



# Easy! Smooth!

# Replacement Guidebook (Hardware)

GP4000M Series → ST6000 Series (GP-Pro EX)

The 1<sup>st</sup> Edition Dec. 2021

# Update History

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Date	Edition	Updated Slide	Description
2021/12/07		-	Newly created

# Preface

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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

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## 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)

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

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# 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.

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

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

<b>GP-4201TM</b>	3.5"	<b>ST-6200WA</b>	4.3"W
<b>GP-4301TM</b>	5.7"	<b>ST-6400WA</b>	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\_ver2. pdf".

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

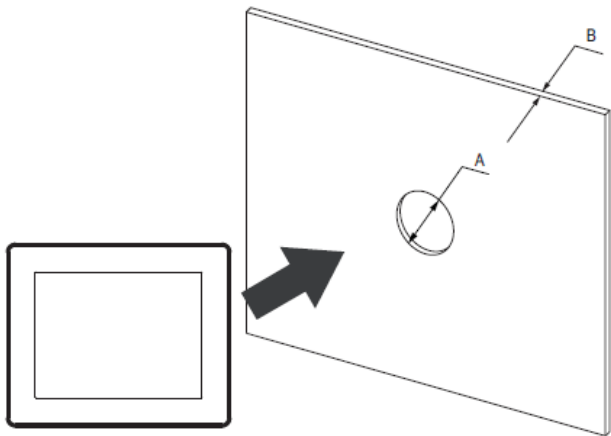
- External dimensions: ST6000 series are bigger than GP4000M series. It is necessary to check the dimensions of the HMI installation location.

# 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



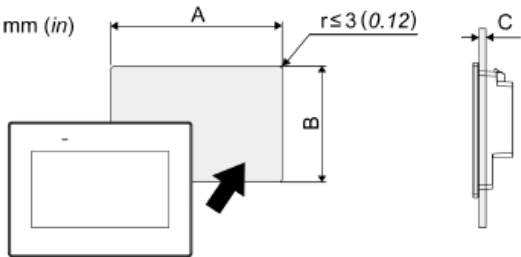
#### Dimensions

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				
<b>The Material of the panel</b>						
(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])	<b>NOTE:</b> For the positions, refer to the Installation Procedure (ST-6200WA) (see manual page 65)
ST-6500WA		
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])	

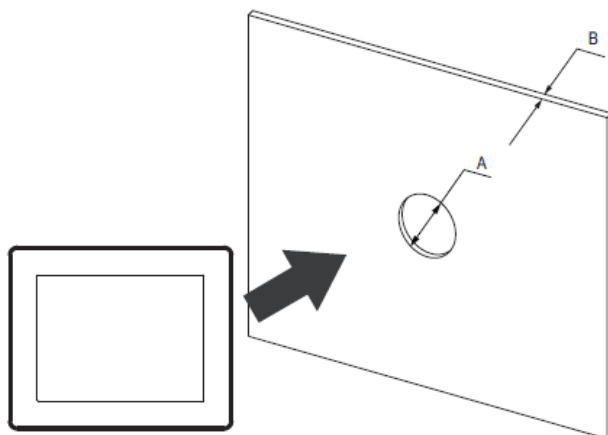


# Summary

## 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

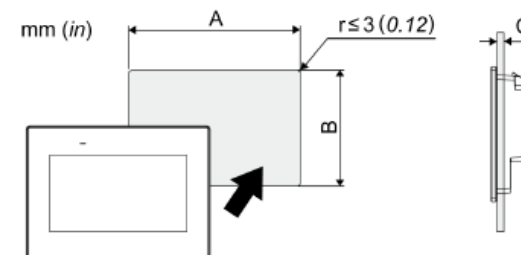
#### The Material of the panel

- (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)  <b>NOTE:</b> For the positions, refer to the Installation Procedure (ST-6200WA) (see manual page 65)
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		
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])	

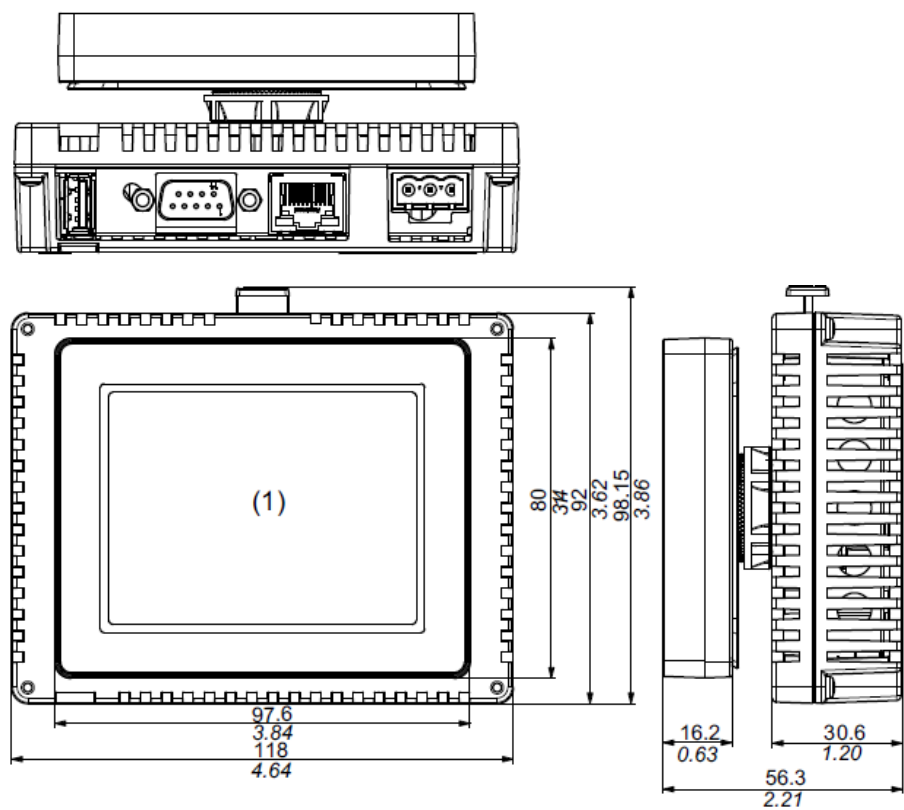


# Summary

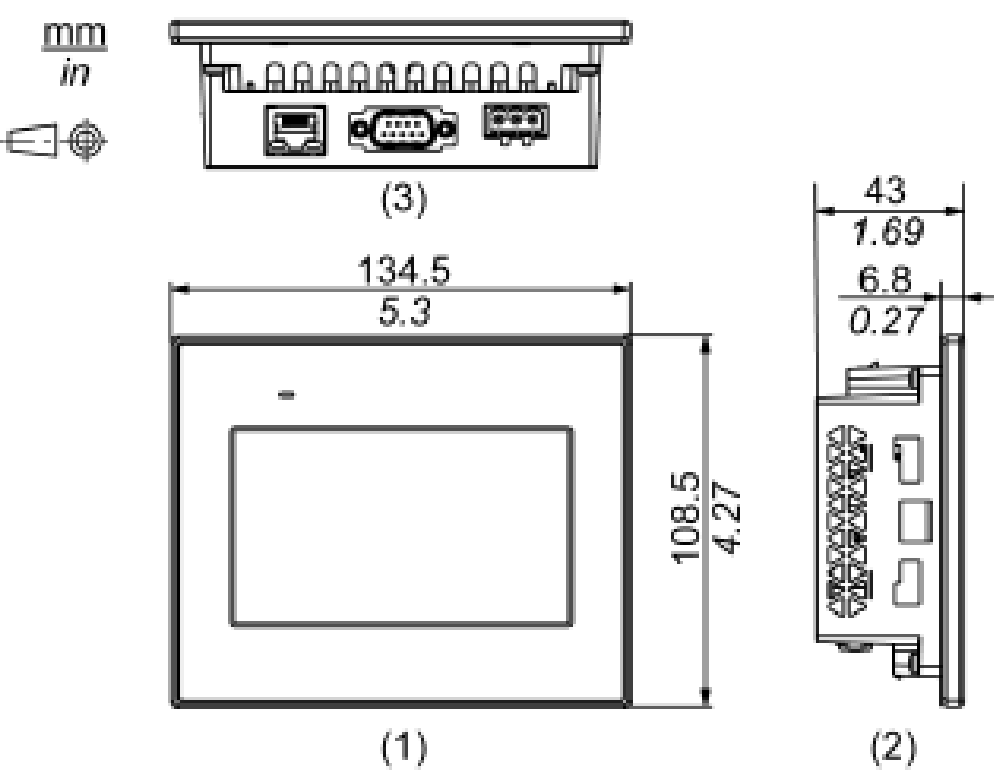
External Dimensions : GP-4201TM vs ST-6200WA

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

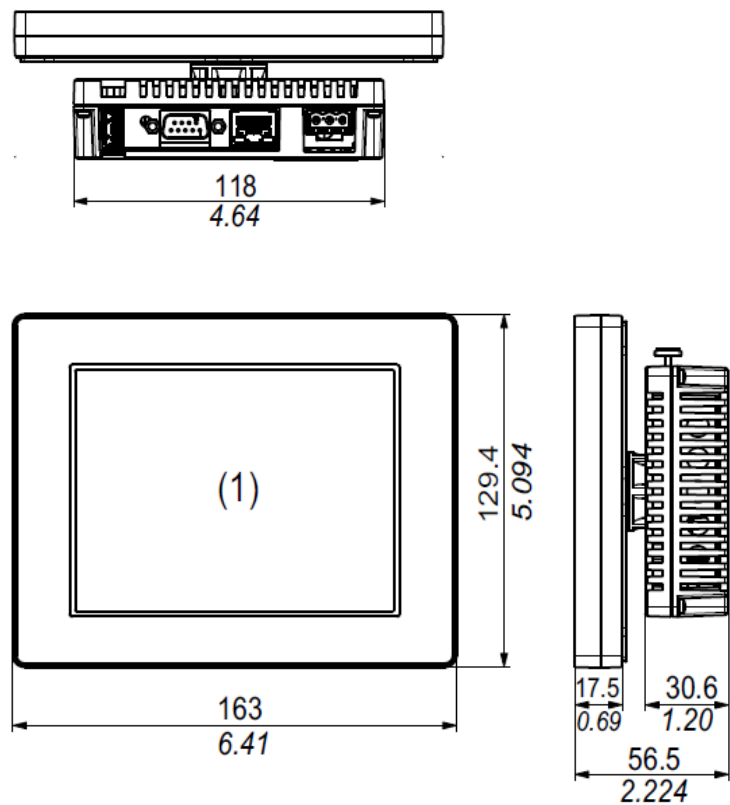


# Summary

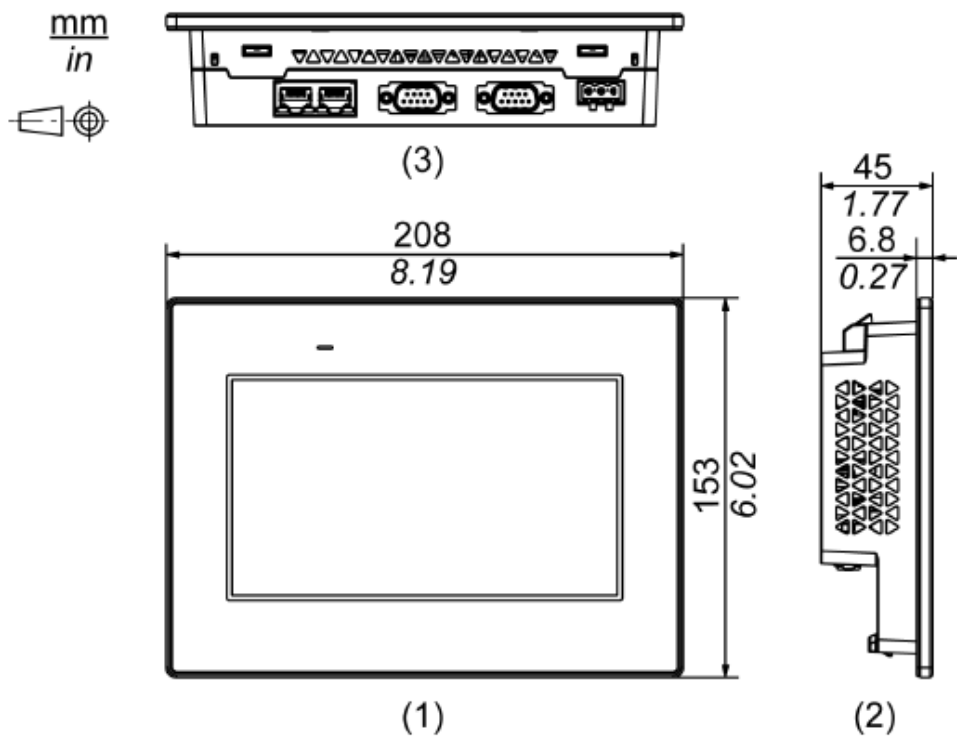
External Dimensions : GP-4301TM vs ST-6400WA

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)	× UP!
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! <a href="#">Please refer to the FAQ</a> 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		24Vdc	24Vdc	○
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) <a href="#">Isolation unit</a>	○ Please check the <a href="#">manual</a> 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	-	× Please use Type micro B instead.
	Type micro B	-	x1 USB 2.0 -USB transfer cable(PFXZUSCBMB2) or commercial USB microB transfer cable	UP!
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)	× UP!
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! <a href="#">Please refer to the FAQ</a> 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		24Vdc	24Vdc	○
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) <a href="#">Isolation unit</a>	○ Please check the <a href="#">manual</a> 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	-	× Please use Type micro B instead.
	Type micro B	-	x1 USB 2.0 -USB transfer cable(PFXZUSCBMB2) or commercial USB microB transfer cable	UP!
Auxiliary I/O I/F		-	-	○
Sound Output I/F		-	-	○
Field Bus / Expansion Unit I/F		-	-	○

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

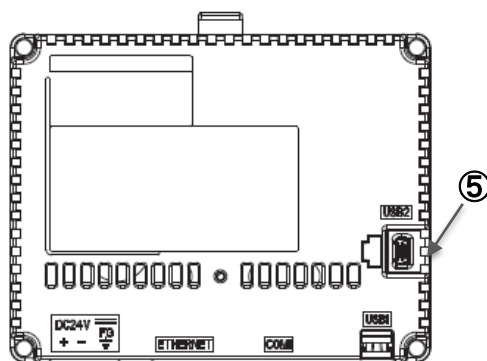
## 2. Standards compatibility

○: supported  
X: not supported

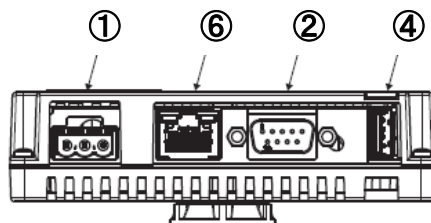
Certification	GP4000M Series	ST6000 Series (GP-Pro EX)
CE (EN61000-6-4, EN61000-6-2, EN61131-2)	○	○
UL/cUL	○ (UL508) (CSA C22.2 No.142)	○ (UL61010-2-201) (CSA C22.2 No.61010-2-201)
UL/cUL Class 1, Div. 2	○ (ANSI/ISA12.12.01) (CSA C22.2 No213)	○ (UL121201) (CSA C22.2 No213)
ATEX (Zones 2/22, equipment category 3 Gas Dust)	○	X
IECEx (Zones 2/22, equipment category 3 Gas Dust)		
KCs	X	X
NEPSI	X	X
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	X
WEEE	○	○



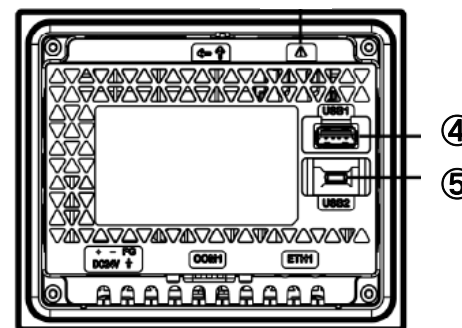
# 3. Hardware compatibility



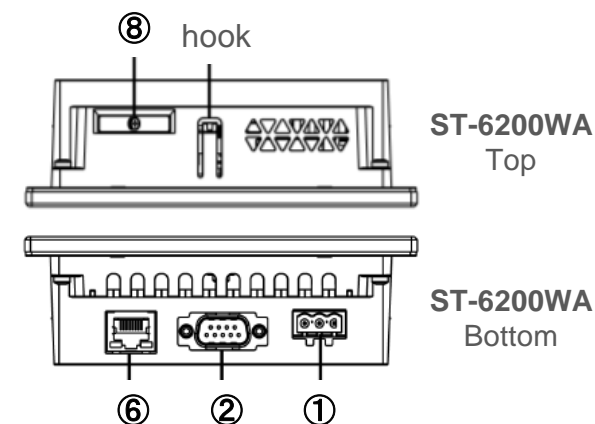
**GP4000M**  
Rear Module Front



**GP4000M**  
Bottom



**ST-6200WA**  
Rear



**ST-6200WA**  
Top

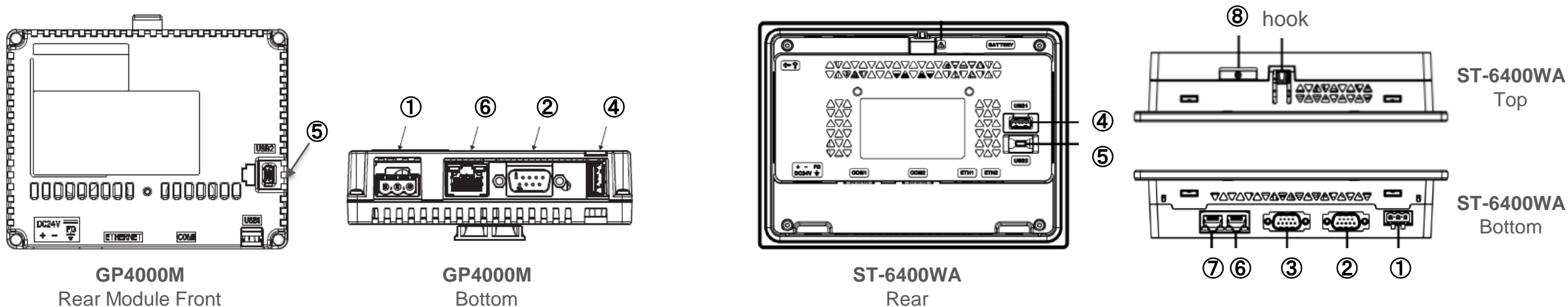
**ST-6200WA**  
Bottom

	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



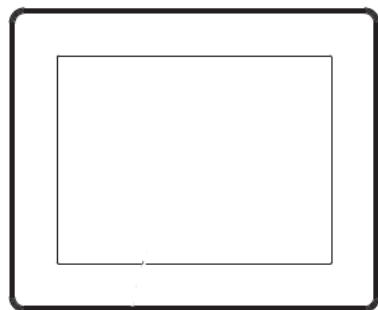
	GP-4301TM	ST-6400WA (GP-Pro EX)
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	-	Serial Interface (COM2)
④	USB (Type A) Interface	USB (Type A) Interface <sup>*1</sup>
⑤	USB (mini-B) Interface	USB (micro-B) Interface
⑥	Ethernet Interface (ETH1)	Ethernet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

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

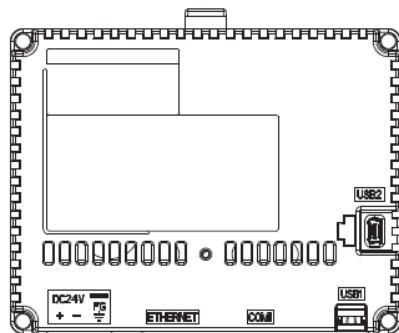
Please check [ST6000 Series Hardware Manual](#) for details such as interface specifications and pin assignments.

# 3. Hardware compatibility

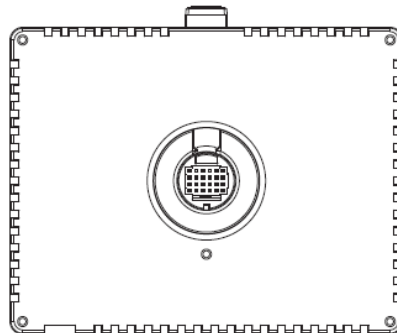
## GP-4000M



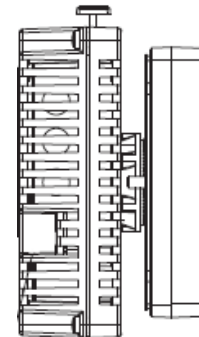
Display Module Front



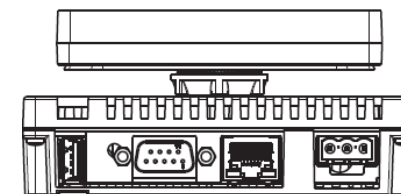
Rear Module Front



Rear Module Back



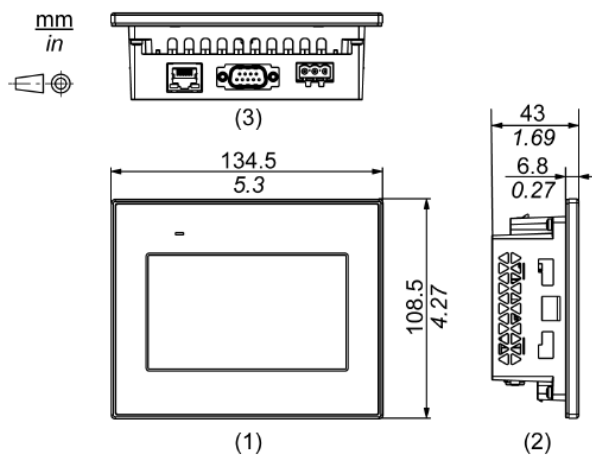
Right



Bottom

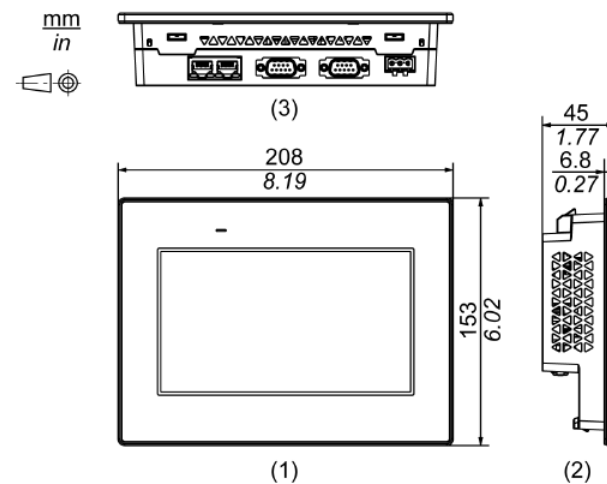
## ST-6200WA

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

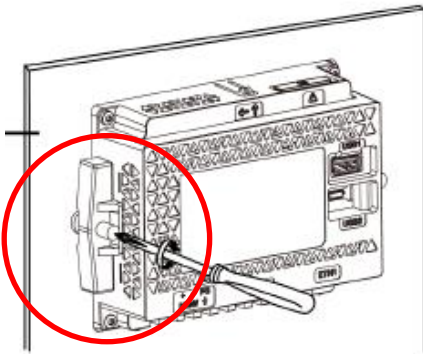
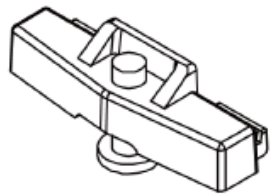
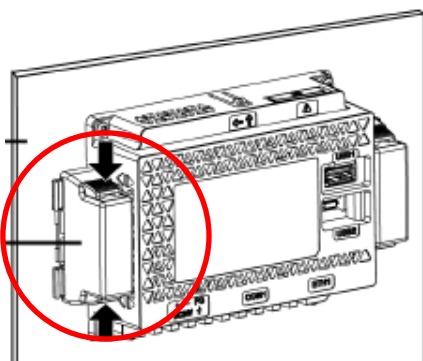

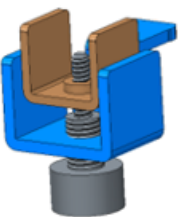
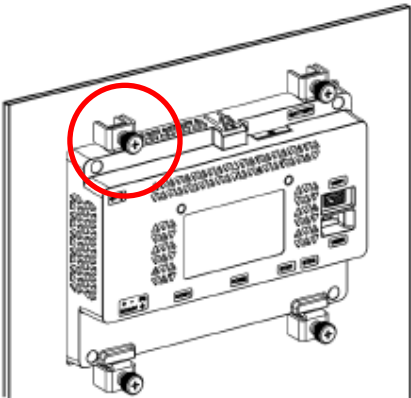
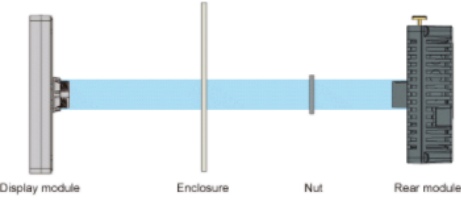


## ST-6400WA

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



### 3. Hardware compatibility – Difference in installation method

ST-6200WA	ST-6400WA	GP-4000M
<p data-bbox="127 314 980 378">There are 2 patterns for attaching 4"W model to a panel as shown below.</p> <div data-bbox="127 406 1031 756"><p data-bbox="573 435 1019 506">Fix it with the installation fastener enclosed in the package.</p></div> <div data-bbox="127 863 1031 1220"><p data-bbox="573 892 1031 963">Fix it with tool-less spring clip. (An option to be separately purchased)</p><p data-bbox="573 1206 1031 1306">*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="1159 321 1567 949"></div> <p data-bbox="1133 978 1567 1049">Fix it with the installation fastener enclosed in the package.</p> <p data-bbox="1133 1092 1694 1263">*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="1796 485 2369 521">Just make a <math>\phi 22\text{mm}</math> [0.87 in.] circular hole.</p> <div data-bbox="1821 592 2305 821"><p data-bbox="1821 599 1949 621">* Image of 5.7" model</p><p data-bbox="1847 792 2305 813">Display module      Enclosure      Nut      Rear module</p></div>

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

## 4. Option compatibility – Serial Interface

\* ○ Compatible  
× Not Compatible

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-CBLLNKM-01	CA3-CBLLNKM-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	CA3-CBLMLT-01 (5m)	CA3-CBLMLT-01 (5m)	Connects a host controller to the GP for multi-link (n:1) communication.	○
9pin to 25pin RS-232C Conversion Cable	CA3-CBLCBT232-01(0.2m)	-	Connects a standard RS-232C cable (GP Connector, D-Sub 25-pin) to the GP.	×
9pin to 25pin RS-422 Conversion Cable	CA3-CBLCBT422-01(0.2m)	-	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

\* ○ Compatible  
× Not Compatible

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. <sup>*1</sup>	○
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).	NEW! Use “PFXZUSCBMB2” USB micro-B Cable for 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.	NEW! Use “PFXZCIEXMB2” USB micro-B for 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.	○ <sup>*2</sup>
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.	○ <sup>*2</sup>

<sup>\*1</sup>: Requires an RS-232C cable (Prepared by the user) for connection.

<sup>\*2</sup>: Planned to be supported. Please contact our Customer Service for the latest information.

## 4. Option compatibility – Others

\* ○ Compatible  
× Not Compatible

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)	NEW! 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	NEW! 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

\* ○ Compatible  
× Not Compatible

Product Name		GP4000M	ST6000 EX	Description	Compatibility
Display Installation Nut		PFXZGMNT1	-	Nut to install the display module (10 pcs/set).	× No need these options for ST6000 Series.
Socket Wrench		PFXZGMSW1	-	Socket wrench to tighten and loosen the display installation nut.	
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 (1pcs/each)	×
Installation Fastener	ST-6400WA	-	PFXZCIAFTF1	Installation fastener (2 pieces/set)	NEW! Use this option for 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 for ST6000 Series.
	ST-6200WA	-	PFXZCIWG43		
DC Power Supply Connector		PFXZGMCNDC1	CA5-DCCNM-01	Connector to connect DC power supply cables (5 pcs/set)	NEW! Use the option of ST6000 Series.
Battery for Data Backup		-	PFXZGEBT1	Primary battery for memory and time data backup (1 piece)	×

# 5. Software compatibility

\* ○ Compatible  
× Not Compatible

Software	GP4000M	ST6000 (GP-Pro EX)	Compatibility of Project data
GP-Pro EX	✓ Ver.2.7 or later <sup>*1</sup> <a href="https://www.proface.co.jp/otasuke/files/manual/soft/gpproex/new/refer/gpproex.htm">https://www.proface.co.jp/otasuke/files/manual/soft/gpproex/new/refer/gpproex.htm</a>	✓ Ver 4.09.200 or later	○
BLUE	-	-	
Pro-Server EX	✓ Ver.1.32 or later <sup>*2</sup> <a href="https://www.proface.com/otasuke/files/manual/soft/server_ex/v1_37/ref/SRContents.htm">https://www.proface.com/otasuke/files/manual/soft/server_ex/v1_37/ref/SRContents.htm</a>	✓ Ver 1.37.200 or later <sup>*3</sup> <a href="https://www.proface.com/otasuke/files/manual/soft/server_ex/v1_37/ref/SRContents.htm">https://www.proface.com/otasuke/files/manual/soft/server_ex/v1_37/ref/SRContents.htm</a>	○
Pro-face Remote HMI (iOS/Android)	✓ Ver.1.30 or later <sup>*2</sup> <a href="https://www.pro-face.com/otasuke/qa/remotehmi/faq.html">https://www.pro-face.com/otasuke/qa/remotehmi/faq.html</a>	✓ Ver.1.30 or later <a href="https://www.pro-face.com/otasuke/qa/remotehmi/faq.html">https://www.pro-face.com/otasuke/qa/remotehmi/faq.html</a>	
Pro-face Remote HMI Client for Win	✓ Ver.1.40 or later <sup>*2</sup>	✓ Ver.1.40 or later	○
Pro-face Connect	-	✓ SiteManager Ver. 9.4.621282042 or later	

<sup>\*1</sup>: To use some functions such as Alarm Analysis, Ver. 3.0 or later is required.

<sup>\*2</sup>: The supported GP-Pro EX version differs depending on the software used.

Software	Version	Supported GP-Pro EX Version
Pro-Server EX	1.32 or later	3.1 or later
Pro-face Remote HMI (iOS/Android)	1.3x	4.0 or later
	1.4x, 1.5x, 1.6x	4.03 or later
Pro-face Remote HMI Client for Win	1.4 or later	4.03 or later

<sup>\*3</sup>: -Manual is not updated so ST6000, STM6000 is not mentioned. (Planned to be updated. Please contact our Customer Service for the latest information.)  
 -Only provided with full installer. (Update module and Online update will be released later. Please contact our Customer Service for the latest information.)

If you would like to check the software replacement procedure, please check the following.  
**Replacement Guidebook (Software)\_EN\_ver2. pdf**

## 6. Other Important notes

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

