

Easy! Smooth!

Replacement Guidebook

GP4000 Series W Model → ST6000 2nd Gen Series

The 1st Edition October 2026

SE01-Guide-GP4000TWtoST6000AWA-EN-01

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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 “GP4000 Series W Model” to “ST6000 2nd Gen Series”.
The recommended substitute models are as follows.

Model in use			Recommended substitutes	
GP-4201TW	PFXGP4201TADW	→	PFXST6200AWA	PFXST6200AWADI
GP-4201T	PFXGP4201TAD			
GP-4203T（MPI)	PFXGP4203TAD			
GP-4301TW	PFXGP4301TADW	→	PFXST6400AWA	PFXST6400AWADI
GP-4401WW	PFXGP4401WADW			
GP-4501TW	PFXGP4501TADW	→	PFXST6600AWA	PFXST6600AWADI

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.

Registered Trademarks

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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.

Table of Contents

1 Summary

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 GP4000 Series W Model to ST6000 2nd Gen Series, please note the following points.

- Display resolution: ST6000 2nd Gen Series has a better resolution. You need to convert resolution by the software to use old project data from GP4000 Series.
  To check the replacement procedure, refer to 3. Software Section in this document.

GP-4201TW, GP-4201T, GP-4203T(4.3")	320 x 240 pixels（QVGA）	PFXST6200AWADI (4.3”)	480 x 272 pixels（WQVGA）
GP-4301TW (5")	320 x 240 pixels（QVGA）	PFXST6400AWADI (7”)	800 x 480 pixels（WVGA）
GP-4401WW* **(7" wide)**	800 x 480 pixels (WVGA)		
GP-4501TW (7")	640 x 480 pixels（VGA）	PFXST6600AWADI (12.1”)	1,280 x 800 pixels（WXGA）

*When replacing the GP-4401WW with PFXST6400AWADI, please use the optional mounting adapter (P/N: PFXZHAT4W1).

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

GP-4301TW (5")	W156 x H123.5 mm	PFXST6400AWADI (7”)	W190 x H135 mm
GP-4501TW (7")	W301.5 x H227.5 mm	PFXST6600AWADI (7”)	W295 x H217 mm

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

GP-4201TW, GP-4201T, GP-4203T (4.3")	W132 x H106 x D42 mm	PFXST6200AWADI (4.3”)	W134.5 x H108.5 x D43 mm
GP-4301TW (5")	W169.5 x H137 x D59.5 mm	PFXST6400AWADI (7”)	W208 x H153 x D45 mm
GP-4401WW **(7" wide)**	W218 x H173 x D60 mm		
GP-4501TW (7")	W315 x H241 x D56 mm	PFXST6600AWADI (12.1”)	W313 x H235 x D50 mm

1. Summary

- Serial Interface: The serial interface specification is different between GP-4201TW, GP-4203T(MPI) and ST6000 2nd Gen Series.
  For details, refer to “2-6. Other Important Nots on Hardware”.

- SD Card Interface: GP-4501TW has a SD card interface, but PFXST6600AWADI doesn’t have it.
  Please use a USB storage for the functions used with SD card.

- 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 Series System Settings User Guide

2. Hardware Section

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2-1. GP-4201TW vs PFXST6200AWADI Specification comparison -1. Basic information-

		GP-4201TW	PFXST6200AWADI	Points to note when replacing
Display type		TFT color LCD	TFT color LCD	
Display size		3.5”	4.3”W	
Resolution		320 x 240 pixels (QVGA)	480 x 272 pixels (WQVGA)	Need to change resolution setting by Software
Display colors		65,536 colors (No blink) / 16,384 colors (Blink)	16 million colors (No blink)	Blink function is not supported
Backlight		White LED (not user replaceable)	White LED (not replaceable)	Backlight is not replaceable
Backlight service life		50,000 hours or more (continuous operation at 25 ° C [77 ° F] before backlight brightness decreases to 50%)	50,000 hours or more (continuous operation at 25 ° C [77 ° F] before backlight brightness decreases to 25%)	
Panel cut dimensions		W118.5 x H92.5 mm	W118.5 x H92.5 mm	
External dimensions		W132 x H106 x D42 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 8MB	eMMC Flash 64MB	Please refer to the FAQ for the available capacity of each memory
	Backup memory	SRAM 128KB	NVRAM 320KB	
Battery (clock data backup)		Rechargeable battery / Secondary battery for clock data backup	Replaceable battery / Primary battery for clock data backup	Battery can be replaced by user
Rated input voltage		DC 24V	DC 24V	
Power consumption		9.6W or less	6.9W or less	

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2-1. GP-4201TW vs PFXST6200AWADI Specification comparison -2. Interface-

		GP-4201TW	PFXST6200AWADI	Points to note when replacing
Serial I/F	COM1	RS-232C (D-Sub 9pin Plug)	RS-232C/RS-422/RS-485 (D-Sub 9pin Plug)	Please refer to 2.6. Other important notes on Hardware in this document.
	COM2	RS-422/485 (D-Sub 9pin Plug)	-	
Ethernet I/F		-	10BASE-T/100BASE-TX (RJ-45) x 1	
CF Card I/F		-	-	
SD Card I/F		-	-	
USB I/F	Type A	USB 2.0 x1 -USB transfer cable (CA3-USBCB-01)	USB 2.0 x1	No screen data transfer via Type A
	Type mini-B	USB 2.0 x1 -USB data transfer cable(ZC9USCBMB1) or commercial USB mini-B transfer cable	-	USB I/F changed from USB Type mini-B to Type micro-B.
	Type micro-B	-	USB 2.0 x1 -USB transfer cable(PFXZUSCBMB2) or commercial USB micro-B transfer cable	
Auxiliary I/O I/F		-	-	
Sound Output I/F		-	-	
Expansion Unit I/F		-	-	

Hardware Manual: ST6000 2nd Gen Series Hardware Manual

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2-1. GP-4201/4203T vs PFXST6200AWADI Specification comparison -1. Basic information-

		GP-4201T / GP-4203T	PFXST6200AWADI	Points to note when replacing
Display type		TFT color LCD	TFT color LCD	
Display size		3.5”	4.3”W	
Resolution		320 x 240 pixels (QVGA)	480 x 272 pixels (WQVGA)	Need to change resolution setting by Software
Display colors		65,536 colors (No blink) / 16,384 colors (Blink)	16 million colors (No blink)	Blink function is not supported.
Backlight		White LED (not user replaceable)	White LED (not replaceable)	Backlight is not replaceable.
Backlight service life		50,000 hours or more (continuous operation at 25 ° C [77 ° F] before backlight brightness decreases to 50%)	50,000 hours or more (continuous operation at 25 ° C [77 ° F] before backlight brightness decreases to 25%)	
Panel cut dimensions		W118.5 x H92.5 mm	W118.5 x H92.5 mm	
External dimensions		W132 x H106 x D42 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 16MB	eMMC Flash 64MB	Please refer to the FAQ for the available capacity of each memory.
	Backup memory	SRAM 320KB	NVRAM 320KB	
Battery (clock data backup)		Rechargeable battery / Secondary battery for clock data backup	Replaceable battery / Primary battery for clock data backup	Battery can be replaced by user.
Rated input voltage		DC 24V	DC 24V	
Power consumption		9.6W or less	6.9W or less	

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2-1. GP-4201/4203T vs PFXST6200AWADI Specification comparison -2. Interface-

		GP-4201T	GP-4203T	PFXST6200AWADI	Points to note when replacing
Serial I/F	COM1	RS-232C/422/485 (D-Sub 9pin Plug)	RS-485 (Isolated) (D-Sub 9pin Socket)	RS-232C/RS-422/RS-485 (D-Sub 9pin Plug)	Please refer to 2.6. Other important notes on Hardware in this document.
	COM2	-	-	-	
Ethernet I/F		10BASE-T/100BASE-TX (RJ-45) x1		10BASE-T/100BASE-TX (RJ-45) x 1	
CF Card I/F		-		-	
SD Card I/F		-		-	
USB I/F	Type A	USB 2.0 x1 -USB transfer cable (CA3-USBCB-01)		USB 2.0 x1	No screen data transfer via Type A
	Type mini-B	USB 2.0 x1 -USB data transfer cable(ZC9USCBMB1) or commercial USB mini-B transfer cable		-	USB I/F changed from USB Type mini-B to Type micro-B.
	Type micro-B	-		USB 2.0 x1 -USB transfer cable(PFXZUSCBMB2) or commercial USB micro-B transfer cable	
Auxiliary I/O I/F		-		-	
Sound Output I/F		-		-	
Expansion Unit I/F		-		-	

Hardware Manual: ST6000 2nd Gen Series Hardware Manual

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2-1. GP-4301TW vs PFXST6400AWADI Specification comparison -1. Basic information-

		GP-4301TW	PFXST6400AWADI	Points to note when replacing
Display type		TFT color LCD	TFT color LCD	
Display size		5.7”	7”W	
Resolution		320 x 240 pixels (QVGA)	800 x 480 pixels (WVGA)	Need to change resolution setting by Software
Display colors		65,536 colors (No blink) / 16,384 colors (Blink)	16 million colors (No blink)	Blink function is not supported.
Backlight		White LED (not user replaceable)	White LED (not replaceable)	Backlight is not replaceable.
Backlight service life		50,000 hours or more (continuous operation at 25 ° C [77 ° F] before backlight brightness decreases to 50%)	50,000 hours or more (continuous operation at 25 ° C [77 ° F] before backlight brightness decreases to 25%)	
Panel cut dimensions		W156 x H123.5 mm	W190 x H135 mm	Need to adjust the panel cut size.
External dimensions		W169.5 x H137 x D59.5 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 8MB	eMMC Flash 64MB	Please refer to the FAQ for the available capacity of each memory.
	Backup memory	SRAM 128KB	NVRAM 320KB	
Battery (clock data backup)		Rechargeable battery / Secondary battery for clock data backup	Replaceable battery / Primary battery for clock data backup	Battery can be replaced by user.
Rated input voltage		DC 24V	DC 24V	
Power consumption		10.5W or less	9.6W or less	

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2-1. GP-4301TW vs PFXST6400AWADI Specification comparison -2. Interface-

		GP-4301TW	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 2.6. 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) x1	10BASE-T/100BASE-TX (RJ-45) x2	
CF Card I/F		-	-	
SD Card I/F		-	-	
USB I/F	Type A	USB 2.0 x1 -USB transfer cable (CA3-USBCB-01)	USB 2.0 x1	No screen data transfer via Type A
	Type mini-B	USB 2.0 x1 -USB data transfer cable(ZC9USCBMB1) or commercial USB mini-B transfer cable	-	USB I/F changed from USB Type mini-B to Type micro-B.
	Type micro-B	-	USB 2.0 x1 -USB transfer cable(PFXZUSCBMB2) or commercial USB micro-B transfer cable	
Auxiliary I/O I/F		-	-	
Sound Output I/F		-	-	
Expansion Unit I/F		-	-	

Hardware Manual: ST6000 2nd Gen Series Hardware Manual

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2-1. GP-4401WW vs PFXST6400AWADI Specification comparison -1. Basic information-

		GP-4401WW	PFXST6400AWADI	Points to note when replacing
Display type		TFT color LCD	TFT color LCD	
Display size		7”	7”	
Resolution		800 x 480 pixels (WVGA)	800 x 480 pixels (WVGA)	
Display colors		65,536 colors (No blink) / 16,384 colors (Blink)	16 million colors (No blink)	Blink function is not supported.
Backlight		White LED (not user replaceable)	White LED (not replaceable)	Backlight is not replaceable.
Backlight service life		50,000 hours or more (continuous operation at 25 ° C [77 ° F] before backlight brightness decreases to 50%)	50,000 hours or more (continuous operation at 25 ° C [77 ° F] before backlight brightness decreases to 25%)	
Panel cut dimensions		W204.5 x H159.5 mm	W190 x H135 mm	Panel Cutout Adapter (P/N: PFXZHAT4W1) is available.
External dimensions		W218 x H173 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	eMMC Flash 64MB	Please refer to the FAQ for the available capacity of each memory.
	Backup memory	SRAM 128KB	NVRAM 320KB	
Battery (clock data backup)		Replaceable battery / Primary battery for clock data backup	Replaceable battery / Primary battery for clock data backup	
Rated input voltage		DC 24V	DC 24V	
Power consumption		12W or less	9.6W or less	

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2-1. GP-4401WW vs PFXST6400AWADI Specification comparison -2. Interface-

		GP-4401WW	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 2.6. 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) x1	10BASE-T/100BASE-TX (RJ-45) x2	
CF Card I/F		-	-	
SD Card I/F		Yes	-	To keep using the functions that were working with SD Card, use a USB Memory instead.
USB I/F	Type A	USB 2.0 x1 -USB transfer cable (CA3-USBCB-01)	USB 2.0 x1	No screen data transfer via Type A
	Type mini-B	USB 2.0 x1 -USB data transfer cable(ZC9USCBMB1) or commercial USB mini-B transfer cable	-	USB I/F changed from USB Type mini-B to Type micro-B.
	Type micro-B	-	USB 2.0 x1 -USB transfer cable(PFXZUSCBMB2) or commercial USB micro-B transfer cable	
Auxiliary I/O I/F		-	-	
Sound Output I/F		-	-	
Expansion Unit I/F		-	-	

Hardware Manual: ST6000 2nd Series Hardware Manual

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Public

2-1. GP-4501TW vs PFXST6600AWADI Specification comparison -1. Basic information-

		GP-4501TW	PFXST6600AWADI	Points to note when replacing
Display type		TFT color LCD	TFT color LCD	
Display size		10.4”	12.1”W	
Resolution		640 x 480 pixels (VGA)	1,280 x 800 pixels (WXGA)	Need to change resolution setting by Software
Display colors		65,536 colors (No blink) / 16,384 colors (Blink)	16 million colors (No blink)	Blink function is not supported.
Backlight		White LED (not user replaceable)	White LED (not replaceable)	Backlight is not replaceable
Backlight service life		50,000 hours or more (continuous operation at 25 ° C [77 ° F] before backlight brightness decreases to 50%)	50,000 hours or more (continuous operation at 25 ° C [77 ° F] before backlight brightness decreases to 25%)	
Panel cut dimensions		W301.5 x H227.5 mm	W295 x H217 mm	Need to adjust the panel cut size
External dimensions		W315 x H241 x 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	eMMC Flash 64MB	Please refer to the FAQ for the available capacity of each memory
	Backup memory	SRAM 128KB	NVRAM 320KB	
Battery (clock data backup)		Replaceable battery / Primary battery for clock data backup	Replaceable battery / Primary battery for clock data backup	
Rated input voltage		DC 24V	DC 24V	
Power consumption		17W or less	14.3W or less	

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Public

2-1. GP-4501TW vs PFXST6600AWADI Specification comparison -2. Interface-

		GP-4501WW	PFXST6600AWADI	Points to note when replacing
Serial I/F	COM1	RS-232C (D-Sub 9pin Plug)	RS-232C (D-Sub 9pin Plug)	Please refer to 2.6. 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) x1	10BASE-T/100BASE-TX (RJ-45) x2	
CF Card I/F		-	-	
SD Card I/F		Yes	-	To keep using the functions that were working with SD Card, use a USB Memory instead.
USB I/F	Type A	USB 2.0 x1 -USB transfer cable (CA3-USBCB-01)	USB 2.0 x1	No screen data transfer via Type A
	Type mini-B	USB 2.0 x1 -USB data transfer cable(ZC9USCBMB1) or commercial USB mini-B transfer cable	-	USB I/F changed from USB Type mini-B to Type micro-B.
	Type micro-B	-	USB 2.0 x1 -USB transfer cable(PFXZUSCBMB2) or commercial USB micro-B transfer cable	
Auxiliary I/O I/F		-	-	
Sound Output I/F		-	-	
Expansion Unit I/F		-	-	

Hardware Manual: ST6000 2nd Series Hardware Manual

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Public

2-2. Standards compatibility

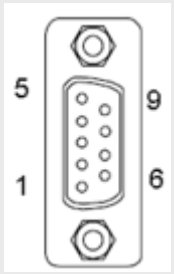
Certification	GP4000 Series W Model	ST6000 2nd Gen Series
CE (EN61000-6-4, EN61000-6-2, EN61131-2)	✓	✓
UKCA	✓	✓
UL/cUL	✓ (UL508) (CSA C22.2 No.142)	✓ (UL61010-2-201) (CSA C22.2 No.61010-2-201)
UL/cUL Class 1, Div. 2	✓ (ANSI/ISA12.12.01) (CSA C22.2 No213)	-
ATEX (Zones 2/22, equipment category 3 Gas Dust)	✓	-
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-GL, ABS, LR, BV, NK, RINA, CCS)	DNV-GL, ABS, LR, BV, NK, RINA, CCS	-
WEEE	✓	✓

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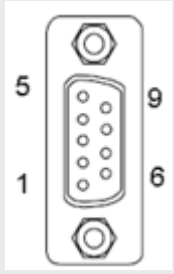
Public

2-3. Interface compatibility – Com pin assignment

GP4000

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)

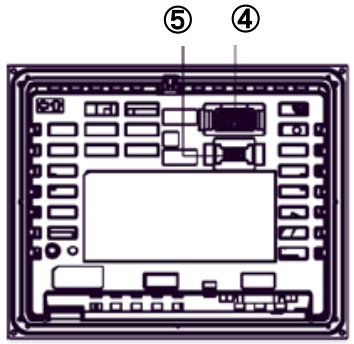
ST6000 2nd Gen

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)

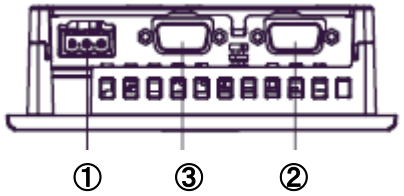
*1 When using RS-232C pin #9, enable VCC with the software

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

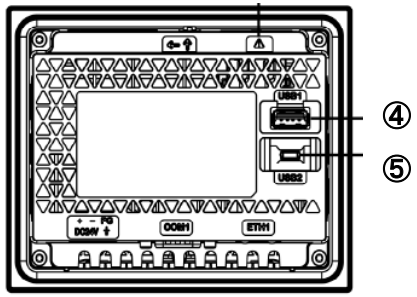
2-3. Interface compatibility – GP-4201TW vs PFXST6200AWADI



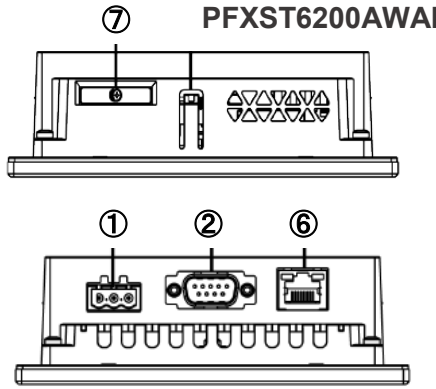
GP-4201TW Rear



GP-4201TW Bottom



PFXST6200AWADI
Rear



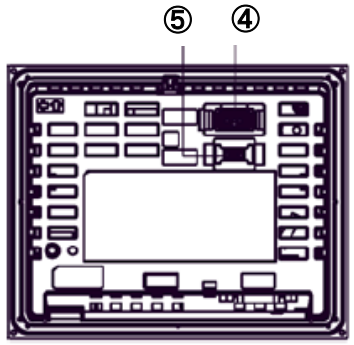
PFXST6200AWADI Top

PFXST6200AWADI
Bottom

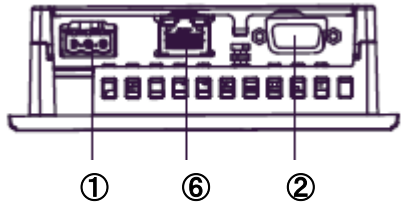
	GP-4201TW	PFXST6200AWADI
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	Serial Interface (COM 2)	-
④	USB (Type A) Interface	USB (Type A) Interface
⑤	USB (mini-B) Interface	USB (micro-B) Interface
⑥	-	Ethernet Interface(ETH1)
⑦	-	Battery Slot

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

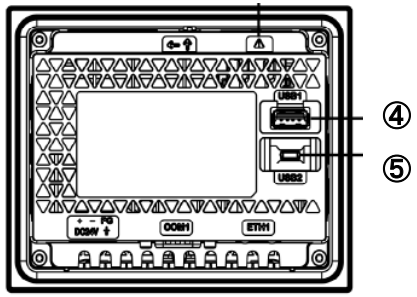
2-3. Interface compatibility – GP-4201/4203T vs PFXST6200AWADI



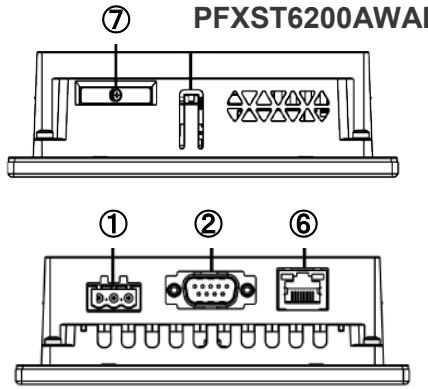
GP-4201 / 4203T Rear



GP-4201 / 4203T Bottom



PFXST6200AWADI
Rear



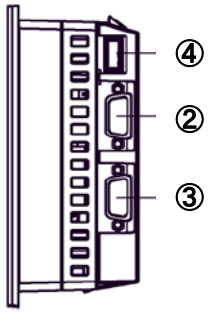
PFXST6200AWADI Top

PFXST6200AWADI
Bottom

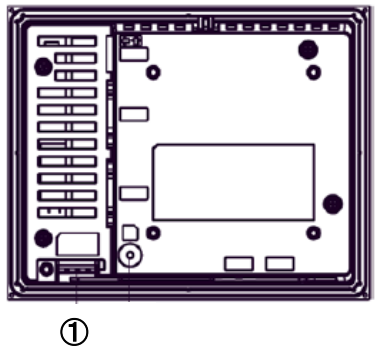
	GP-4201T, GP-4203T	PFXST6200AWADI
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	-	-
④	USB (Type A) Interface	USB (Type A) Interface
⑤	USB (mini-B) Interface	USB (micro-B) Interface
⑥	Ethernet Interface(ETH1)	Ethernet Interface(ETH1)
⑦	-	Battery Slot

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

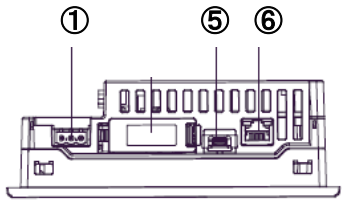
2-3. Interface compatibility – GP-4301TW vs PFXST6400AWADI



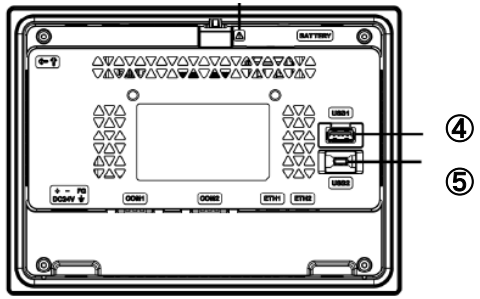
GP-4301TW
Right



GP-4301TW Rear

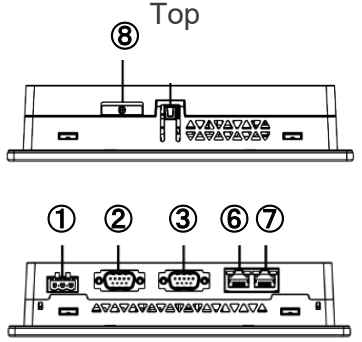


GP-4301TW Bottom



PFXST6400AWADI
Rear

PFXST6400AWADI
Top

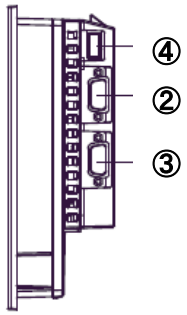


PFXST6400AWADI
Bottom

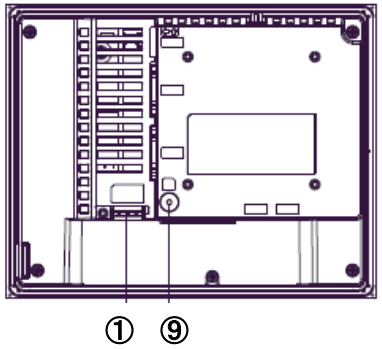
	GP-4301TW	PFXST6400AWA
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	Serial Interface (COM 2)	Serial Interface (COM 2)
④	USB (Type A) Interface	USB (Type A) Interface
⑤	USB (mini-B) Interface	USB (micro-B) Interface
⑥	Ethernet Interface(ETH1)	Ethernet Interface(ETH1)
⑦	-	Ethernet Interface(ETH2)
⑧	-	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.

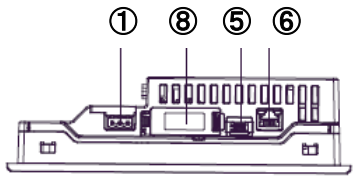
2-3. Interface compatibility – GP-4401WW vs PFXST6400AWADI



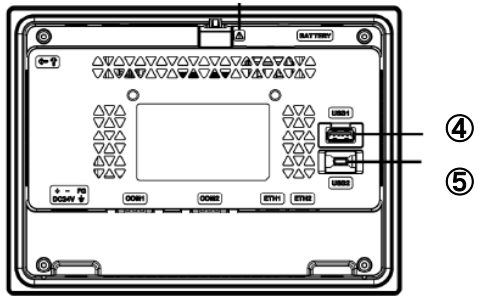
GP-4401WW Right



GP-4401WW Rear

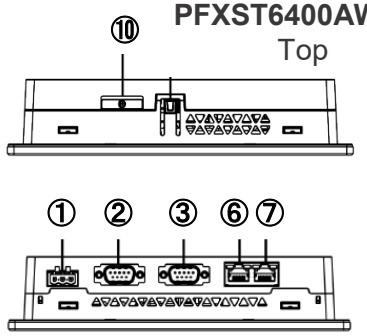


GP-4401WW Bottom



PFXST6400AWADI
Rear

PFXST6400AWADI
Top

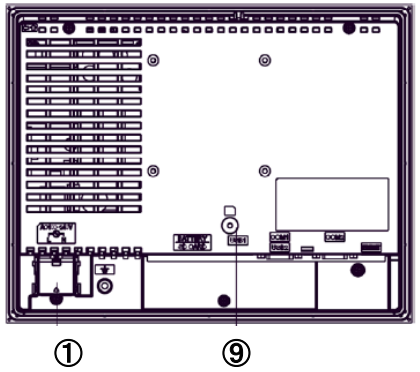


PFXST6400AWADI
Bottom

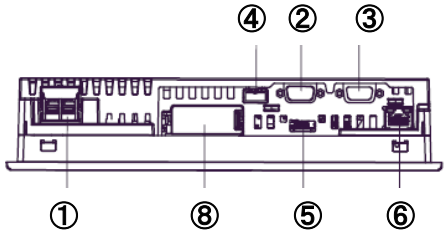
	GP-4401WW	PFXST6400AWADI
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	Serial Interface (COM 2)	Serial Interface (COM 2)
④	USB (Type A) Interface	USB (Type A) Interface
⑤	USB (mini-B) Interface	USB (micro-B) Interface
⑥	Ethernet Interface(ETH1)	Ethernet Interface(ETH1)
⑦	-	Ethernet Interface(ETH2)
⑧	SD Card Interface	-
⑨	SD Card Access LED	-
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.

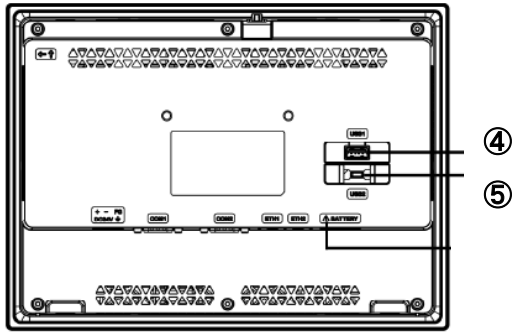
2-3. Interface compatibility – GP-4501TW vs PFXST6600AWADI



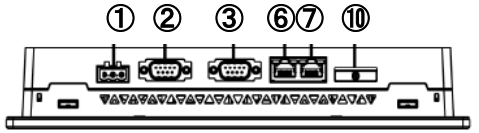
GP-4501TW Rear



GP-4501TW Bottom



PFXST6600AWADI Rear



PFXST6600AWADI
Bottom

	GP-4501TW	PFXST6600AWADI
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	Serial Interface (COM 2)	Serial Interface (COM 2)
④	USB (Type A) Interface	USB (Type A) Interface
⑤	USB (mini-B) Interface	USB (micro-B) Interface
⑥	Ethernet Interface(ETH1)	Ethernet Interface(ETH1)
⑦	-	Ethernet Interface(ETH2)
⑧	SD Card Interface	-
⑨	SD Card Access LED	-
		Battery Slot

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

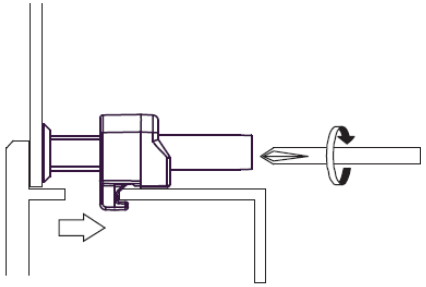
2-4. Installation Method Compatibility – GP-4201TW/4201T/4203T vs PFXST6200AWADI

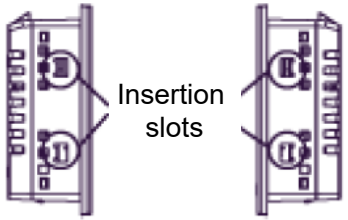
Panel Cut Dimensions of PFXST6200AWADI are the same as GP-4201TW, GP-4201T, GP-4203T.

GP-4201TW, GP-4201T, GP-4203T

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

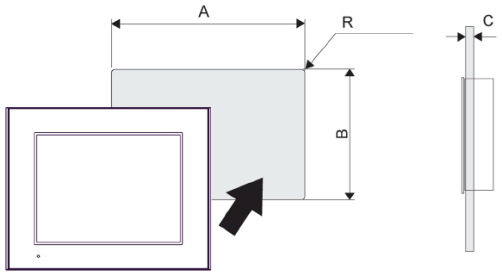
In a clockwise direction, tighten the installation fastener's screws with a screwdriver. The necessary torque is 0.5 N•m.





■ Panel Cut Dimensions

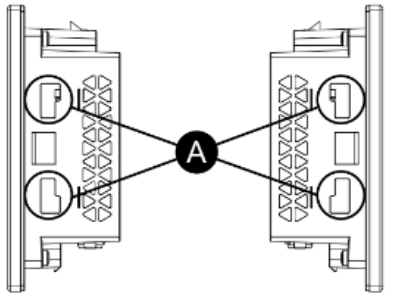
A: 118.5 mm (+1/-0 mm)
B: 92.5 mm (+1/-0 mm)
C: 1.6～5.0 mm

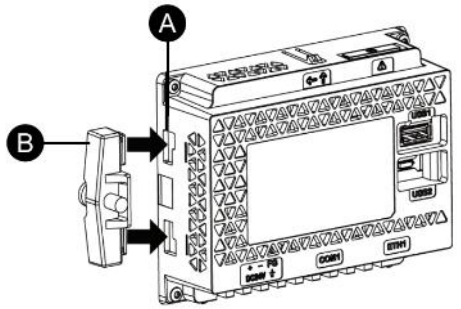


PFXST6200AWADI

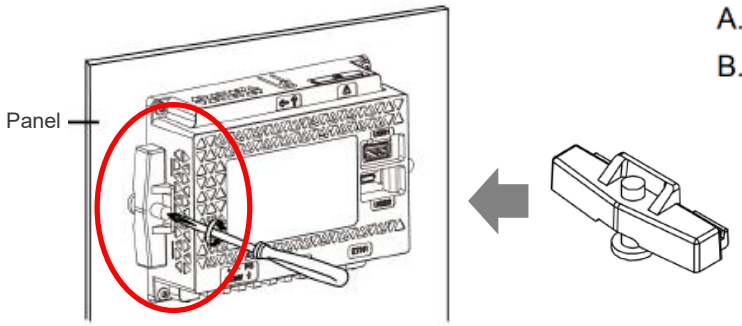
Insert the installation fastener hooks into the insertion slots of this product.

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-4201TW, GP-4201T, GP-4203T.

NOTE: The installation fasteners for GP4000 Series (P/N: PFXZCBAF1) cannot be used for PFXST6200AWADI. For PFXST6200AWADI, please use the fastener (P/N: ZC9AF31) or Spring Clip (P/N: XBTZ3002).
Please check ST6000 2nd Gen Series Hardware Manual for installation requirements and procedure.

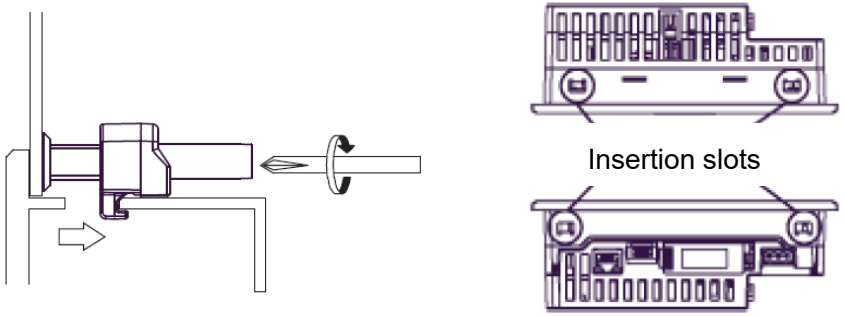
2-4. Installation Method Compatibility – GP-4301/4501TW vs PFXST6400/6600AWADI

The installation method of PFXST6400AWADI, PFXST6600AWADI is generally the same as GP-4301TW, GP-4501TW, but the panel cut dimensions are different.
When replacing the GP-4401WW with PFXST6400AWADI, please use the optional mounting adapter (P/N: PFXZHAT4W1).
For the other sizes, there's no adapter option. It is necessary to adjust the panel cut size by user.

GP-4301TW, GP-4501TW

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.

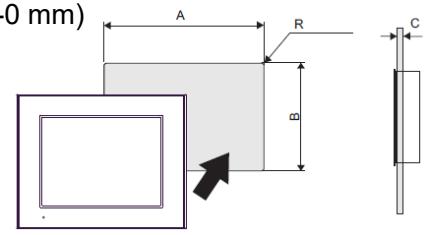


■ Panel Cut Dimensions

GP-4301TW
A: 156 mm (+1/-0 mm)
B: 123.5 mm (+1/-0 mm)
C: 1.6～5.0 mm

GP-4401WW
A: 204.5 mm (+1/-0 mm)
B: 159.5 mm (+1/-0 mm)
C: 1.6～5.0 mm

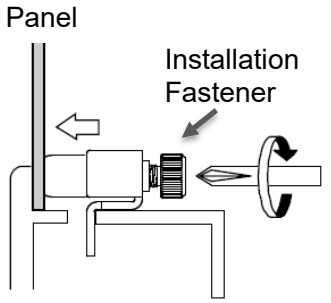
GP-4501TW
A: 301.5 mm (+1/-0 mm)
B: 227.5 mm (+1/-0 mm)
C: 1.6～5.0 mm

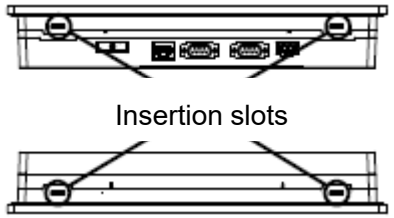


PFXST6400AWADI, PFXST6600AWADI

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.

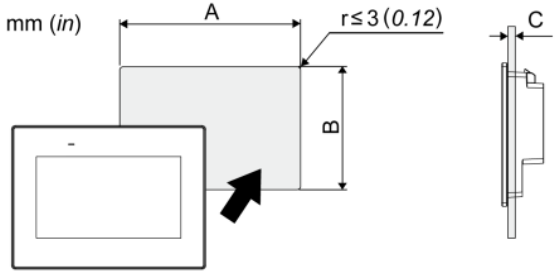




■ Panel Cut Dimensions

PFXST6400AWADI
A: 190 mm (+1/-0 mm)
B: 135 mm (+1/-0 mm)
C: 1.6～5.0 mm

PFXST6600AWADI
A: 295 mm (+1/-0 mm)
B: 217 mm (+1/-0 mm)
C: 1.6～5.0 mm



NOTE: The installation fasteners for GP4000 Series (P/N: PFXZCBAF1) cannot be used for PFXST6400/6600WADI. Please use the fastener (P/N: PFXZCIAFTF1).
Please check ST6000 2nd Gen Series Hardware Manual for installation requirements and procedure.

2-5. Option compatibility – Serial Interface

Product Name	GP4000 W Model	ST6000 2nd Gen	Description	Compatibility
RS-232C Cable (5m)	CA3-CBL232/5M-01	-	Connects a host controller to the GP unit.(RS-232C)	-
RS-422 Cable (5m)	CA3-CBL422/5M-01	CA3-CBL422/5M-01	CA3-CBL422/5M-01 Connects a host controller to the GP unit. (RS-422 / Socket Type)	✔
RS-422 Cable (5m)	CA3-CBL422-01	CA3-CBL422-01	Connects a host controller to the GP unit. (RS-422 / Plug Type)	✔
Mitsubishi PLC A-Series Connection Cable (5m)	CA3-CBLA-01	-	Connects Mitsubishi PLC A or QnA Series programming console I/F to GP unit. (Simultaneous use of programming consoles is not possible.)	-
Mitsubishi PLC Q-Series Connection Cable (5m)	CA3-CBLQ-01	CA3-CBLQ-01	Connects Mitsubishi PLC Q-Series programming console I/F to GP unit.(Simultaneous use of programming consoles is not possible.)	✔
Mitsubishi PLC Q-Series Link Cable (5m)	CA3-CBLLNKMQ-01	CA3-CBLLNKMQ-01	Connects Mitsubishi PLC Q-Series (or other host controller) to the GP unit. (RS-232C)	✔
Mitsubishi PLC FX-Series Connection Cable	CA3-CBLFX/1M-01 (1m) CA3-CBLFX/5M-01 (5m)	-	Connects Mitsubishi PLC FX-Series programming console I/F and GP unit. (Simultaneous use of programming consoles is not possible.)	-
Omron PLC SYSMAC Link Cable (5m)	CA3-CBLSYS-01	CA3-CBLSYS-01	Connects Omron PLC SYSMAC Series unit (or other host controller) to the GP unit. (RS-232C)	✔
Siemens TTY Converter Cable (5m)	CA6-CBLTTY/5M-01	-	Connects Siemens PLC S5 Series to the GP unit.	-
MPI Cable (3.5m)	ST03-A2B-MPI21-PFE CA3-MPI-PG1-PFE CA3-MPI-PGN-PFE	-	Connects a host controller to the GP unit for MPI communication.	-
Multi-Link Cable (5m)	CA3-CBLMLT-01	-	Connects a host controller to the GP unit for multi-link (n:1) communication. Please see "GP-Pro EX Device/PLC Connection Manual" for how to connect the cable.	-
	PFXZCBCBML1	-	Connects a host controller directly to the GP unit (D-sub 9 pin plug) for multi-link (n:1) communication.	-

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

2-5. Option compatibility – Serial Interface

Product Name	GP4000 W Model	ST6000 2nd Gen	Description	Compatibility
9-pin-to-25-pin RS-232C Conversion Cable (0.2m)	CA3-CBLCBT232-01	-	Connects a standard RS-232C cable (D-Sub 25-pin socket) to the GP unit (D-sub 9-pin plug).	-
RS-422 9/25-pin Conversion Cable (0.2m)	PFXZCBCBCVR41	PFXZCBCBCVR41	Connects a standard RS-422 cable (D-sub 25-pin socket) to the GP unit (D-sub 9 pin plug).	✔
2 Port Adapter Cable (5m)	CA3-MDCB11 *End of sale	-	Connects Mitsubishi PLC to the GP unit using 2 port adapter II (RS-422). Please see “GP Pro EX Device/PLC Connection Manual" for how to connect the cable.	✔
	PFXZCBCBMD1 *End of sale	PFXZCBCBMD1 *End of sale	Connects Mitsubishi PLC directly to the GP unit (D-sub 9 pin plug) using 2 port adapter II (RS-422). End of sale: 2019/12/26	✔
Mitsubishi PLC A, QnA, FX Series 2 Port Adapter II	GP070-MD11	-	Enables simultaneous use of a GP unit and a Mitsubishi PLC A, QnA, or FX Series peripheral device. End of sale: 2019/12/26	-
COM Port Conversion Adapter	CA3-ADPCOM-01	PFXZC3ADCM1 (CA3-ADPCOM-01)	Connects optional RS-422 communication items to serial interface.	✔
RS-422 Terminal Block Conversion Adapter	PFXZCBADTM1	PFXZCBADTM1	Connects output from a serial interface (D-sub 9 pin plug) directly to an RS-422 terminal block.	✔
Terminal Block Conversion Adapter	CA3-ADPTRM-01	CA3-ADPTRM-01 (PFXZC3ADCM1)	Connects output from a GP unit’s Serial Interface (D-sub 9 pin socket) directly with an RS-422 terminal block.	✔
RS-232C Isolation Unit	CA3-ISO232-01	CA3-ISO232-01 (PFXZC3ADISR21)	Connects a host controller to this product and provides isolation (RS-232C and RS-422 are switchable).	✔

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2-5. Option compatibility – USB Interface

Product Name	GP4000 W Model	ST6000 2nd Gen	Description	Compatibility
USB Transfer Cable (2m)	CA3-USBCB-01	-	Cable for transferring screen data between a PC (USB Type A) and the GP unit (USB Type A).	- A to A screen transfer is not available.
USB Transfer Cable	ZC9USCBMB1	-	Cable for transferring screen data from a PC (USB Type A) to the GP unit (USB mini-B).	- Use the option for ST6000 2nd Gen series.
	-	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	-	Extension cable that attaches USB interface (Type A) to front panel.	-
USB Panel-mount Extension Cable (USB mini-B) (1 m)	ZC9USEXMB1	-	Extension cable that attaches to the USB (mini-B) interface on the front side of the operation panel.	- Use the option for ST6000 2nd Gen series.
USB (micro-B) Front Cable	-	PFXZCIEXMB2	Extension cable that attaches USB interface (micro-B) to front panel.	
USB Clamp Type A (1 port)	PFXZCBCLUSA1	PFXZCBCLUSA1	Clamp to prevent disconnection of USB cable (USB/A, 1 port, 5 clamps/set)	✔ This clamp is included in the package of GP4000TW, not included in ST6000 2nd Gen.
USB Clamp mini-B (1 port)	ZC9USCLMB1	-	Clamp to prevent disconnection of USB cable (USB/mini-B, 1 port, 5 clamps/set)	- No option available as micro-B clamp

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2-5. Option compatibility – USB Interface

Product Name	GP4000 W Model	ST6000 2nd Gen	Description	Compatibility
USB-Serial (RS-232C) Conversion Cable (0.5m)	CA6-USB232-01	-	Cable for converting a USB interface into a serial interface (RS-232C).	- Not supported
USB/RS-422/485 Conversion Adapter	PFXZCBCBCVUSR41	PFXZCBCBCVUSR41	Adapter for connecting this product (USB Type A) to an external device (RS-422/RS-485).	✔
EZ Tower Light tube mounting fixing plate	PFXZCETWHA1	-	USB Connection Type Monolithic EZ Tower Light tube mounting with fixing plate 3 tiers, Ø60, lighting and flashing with a buzzer.	- Not supported
EZ Tower Light with base mounting	PFXZCETWW1	-	USB Connection Type Monolithic EZ Tower with base mounting 3 tiers, Ø60, lighting and flashing with a buzzer.	- Not supported
EZ LAN Adapter	PFXZCGEUUE1	-	An adapter to expand an Ethernet port to HMI	- Not supported
EZ Illuminated Switch	PFXZCCEUSG1	-	A unit of 5 illuminated switches with multiple color LED easily connected with this product unit via USB.	- Not supported
EZ Numpad	PFXZCCEUKB1	-	Numpad connected to this product via USB.	- Not supported
EZ Fingerprint Recognition Unit	PFXZCCEUSS1	-	Fingerprint recognition unit connected to this product via USB. End of sale: 2020/3/31	- Not supported

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2-5. Option compatibility – Other options

Product Name		GP4000 W Model	ST6000 2nd Gen	Description	Compatibility
SD Memory Card		PFXZCBSD4GC41	-	SD Memory Card（4GB）	- ST6000 2nd Gen series do not have SD card slot.
Screen Protection Sheet	GP-4501TW	PFXZCBDS101	-	Disposable, dirt-resistant sheet for the GP unit screen (5 sheets/set)	- Use the option for ST6000 2nd Gen series.
	GP-4401WW	PFXZCBDS72	-		
	GP-4301TW	PFXZCBDS61	-		
	GP-4201T/4203T GP-4201TW	CA6-DFS4-01	-		
UV Protection Sheet	GP-4501TW	PFXZCFUV101	-	Sheet to protect the display from dirt and ultraviolet light (1 sheet / set)	
	GP-4401WW	PFXZCFUV72	-		
	GP-4301TW	PFXZCFUV61	-		
	GP-4201T/4203T GP-4201TW	PFXZCFUV41	-		
Screen Protection Sheet	PFXST6600AWADI	-	PFXZCDDS122	Disposable, dirt-resistant sheet for the display (5 sheets/set)	
UV Protection Sheet	PFXST6600AWADI	-	PFXZCFUV122	Sheet to protect the display from dirt and ultraviolet light (1 sheet)	
Screen Protection Sheet with UV protected	PFXST6700AWADI	-	PFXZCIDS152	Disposable, dirt-resistant sheet for the display and ultra-violet protection sheet (1 sheet /set)	
	PFXST6500AWADI	-	PFXZCIDS102		
	PFXST6400AWADI	-	PFXZCIDS72		
	PFXST6200AWADI	-	PFXZCIDS42		

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2-5. Option compatibility – Other options

Product Name		GP4000 W Model	ST6000 2nd Gen	Description	Compatibility
Environment Cover	GP-4501TW	PFXZCBOP121	-	Disposable, environmental resistant cover for the GP unit screen (1 sheet / set)	- Cannot be used for ST6000 2nd Gen series.
	GP-4401WW	PFXZCBOP71	-		
	GP-4301TW	PFXZCBOP61	-		
	GP-4201T/4203T GP-4201TW	PFXZCBOP41	-		
Spring Clip		-	XBTZ3002	Fasteners to attach this product to the mounting surface	This option is for PFXST6200AWA.
Mounting Adapter for 7-inch Wide		-	PFXZHAT4W1	Panel Cutout Adapter for GP-4401WW to PFXST6400AWA	This option is for PFXST6400AWA.

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2-5. Option compatibility – Maintenance options

Product Name		GP4000 W Model	ST6000 2nd Gen	Description	Compatibility
Installation Fastener	All GP4000TW	PFXZCBAF1	-	Used to install the GP unit into a solid panel (4 pieces/set)	- Use the option for ST6000 2nd Gen series.
	PFXST6700WA PFXST6600AWA PFXST6500AWA PFXST6400AWA	-	PFXZCIAFTF1	Installation fastener (2 pieces/set)	
	PFXST6200AWA	-	PFXZCFAF31	Installation fastener (2 pieces/set)	
Installation Gasket	GP-4501TW	PFXZCBWG121	-	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-4401WW	PFXZCBWG71	-		
	GP-4301TW	PFXZCBWG61	-		
	GP-4201T/4203T GP-4201TW	PFXZCBWG41	-		
	PFXST6700WA	-	PFXZCIWG153		
	PFXST6600AWA	-	PFXZCIWG123		
	PFXST6500AWA	-	PFXZCIWG103		
	PFXST6400AWA	-	PFXZCIWG73		
	PFXST6200AWA	-	PFXZCIWG43		
USB Clamp Type A (1 port)		PFXZCBCLUSA1	PFXZCBCLUSA1	Clamp to prevent disconnection of USB cable (USB/A, 1 port, 5 clamps/set)	✔ This clamp is included in the package of GP4000TW, not included in ST6000 2nd Gen.

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2-5. Option compatibility – Maintenance options

Product Name	GP4000 W Model	ST6000 2nd Gen	Description	Compatibility
DC Power Supply Connector	PFXZCBCNDC1	-	Connector to connect DC power supply cables (5 pcs/set)	- Use the option for ST6000 2nd Gen series.
DC Power Supply Connector (Right-angle)	PFXZCBCNDC2	-	Right-angle connector to connect DC power supply cables (5 pcs/set)	
DC Power Supply Connector	-	CA5-DCCNM-01	Connector to connect DC power supply cables (5 pcs/set)	
Battery for Memory Backup	PFXZCBBT1	-	Primary battery for memory and time data backup (1 piece) For GP-4501TW/GP4401WW	- Use the option for ST6000 2nd Gen series.
Panel Cutout Adapter	CA4-ATM10-01	-	Panel cutout adapter for mounting GP-4501TW in cutout for GP-2500/2600 series.	-

*1: Use only the BR2032 (manufactured by Panasonic Corporation) battery as a replacement.

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2-6. Other Important Notes on Hardware

- About Serial Interface
  - The Serial Interface specifications of PFXST6200AWADI are different from GP-4201TW, GP-4203T(MPI).
    For the details, please refer to “ST6000 2nd Gen Series Hardware Manual”.
  - The RS-232C device that was connected via COM1 on GP-4201TW will be connected via COM1 on PFXST6200AWADI.
    (The same cable connection can be used.)
    The RS-422/485 device that was connected via COM2 on GP-4201TW will be connected via COM1 on PFXST6200AWADI.
    Before PFXST6200AWA is connected, be sure to change the port setting to “COM1” 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.
  - When replacing GP-4203T (MPI) with PFXST6200AWA, please note that PFXST6200AWA does not support communication speeds of
    187.5K bps (MPI). If MPI communication speed is required, replace it with other series.
  - The cable connection of GP-4201T, GP-4301TW, GP-4501TW can be used for ST6000 2nd Gen Series. Before connecting with ST6000 2nd Gen Series, however, please check it again with "GP-Pro-EX Device/PLC Connection Manual“
- 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.

2-6. 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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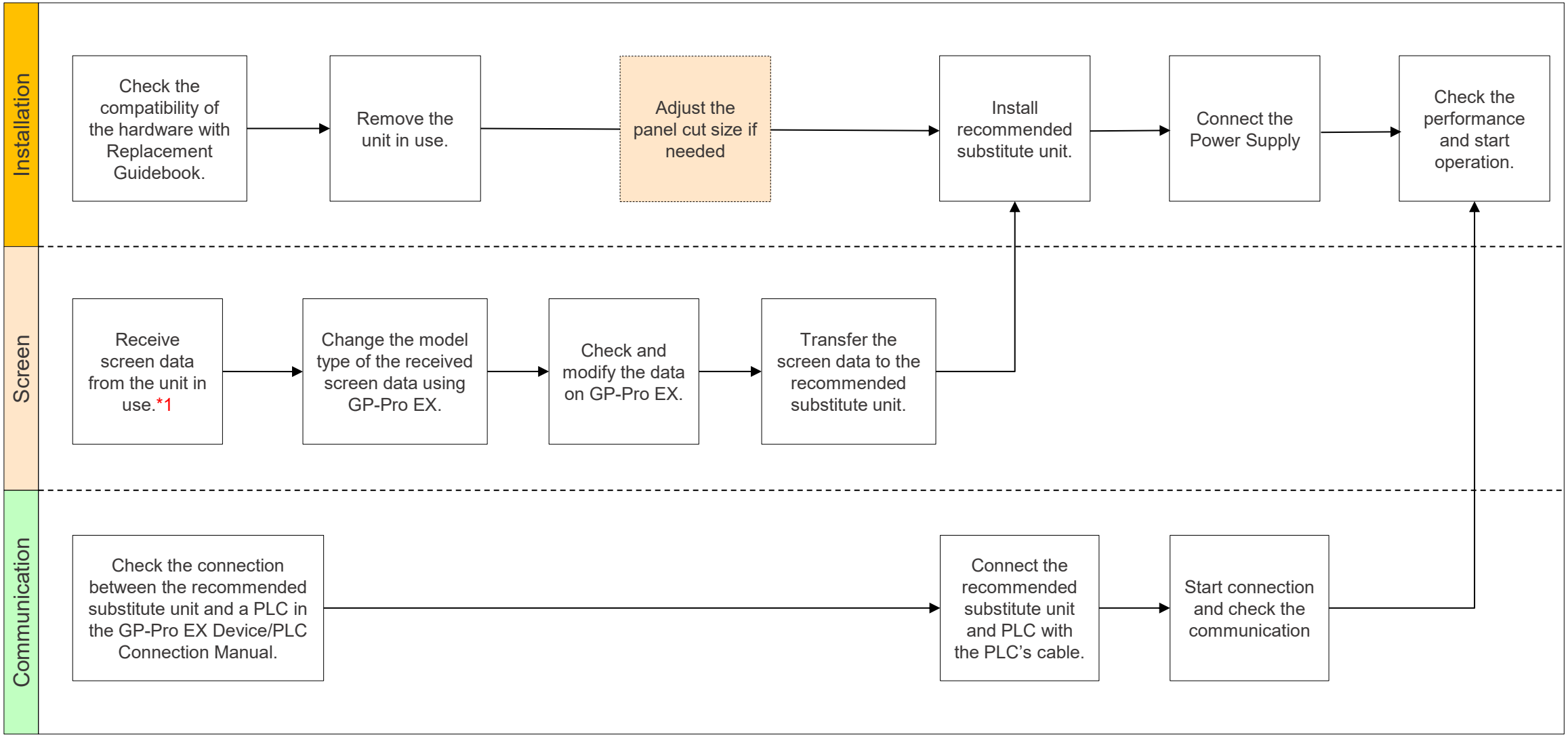
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3. Software Section

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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.

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 USB storage device, SD card (GP-4401WW, GP-4501TW only) or Ethernet (all models except for GP-4201TW).
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 Series 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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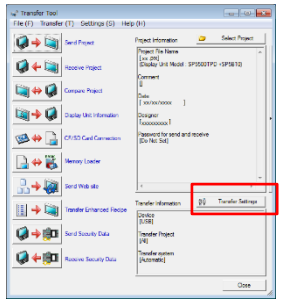
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3-1. Replacement Procedure – Receive Screen data from the model in use (GP-Pro EX)

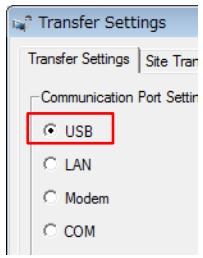
In this section, we will introduce how to receive screen data with a USB transfer cable as an example. If you have the backup of screen data, this step is not necessary. Please go to the next section.

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.

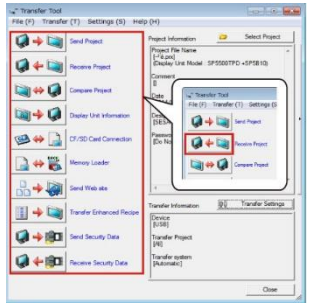
2. Start the Transfer Tool of GP-Pro EX.



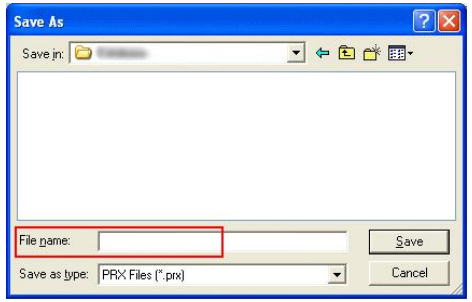
3. Make sure that the [Device] in the “Transfer Settings Information” is set to [USB]. If not, click the [Transfer Setting] button to open the “Transfer Setting” dialog box. Select [USB] in the Communication Port Settings field and click [OK].



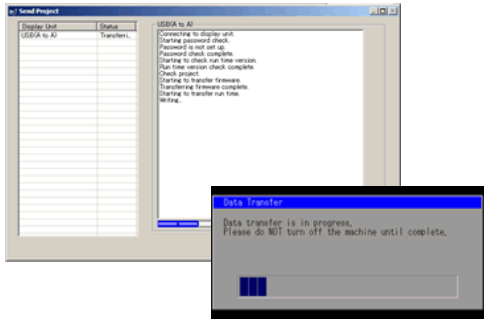
4. Start GP-Pro EX Transfer Tool and click the [Receive Project] button.



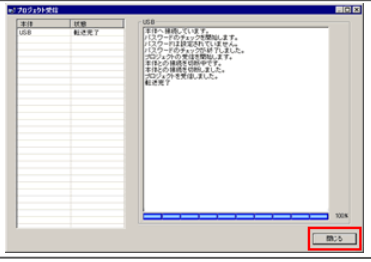
5. Click [Receive Project], and the following dialog box will appear. Specify a place to save the received data in and a project file name, and then click [Save] to start transfer.



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.

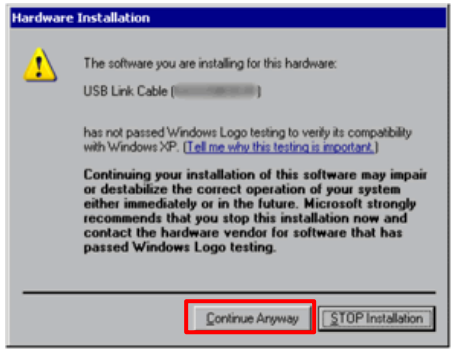


8. Close the Transfer Tool.

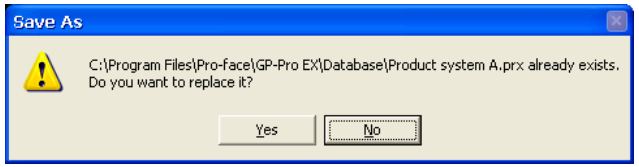
3-1. Replacement Procedure – Receive Screen data from the model in use (GP-Pro EX)

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.



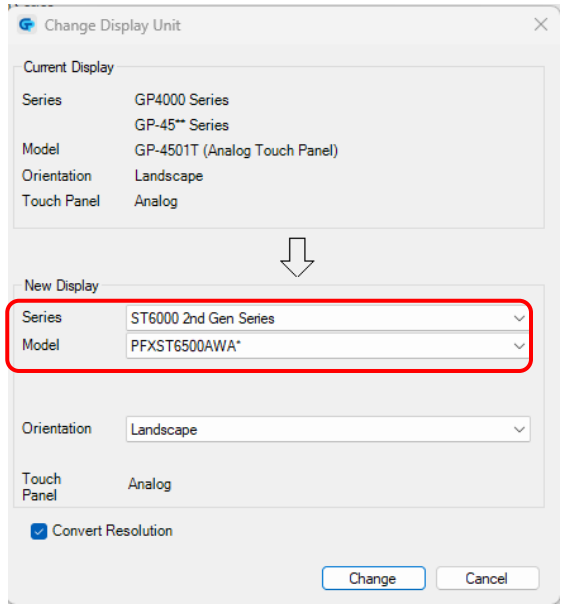
- When receiving a project file that uses SD card/USB memory data such as Recipe Function (CSV data), the following dialog box will appear during the transfer. Please specify where to save the data. Click [OK] to return to the [Receive Project] dialog box and complete the transfer.



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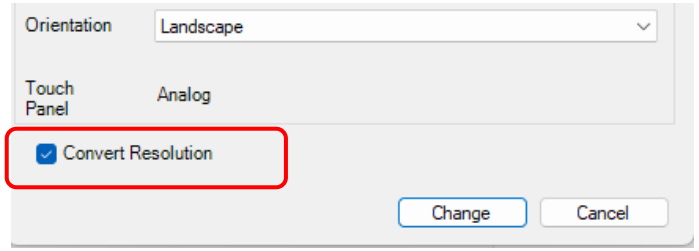
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3-1. Replacement Procedure – Change model to recommended substitute unit (GP-Pro EX)



Change the Display unit from GP4000 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)

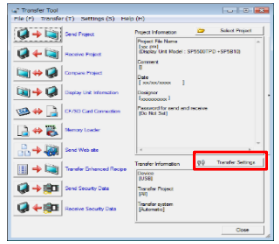
In this section, we will introduce how to transfer screen data with a USB transfer cable as an example. NOTE: The displayed content may vary depending on the version of GP-Pro EX.

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.

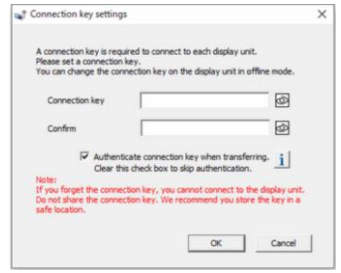


4. Make sure that the [Device] in the “Transfer Settings Information” is set to [USB]. If not, click the [Transfer Setting] button to open the “Transfer Setting” dialog box. Select [USB] in the Communication Port Settings field and click [OK].

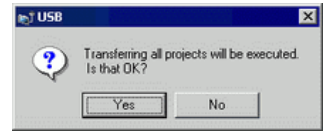


5. Click [Send Project].
In the dialog box that appears, set the connection key and clock [OK].

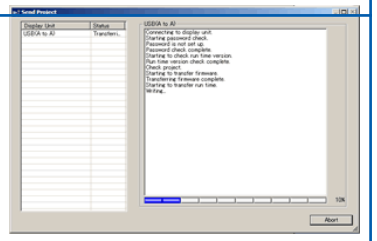
NOTE: If you forget the connection key, you will not be able to connect to the display unit. For more information about connection key, refer to GP-Pro EX reference manual (34.14.4 How the Connection Key Works).



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

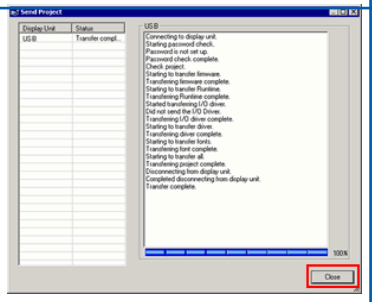


7. The transfer begins. The following dialog box appears during transfer, and you can check the communication status. (The display unit changes to Transferring mode and communication with the device/PLC is suspended.)



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 GP4000 series and the ST6000 2nd Gen series.
For details on supported functions, please refer to "1.4 Supported Features" in the GP-Pro EX Reference Manual.

1.4.5 GP4200 Series
1.4.6 GP4300 Series
1.4.7 GP4400 Series
1.4.8 GP4500 Series
1.4.9 GP4600 Series

1.4.12 ST6000 2nd Gen Series

3-2. Software compatibility

Supported Software	GP-4201TW / GP-4301TW GP-4401WW / GP-4501TW	GP-4201T GP-4203T	ST6000 2nd Gen PFXST6x00AWADI	Compatibility of Project Data
GP-Pro EX	✔ Ver. 3.01 or later (Ver. 3.0 or later for GP-4301TW)		✔ Ver. 5.02.00 or later	✔
	https://www.pro-face.com/otasuke/files/manual/gpproex/new/refer/gpproex.htm			
Pro-Server EX	✔ Ver. 1.30 or later		To be supported*1	x
	https://www.pro-face.com/otasuke/files/manual/soft/server_ex/v1_37/ref/SRPreface.htm			
Pro-face Remote HMI (iOS/Android)	✔ Ver. 1.0 or later		✔ Ver. 1.60 or later	✔
	https://www.pro-face.com/otasuke/qa/remotehmi/faq.html			
Pro-face Remote HMI Client for Win	✔ Ver. 1.40 or later		✔ Ver. 1.80 or later	✔
	https://www.proface.com/en/product/soft/remotehmi_client/download			
Pro-face Connect	✔Ver. 1.0 or later		✔ Ver. 9.6 or later	✔
	https://www.proface.com/en/product/soft/proface_connect/download			

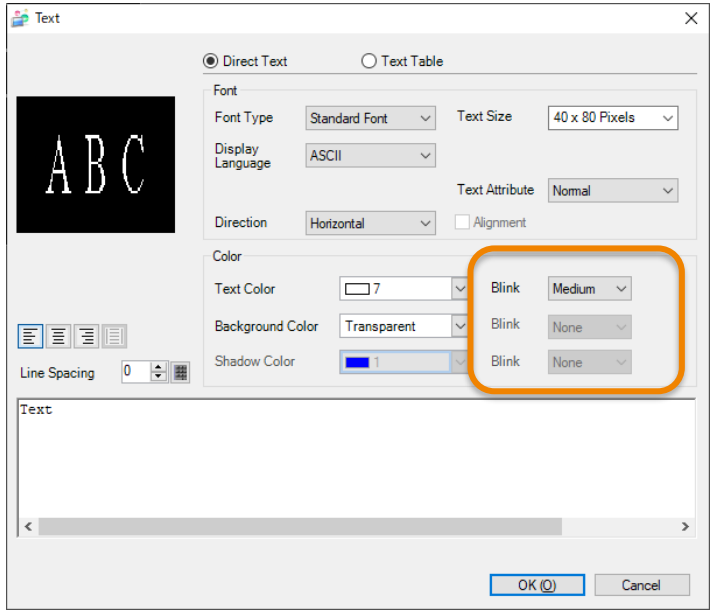
*1 For the latest information, please refer to our Pro-face website (https://www.proface.com).

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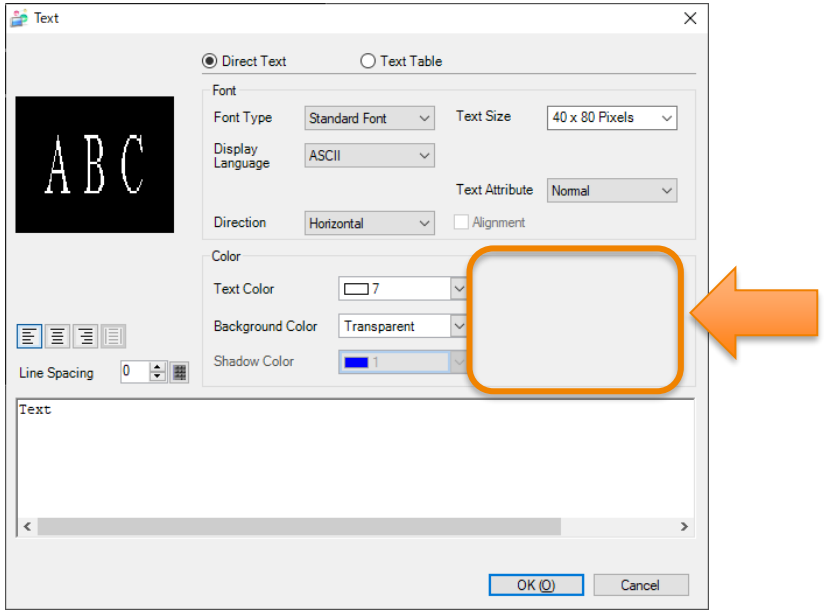
3-3. Other Important Notes on Software

- About Blink function
  - ST6000 2nd Series do not support Blink function. Therefore, if you use the blink settings in GP4000 Series, the settings will be cancelled after changing the display to ST6000 2nd Series in GP-Pro EX.

GP4000 Series



After converting the project to ST6000A Series



NOTE: We have a workaround to add blink functions to some of the parts/texts on ST6000A 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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