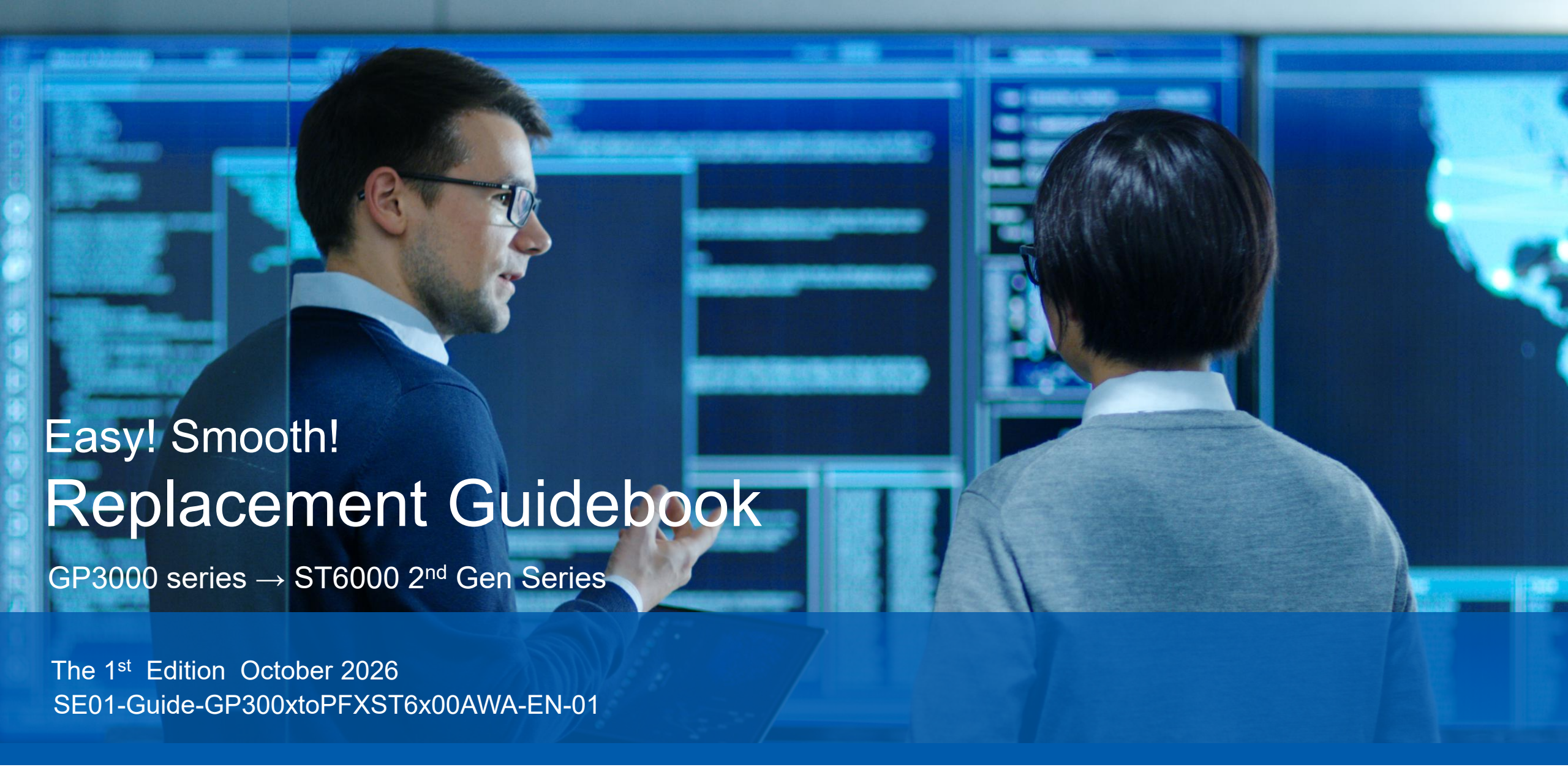


Easy! Smooth!

Replacement Guidebook

GP3000 series → ST6000 2nd Gen Series

The 1st Edition October 2026
SE01-Guide-GP300xtoPFXST6x00AWA-EN-01

*Products may be changed or discontinued without notice. Please check our website for the latest information.

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Update History

Date	Edition	Updated Slide	Description
2026/10/15		-	Newly created

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Safety Information

Important Information

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result** in minor or moderate injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation and has received safety training to recognize and avoid the hazards involved.

About this book

Document Scope

This guidebook introduces the procedures to replace a unit from “GP3000 Series” to “ST6000 2nd Gen Series”.
The recommended substitute models are as follows.
* The ST6000 2nd Gen Series lineup consists only of the "wide" model; the 4x3 version is not supported.

Model in use			Recommended substitutes
GP-3200T	AGP3200-T1-D24 (PFXGP3200TAD) *1	→	PFXST6200AWADI
GP-3200T	AGP3200-T1-D24-M (PFXGP3200TADC) *1*4		
GP-3200A	AGP3200-A1-D24 (PFXGP3200AAD) *2		
GP-3300S	AGP3300-S1-D24 (PFXGP3300SAD)*1	→	PFXST6400AWADI
GP-3300L	AGP3300-L1-D24 (PFXGP3300LAD)*1		
	AGP3300-L1-D24-M (PFXGP3300LADC)*1*4		
GP-3301S	AGP3301-S1-D24 (PFXGP3301SAD)*1		
GP-3301L	AGP3301-L1-D24 (PFXGP3301LAD)*1		
	AGP-3301-L-D24-M (PFXGP3301LADC)*1*4		
GP-3400S	AGP3400-S1-D24 (PFXGP3400SAD)*1	→	
GP-3500S	AGP3500-S1-D24 *3	→	PFXST6600AWADI
	AGP3500-S1-D24-M *3*4		
	AGP3500-S1-AF *3		

*1: End of Sale on September 30, 2013.
*2: End of Sale on July 21, 2013.
*3: End of Sale on October 31, 2013.
*4: This is a coated model. As for ST6000 Series 2nd Gen, there is no coated model in Standard lineup. You can request the coated model as Customization. For the detail, please contact Customer Service.

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About this book

Validity Note

This documentation is valid for this product.
The technical characteristics of the devices described in the present document also appear online. To access the information online, go to our website.
https://www.pro-face.com

The characteristics presented in the present document should be the same as those that appear online. In line with our policy of constant improvement we may revise content over time to improve clarity and accuracy. In the event that you see a difference between the document and online information, use the online information as your reference.

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About this book

Related Documents

You can download the manuals related to this product, such as the software manual, from our website.
https://www.proface.com/en/download/search

Product Related Information

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Remove all power from the device before removing any covers or elements of the system, and prior to installing or removing any accessories, hardware, or cables.
- Unplug the power cable from both this product and the power supply prior to installing or removing the product.
- Always use a properly rated voltage sensing device to confirm power is off where and when indicated.
- Replace and secure all covers or elements of the system before applying power to this product.
- Verify whether your device is DC or AC powered before applying power and use only the specified voltage when operating this product and any associated products.

Failure to follow these instructions will result in death or serious injury.

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About this book

⚠DANGER

EXPLOSION HAZARD

- Do not use this product in hazardous environments.
- Do not connect or disconnect this product unless power has been switched off or the area is known to be non-hazardous.
- Do not attempt to install, operate, modify, maintain, service, or otherwise alter this product except as permitted in this manual.
- Confirm that the USB cable has been attached with the USB cable clamp before using the USB interface.
- Use the USB (micro-B) interface for temporary connection only during maintenance and setup of the device.

Failure to follow these instructions will result in death or serious injury.

For PFXST6•00TA installation in hazardous location, refer to Hazardous Location Installation - For USA

.

Critical alarm indicators and system functions require independent and redundant protection hardware and/or mechanical interlocks.

Please design a safety circuit external to this product so that the entire system operates safely even if the external power supply or this product fails or malfunctions.

When you cycle power, wait at least 10 seconds after it has been turned off. If this product is restarted too quickly, it may not operate correctly.

Do not create any switches on the touch panel that may cause personal injury, property damage, or compromise the safety of the equipment. Design the system so that controls for important operations are managed by devices other than this product, or by independent hardware switches.
In the event the screen cannot be properly read, for example, if the backlight is not functioning, it may be difficult or impossible to identify a function. Functions that may present a hazard if not immediately executed, such as a fuel shut-off, must be provided independently of this product.

⚠WARNING

LOSS OF CONTROL

- The designer of any control scheme must consider the potential failure modes of control paths and, for certain critical control functions, provide a means to achieve a safe state during and after a path failure. Examples of critical control functions are emergency stop and overtravel stop, power outage and restart.
- Separate or redundant control paths must be provided for critical control functions.
- System control paths may include communication links. Consideration must be given to the implications of unanticipated transmission delays or failures of the link.
- Observe all accident prevention regulations and local safety guidelines.
- Each implementation of this product must be individually and thoroughly tested for proper operation before being placed into service.
- The machine control system design must take into account the possibility of the backlight no longer functioning and the operator being unable to control the machine, or making errors in the control of the machine.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

For additional information, refer to NEMA ICS 1.1 (latest edition), "Safety Guidelines for the Application, Installation, and Maintenance of Solid State Control" and to NEMA ICS 7.1 (latest edition), "Safety Standards for Construction and Guide for Selection, Installation and Operation of Adjustable-Speed Drive Systems" or their equivalent governing your particular location.

About this book

⚠WARNING

UNINTENDED EQUIPMENT OPERATION

- The application of this product requires expertise in the design and programming of control systems. Only persons with such expertise should be allowed to program, install, alter, and apply this product.
- Do not use this product as the only means of control for critical system functions such as motor start/stop or power control.
- Do not use this equipment as the only notification device for critical alarms, such as device overheating or overcurrent.
- Use only the software provided with this product. If you use other software, please confirm the operation and safety before use.
- Follow all applicable safety standard, local regulations and directives.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

The following characteristics are specific to the LCD panel and are considered normal behavior:

• LCD screen may show unevenness in the brightness of certain images or may appear different when seen from outside the specified viewing angle. Extended shadows, or crosstalk may also appear on the sides of screen images.

• LCD screen pixels may contain black and white colored spots and color display may seem to have changed.

• When experiencing vibrations within a certain frequency range and vibration acceleration is above what is acceptable, the LCD screen may partially turn white. Once the vibration condition ends, the whitening of the screen is resolved.

• When the same image is displayed on the screen for a long period, an afterimage may appear when the image is changed.

• The panel brightness may decrease when used for a long time in an environment continuously filled with inert gas. To prevent deterioration of panel brightness, regularly ventilate the panel. For more information, please contact customer support.
https://www.pro-face.com/trans/en/manual/1015.html

⚠WARNING

SERIOUS EYE AND SKIN INJURY

The liquid in the LCD panel contains an irritant:

- Avoid direct skin contact with the liquid.
- Wear gloves when you handle a broken or leaking unit.
- Do not use sharp objects or tools in the vicinity of the LCD panel.
- Handle the LCD panel carefully to prevent puncture, bursting, or cracking of the panel material.
- If the panel is damaged and any liquid comes in contact with your skin, immediately rinse the area with running water for at least 15 minutes. If the liquid gets in your eyes, immediately rinse your eyes with running water for at least 15 minutes and consult a doctor.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

NOTICE

REDUCTION OF SERVICE LIFE OF PANEL

Change the screen image periodically and try not to display the same image for a long period of time.

Failure to follow these instructions can result in equipment damage.

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Cybersecurity

General Cybersecurity Information

In recent years, the growing number of networked machines and production plants has seen a corresponding increase in the potential for cyber threats, such as unauthorized access, data breaches, and operational disruptions. You must, therefore, consider all possible cybersecurity measures to help protect assets and systems against such threats.

To help keep your Pro-face products secure and protected, it is in your best interest to implement the cybersecurity best practices as described in the Cybersecurity Best Practices document.

Pro-face provides additional information and assistance:
- Visit the Security Notification page to find security notifications.
- Contact us to report vulnerabilities and incidents.

Product Related Cybersecurity Information

Refer to Cybersecurity

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Federal Communication Commission Radio Frequency Interference Statement - USA

FCC Radio Interference Information

This product has been tested and found to comply with the Federal Communications Commission (FCC) limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial, industrial or business environment.
This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause or be subject to interference with radio communications. To minimize the possibility of electromagnetic interference in your application, observe the following two rules:

- Install and operate this product in such a manner that it does not radiate sufficient electromagnetic energy to cause interference in nearby devices.
- Install and test this product to ensure that the electromagnetic energy generated by nearby devices does not interfere with the operation of this product.

⚠WARNING

ELECTROMAGNETIC / RADIO INTERFERENCE, UNINTENDED EQUIPMENT OPERATION

Check for electromagnetic and radio interference. If interference is detected, take the following actions.

- Increase the distance between this product and the interfering equipment.
- Reorient this product and the interfering equipment.
- Reroute power and communication lines to this product and the interfering equipment.
- Connect this product and the interfering equipment to different power supplies.
- Always use shielded cables when connecting this product to a peripheral device or another computer.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this product.

Product Related Cybersecurity Information

Cybersecurity Guideline

Use this product inside a secure industrial automation and control system. Total protection of components (equipment/devices), systems, organizations, and networks from cyber attack threats requires multi-layered cyber risk mitigation measures, early detection of incidents, and appropriate response and recovery plans when incidents occur. For more information about cybersecurity, refer to the Pro-face HMI/IPC Cybersecurity Guide.
https://www.proface.com/en/download/manual/cybersecurity_guide

⚠WARNING

POTENTIAL COMPROMISE OF SYSTEM AVAILABILITY, INTEGRITY, AND CONFIDENTIALITY

- Change default passwords at first use to help prevent unauthorized access to device settings, controls and information.
- Disable unused ports/services and default accounts, where possible, to minimize pathways for malicious attacks.
- Place networked devices behind multiple layers of cyber defenses (such as firewalls, network segmentation, and network intrusion detection and protection).
- Apply the latest updates and hotfixes to your Operating System and software.
- Use cybersecurity best practices (for example: least privilege, separation of duties) to help prevent unauthorized exposure, loss, modification of data and logs, interruption of services, or unintended operation.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

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2 Hardware Section

- 2-1 Specification Comparison
- 2-2 Standards Compatibility
- 2-3 Interface Compatibility
- 2-4 Installation Method Compatibility
- 2-5 Option Compatibility
- 2-6 Other Important Notes on Hardware

3 Software Section

- 3-1 Replacement Procedure
- 3-2 Software Compatibility
- 3-3 Other Important Notes on Software

1. Summary

When replacing from GP3000 Series to ST6000 2nd Gen Series please note the following points.

- The display type is different between GP3000 Series and ST6000 2nd Gen Series. As the screen may look different, please check on the actual unit.
- The display resolution is different, so you need to convert resolution by the software to use old project data. To check the replacement procedure, refer to 3. Software Section in this document.

GP-3200T/A（3.5”）	320 x 240 pixel (QVGA)	PFXST6200AWADI (4.3”)	480 x 272 pixel (WQVGA)
GP-3300S/L, GP-3301S/L, GP-3302B (5.7”)	320 x 240 pixel (QVGA)	PFXST6400AWADI (7”)	800 x 480 pixel（WVGA）
GP-3400S(7.5")	640 x 480 pixel（VGA）		
GP-3500S (10.4")	640 x 480 pixel (VGA)	PFXST6600AWADI (12.1”)	1,280 x 800pixel (WXGA)

- External dimensions: As the external dimensions are different, it is necessary to check the dimensions of the HMI installation location.

GP-3200T/A（3.5"）	W130 x H104 x D40 mm	PFXST6200AWADI (4.3”)	W134.5 x H108.5 x D43 mm
GP-3300S/L, GP-3301S/L GP-3302B (5.7”)	W167.5×H135×D59.5mm	PFXST6400AWADI (7")	W208 x H153 x D45 mm
GP-3400S(7.5")	W215 x H170 x D60 mm		
GP-3500S (10.4")	W313 x H239 x D56 mm	PFXST6600AWADI (12.1")	W313 x H235 x D50 mm

- Panel Cut Dimensions: As the panel cut dimensions are not compatible, it is necessary to adjust the panel size.

GP-3300S/L, GP-3301S/L GP-3302B (5.7")	W156 x H123.5 mm	PFXST6400AWADI(7")	W190 x H135 mm
GP-3400S(7.5")	W204.5 x H159.5 mm		
GP-3500S (10.4")	W301.5 x H227.5 mm	PFXST6600AWADI (12.1")	W295 x H217 mm

1. Summary

- Serial Interface: The serial interface specifications differ between the GP3000 series and the ST6000 series (2nd Generation). For details, please refer to the "Serial Interface" section under "2-5. Other Important Notes on Hardware"
- CF Card Interface: The ST6000 series (2nd Generation) is not equipped with a CF card interface. To continue using functions that relied on a CF card, please use a USB flash drive as a substitute.
- Auxiliary I/O (AUX) Interface: Please note that features used on the GP3000 series—such as the external reset input and the three output points (RUN output, system alarm output, and external buzzer output)—are not available on the ST6000 series (2nd Generation).
- Audio Output Interface: Please note that the audio output function used on the GP3000 series is not available on the ST6000 series (2nd Generation).
- Expansion Units: The ST6000 series (2nd Generation) is not equipped with an expansion unit interface. Please note that expansion units used with the GP3000 series cannot be used.
- Power Supply: The ST6000 series (2nd Generation) is available only in a DC power supply model. Replacing an AC power supply model requires switching to a DC power supply.
- USB Interface (Type A): While the GP-3500S has two USB ports (Type A), the ST6000 series (2nd Generation) has only one. If you were using two ports, please use a USB hub to connect multiple devices. For details, please refer to the "USB Interface (Type A)" section under " 2-5. Other Important Notes on Hardware.“
- The screen transfer through the USB Type A port is not supported.
- ST6000 2nd Gen Series Advanced model is equipped with System Settings separate from offline mode. In the System Settings, you can configure the product’s hardware configuration and network settings such as IP addresses.
- For more information about the System Settings, refer to ST6000 2nd Gen Series System Settings User Guide.

2. Hardware Section

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2-1. GP-3200T/A vs PFXST6200WADI Specification Comparison - 1. Basic Information -

		GP-3200T	GP-3200A	PFXST6200AWADI	Points to note when replacing
Display type		TFT Color LCD	Monochrome Amber/Red LCD	TFT color LCD	
Display size		3.5”		4.3”	
Resolution		320 x 240 pixels (QVGA)		480 x 272 pixels (WQVGA)	Need to change resolution setting by software
Display colors		256 colors (without blink) 64 colors (with blink)	Black and White (8 shades)	16 million colors	
Backlight		White LED (Not user replaceable)	Amber/Red LED (Not user replaceable)	White LED (not replaceable)	Backlight is not replaceable
Backlight service life		40,000 hours or more (continuous operation at 25° C before backlight brightness decreases to 50%)	50,000 hours or more (continuous operation at 25° C before backlight brightness decreases to 50%)	50,000 hours or more (continuous operation at 25° C before backlight brightness decreases to 25%)	
Panel cut dimensions		W118.5 x H92.5 mm		W118.5 x H92.5 mm	
External dimensions		W130 x H104 x D40 mm		W134.5 x H108.5 x D43 mm	
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 memory	FLASH EPROM 6MB		eMMC Flash 64MB	
	Backup memory	SRAM 320KB		NVRAM 320KB	
Battery (clock data backup)		Rechargeable battery / Secondary battery		Replaceable battery / Primary battery	Battery can be replaced by user
Rated input voltage		DC 24V		DC 24V	
Power Consumption		13W or less		6.9W or less	

2-1. GP-3200T/A vs PFXST6200WADI Specification Comparison - 2. Interface -

		GP-3200T	GP-3200A	PFXST6200AWADI	Points to note when replacing
Serial I/F	COM1	RS-232C/422/485（D-Sub 9pin Plug）		RS-232C/RS-422/RS-485 (D-Sub 9pin Plug)	Please refer to 2.5. Other important notes on Hardware in this document.
	COM2	-		-	
Ethernet I/F		10BASE-T/100BASE-TX (RJ-45) x 1		10BASE-T/100BASE-TX (RJ-45) x 1	
CF Card I/F		-		-	
SD Card I/F		-		-	
USB I/F	Type A	USB 1.1 x 1 - USB transfer cable (CA3-USBCB-01)		USB 2.0 x1	No screen data transfer via Type A
	Type mini-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		-		-	
Expansion Unit I/F		-		-	

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2-1. GP-3300S/L, GP-3301S/L vs PFXST6400AWADI Specification Comparison - 1. Basic Information -

		GP-3300S GP-3301S	GP-3300L GP-3301L	PFXST6400AWADI	Points to note when replacing
Display type		STN Color LCD	Monochrome LCD	TFT color LCD	
Display size		5.7”		7”	
Resolution		320 x 240 pixels (QVGA)		800 x 480 pixels (WVGA)	Need to change resolution setting by software
Display colors		4,096 colors	Black and White (16 shades)	16 million colors	
Backlight		CCFL (Not user replaceable)		White LED (not replaceable)	Backlight is not replaceable
Backlight service life		75,000 hours or more (continuous operation at 25° C before backlight brightness decreases to 50%)	58,000 hours or more (continuous operation at 25° C before backlight brightness decreases to 50%)	50,000 hours or more (continuous operation at 25° C before backlight brightness decreases to 25%)	
Panel cut dimensions		W156 x H123.5 mm		W190 x H135 mm	Need to adjust the panel size
External dimensions		W167.5×H135×D59.5mm		W208 x H153 x D45 mm	
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 memory	FLASH EPROM 6MB		eMMC Flash 64MB	
	Backup memory	SRAM 320KB		NVRAM 320KB	
Battery (clock data backup)		Rechargeable battery / Secondary battery		Replaceable battery / Primary battery	Can be replaced by user
Rated input voltage		DC 24V		DC 24V	
Power Consumption		26W or less		9.6 W or less	

2-1. GP-3300S/L, GP-3301S/L vs PFXST6400AWADI Specification Comparison - 2. Interface -

		GP-3300S GP-3301S	GP-3300L GP-3301L	PFXST6400AWADI	Points to note when replacing
Serial I/F	COM1	RS-232C/422/485（D-Sub 9pin Plug）		RS-232C (D-Sub 9pin Plug)	Please refer to 2.5. Other important notes on Hardware in this document.
	COM2	RS-422/485（D-Sub 9pin Socket）		RS-422/485 (D-Sub 9pin Plug)	
Ethernet I/F		10BASE-T/100BASE-TX (RJ-45) x 1 (GP-3300S/L only)		10BASE-T/100BASE-TX (RJ-45) x 2	
CF Card I/F		✔		-	To keep using the functions that were working with CF Card, use a USB Memory instead.
SD Card I/F		-		-	
USB I/F	Type A	USB 1.1 x 1 - USB transfer cable (CA3-USBCB-01)		USB 2.0 x1	No screen data transfer via Type A.
	Type mini-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		-		-	
Expansion Unit I/F		✔		-	The expansion unit (such as CC-LINK Unit) for GP3300 Series cannot be used.

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2-1. GP-3302B vs PFXST6400AWADI Specification Comparison - 1. Basic Information -

		GP-3302B	PFXST6400AWADI	Points to note when replacing
Display type		Blue-mode Monochrome LCD	TFT color LCD	
Display size		5.7”	7”	
Resolution		320 x 240 pixels (QVGA)	800 x 480 pixels (WVGA)	Need to change resolution setting by software
Display colors		16 shades	16 million colors	
Backlight		CCFL (Not user replaceable)	White LED (not replaceable)	Backlight is not replaceable
Backlight service life		58,000 hours or more (continuous operation at 25° C before backlight brightness decreases to 50%)	50,000 hours or more (continuous operation at 25° C before backlight brightness decreases to 25%)	
Panel cut dimensions		W156 x H123.5 mm	W190 x H135 mm	Need to adjust the panel size
External dimensions		W167.5×H135×D59.5mm	W208 x H153 x D45 mm	
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 memory	FLASH EPROM 6MB	eMMC Flash 64MB	
	Backup memory	SRAM 128KB	NVRAM 320KB	
Battery (clock data backup)		Rechargeable battery / Secondary battery	Replaceable battery / Primary battery	Can be replaced by user
Rated input voltage		DC 24V	DC 24V	
Power Consumption		18W or less	9.6 W or less	

2-1. GP-3302B vs PFXST6400AWADI Specification Comparison - 2. Interface -

		GP-3302B	PFXST6400AWADI	Points to note when replacing
Serial I/F	COM1	RS-232C（D-Sub 9pin Plug）	RS-232C (D-Sub 9pin Plug)	Please refer to 2.5. Other important notes on Hardware in this document.
	COM2	RS-422/485（D-Sub 9pin Plug）	RS-422/485 (D-Sub 9pin Plug)	
Ethernet I/F		-	10BASE-T/100BASE-TX (RJ-45) x 2	
CF Card I/F		-	-	
SD Card I/F		-	-	
USB I/F	Type A	USB 1.1 x 1 - USB transfer cable (CA3-USBCB-01)	USB 2.0 x1	No screen data transfer via Type A.
	Type mini-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		-	-	
Expansion Unit I/F		✔	-	The expansion unit (such as CC-LINK Unit) for GP3300 Series cannot be used.

Hardware Manual: ST6000 2nd Gen Series Hardware Manual

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2-1. GP-3400S vs PFXST6400AWADI Specification Comparison - 1. Basic Information -

		GP-3400S	PFXST6400AWADI	Points to note when replacing
Display type		STN Color LCD	TFT color LCD	
Display size		7.5”	7”	
Resolution		640 x 480 pixels (VGA)	800 x 480 pixels (WVGA)	Need to change resolution setting by software
Display colors		4,096 colors	16 million colors	
Backlight		CCFL (Not user replaceable)	White LED (not replaceable)	Backlight is not replaceable
Backlight service life		54,000 hours or more (continuous operation at 25° C before backlight brightness decreases to 50%)	50,000 hours or more (continuous operation at 25° C before backlight brightness decreases to 25%)	
Panel cut dimensions		W204.5 x H159.5 mm	W190 x H135 mm	
External dimensions		W215 x H170 x D60 mm	W208 x H153 x D45 mm	
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 memory	FLASH EPROM 16MB *1	eMMC Flash 64MB	
	Backup memory	SRAM 320KB	NVRAM 320KB	
Battery (clock data backup)		Rechargeable battery / Secondary battery	Replaceable battery / Primary battery	Can be replaced by user
Rated input voltage		DC 24V	DC 24V	
Power Consumption		28W or less	9.6 W or less	

*1: On display units before Rev.4, the screen area is 8 MB.

2-1. GP-3400S vs PFXST6400AWADI Specification Comparison - 2. Interface -

		GP-3400S	PFXST6400AWADI	Points to note when replacing
Serial I/F	COM1	RS-232C/422/485（D-Sub 9pin Plug）	RS-232C (D-Sub 9pin Plug)	Please refer to 2.5. Other important notes on Hardware in this document.
	COM2	RS-422/485（D-Sub 9pin Socket）	RS-422/485 (D-Sub 9pin Plug)	
Ethernet I/F		10BASE-T/100BASE-TX (RJ-45) x 1	10BASE-T/100BASE-TX (RJ-45) x 2	
CF Card I/F		✔	-	To keep using the functions that were working with CF Card, use a USB Memory instead.
SD Card I/F		-	-	
USB I/F	Type A	USB 1.1 x 1 - USB transfer cable (CA3-USBCB-01)	USB 2.0 x1	No screen data transfer via Type A.
	Type mini-B	-	-	
	Type micro-B	-	USB 2.0 x1 - USB transfer cable (PFXZUSCBMB2) or commercial USB micro-B transfer cable	
Auxiliary I/O I/F		✔	-	External Reset Input and 3 Outputs (RUN Output, System Alarm Output, and External Buzzer Output) that can be used for GP3000 series cannot be used.
Sound Output I/F		✔	-	The sound output function for GP3000 Series cannot be used.
Expansion Unit I/F		✔	-	The expansion unit (such as CC-LINK Unit) for GP3000 Series cannot be used.

Hardware Manual: ST6000 2nd Gen Series Hardware Manual

2-1. GP-3500S/L vs PFXST6600AWADI Specification Comparison - 1. Basic Information -

		GP-3500S	GP-3500L	PFXST6600AWADI	Points to note when replacing
Display type		STN Color LCD	Monochrome LCD	TFT color LCD	
Display size		10.4”		12.1”	
Resolution		640 x 480 pixels (VGA)		1,280 x 800 pixels (WXGA)	Need to change resolution setting by software
Display colors		4,096 colors	Black and White (16 shades)	16 million colors	
Backlight		CCFL	CCFL (Not user replaceable)	White LED (not replaceable)	Backlight is not replaceable
Backlight service life		50,000 hours or more (continuous operation at 25° C before backlight brightness decreases to 50%)		50,000 hours or more (continuous operation at 25° C before backlight brightness decreases to 25%)	
Panel cut dimensions		W301.5 x H227.5 mm		W295 x H217 mm	
External dimensions		W313×H239×D56 mm		W313 x H235 x D50 mm	
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 memory	FLASH EPROM 16MB *1		eMMC Flash 64MB	
	Backup memory	SRAM 320KB		NVRAM 320KB	
Battery (clock data backup)		Rechargeable battery / Secondary battery		Replaceable battery / Primary battery	Can be replaced by user
Rated input voltage		DC model: DC 24V AC model: AC 100-240V	DC 24V	DC 24V	ST6000 2nd Gen Series has only DC model. On replacement from AC model, need to change the power supply to DC.
Power Consumption		DC model: DC24V 50W or less AC model: AC100V 90VA or less AC240V 108VA or less	50W or less	18.4W or less	

*1: On display units before Rev.4, the screen area is 8 MB.

2-1. GP-3500S/L vs PFXST6600AWADI Specification Comparison - 2. Interface -

		GP-3500S	GP-3500L	PFXST6600AWADI	Points to note when replacing
Serial I/F	COM1	RS-232C/422/485（D-Sub 9pin Plug）		RS-232C (D-Sub 9pin Plug)	Please refer to 2.5. Other important notes on Hardware in this document.
	COM2	RS-422/485（D-Sub 9pin Socket）		RS-422/485 (D-Sub 9pin Plug)	
Ethernet I/F		10BASE-T/100BASE-TX (RJ-45) x 1		10BASE-T/100BASE-TX (RJ-45) x 2	
CF Card I/F		✔		-	To keep using the functions that were working with CF Card, use a USB Memory instead.
SD Card I/F		-		-	
USB I/F	Type A	USB 1.1 x 2 - USB transfer cable (CA3-USBCB-01)		USB 2.0 x1	No screen data transfer via Type A Only 1 port on PFXST6600AWA
	Type mini-B	-		-	
	Type micro-B	-		USB 2.0 x1 - USB transfer cable (PFXZUSCBMB2) or commercial USB micro-B transfer cable	
Auxiliary I/O I/F		✔		-	External Reset Input and 3 Outputs (RUN Output, System Alarm Output, and External Buzzer Output) that can be used for GP3000 series cannot be used.
Sound Output I/F		✔		-	The sound output function for GP3000 Series cannot be used.
Expansion Unit I/F		✔		-	The expansion unit (such as CC-LINK Unit) for GP3000 Series cannot be used.

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2-2. Standards Compatibility – GP3000 series vs ST6000 2nd Gen Series

Certification	GP3000 series	ST6000 2nd Gen Series
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)	-
ATEX (Zones 2/22, equipment category 3 Gas Dust)	✓	-
IECEx (Zones 2/22, equipment category 3 Gas Dust)	-	-
UKEX	-	-
KCs	-	-
NEPSI → CCC-Ex	-	-
RCM (C-Tick)	-	✓
EAC (GOST-R)	✓	✓
RoHS for EU	✓	✓
RoHS for China	✓	✓
REACH	✓	✓
CCC *apply for CCC exemption	-	-
KC	✓	✓
Marine (DNV, ABS, LR, BV, NK, RINA, CCS)	-	-
WEEE	✓	✓

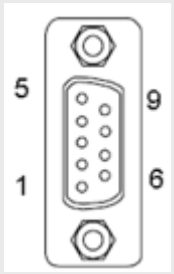
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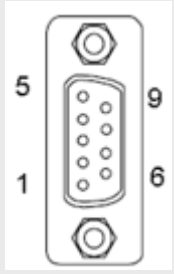
Pro-face™ by Schneider Electric

2-3. Interface compatibility – Com pin assignment

GP3000

Connector picture	Pin No.	RS-232C (COM1 for all models)			RS-422/RS-485 (COM1 for ST6200, COM2 for others)		
		Signal name	Direction	Meaning	Signal name	Direction	Meaning
 D-Sub 9 pin plug	1	CD	Input	Carrier detect	RDA	Input	Receive data A (+)
	2	RD (RXD)	Input	Receive data	RDB	Input	Receive data B (-)
	3	SD (TXD)	Output	Send data	SDA	Output	Send data A (+)
	4	ER (DTR)	Output	Data terminal ready	ERA	Output	Data terminal ready A (+)
	5	SG	–	Signal ground	SG	–	Signal ground
	6	DR (DSR)	Input	Data set ready	CSB	Input	Send possible B (-)
	7	RS (RTS)	Output	Request to send	SDB	Output	Send data B (-)
	8	CS (CTS)	Input	Send possible	CSA	Input	Send possible A (+)
	9	VCC	Output	+5 Vdc ±5% Output 0.25 A*1	ERB	Output	Data terminal ready B (-)
	Shell	FG	–	Frame ground (common with SG)	FG	–	Frame ground (common with SG)

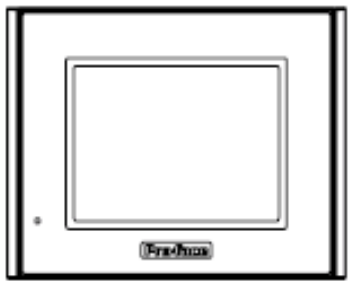
ST6000 2nd Gen

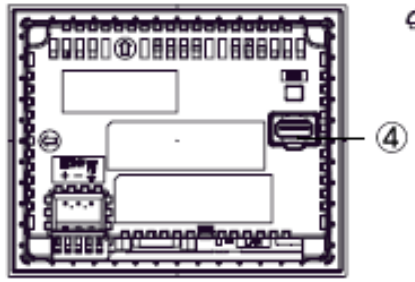
Connector picture	Pin No.	RS-232C (COM1 for all models)			RS-422/RS-485 (COM1 for ST6200, COM2 for others)		
		Signal name	Direction	Meaning	Signal name	Direction	Meaning
 D-Sub 9 pin plug	1	NC	–	No connection	RDA	Input	Receive data A (+)
	2	RD (RXD)	Input	Receive data	RDB	Input	Receive data B (-)
	3	SD (TXD)	Output	Send data	SDA	Output	Send data A (+)
	4	NC	–	No connection	NC	–	No connection
	5	SG	–	Signal ground	SG	–	Signal ground
	6	NC	–	No connection	NC	–	No connection
	7	RS (RTS)	Output	Request to send	SDB	Output	Send data B (-)
	8	CS (CTS)	Input	Send possible	NC	–	No connection
	9	VCC	Output	+5 Vdc ±5% Output 0.25 A*1	NC	–	No connection
	Shell	FG	–	Frame ground (common with SG)	FG	–	Frame ground (common with SG)

*1 When using RS-232C pin #9, enable VCC with the software

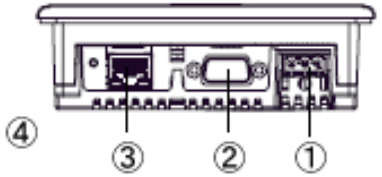
Please check ST6000 2nd Series Hardware Manual for details such as interface specifications and pin assignments.

2-3. Interface Compatibility – GP-3200T/A vs PFXST6200AWADI

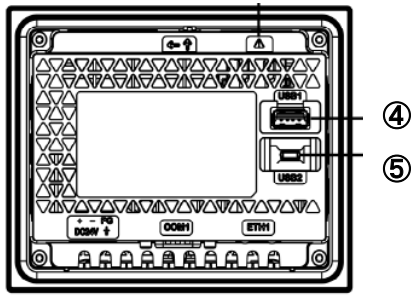




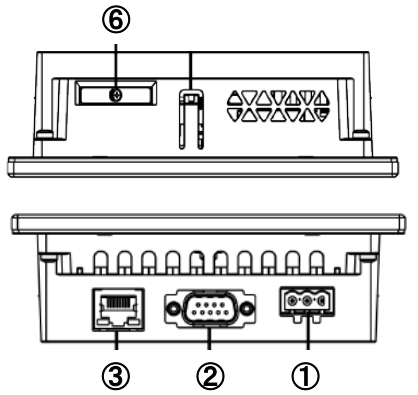
GP-3200T/A Rear



GP-3200T/A Bottom



PFXST6200AWADI
Rear



PFXST6200AWADI
Bottom

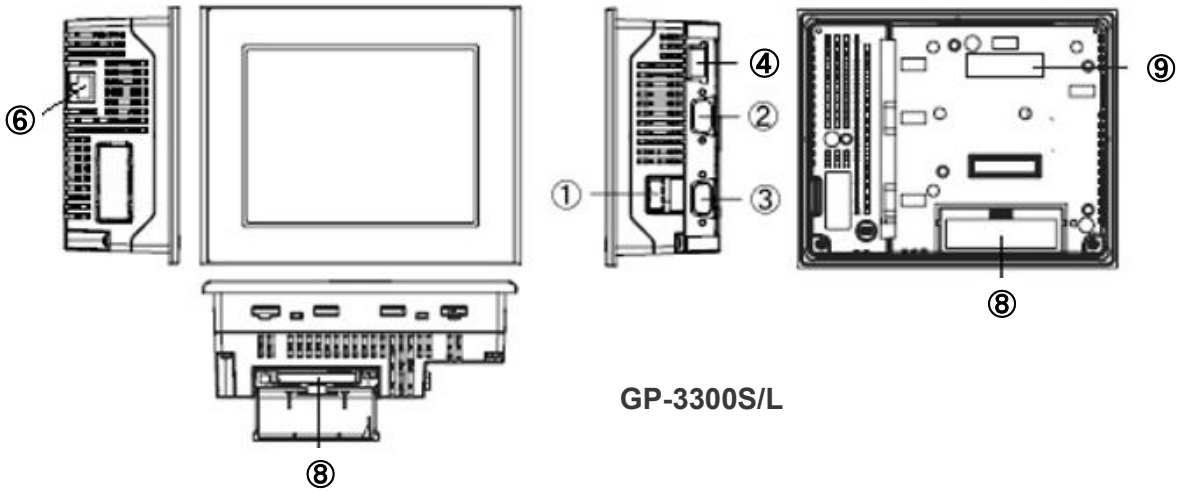
	GP-3200T/A	PFXST6200AWADI
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	Ethernet Interface (ETH1)	Ethernet Interface (ETH1)
④	USB (Type A) Interface	USB (Type A) Interface
⑤	-	USB (micro-B) Interface
⑥	-	Battery Slot

Please check ST6000 Series 2nd Gen Hardware Manual for details such as interface specifications and pin assignments.

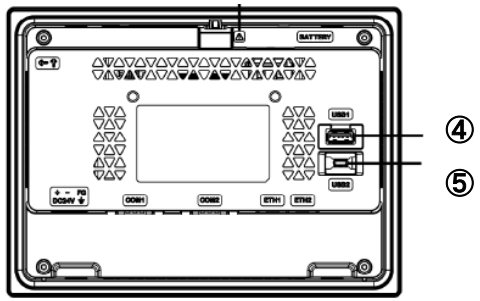
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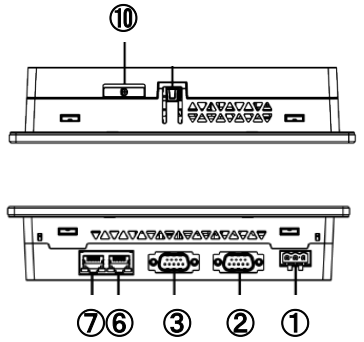
2-3. Interface Compatibility – GP-3300S/L vs PFXST6400AWADI



GP-3300S/L



PFXST6400AWADI
Rear

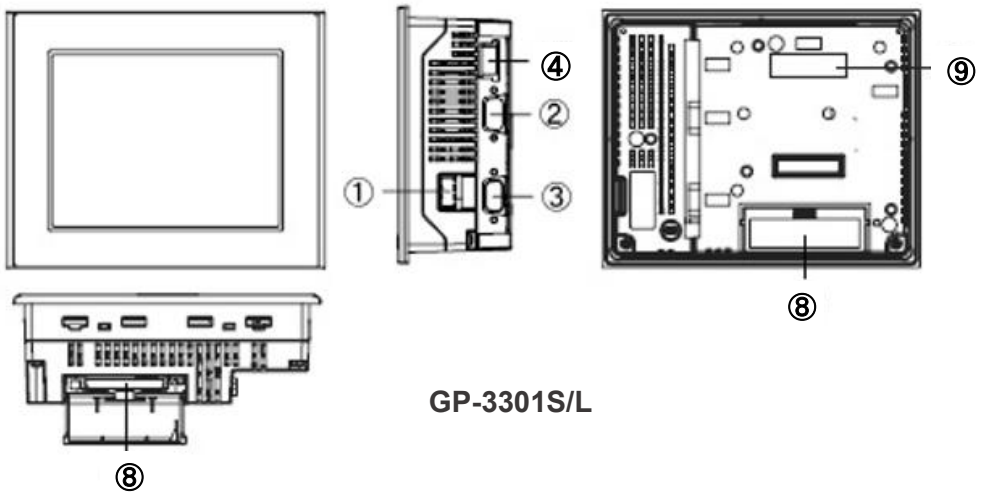


PFXST6400AWADI
Bottom

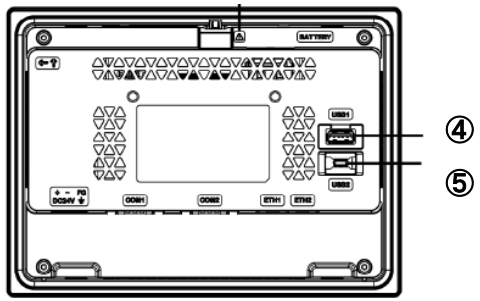
	GP-3300S/L	PFXST6400AWADI
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	Serial Interface (COM 2)	Serial Interface (COM 2)
④	USB (Type A) Interface	USB (Type A) Interface
⑤	-	USB (micro-B) Interface
⑥	Ethernet Interface	Ethernet Interface (ETH1)
⑦	-	Ethernet Interface (ETH2)
⑧	CF Card Interface	-
⑨	Expansion Unit Interface	-
⑩	-	Battery Slot

NOTE: Please be careful when replacing, as the wiring will change significantly.
Please check ST6000 2nd Gen Series Hardware Manual I for details such as interface specifications and pin assignments.

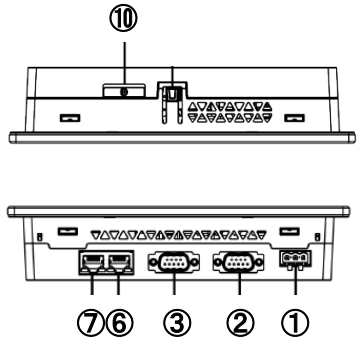
2-3. Interface Compatibility – GP-3301S/L vs PFXST6400AWADI



GP-3301S/L



PFXST6400AWADI
Rear

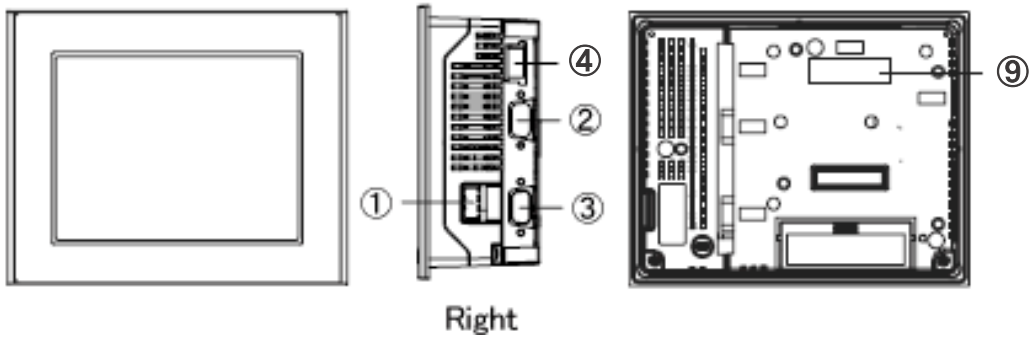


PFXST6400AWADI
Bottom

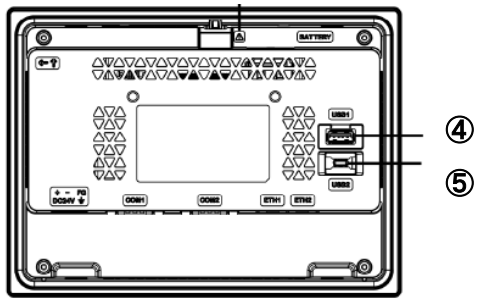
	GP-3301S/L	PFXST6400AWADI
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	Serial Interface (COM 2)	Serial Interface (COM 2)
④	USB (Type A) Interface	USB (Type A) Interface
⑤	-	USB (micro-B) Interface
⑥	-	Ethernet Interface (ETH1)
⑦	-	Ethernet Interface (ETH2)
⑧	CF Card Interface	-
⑨	Expansion Unit Interface	-
⑩	-	Battery Slot

NOTE: Please be careful when replacing, as the wiring will change significantly.
Please check ST6000 2nd Gen Series Hardware Manual for details such as interface specifications and pin assignments.

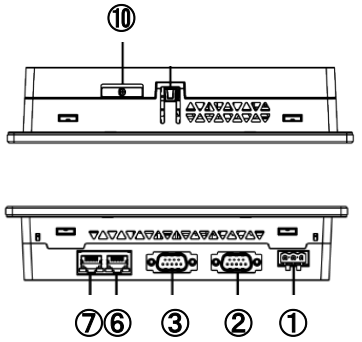
2-3. Interface Compatibility – GP-3302B vs PFXST6400AWADI



GP-3302B



PFXST6400AWADI
Rear

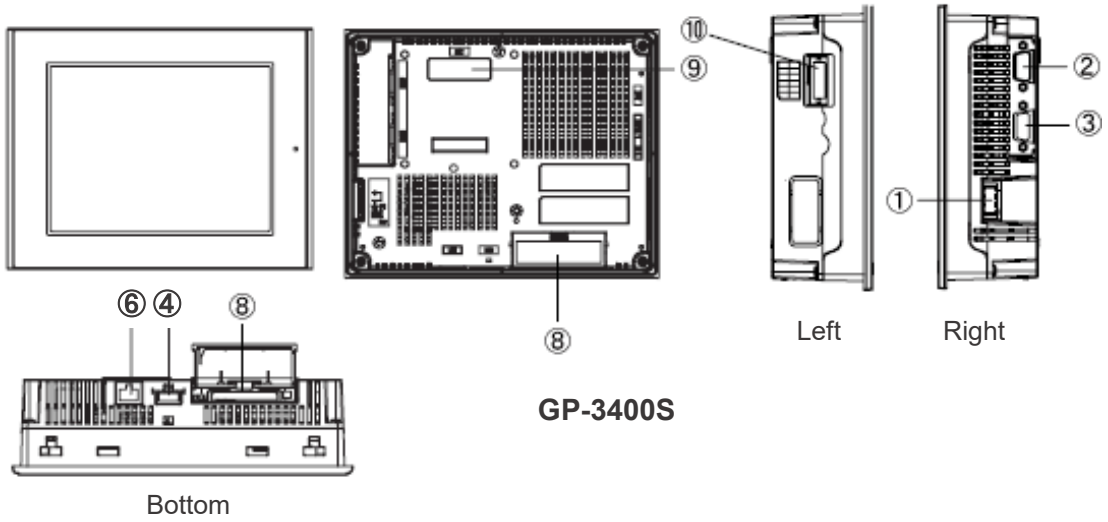


PFXST6400AWADI
Bottom

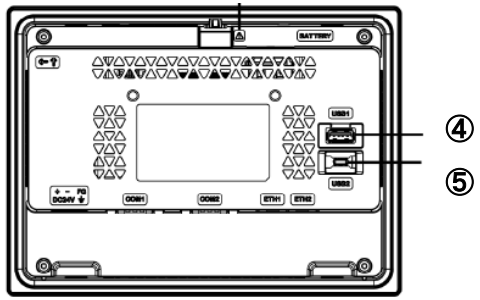
	GP-3302B	PFXST6400AWADI
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	Serial Interface (COM 2)	Serial Interface (COM 2)
④	USB (Type A) Interface	USB (Type A) Interface
⑤	-	USB (micro-B) Interface
⑥	-	Ethernet Interface (ETH1)
⑦	-	Ethernet Interface (ETH2)
⑧	-	-
⑨	Expansion Unit Interface	-
⑩	-	Battery Slot

NOTE: Please be careful when replacing, as the wiring will change significantly.
Please check ST6000 2nd Gen Series Hardware Manual for details such as interface specifications and pin assignments.

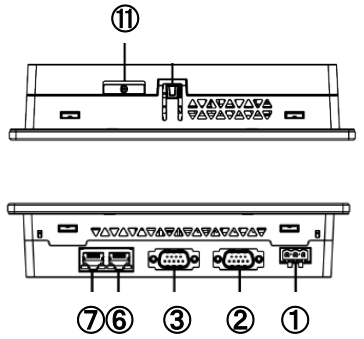
2-3. Interface Compatibility – GP-3400S vs PFXST6400AWADI



GP-3400S



PFXST6400AWADI
Rear

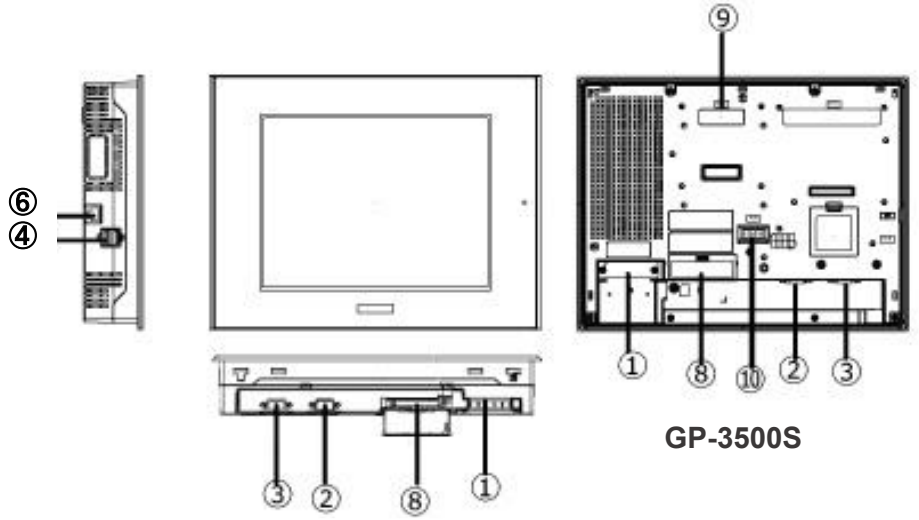


PFXST6400AWADI
Bottom

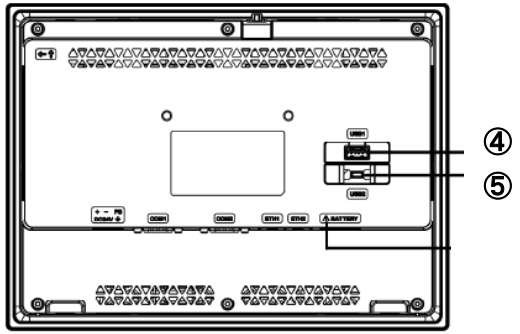
	GP-3400S	PFXST6400AWADI
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	Serial Interface (COM 2)	Serial Interface (COM 2)
④	USB (Type A) Interface	USB (Type A) Interface
⑤	-	USB (micro-B) Interface
⑥	Ethernet Interface	Ethernet Interface (ETH1)
⑦	-	Ethernet Interface (ETH2)
⑧	CF Card Interface	-
⑨	Expansion Unit Interface	-
⑩	Auxiliary I/O / Sound Output Interface (AUX)	-
⑪	-	Battery Slot

NOTE: Please be careful when replacing, as the wiring will change significantly. Please check ST6000 2nd Gen Series Hardware Manual for details such as interface specifications and pin assignments.

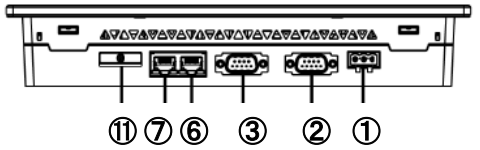
2-3. Interface Compatibility – GP-3500S/L vs PFXST6600AWADI



GP-3500S



PFXST6600AWADI Rear



PFXST6600AWADI
Bottom

	GP-3500S/L	PFXST6600AWADI
①	Power Connector (DC) / Power Input Terminal Block (AC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	Serial Interface (COM2)	Serial Interface (COM2)
④	USB (Type A) Interface (2 ports)	USB (Type A) Interface
⑤	-	USB (micro-B) Interface
⑥	Ethernet Interface	Ethernet Interface (ETH1)
⑦	-	Ethernet Interface (ETH2)
⑧	CF Card Interface	-
⑨	Expansion Unit Interface	-
⑩	Auxiliary I/O / Sound Output Interface (AUX)	-
⑪	-	Battery Slot

NOTE: Please be careful when replacing, as the wiring will change significantly. Please check ST6000 2nd Gen Series Hardware Manual for details such as interface specifications and pin assignments.

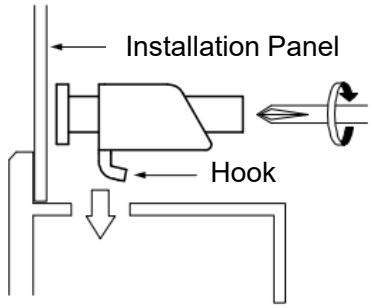
2-3. Installation Method Compatibility – GP-3200T/A vs PFXST6200AWADI

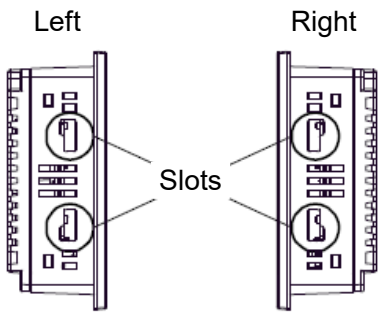
Panel Cut Dimensions of PFXST6200AWADI are the same as GP-3200T/A.

GP-3200T/A

Insert the installation fasteners into the slots (total: 4 slots).

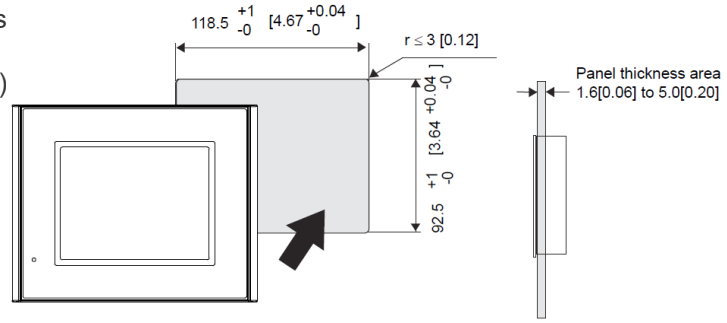
Use a Phillips screwdriver to tighten each fastener screw and secure the GP in place. The torque required to tighten these screws is 0.5 N•m.





■ Panel Cut Dimensions

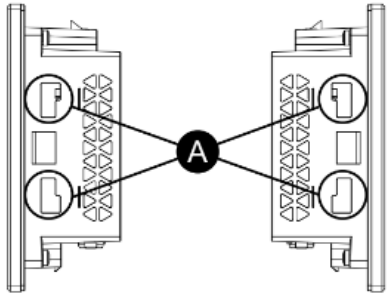
A: 118.5 mm (+1/-0 mm)
B: 92.5 mm (+1/-0 mm)
C: 1.6～5.0 mm

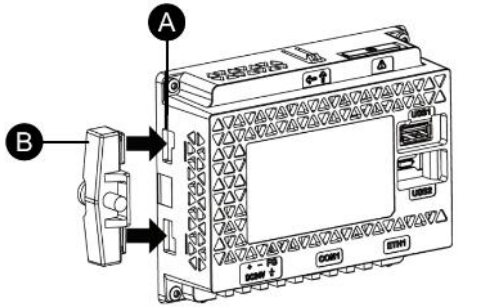


PFXST6200AWADI

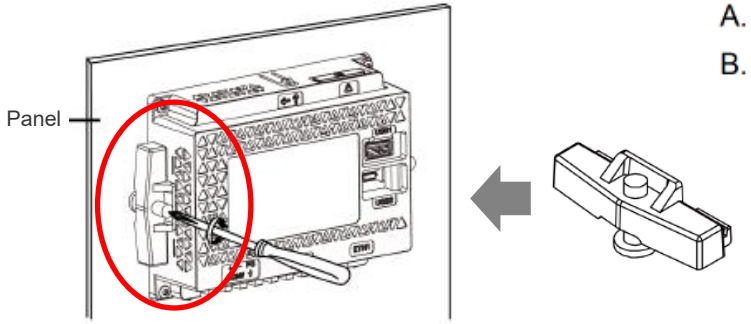
Insert the installation fastener hooks into the insertion slots of this product.

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)





A. Insertion slots
B. Installation fastener



*Panel Cut Dimensions are the same as GP-3200T/A.

NOTE: The installation fasteners for GP3000 Series (P/N: CA3-ATFALL-01) cannot be used for PFXST6200AWADI.
For PFXST6200AWADI, please use the installation fastener (P/N: ZC9AF31) or Spring Clip (P/N: XBTZ3002).
Please check ST6000 Series 2nd Gen Hardware Manual for installation requirements and procedure.

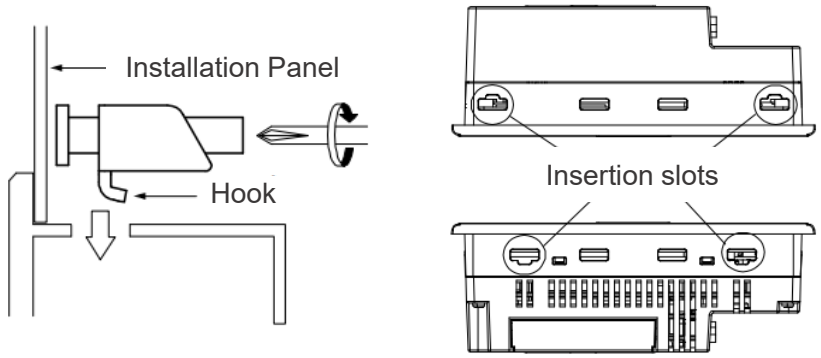
2-3. Installation Method Compatibility – GP-3300S/L,GP-3301S/L,GP-3302B vs PFXST6400AWADI

The installation method of PFXST6400AWADI is generally the same as GP3300 Series, but the panel cut dimensions are different.
As there's no option for panel cutout adapter, it is necessary to adjust the panel size by user.

GP-3300S/L, GP-3301S/L, GP-3302B

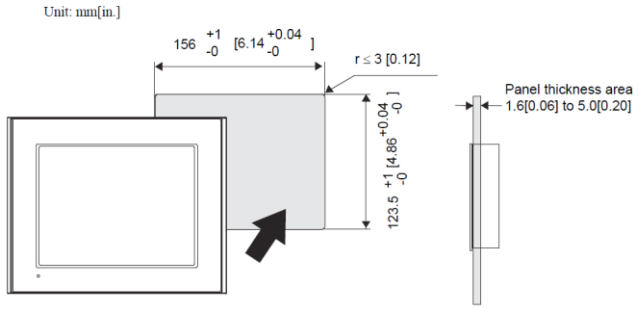
Insert the installation fastener hooks into the insertion slots of this product.

In a clockwise direction, tighten the installation fastener's screws with a screwdriver. The necessary torque is 0.5 N•m.



■ Panel Cut Dimensions

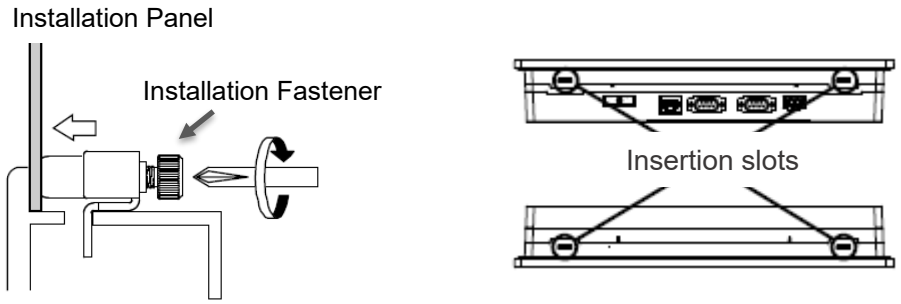
A: 156 mm (+1/-0 mm)
B: 123.5 mm (+1/-0 mm)
C: 1.6～5.0 mm



PFXST6400AWADI

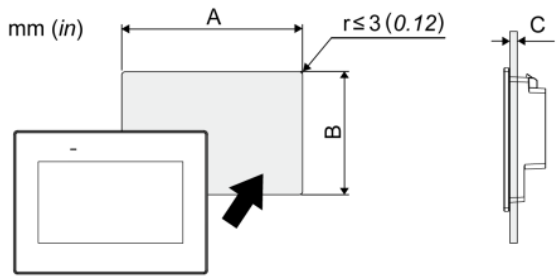
Insert the installation fastener hooks into the insertion slots of this product.

In a clockwise direction, tighten the installation fastener's screws with a screwdriver. The necessary torque is 0.5 N•m.



■ Panel Cut Dimensions

A: 190 mm (+1/-0 mm)
B: 135 mm (+1/-0 mm)
C: 1.6～5.0 mm



NOTE: The installation fasteners for GP3000 Series (P/N: CA3-ATFALL-01) cannot be used for PFXST6400AWADI. Please use the fasteners for PFXST6400AWADI (P/N: PFXZCIAFTF1). Please check ST6000 2nd Gen Series Hardware Manual for installation requirements and procedure.

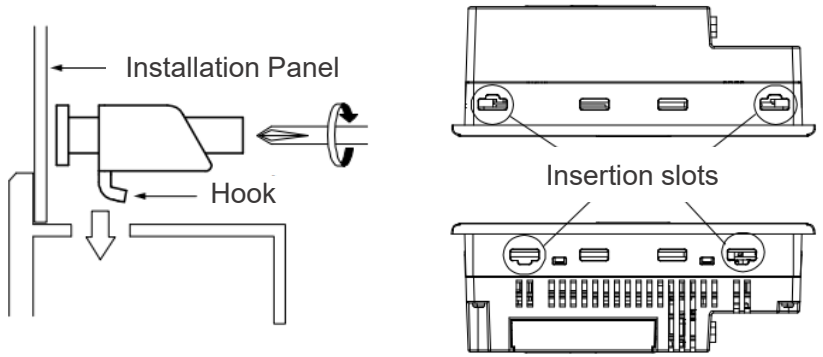
2-3. Installation Method Compatibility – GP-3400S vs PFXST6400AWAI

The installation method of PFXST6400AWADI is generally the same as GP-3400S, but the panel cut dimensions are different.
As there's no option for panel cutout adapter, it is necessary to adjust the panel size by user.

GP-3400S

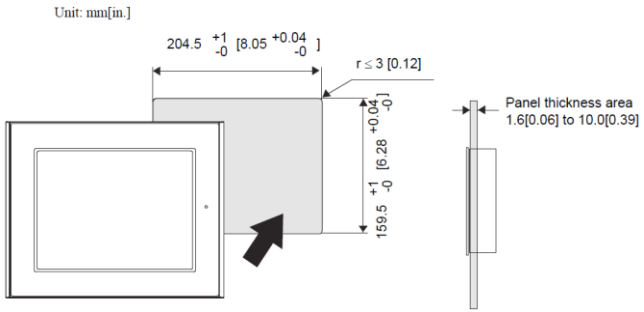
Insert the installation fastener hooks into the insertion slots of this product.

In a clockwise direction, tighten the installation fastener's screws with a screwdriver. The necessary torque is 0.5 N•m.



■ Panel Cut Dimensions

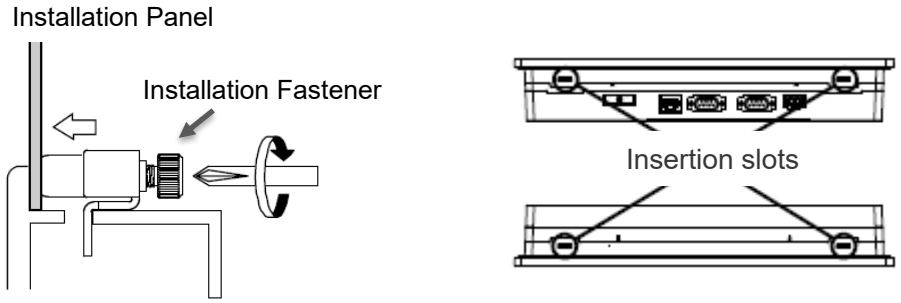
A: 204.5 mm (+1/-0 mm)
B: 159.5 mm (+1/-0 mm)
C: 1.6～10.0 mm



PFXST6400AWADI

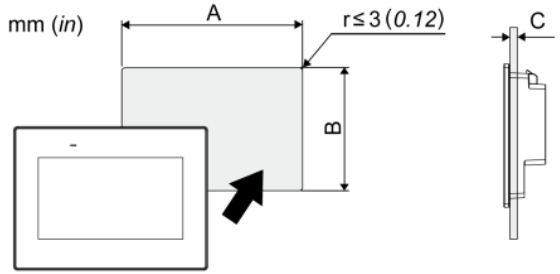
Insert the installation fastener hooks into the insertion slots of this product.

In a clockwise direction, tighten the installation fastener's screws with a screwdriver. The necessary torque is 0.5 N•m.



■ Panel Cut Dimensions

A: 190 mm (+1/-0 mm)
B: 135 mm (+1/-0 mm)
C: 1.6～5.0 mm



NOTE: The installation fasteners for GP3000 Series (P/N: CA3-ATFALL-01) cannot be used for PFXST6400AWADI. Please use the fasteners for PFXST6400AWADI (P/N: PFXZCIAFTF1). Please check ST6000 2nd Gen Series Hardware Manual for installation requirements and procedure.

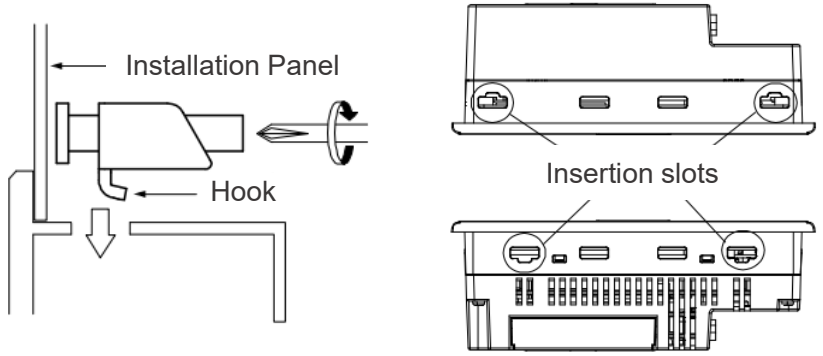
2-3. Installation Method Compatibility – GP-3500S/L vs PFXST6600AWADI

The installation method of PFXST6600AWADI is generally the same as GP-3500S, but the panel cut dimensions are different.
As there's no option for panel cutout adapter, it is necessary to adjust the panel size by user.

GP-3500S/L

Insert the installation fastener hooks into the insertion slots of this product.

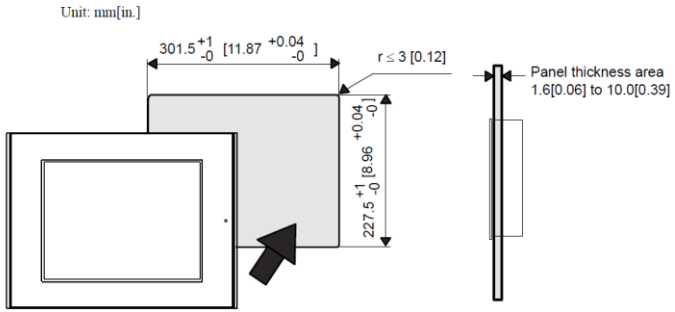
In a clockwise direction, tighten the installation fastener's screws with a screwdriver. The necessary torque is 0.5 N•m.



(This image is GP3300 Series)

■Panel Cut Dimensions

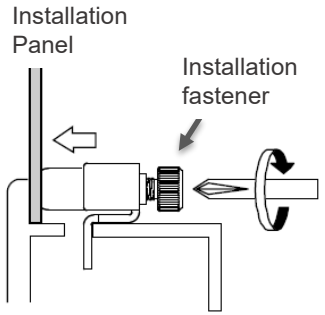
A: 301.5 mm (+1/-0 mm)
B: 227.5 mm (+1/-0 mm)
C: 1.6～10.0 mm

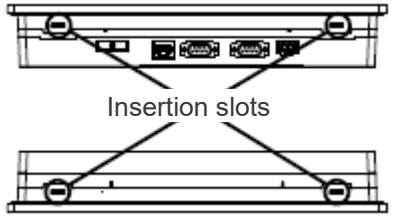


PFXST6600AWADI

Insert the installation fastener hooks into the insertion slots of this product.

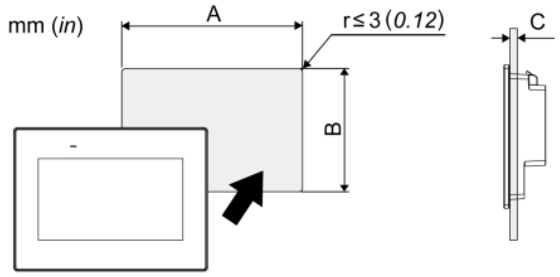
In a clockwise direction, tighten the installation fastener's screws with a screwdriver. The necessary torque is 0.5 N•m.





■Panel Cut Dimensions

A: 295 mm (+1/-0 mm)
B: 217 mm (+1/-0 mm)
C: 1.6～5.0 mm



NOTE: The installation fasteners for GP3000 Series (P/N: CA3-ATFALL-01) cannot be used for PFXST6600AWADI. Please use the fasteners for PFXST6600AWADI (P/N: PFXZCIAFTF1). Please check ST6000 2nd Gen Series Hardware Manual for installation requirements and procedure.

2-4. Option compatibility – Serial Interface

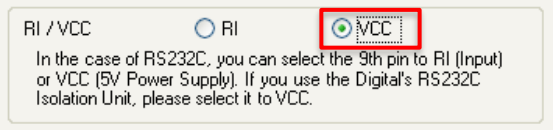
Product Name	GP3000 series	ST6000 2nd Gen series	Description	Compatibility
RS-232C Cable (5m)	CA3-CBL232/5M-01	-	Cable for RS-232C connection between various hosts and this product	-
RS-422 Cable (5m)	CA3-CBL422/5M-01	CA3-CBL422/5M-01	Cable for RS-422 connection between various hosts and this product (Socket Type)	✔
RS-422 Cable (5m)	CA3-CBL422-01	CA3-CBL422-01	Cable for RS-422 connection between various hosts and this product (Plug Type)	✔
Mitsubishi PLC A-Series Connection Cable (5m)	CA3-CBLA-01	-	Cable for directly connecting an A Series CPU	-
Mitsubishi PLC Q-Series Connection Cable (5m)	CA3-CBLQ-01	CA3-CBLQ-01	Cable for directly connecting a Q Series CPU	✔
Mitsubishi PLC Q-Series Link Cable (5m)	CA3-CBLLNKMQ-01	CA3-CBLLNKMQ-01	Cable for directly connecting a Q Series Link Unit	✔
Mitsubishi PLC FX-Series Connection Cable	CA3-CBLFX/1M-01 (1m) CA3-CBLFX/5M-01 (5m)	-	Cable for directly connecting an FX Series CPU	-
Omron PLC SYSMAC Link Cable (5m)	CA3-CBLSYS-01	CA3-CBLSYS-01	Cable for directly connecting a SYSMAC Link Unit	✔
Siemens TTY Converter Cable (5m)	CA6-CBLTTY/5M-01	-	Cable for connecting a PLC S5 series to this product	-
MPI Cable (3.5m)	ST03-A2B-MPI21-PFE GP3000-MPI21-PFE CA3-MPI-PG1-PFE CA3-MPI-PGN-PFE	-	Connects a host controller to this product for MPI communication.	-
Multi-Link Cable (5m)	CA3-CBLMLT-01 * End of sale	-	Connects a host controller to this product for multi-link (n:1) communication.	-

*Products may be changed or discontinued without notice. Please check our website for the latest information

2-4. Option compatibility – Serial Interface

Product Name	GP3000 series	ST6000 2nd Gen series	Description	Compatibility
RS-232C 9-pin/25-pin Conversion Cable (0.2m)	CA3-CBLCBT232-01	-	Cable for converting a D-Sub 9-pin plug to a D-Sub 25-pin socket	-
RS-422C 9-pin/25-pin Conversion Cable (0.2m)	CA3-CBLCBT422-01 *End of sale	CA3-CBLCBT422-01 *End of sale	Cable for converting a D-Sub 9-pin plug to a D-Sub 25-pin socket	✔
	-	PFXZCBCBCVR41		-
2 Port Adapter Cable (5m)	CA3-MDCB11 *End of sale	-	Connects Mitsubishi PLC to this product using 2 port adapter II (RS-422).	-
Mitsubishi PLC A, QnA, FX Series 2 Port Adapter II	GP070-MD11 *End of sale	-	Allows simultaneous use of this product and a Mitsubishi PLC A, QnA, FX Series peripheral device.	-
COM Port Conversion Adapter	CA3-ADPCOM-01	PFXZC3ADCM1 (CA3-ADPCOM-01)	Connects optional RS-422 communication items to serial interface.	✔
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.	-
Terminal Block Conversion Adapter	CA3-ADPTRM-01	CA3-ADPTRM-01 (PFXZC3ADCM1)	Connects output from a serial interface (D-sub 9 pin socket) directly to an RS-422 terminal block.	✔
RS-232C Isolation Unit *1	CA3-ISO232-01	PFXZC3ADISR21 (CA3-ISO232-01)	Connects a host controller to this product and provides isolation (RS-232C and RS-422 are switchable).	✔
RS-485 Isolation Unit	CA3-ISO485-01	-	Connects a host controller to this product with provides isolation.(RS-422 and RS-485 are switchable.)	-
On-line adapter	CA4-ADPONL-01	-	Terminal adapter in the case of performing RS-422/RS-485 communication at COM2 port.	-
Siemens COM Port Conversion Adapter	CA3-ADPSEI-01	-	Connects Siemens PLCs to the AGP. (for RS-485 communication)	-

*1: You can use RS-232C isolation unit (CA3-ISO232-01) for GP4000 series instead. In this case, select “VCC” from [System Settings] -> [Device/PLC] in the [Project] menu on GP-Pro EX.



*Products may be changed or discontinued without notice. Please check our website for the latest information

2-4. Option compatibility – USB Interface

Product Name	GP3000 series	ST6000 2nd Gen series	Description	Compatibility
USB Transfer Cable (2m)	CA3-USBCB-01	-	Cable for transferring screen data between a PC (USB Type A) and this product (USB Type A)	- A to A screen transfer is not available.
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	-	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 (micro-B) Front Cable	-	PFXZCIEXMB2 *End of sale	Extension cable that attaches USB interface (micro-B) to front panel	-
USB Clamp Type A (1 port)	-	PFXZCBCLUSA1	Clamp to prevent disconnection of USB cable (USB/A, 1 port, 5 clamps/set)	-
USB-Serial (RS-232C) Conversion Cable (0.5m)	CA6-USB232-01	-	Cable for converting a USB interface into a serial interface (RS-232C)	-
USB/RS-422/485 Conversion Adapter	-	PFXZCBCBCVUSR41	Adapter for connecting this product (USB Type A) to an external device (RS-422/RS-485)	-

*Products may be changed or discontinued without notice. Please check our website for the latest information

2-4. Option compatibility – Other options

Product Name		GP3000 series	ST6000 2nd Gen series	Description	Compatibility
CF Card (128MB)		CA3-CFCALL/128MB-01	-	CF Card to insert into the CF card slot of this product.	-
CF Card (256MB)		CA3-CFCALL/256MB-01	-		-
CF Card (512MB)		CA3-CFCALL/512MB-01	-		-
CF Card (1GB)		CA3-CFCALL/1GB-01	-		-
CF Card (2GB)		CA3-CFCALL/2GB-01	-		-
CF Card Adapter		GP077-CFAD10	-	Used for read/write of CF Card data via a PC's PCMCIA slot.	-
Screen Protection Sheet	GP-3200T/A	CA6-DFS4-01	-	Disposable, dirt-resistant sheet for the screen of this product. (5 sheets/set) (Hard type)	- Use the option for ST6000 2nd Gen series.
	GP-3300	CA3-DFS6-01	-		
	GP-3500S	CA3-DFS12-01	-		
	GP-3400	PS400-DF00	-		
	PFXST6400AWA	-	PFXZCBDS72		
	PFXST6600AWA	-	PFXZCDDS122		
UV Protection Sheet	PFXST6600AWA	-	PFXZCFUV122	Disposable, ultraviolet protection sheet (1 sheet/set).	
Screen Protection Sheet with UV Protection	PFXST6200AWA	-	PFXZCIDS42	Disposable, dirt-resistant and ultraviolet protection sheet (1 sheet/set).	
	PFXST6400AWA	-	PFXZCIDS72		
	PFXST6500AWA	-	PFXZCIDS102		
	PFXST6600AWA	-	PFXZCIDS152		
Function Expansion Memory		GP3000-EXDM01 (GP-3500S,GP-3400)	-	Pro-face's Screen Editor's alarm and text table Function Expansion Memory *Note that the GP's screen dimensions cannot be expanded.	-

*Products may be changed or discontinued without notice. Please check our website for the latest information

2-4. Option compatibility – Maintenance options

Product Name		GP3000 series	ST6000 2nd Gen series	Description	Compatibility
Installation Fastener	GP-3000	CA3-ATFALL-01	-	Installation fastener	- Use the option for ST6000 2nd Gen series.
	PFXST6200AWA	-	PFXZC9AF31	Fastener for installing 4-inch wide model into a solid panel (2 pieces/set).	
	PFXST6x00AWA	-	PFXZCIAFTF1	Fastener for installing 7, 10, 12 or 15-inch wide models into a solid panel (2 pieces/set).	
Installation Gasket	GP-3200T/A	ST400-WP01	-	Provides dust and moisture resistance when this product is installed into a solid panel (1 piece).	- Use the option for ST6000 2nd Gen series.
	GP-3300	CA3-WPG6-01	-		
	GP-3400	CA3-WPG8-01	-		
	GP-3500S	CA3-WPG12-01	-		
	PFXST6200AWA	-	PFXZCIWG43		
	PFXST6400AWA	-	PFXZCIWG73		
	PFXST6500AWA	-	PFXZCIWG103		
	PFXST6600AWA	-	PFXZCIWG123		
Connector Cover		CA3-BUSCVR-01	-	Protects this product's rear face connector	-
USB Cable Clamp (1 port)		CA5-USBATM-01	-	USB Cable clamp for 2 port products to prevent disconnection	-
DC Power Supply Connector		CA5-DCCNM-01	PFXZC5CNDCM1	Connector to connect DC power supply cables	✔
Battery for Data Backup		-	PFXZGEBT1 *End of sale	Primary battery for memory and time data backup (1 piece)	-
Panel Cutout Adapter		CA4-ATM5-01	-	Panel cutout adapter for mounting GP3300 Series in cutout of GP-37W2B	-

*Products may be changed or discontinued without notice. Please check our website for the latest information

2-5. Other Important Notes on Hardware

- About Serial Interface
  - The Serial Interface specifications (such as pin assignment and the shape of plug/socket) of PFXST6000 2nd Gen series are different from GP3000 series. For the details, please refer to “ST6000 2nd Gen Series Hardware Manual”.
  - The RS-232C device that was connected via COM1 on GP3000 series will be connected via COM1 on ST6000 2nd Gen series (The same cable connection can be used.)
  - The RS-422/485 device that was connected via COM1 on GP3000 series will be connected via COM2 on ST6000 2nd Gen series . (The same cable connection can be used.)
    Before ST6000 2nd Gen series is connected, be sure to change the port setting to "COM2" in "Device/PLC Settings“ on GP-Pro EX.
    Also, please check the communication settings again with "GP-Pro EX Device/PLC Connection Manual“ just in case.
  - If you have configured GP3000 series to connect both COM1 and COM2 to the RS-422/485 devices,
    you will only be able to connect them via COM2 when replacing to ST6000 2nd Gen series .
- About COM ER(DTR/CTS) control
  - If you are not using ER(DTR/CTS) control in GP-Pro EX, are using XON/XOFF control, or are not monitoring ER(DTR/CTS) control signals via software, you can use the setup as-is without modifying the wiring.
  - If you are using ER(DTR/CTS) control, or if the control signal is being used for purposes other than ER (DTR/CTS) control—such as for status determination—this can be accommodated by modifying the wiring. However, for certain devices (such as microcontroller boards), it may be necessary to adjust the ER(DTR/CTS) control settings or review the cable wiring. When connecting, please refer to the " "GP-Pro-EX Device/PLC Connection Manual“ and re-verify your communication settings.

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2-5. Other Important Notes on Hardware

- About USB Interface (Type A)
  - GP-3500S/L has two USB ports (USB Type A), but ST6000 2nd Gen Series has only one.
    If devices are connected to both USB ports on GP-3500S/L, use an USB hub for multiple connections on ST6000 2nd Gen.
    When making such multiple connections, please be sure to conduct operation check by yourself before use.
  - Also, since the power supply capacity (Bus Power) from the USB interface is limited, we recommend using a USB hub with a power supply.
    NOTE: Several USB devices of the same category in the following table cannot be simultaneously used. Even if multiple USB devices of the same category are connected to the display unit, only the first USB device recognized by the display unit can be used.

Category	USB Device
1	Printer, USB-PIO converter
2	Keyboard, Numeric keys, Barcode reader
3	Mouse
4	USB storage (USB memory, CF/SD card reader, and so on)
5	USB transfer cable
6	USB-Serial (RS-232C) adapter cable, USB/RS-422/485 conversion adapter
7	EZ Tower Light
8	EZ Fingerprint Recognition Unit
9	EZ Illuminated Switch
10	EZ Numpad
11	EZ LAN Adapter

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2-5. Other Important Notes on Hardware

- Do not expose the hardware to direct sunlight. Recommend to use the option item “UV Protection Sheet” to protect the display from ultraviolet light.
- This product is not designed for outdoor use. UL certification obtained is for indoor use only.
- 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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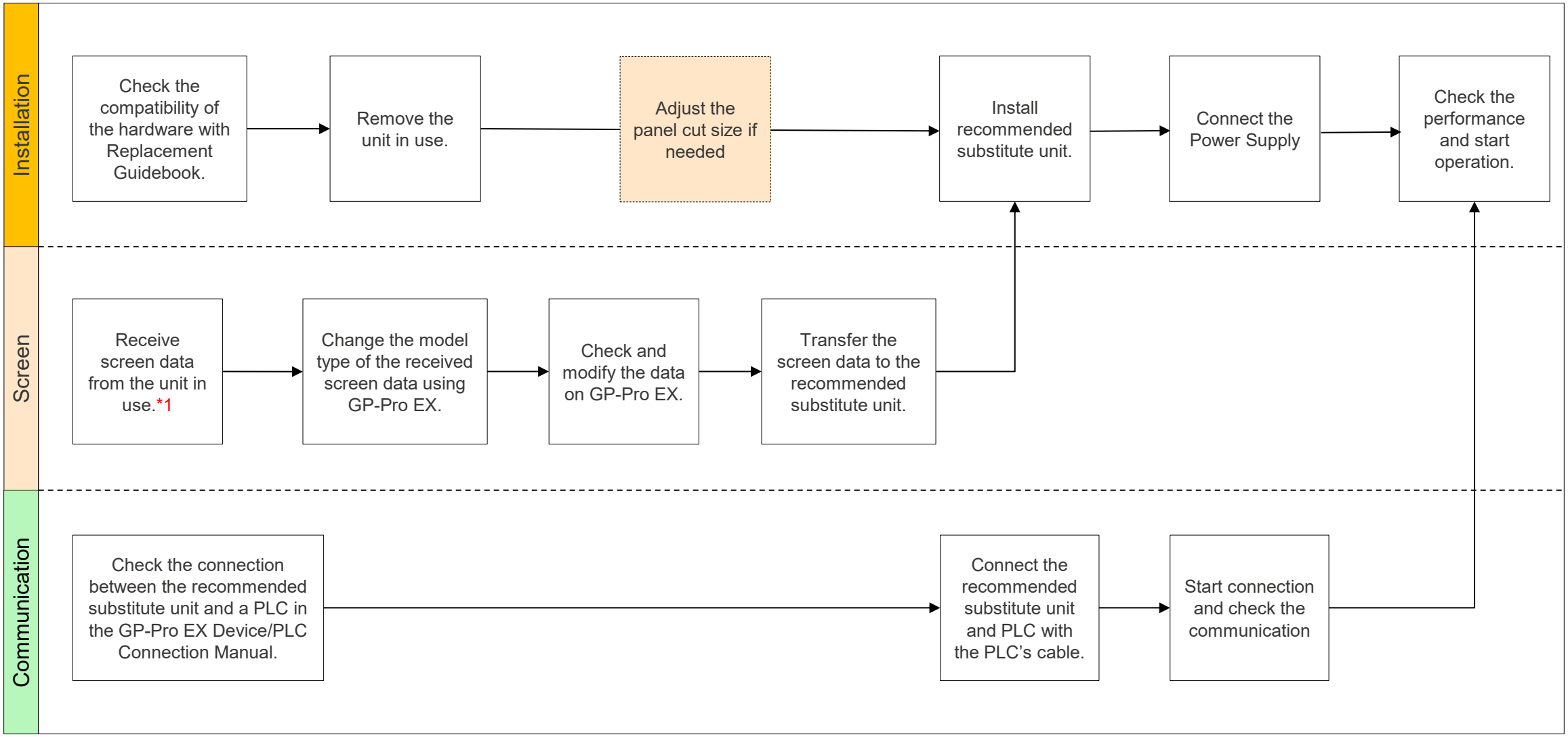
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3. Software Section

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3-1. Replacement Procedure – Workflow



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

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3-1. Replacement Procedure – Preparation

Requirements for receiving screen data from the unit in use *1	PC in which GP-Pro EX Transfer Tool is installed. *2
	Transfer Cable (the followings can be used) USB transfer cable: CA3-USBCB-01 (Type A - Type A) *It's also possible to send/receive a screen via CF card, USB storage device or Ethernet (GP-3300S/L only).
Requirements for converting screen data of the unit in use and transferring the converted data to Recommended substitute unit	PC with GP-Pro EX installed ST6000 2nd Gen supported version: Ver. 5.02.000 or later NOTE: Need to purchase the GP-Pro EX license to transfer project by GP-Pro EX Ver. 5.00.000 or later
	Transfer Cable (the followings can be used) USB transfer cable: PFXZUSCBMB2 (Type A – Type micro-B) or commercially available USB micro-B transfer cable *It's also possible to send/receive a screen via USB storage device or Ethernet.

*1: This step is required if screen data is saved only in the HMI unit, not in any other device.
If you already have the screen data backup, please go to "3-1. Replacement Procedure – Change model to recommended substitute unit (GP-Pro EX)".

*2: Please use the same or later version of the software used when creating screens on the old model. If you don't know the software version, we recommend that you use the latest one. You can download the latest transfer tool from our website.
https://www.pro-face.com

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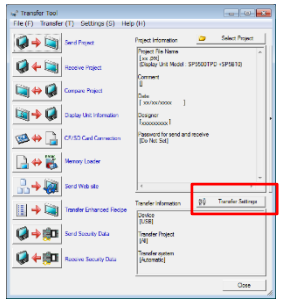
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3-1. Replacement Procedure – Receive Screen data from the model in use (GP-Pro EX)

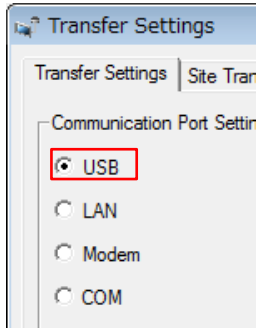
In this section, we will introduce how to receive screen data with a USB transfer cable as an example. If you have the backup of screen data, this step is not necessary. Please go to the next section.

1. Connect your PC and the model in use with a 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.

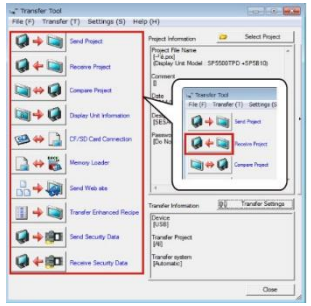
2. Start the Transfer Tool of GP-Pro EX.



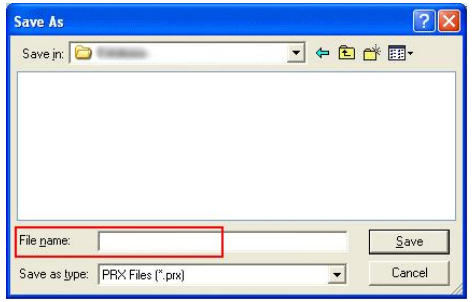
3. Make sure that the [Device] in the “Transfer Settings Information” is set to [USB]. If not, click the [Transfer Setting] button to open the “Transfer Setting” dialog box. Select [USB] in the Communication Port Settings field and click [OK].



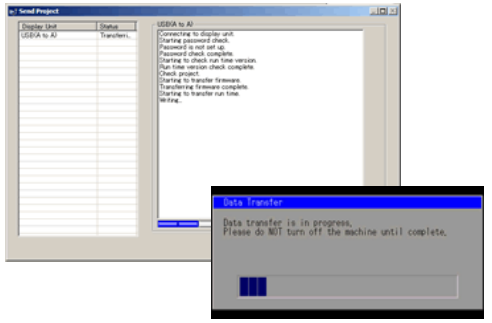
4. Start GP-Pro EX Transfer Tool and click the [Receive Project] button.



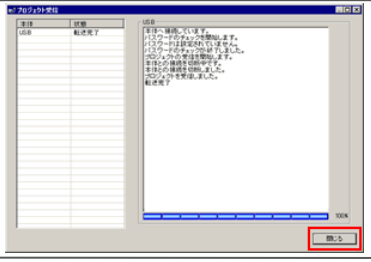
5. Click [Receive Project], and the following dialog box will appear. Specify a place to save the received data in and a project file name, and then click [Save] to start transfer.



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.)



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.

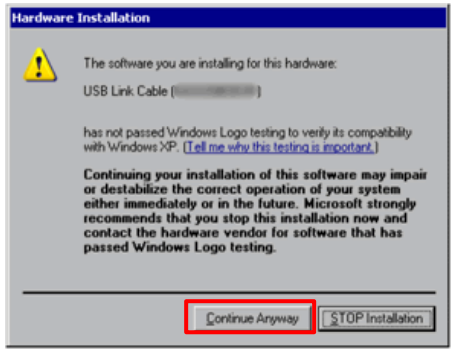


8. Close the Transfer Tool.

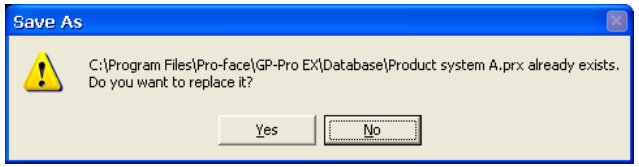
3-1. Replacement Procedure – Receive Screen data from the model in use (GP-Pro EX)

NOTES

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



- When the file already exists, a window will appear asking if you want to overwrite the file.



- When receiving a project file that uses SD card/USB memory data such as Recipe Function (CSV data), the following dialog box will appear during the transfer. Please specify where to save the data. Click [OK] to return to the [Receive Project] dialog box and complete the transfer.

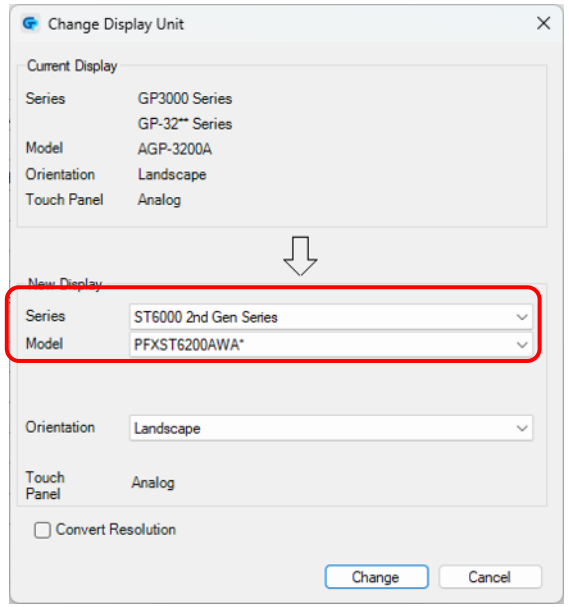


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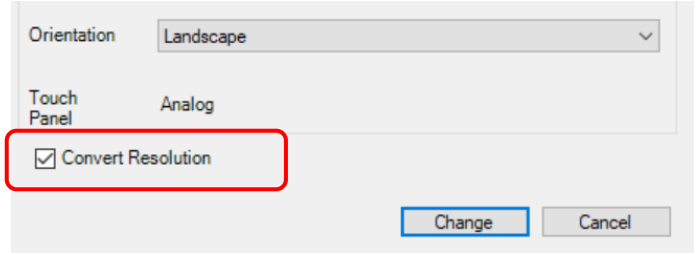
Pro-face™ by Schneider Electric

3-1. Replacement Procedure – Change model to recommended substitute unit (GP-Pro EX)



Change the Display unit from “GP3000 Series” to “ST6000 2nd Gen Series”.
The display can be changed from the menu bar “Project” → “System Settings” → “Display” → “Change Display” in 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. Please pay attention to the following points.



- A function that requires absolute coordinates. Please adjust the settings manually.
  - **Global window**
  - **Position Animation**
- Due to font size and resolution restrictions, manual changes may be required. Please resize them if needed
  - **Font:** In the case of using Standard font, the size will be smaller. You can improve by using Stroke font or Image font.
  - **Objects**
  - **Parts**
  - **Images**
  - **Alarm parts**
- Position may differ from the original project. Please check the coordinate of the window and adjust if needed.
  - **Window display**

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3-1. Replacement Procedure – Transfer screen data to recommended substitute unit (GP-Pro EX)

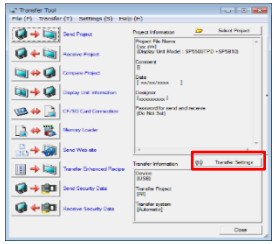
In this section, we will introduce how to transfer screen data with a USB transfer cable as an example. NOTE: The displayed content may vary depending on the version of GP-Pro EX.

1. Connect your PC and the recommended substitute unit with a USB transfer cable. If the driver of the cable has not been installed on your PC, a dialog box will appear. Please follow the instructions.

2. Turn on the power of Recommended substitute unit. The “Welcome” screen will appear on the display unit. After transferring a project file once, this screen will not appear again.



3. On the GP-Pro EX’s State Toolbar, click the [Transfer Project] icon to open the Transfer Tool.
To transfer a different project file, click the [Select Project] button and select a project file.

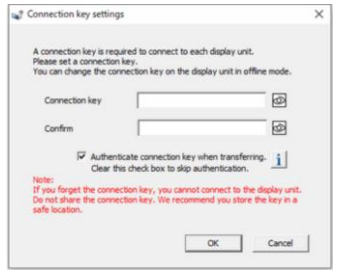


4. Make sure that the [Device] in the “Transfer Settings Information” is set to [USB]. If not, click the [Transfer Setting] button to open the “Transfer Setting” dialog box. Select [USB] in the Communication Port Settings field and click [OK].

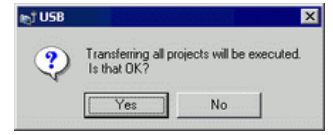


5. Click [Send Project].
In the dialog box that appears, set the connection key and clock [OK].

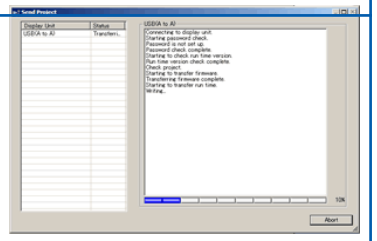
NOTE: If you forget the connection key, you will not be able to connect to the display unit. For more information about connection key, refer to GP-Pro EX reference manual (34.14.4 How the Connection Key Works).



6. When this dialog box appears, click [Yes]. This dialog box is not displayed when the same project file is sent again.

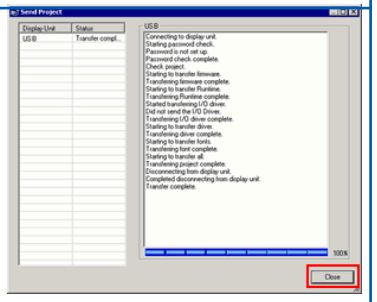


7. The transfer begins. The following dialog box appears during transfer, and you can check the communication status. (The display unit changes to Transferring mode and communication with the device/PLC is suspended.)



8. When transfer is completed, the state of the dialog box changes from [Transferring] to [Transfer Complete]. Click [Close] to close the dialog box.
9. Close the Transfer Tool

10. Click the [X] mark on top right of the screen or [Project] → [Exit] to close GP-Pro EX.



3-2. Software Compatibility – GP-Pro EX Supported Feature Comparison

There are some differences in supported functions between the GP3000 series and the ST6000 2nd Gen series.

For details on supported functions, please refer to "1.5 Supported Features(For GP3000)" and "1.4 Supported Features(For ST6000 2nd Gen)" in the GP-Pro EX Reference Manual.

GP-Pro EX V4.0 Reference Manual

1.5.1 GP3200 Series

1.5.2 GP3300 Series

1.5.3 GP3400 Series

1.5.4 GP3500 Series

1.5.5 GP3600/3700 Series

GP-Pro EX V5.0 Reference Manual

1.4.12 ST6000 2nd Gen Series

3-2. Software Compatibility – Supported Software Version

Supported Software	GP3000 series	PFXST6000 2nd Gen	Compatibility of Project Data
GP-Pro EX	✔	✔ Ver. 5.02.000 or later	✔
	https://www.pro-face.com/otasuke/files/manual/gpproex/new/refer/gpproex.htm		
Pro-Server EX	✔ (except for AGP-3301S/L, GP-3302B)	To be supported*1	-
	https://www.pro-face.com/otasuke/files/manual/soft/server_ex/v1_37/ref/SRPreface.htm		
Pro-face Remote HMI (iOS/Android)	-	✔ Ver. 1.60 or later	NEW
		https://www.pro-face.com/otasuke/qa/remotehmi/faq.html	
Pro-face Remote HMI Client for Win	-	✔ Ver. 1.80 or later	NEW
		https://www.proface.com/en/product/soft/remotehmi_client/download	
Pro-face Connect	-	✔ Ver. 9.6 or later	NEW
	-	https://www.proface.com/en/product/soft/proface_connect/download	

*1 For the latest information, please refer to our Pro-face website (https://www.proface.com).

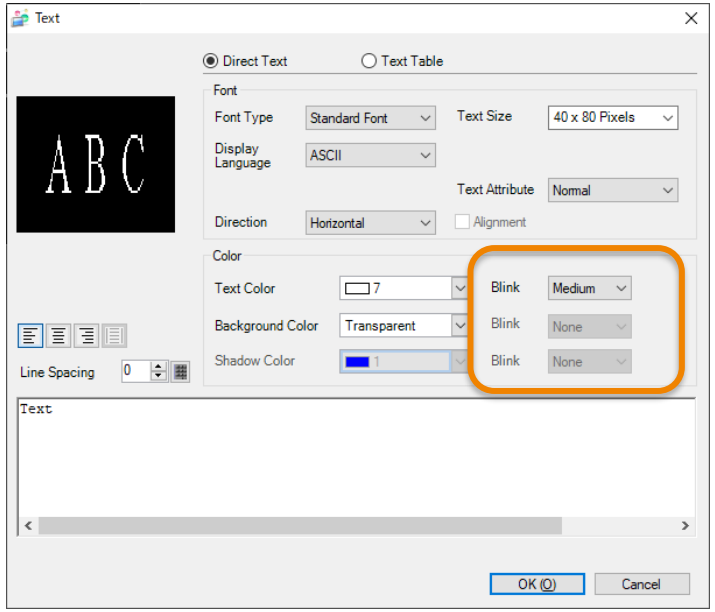
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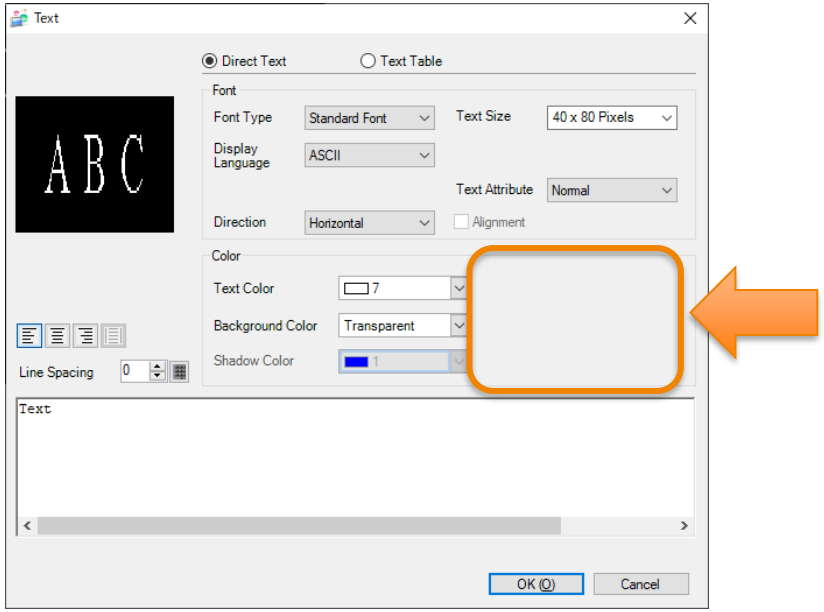
3-3. Other Important Notes on Software

- About Blink function
  - ST6000 Series do not support Blink function. Therefore, if you use the blink settings in GP3000 Series, the settings will be cancelled after changing the display to ST6000 2nd Gen Series in GP-Pro EX.

GP3000 Series



After converting the project to ST6000 2nd Gen Series



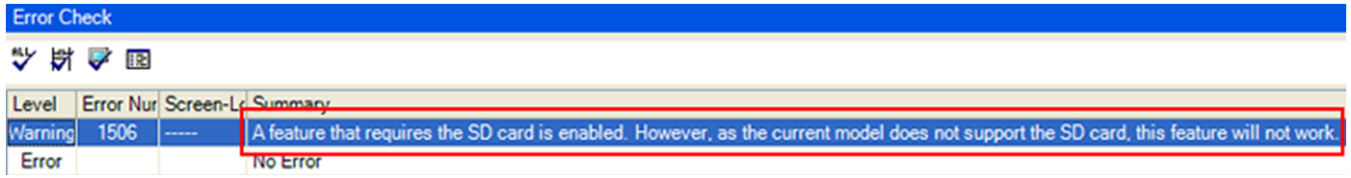
NOTE: We have a workaround to add blink functions to some of the parts/texts on ST6000 2nd Gen display by using the functions of the configuration software, GP-Pro EX. Refer to the following FAQ for the setting procedures.
https:/www.proface.com/en/support/faq/FAQ000268649

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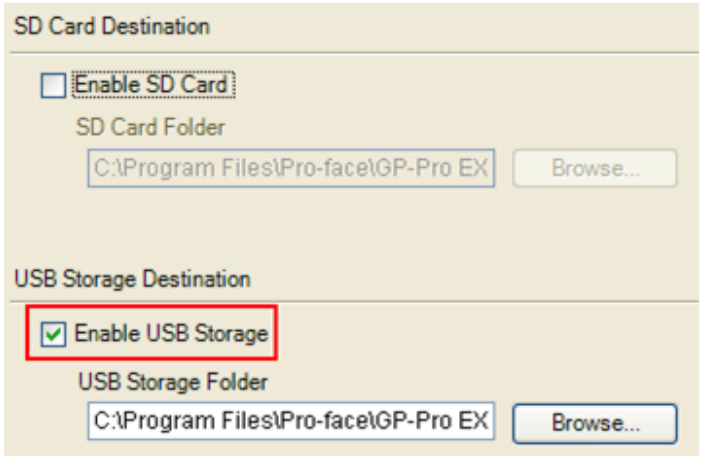
3-3. Other Important Notes on Software

- Changing the setting of the external media to use
  - If a CF card is used for GP3300 Series, after the display unit type of the project file is changed to ST6000 2nd Gen series, “a CF card” is automatically replaced with “a SD card” for the external media setting. However, ST6000 2nd Gen series does not support SD card.
    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, change the SD card setting to the USB storage setting following the procedure below.

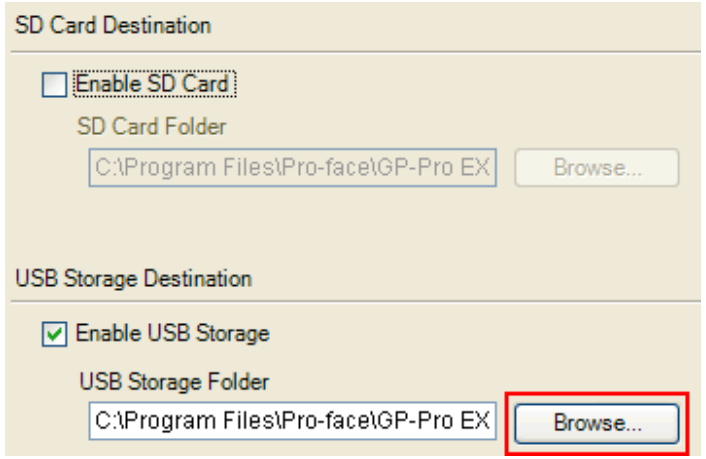


< Procedure >

1) Click [Project] → [Information] → [Destination Folder]
2) Uncheck “Enable SD Card” and check “Enable USB Storage”.



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



4) Click [OK] to confirm the setting.
5) Click [Project]->[Save] to save changes.
6) Check each function that uses the CF Card and replace the setting with [USB Storage].

3-3. Other Important Notes on Software

- About Display colors (GP-3300L, GP-3301L, GP-3302B only)
  - The display color of GP-3300L, GP-3301L and GP-3302B is monochrome. As ST6000 2nd Gen Series do not support monochrome display, if you change the model to ST6000 2nd Gen Series, the display color will be changed to Color display. Therefore, after changing the model, be sure to check the color of the screen data with GP-Pro EX.

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