFT color LCD	✓
Display Colors		65,536 color	16 million color	UP!
Display Resolution		320 x 240 pixels (QVGA)	800 x 480 pixels (WVGA)	- Need to change resolution setting by Software
Backlight		White LED (Not replaceable)	White LED (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%)	-
Panel Cutout Dimensions (mm)		Without an Anti-rotation Tee :22.50 x 1.5~6mm x 3~6mm With an Anti-rotation Tee:22.50 x 4.00mm x 30.00mm	W190 x H135 mm	-
External Dimensions		W163 x H129.4 x D56.5 (with Rear module)	W208 x H153 x D45 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 8MB	FLASH EPROM 64MB	UP! Please refer to the FAQ for the available capacity of each memory.
	Local Storage	-	-	
	Backup Memory	nvSRAM 128KB	MRAM 320KB	
Backup Battery		-	Replaceable battery/Primary battery for clock data backup	UP!
Input Voltage		DC 24V	DC 24V	✓
Mounting		22.5mm hole mount	Panel cut mount	-

1. GP-4301TM vs ST-6400WA (GP-Pro EX) Spec Comparison -2. Interface-

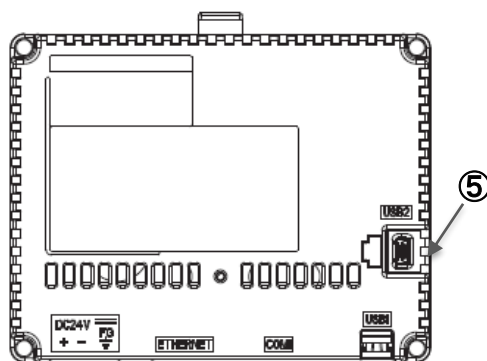
		GP-4301TM	ST-6400WA (GP-Pro EX)	Compatibility
Serial I/F	COM1	RS-232C/RS-422/RS-485 (D-Sub 9pin Plug)	RS-232C (D-Sub 9pin Plug) Isolation unit	✓ Please check the manual for the communication cable.
	COM2	-	RS-422/485 (D-Sub 9pin Plug)	UP!
Ethernet I/F		x1: IEEE802.3i/ IEEE802.3u, 10BASE-T/100BASE-TX (RJ-45)	x2: IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX (RJ-45)	UP!
CF card I/F		-	-	✓
SD card I/F		-	-	✓
USB I/F	Type A	x1 USB2.0 -USB transfer cable (CA3-USBCB-01)	x1 USB 2.0	✓
	Type mini B	x1 USB2.0 -USB data transfer cable(ZC9USCBMB1) or commercial USB miniB transfer cable	-	- USB I/F changed from USB Type mini-B to Type micro-B.
	Type micro B	-	x1 USB 2.0 -USB transfer cable(PFXZUSCBMB2) or commercial USB microB transfer cable	
Auxiliary I/O I/F		-	-	✓
Sound Output I/F		-	-	✓
Field Bus / Expansion Unit I/F		-	-	✓

Hardware Manual: [ST6000 Series Hardware Manual](#)

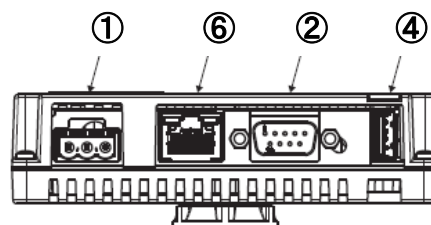
2. Standards compatibility

Certification	GP4000M Series	ST6000 Series (GP-Pro EX)
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)	✓	-
KCs	-	-
NEPSI	-	-
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	-
WEEE	✓	✓

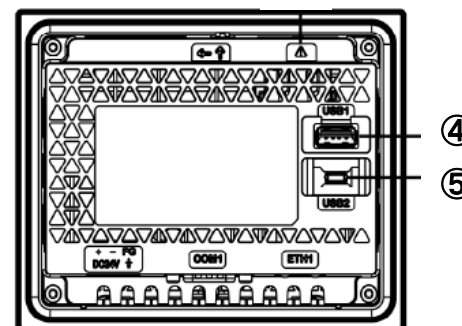
3. Hardware compatibility



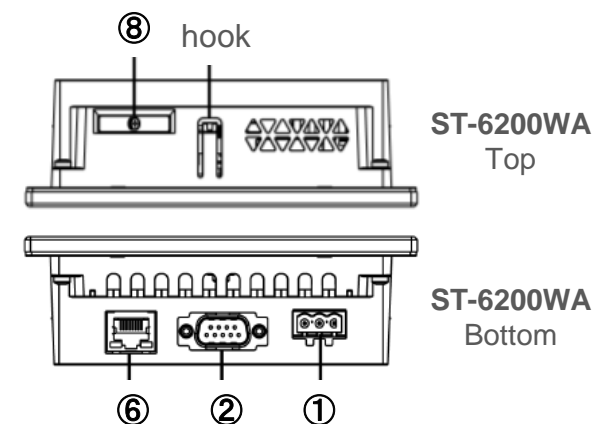
GP4000M
Rear Module Front



GP4000M
Bottom



ST-6200WA
Rear



ST-6200WA
Top

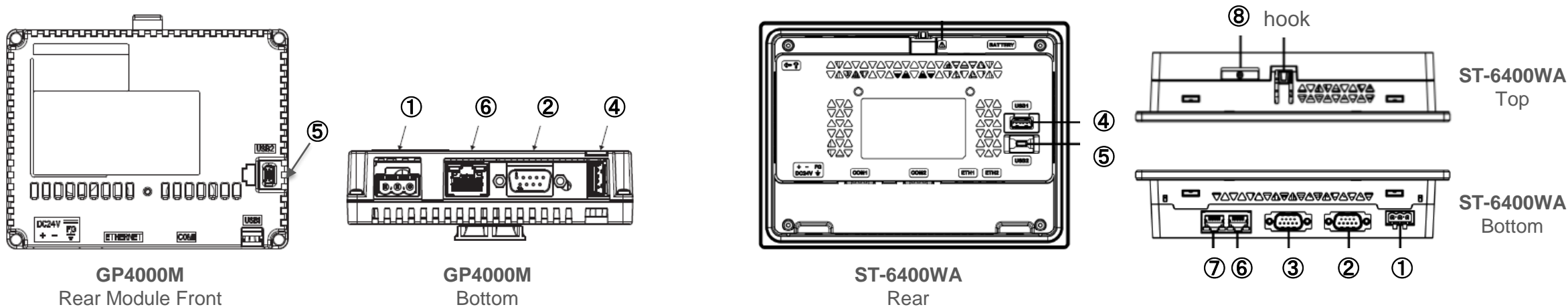
ST-6200WA
Bottom

	GP-4201TM	ST-6200WA (GP-Pro EX)
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	-	-
④	USB (Type A) Interface	USB (Type A) Interface *1
⑤	USB (mini-B) Interface	USB (micro-B) Interface
⑥	Ethernet Interface (ETH1)	Ethernet Interface(ETH1)
⑦	-	-
⑧	-	Battery Slot

*1: Interface of USB Type A changed from bottom to back of the module. Please be aware of the space in the panel.

Please check [ST6000 Series Hardware Manual](#) for details such as interface specifications and pin assignments.

3. Hardware compatibility

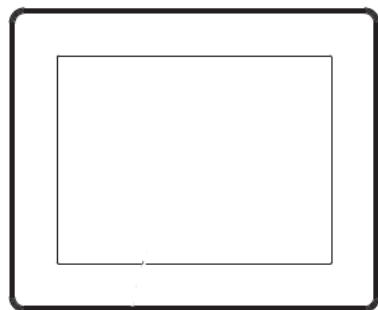


	GP-4301TM	ST-6400WA (GP-Pro EX)
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	-	Serial Interface (COM2)
④	USB (Type A) Interface	USB (Type A) Interface *1
⑤	USB (mini-B) Interface	USB (micro-B) Interface
⑥	Ethernet Interface (ETH1)	Ethernet Interface(ETH1)
⑦	-	Ethernet Interface(ETH2)
⑧	-	Battery Slot

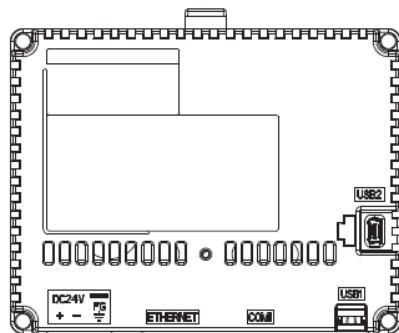
*1: Interface of USB Type A changed from bottom to back of the module. Please be aware of the space in the panel.

3. Hardware compatibility

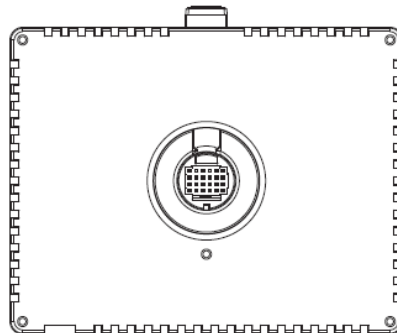
GP-4000M



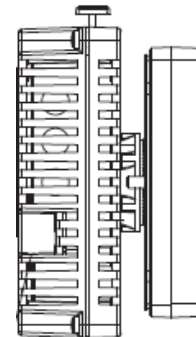
Display Module Front



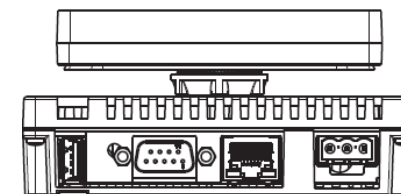
Rear Module Front



Rear Module Back



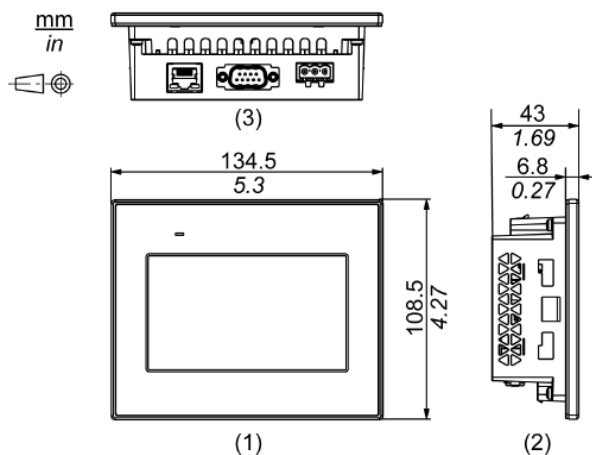
Right



Bottom

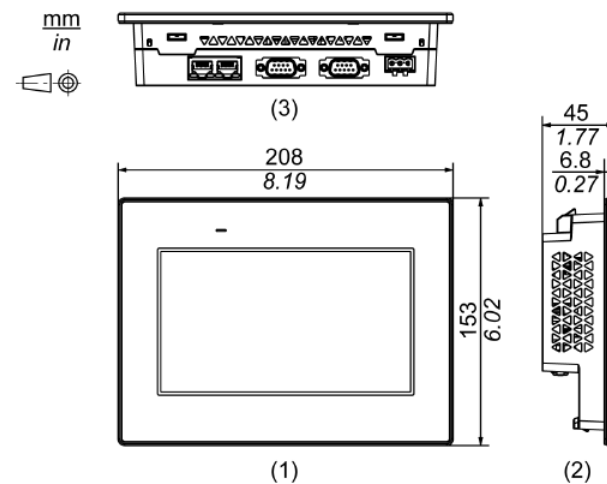
ST-6200WA

- (1) Front
- (2) Left
- (3) Bottom

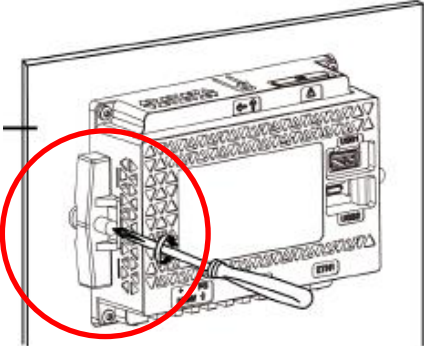
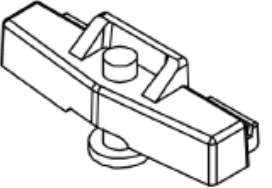
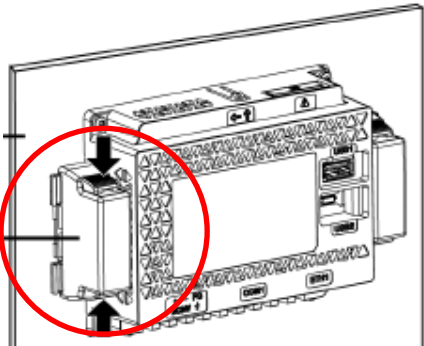

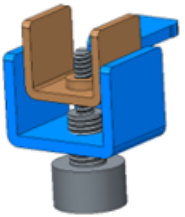
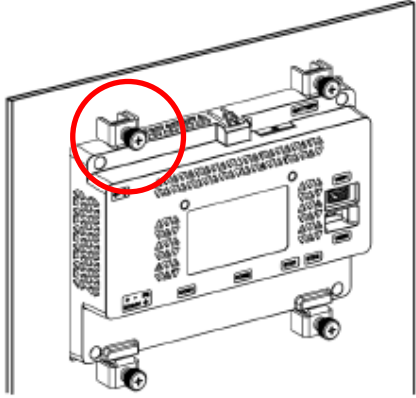
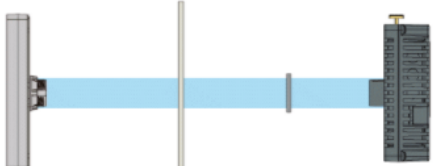


ST-6400WA

- (1) Front
- (2) Left
- (3) Bottom



3. Hardware compatibility – Difference in installation method

ST-6200WA	ST-6400WA	GP-4000M
<p data-bbox="129 315 978 379">There are 2 patterns for attaching 4"W model to a panel as shown below.</p> <div data-bbox="129 411 1029 753"><p data-bbox="575 439 1011 504">Fix it with the installation fastener enclosed in the package.</p></div> <div data-bbox="129 868 1029 1210"><p data-bbox="575 901 1029 965">Fix it with tool-less spring clip. (An option to be separately purchased)</p><p data-bbox="575 1208 1042 1300">*2 types of settings are possible according to the panel thickness. (1.5 to 4 mm, 4 to 6 mm)</p></div>	<div data-bbox="1156 325 1569 953"></div> <p data-bbox="1131 986 1564 1051">Fix it with the installation fastener enclosed in the package.</p> <p data-bbox="1131 1093 1702 1258">*The screw head side is bigger than before and has a jagged pattern for anti-slipping processing. You can fasten the screw with fingers even without a cross screwdriver. (Use the screwdriver when lack of torque.)</p>	<p data-bbox="1803 494 2364 522">Just make a $\phi 22\text{mm}$ [0.87 in.] circular hole.</p> <div data-bbox="1829 601 2303 815"><p data-bbox="1829 601 1946 615">* Image of 5.7" model</p><p data-bbox="1844 801 2303 815">Display module Enclosure Nut Rear module</p></div>

Please check [ST6000 Series Hardware Manual](#) for installation requirements and procedure.

4. Option compatibility – Serial Interface

Product Name	GP4000M	ST6000 (GP-Pro EX)	Description	Compatibility
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	Connects a host controller to the GP unit. (RS-422 / Socket Type)	✓
Mitsubishi 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)	✓
Omron 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)	✓
Mitsubishi A-Series Connection Cable (5m)	CA3-CBLA-01	CA3-CBLA-01	Connects Mitsubishi PLC A, QnA Series programming console I/F to GP unit. (Simultaneous use of programming console is not possible.)	✓
Mitsubishi 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 console is not possible.)	✓
Mitsubishi 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 console is not possible.)	✓
RS-422 Cable (5m)	CA3-CBL422-01	CA3-CBL422-01	Connects a host controller to the GP unit. (RS-422 / Plug Type)	✓
2 Port Adapter Cable (5m)	CA3-MDCB11	CA3-MDCB11	Connects Mitsubishi PLC to the GP unit using 2 port adapter II (RS-422).	✓
Mitsubishi A/QnA/FX Series 2 Port Adapter II	GP070-MD11	GP070-MD11	Allows simultaneous use of an GP unit Series unit and a Mitsubishi PLC A, QnA, FX Series peripheral device.	✓
Terminal Block Conversion Adapter	CA3-ADPTRM-01	CA3-ADPTRM-01	Connects output from a serial interface with an RS-422 terminal block.	✓
COM Port conversion Adapter	CA3-ADPCOM-01	CA3-ADPCOM-01	Connects optional RS-422 communication items to GP unit's COM1 port.	✓
Multi-Link Cable (5m)	CA3-CBLMLT-01	CA3-CBLMLT-01	Connects a host controller to the GP for multi-link (n:1) communication.	✓
9pin to 25pin RS-232C Conversion Cable (0.2m)	CA3-CBLCBT232-01	-	Connects a standard RS-232C cable (GP Connector, D-Sub 25-pin) to the GP.	-
9pin to 25pin RS-422 Conversion Cable (0.2m)	CA3-CBLCBT422-01	-	Connects a standard RS-422 cable (GP Connector, D-Sub 25-pin) to the GP.	-
MPI Cable (3.5m)	ST03-A2B-MPI21-PFE	ST03-A2B-MPI21-PFE	Connects a host controller to the GP unit for MPI communication.	✓
RS-422 Terminal Block Conversion Adapter	-	PFXZCBADTM1	Connects output from a serial interface (D-sub 9 pin plug) directly to an RS-422 terminal block.	NEW!
RS-232C Isolation Unit	-	CA3-ISO232-01	Connects a host controller to this product and provides isolation (RS-232C and RS-422 are switchable).	NEW!

4. Option compatibility – USB Interface

Product Name	GP4000M	ST6000 (GP-Pro EX)	Description	Compatibility
USB Cable (5m)	-	FP-US00	Connects a USB printer (Type B)	NEW!
USB Front Cable (1m)	CA5-USBEXT-01	CA5-USBEXT-01	Extension cable attaching USB interface to front panel.	✓
USB Clamp Type A (1 port)	-	PFXZCBCLUSA1	Clamp to prevent disconnection of USB cable (USB Type A, 1 port, 5 clamps/set).	NEW!
USB- Serial (RS-232C) Conversion Cable(0.5m)	CA6-USB232-01	CA6-USB232-01	Cable for converting a GP unit's USB interface into a serial interface (RS-232C). Can be used to transfer project data created with the Screen Editor & Logic Program Software via a serial interface.*1	✓
USB Transfer Cable (USB Type A/mini-B) (1.8m)	ZC9USCBMB1	-	Cable for transferring screen data from a PC (USB Type A) to the GP unit (USB mini-B).	- Use the option of ST6000 series
USB Transfer Cable (USB Type A/micro-B)	-	PFXZUSCBMB2	Cable for transferring screen data from a PC (USB Type A) to this product (USB micro-B)	
USB Panel-mount Extension Cable (USB mini-B) (1m)	ZC9USEXMB1	-	Extension cable attaching to the USB (mini-B) interface on the front side of the operation panel.	- Use the option of ST6000 series.
USB (micro-B) Front Cable	-	PFXZCIEXMB2	Extension cable that attaches USB interface to front panel.	
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 Illumination Switch	PFXZCCEUSG1	PFXZCCEUSG1	A unit of 5 illuminated switches with multiple color LED easily connected with GP unit via USB.	✓
EZ Fingerprint Recognition Unit	PFXZCCEUSS1	PFXZCCEUSS1	Fingerprint recognition unit easily connected with GP unit via USB. (End of Sale: Dec. 27, 2019)	✓
EZ Numpad	PFXZCCEUKB1	PFXZCCEUKB1	Numpad connected to this product via USB.	✓
EZ Tower Light tube mounting with fixing plate	PFXZCETWHA1	PFXZCETWHA1	USB Connection Type Monolithic EZ Tower Light tube mounting with fixing plate 3 tiers, Ǝ60, 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, Ǝ60, lighting and flashing with a buzzer.	✓

*1: Requires an RS-232C cable (Prepared by the user) for connection.

4. Option compatibility – Others

Product Name		GP4000M	ST6000 EX	Description	Compatibility
Screen Protection Sheet	3.5 inch	CA6-DFS4-01	-	Disposable, dirt-resistant sheet for the GP unit screen (5 sheets/set)	- Use the option of ST6000 series.
	5.7 inch	PFXZCBDS61	-		
UV Protection Sheet	3.5 inch	PFXZCFUV41	-	Sheet to protect the display from dirt and ultraviolet light (1 sheet / set)	
	5.7 inch	PFXZCFUV61	-		
Screen Protection Sheet with UV protected	4 inch wide	-	PFXZCIDS72	Disposable, dirt-resistant sheet for the display and ultra-violet protection sheet (1 sheet /set)	
	7 inch wide	-	PFXZCIDS42		
Display module	3.5 inch	PFXXM4200TP	-	Display module for GP4000M Series	
	5.7 inch	PFXXM4300TP	-		
Display module/Rear module separation cable	3m	PFXZXMADSM31	-	Cable with hook to install a rear module on a DIN rail while connecting the rear module to a separated display module. ^{*1}	- Installation method is different. Use the option of ST6000 series.
	5m	PFXZXMADSM51	-		
Rear module installation adapter		PFXZXMADSA1	-	DIN rail installation adapter for rear modules in non-display operation.	
Spring Clip		-	XBTZ3002	Fasteners to attach this product to the mounting surface for ST-6200WA.	

^{*1}: Available for the product which meets the requirements below.

Names	PV	RL	SV
GP-4201TM (Modular Type)	03 or later	07 or later	4.0 or later
GP-4301TM (Modular Type)	03 or later	08 or later	4.0 or later
GP-4000M (Rear Modular Type)	All revisions		

4. Option compatibility – Maintenance

Product Name		GP4000M	ST6000 EX	Description	Compatibility
Display Installation Nut		PFXZGMNT1	-	Nut to install the display module (10 pcs/set).	-
Socket Wrench		PFXZGMSW1	-	Socket wrench to tighten and loosen the display installation nut.	No need these options for ST6000 Series.
Accessories Kit		PFXZGMAK1	-	Anti-rotation Tee, USB cable clamp to prevent disconnection (Type A, Mini-B, for 1 port), 2mm-high spacer to adjust installation panel thickness (1 piece/each)	-
Installation Fastener	ST-6400WA	-	PFXZCIAFTF1	Installation fastener (2 pieces/set)	NEW! Use this option of ST6000 Series.
	ST-6200WA	-	PFXZCFAF31		
Installation Gasket	ST-6400WA	-	PFXZCIWG73	Provides dust and moisture resistance when this product is installed into a solid panel (1 piece).	NEW! GP4000M has non-removable gasket. Use this option of ST6000 Series.
	ST-6200WA	-	PFXZCIWG43		
DC Power Supply Connector		PFXZGMCNDC1	CA5-DCCNM-01	Connector to connect DC power supply cables (5 pcs/set)	- Use the option of ST6000 Series.
Battery for Data Backup		-	PFXZGEBT1	Primary battery for memory and time data backup (1 piece)	-

5. Software compatibility

Software	GP4000M	ST6000 (GP-Pro EX)	Compatibility of Project Data
GP-Pro EX	✔ Ver. 2.7 or later *1	✔ Ver. 4.09.200 or later	✔
	https://www.pro-face.com/otasuke/files/manual/gpproex/new/refer/gpproex.htm		
Pro-Server EX *2	✔ Ver. 1.32 or later	✔ Ver. 1.37.200 or later	✔
	https://www.pro-face.com/otasuke/files/manual/soft/server_ex/v1_37/ref/SRPreface.htm		
Pro-face Remote HMI (iOS/Android) *2	✔ Ver. 1.30 or later	✔ Ver. 1.30 or later	✔
	https://www.pro-face.com/otasuke/qa/remotehmi/faq.html		
Pro-face Remote HMI Client for Win *2	✔ Ver. 1.40 or later	✔ Ver. 1.40 or later	✔
	https://www.proface.com/en/product/soft/remotehmi_client/download		
Pro-face Connect *2	-	✔ SiteManager Ver. 9.4.621282042 or later	UP!
		https://www.proface.com/en/product/soft/proface_connect/download	

*1: To use some functions such as Alarm Analysis, Ver. 3.0 or later is required.

*2: The supported GP-Pro EX version differs depending on the software.

Software	Version	Supported GP-Pro EX Version
Pro-Server EX	1.32 or later	3.1 or later
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

6. Other Important notes

- Do not expose the hardware to direct sunlight.
To prevent deterioration due to ultraviolet rays, we recommend using an optional screen protection sheet with UV protected.
- 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.

