Easy! Smooth!

Replacement Guidebook

SP5000 Series Multi-Converter (PFXSP5B10 + PFXZCDADEXP1) → GP6000 Series PFXGP6B40DI

The 2nd Edition, June 2026

SE01-Guide-SP5B10_MultiConverter_to_GP6B40DI-EN-02

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Update History

Date	Edition	Updated Slide	Description
2025/12/08	1st	-	Newly created
2026/06/30	2nd	19, 38	• The version of System Settings is updated For details about System Settings, refer to GP6000 Series System Settings User Guide.
		16, 23, 31, 34-37	• Expansion units for GP6000 Series Advanced models are released. For details about the expansion units, refer to Expansion Unit Hardware Guide.
		24	• For the latest information on supported standards, please refer to our website.

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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 “SP5000 Multi-Converter (PFXSP5B10 + PFXZCDADEXP1)” to “GP6000 Series PFXGP6B40DI”. The recommended substitute models are as follows.

Model in use			Recommended substitutes	
SP5000 Series Multi-Converter Power Box model	Power Box PFXSP5B10 + DC Power Supply Adapter PFXZCDADEXP1	→	GP6000 Series DIN Mount Type	PFXGP6B40DI

Validity Note

This document is valid for GP6000 Series Advanced Model.

The characteristics of the products described in this document are intended to match the characteristics that are available on www.pro-face.com. As part of our corporate strategy for constant improvement, we may revise the content over time to enhance clarity and accuracy. If you see a difference between the characteristics in this document and the characteristics on www.pro-face.com, consider www.pro-face.com to contain the latest information.

Information on Non-Inclusive or Insensitive Terminology

As a responsible, inclusive company, Schneider Electric is constantly updating its communications and products that contain non-inclusive or insensitive terminology. However, despite these efforts, our content may still contain terms that are deemed inappropriate by some customers.

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About this book

Product Related Information

This product has been designed, developed and manufactured for use in industrial or factory automation systems.

• The product is not appropriate for use with aircraft control devices, medical life-support equipment, central trunk data transmission (communication) devices, or nuclear power control devices, due to inherent requirements for extremely high levels of safety and reliability.

• When using the product with transportation vehicles (trains, cars, and ships),disaster and crime prevention devices, safety equipment, or medical devices unrelated to life-support systems, use redundant and/or failsafe system designs to ensure reliability and safety.

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.
- Use only the specified voltage when operating this product. The DC model is designed to use 12 to 24 Vdc, and the AC model is designed to use 100 to 240 Vac. Always check whether your device is DC or AC powered before applying power.
- When using this product in Class I, Division 2, Groups A, B, C, and D hazardous locations, install this product in an enclosure that prevents the operator from touching the back of this product without the use of tools.

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

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.

• Interlocks and other circuits designed to interrupt or prevent equipment operation (such as emergency stops, protective circuits, and opposing action circuits) and circuits that prevent machine damage, such as positioning mechanisms, should be constructed external to the product.

• The product stops operation when it detects an abnormality such as a watchdog timer error. If an error occurs in the input/output control area, which cannot be monitored, it may lead to unexpected input/output behavior. Therefore, it is important to configure an external fail-safe circuit or mechanism.

• Problems with the relay or transistor in the output unit may cause the output to remain either in the ON or OFF state. Install an external monitoring circuit for output signals that may cause a serious accident.

Design the circuit so that power is supplied to the external device or load control power supply connected to this product before it starts.

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.

About this book

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.

⚠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

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About this book

⚠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.

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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Cybersecurity

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.

Security Seal

This product has a security seal attached, which helps detect unauthorized repairs or modifications to the product. Once the security seal is removed, the product cannot be used again as it would increase the security risk.

⚠ WARNING

POTENTIAL COMPROMISE OF SYSTEM AVAILABILITY, INTEGRITY, AND CONFIDENTIALITY

- Do not remove the security seal on the product.
- Do not use products with removed security seals.

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

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Federal Communication Commission Radio Frequency Interference Statement – For 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.

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Hazardous Location Installation - For USA and Canada

General

This product is suitable for use in Class I, Division 2, Groups A, B, C, and D hazardous locations or in non-hazardous locations. Before installing or using this product, confirm that the Hazardous Location certification appears on the product labeling.

NOTE: Some products are not yet rated as suitable for use in hazardous locations. Always use your product in conformance with the product labeling and this manual.

⚠⚠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.
- Use only the specified voltage when operating this product. The DC model is designed to use 24 Vdc, and the AC model is designed to use 100 to 240 Vac. Always check whether your device is DC or AC powered before applying power.

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

⚠WARNING

EXPLOSION HAZARD

- Do not use this product in hazardous environments or locations other than Class I, Division 2, Groups A, B, C, and D.
- Substitution of any components may impair suitability for Class I, Division 2.
- Always confirm the UL 121201 or CSA C22.2 No.213 hazardous location rating of your device before installing or using it in a hazardous location.
- To apply or remove the supply power from this product installed in a Class I, Division 2 hazardous location, you must either: A) Use a switch located outside the hazardous environment, or B) Use a switch certified for Class I, Division 1 operation inside the hazardous area.
- Do not connect or disconnect equipment unless power has been switched off or the area is known to be non-hazardous. This applies to all connections including power, ground, serial, parallel, and network connections.
- Do not install any components, equipment, or accessories manufactured by us or by OEM unless these have also been qualified as suitable for use in Class I, Division 2, Groups A, B, C, and D locations.
- Always use shielded/grounded cables in hazardous locations.
- Use only non-incendive USB devices.
- Do not attempt to install, operate, modify, maintain, service, or otherwise alter this product except as permitted in this manual. Unpermitted actions may impair the suitability of this product for Class I, Division 2 operation.

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

Make sure that this product is properly rated for the location. If the intended location does not presently have a Class, Division and Group rating, then users should consult the appropriate authorities having jurisdiction in order to determine the correct rating for that hazardous location.

Hazardous Location Installation - For USA and Canada

Operation and Maintenance

The systems have been designed for compliance with relevant spark ignition tests.

⚠ WARNING

EXPLOSION HAZARD

In addition to the other instructions in this manual, observe the following rules when installing this product in a hazardous location:

- Wire the equipment in accordance with the National Electrical Code article 501.10 (B) for Class I, Division 2 hazardous locations.
- Install this product in an enclosure suitable for the specific application.

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

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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	First Hardware Setup
	2-7	Other Important Notes on Hardware
3	Software Section	
	3-1	Replacement Procedure
	3-2	Software Compatibility

1. Summary

When replacing from SP5000 Series Multi-Converter Power Box model (PFXSP5B10 + PFXZCDADEXP1) to GP6000 Series DIN Mount Type (PFXGP6B40DI), please note the following points.

- External Dimensions are different. As all the dimensions of W x H x D are different, it is necessary to check the dimensions of the HMI installation location. Refer to the next page.
- The locations of the interfaces are different, so the wiring will change significantly. Refer to 2-3. Interface Compatibility.
- Both models adopt DIN Rail Mounting. As the installation procedures are different, refer to 2-4. Installation Method Compatibility.
- Serial Interface: The serial interface specification is different between SP5000 and GP6000.
  For details, refer to "2-7. Other Important Notes on Hardware".
- The expansion units for SP5000 cannot be used with GP6000. Refer to 2-5. Option Compatibility – Expansion Unit Interface.
- Before replacing the unit, refer to GP-Pro-EX Device/PLC Connection Manual to check the cable connection just in case.
- GP6000 Series Advanced model is supported by GP-Pro EX V5.01.000 or later. For information about the software part, refer to GP-Pro EX Reference Manual. The expansion units (option) are supported by GP-Pro EX V5.02.000 or later.

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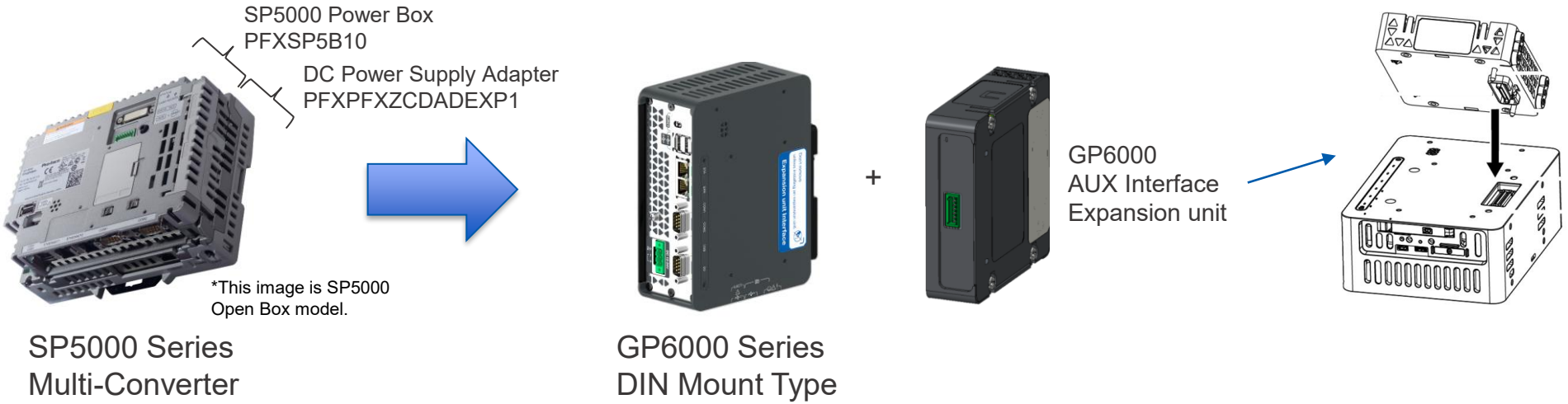
1. Summary

- For Sound/AUX output, an AUX Interface Expansion Unit (P/N: PFXZHMUAUX1) is additionally required with GP6000 Series Advanced model. For more information about the expansion unit, refer to Expansion Unit Hardware Guide.



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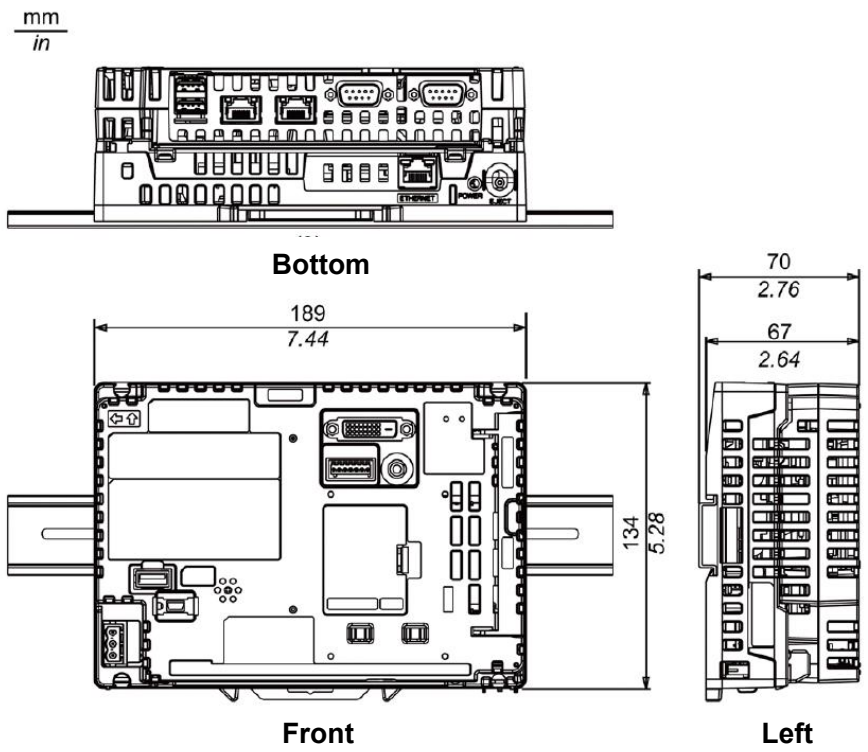
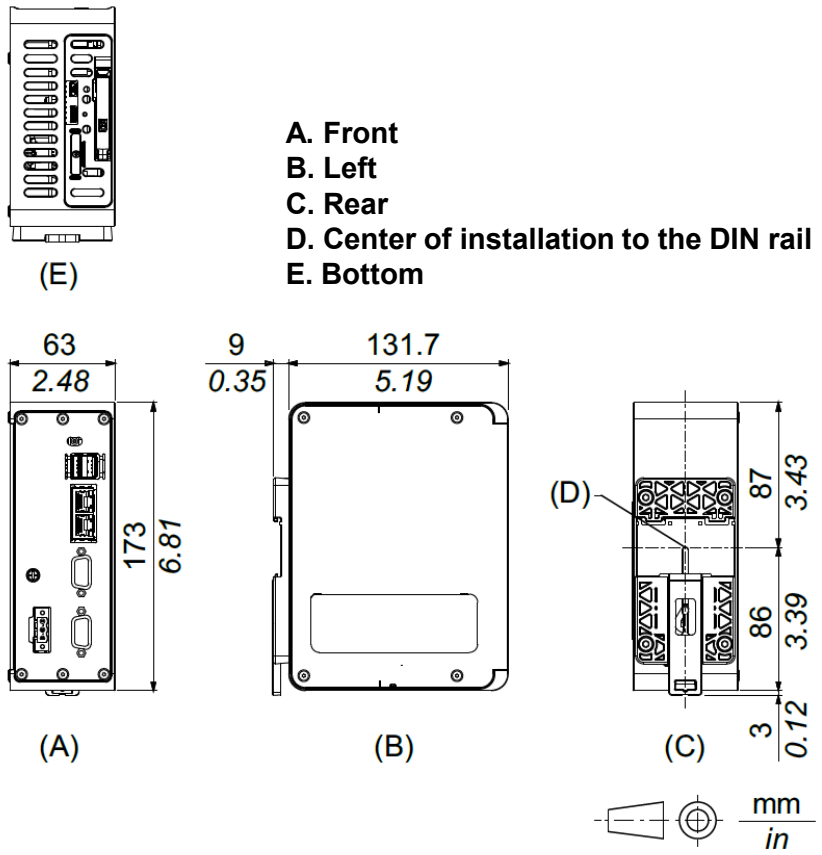
1. Summary

External Dimensions:

PFXSP5B10 + PFXZCDADEXP1	PFXGP6B40DI
W189 x H134 x D67 mm (D70 mm with DIN rail)	W173 x H131.7 x D63* mm



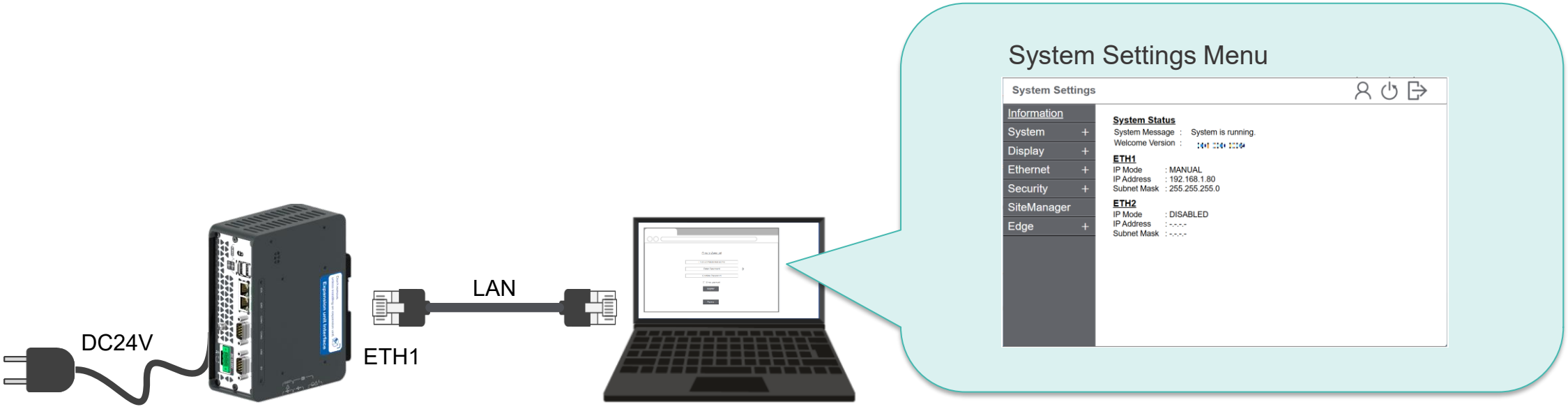
*This image is SP5000 Open Box model.



*The depth increases when expansion unit(s) are attached.

1. Summary

- After turning on GP6000 Series DIN Mount Type for the first time, perform the system setup in the **System Settings**. In the System Settings, configure the product's hardware configuration and network settings such as IP addresses.
- As the product doesn't have a display, the setup is done remotely from a browser by connecting the product to your computer via local area network. For how to set up, refer to 2-6. First Hardware Setup.

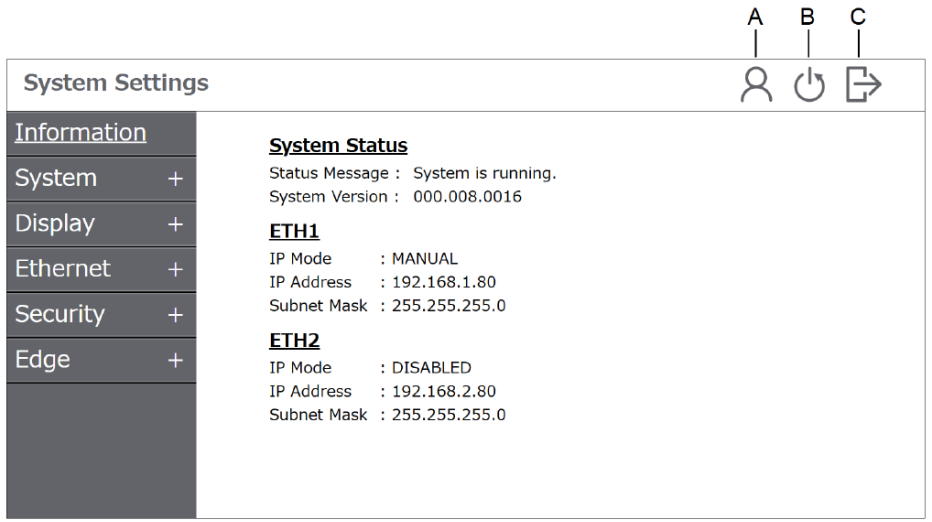


Set up remotely using a web browser on your computer

1. Summary

These functions are available in the System Settings.

Menu		Description
Information	-	Displays the system status, version information, etc.
System	System monitor	Displays the number of times this product has been started, the total operating time, the temperature inside the product, etc. This also exports the system settings operation log.
	Date and Time	Set the product's internal clock.
	Language	Select the user interface language for the system settings.
	Factory Reset *1	Resets the product to the state it was in when it was purchased.
	Backup Restore *1	Back up the data in the product to a USB storage device and use the backup file to restore the product.
	Recovery *1*4	If the HMI runtime does not work properly, use this command to reboot the product and enter recovery mode.
Display *3	Display1	Configure display settings such as brightness and touch areas.
Ethernet *1	ETH1/ETH2	Configure the Ethernet settings.
Security	Password	Change the login password.
	User Account *1*2	Register or delete standard user account separate from the account with administrator privileges.
	Firewall *1	Configure settings related to the firewall.
	IP Forwarding *1*6	Received IP packets are forwarded to the appropriate interface based on the destination information, which enables communication between different networks.
	External Access *1*5	Set whether to allow remote access to system settings.
SiteManager *1	-	Configure SiteManager to remotely access this product using Pro-face Connect.



	Function	Description
A	Switching accounts	Switch user accounts. This function is displayed if you have a standard user account in addition to the administrator account.
B	Reboot	Reboot the product.
C	Logout	Log out of the system settings and return to the previous screen.

NOTE: For more information about System Settings, refer to GP6000 Series System Settings User Guide.

*1 Displays only if you are logged in with an administrator account. *2 If password authentication is not used, this setting is not displayed. *3 For the DIN mount type of the GP6000 Series Advanced Model, this menu is displayed only when an expansion display is connected to the Type-C interface. *4 This function is available only when your screen editing software supports it. *5 This menu item appears on DIN mount types of the GP6000 Series Advanced Model only. *6 This menu item appears on the GP6000 Series Advanced Model only.

1. Summary

The model number of GP6000 Series Advanced Model partly differs depending on a specification.
Before placing an order, please make sure of the model number.

Digit position												
1	2	3	4	5	6	7	8	9	10	11	12	13 and later
						(display size)	(type)		(LCD)	(touch panel)	(power supply)	(supported software, others)
PFX			GP6			5: 10"	40: Advanced		T: TFT	C: Multi (PCAP)	A: AC	I: GP-Pro EX
						6: 12"			W: Wide TFT	M: Analog (multi-touch)	D: DC	
						7: 15"			(none): No display (DIN mount type)	(none): No display (DIN mount type)		
						8: 19"						
						9: 22”						
						B: No display (DIN mount type)						

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2. Hardware Section

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2-1. Specification Comparison – 1 of 2 pages

		PFXSP5B10 + PFXZCDADEXP1	PFXGP6B40DI	Points to note when replacing
Rated Input Voltage		12…24 Vdc	12…24 Vdc	
Power Consumption		27W or less	70W or less *when power is supplied to expansion units and expansion display*1 20W or less *when power is not supplied to expansion units and expansion display	
Environmental Spec		Operating Temp: 0…60°C Storage Temp: -20…60°C	Operating Temp: -20…60°C Temperature class (T-Code): T4 Storage Temp: -20…60°C	
Resolution Output		800 x 600 pixels (SVGA) 1,024 x 768 pixels (XGA)	800 x 600 pixels (SVGA) 1024 x 768 pixels (XGA) 1280 x 800 pixels (WXGA) 1920 x 1080 pixels (Full HD)	GP6000 Supports 1280 x 800 or 1920 x 1080 pixels when connecting via Type-C port *2
Number of connected drivers		4	4	
Memory	Application memory	FLASH EPROM 64MB	eMMC Flash 128MB	
	Backup memory	NVRAM 320KB	NVRAM 320KB	
Battery (clock data backup)		No need to use battery. PFXSP5B10 uses a supercapacitor (electric double-layer capacitor) for clock data backup	Lithium metal battery (primary battery, replaceable) Battery life: 5 years (approximate)	

*1 Power consumption when devices are connected to the expansion unit interface and the USB (Type-C) interface. *2 To be supported (Schedule: TBD)

2-1. Specification Comparison – 2 of 2 pages

		PFXSP5B10 + PFXZCDADEXP1	PFXGP6B40DI	Points to note when replacing
Serial Interface	COM1	RS-232C/422/485 (D-Sub 9pin Plug)	RS-232C (D-Sub 9pin Plug)	Please refer to 2-7. Other important notes on Hardware in this document.
	COM2	RS-232C/422/485 (D-Sub 9pin Plug)	RS-422/485 (D-Sub 9pin Plug)	
Ethernet Interface		10BASE-T/100BASE-TX/1000BASE-T (RJ-45) x 2 10BASE-T (RJ-45) x 1 (Adapter side)	10BASE-T/100BASE-TX/1000BASE-T (RJ-45) x 2 *1*2	
SD Card Interface		SD Card slot (System) x 1 SD Card slot (Storage) x 1 (maximum 32GB SD/SDHC Card)	SD Card slot x 1 (SD/SDHC/SDXC, UHS-I supported)	
USB Interface	Type-A	USB 2.0 x 2 - USB transfer cable (CA3-USBCB-01)	USB 2.0 x 2	No screen data transfer via Type-A
	Type mini-B	USB 2.0 x 1 - USB transfer cable (ZC9USCBMB1)	-	USB I/F changed from USB Type mini-B to Type micro-B
	Type micro-B	-	USB 2.0 x 1 - USB transfer cable (PFXZUSCBMB2) or commercial USB micro-B transfer cable	
	Type-C	-	USB 2.0 x 1*3	No screen data transfer via Type-C
Expansion Unit Slot		Fieldbus Unit x1	Up to 5 expansion units (option)*4	SP5000 expansion units cannot be used with GP6000.
Sound Output		Yes	with AUX interface expansion unit (option)	
AUX Output		Yes	with AUX interface expansion unit (option)	
Structure		N/A	IP20	
External dimensions		W189 x H134 x D67 mm	W173 x H131.7 x D63*5 mm	The dimensions are different.
Mounting		DIN Rail Mounting*6	DIN Rail Mounting	

*1 The factory default for the ETH2 port is disabled. Use the System Settings to change it. *2 For 1000BASE-T communication, use twisted pair Ethernet cables with a rating of category 5e or higher. *3 The USB (Type-C) interface supports DisplayPort Alternate Mode. This interface is currently unavailable. *4 Except for the backup memory expansion unit, only one unit of each type can be connected to the main unit. *5 The depth increases when expansion unit(s) are attached. *6 If Wall Mount Adapter accessory (P/N: PFXZSPADWM1) is used, you can install the product to wall or floor.

2-2. Standards Compatibility

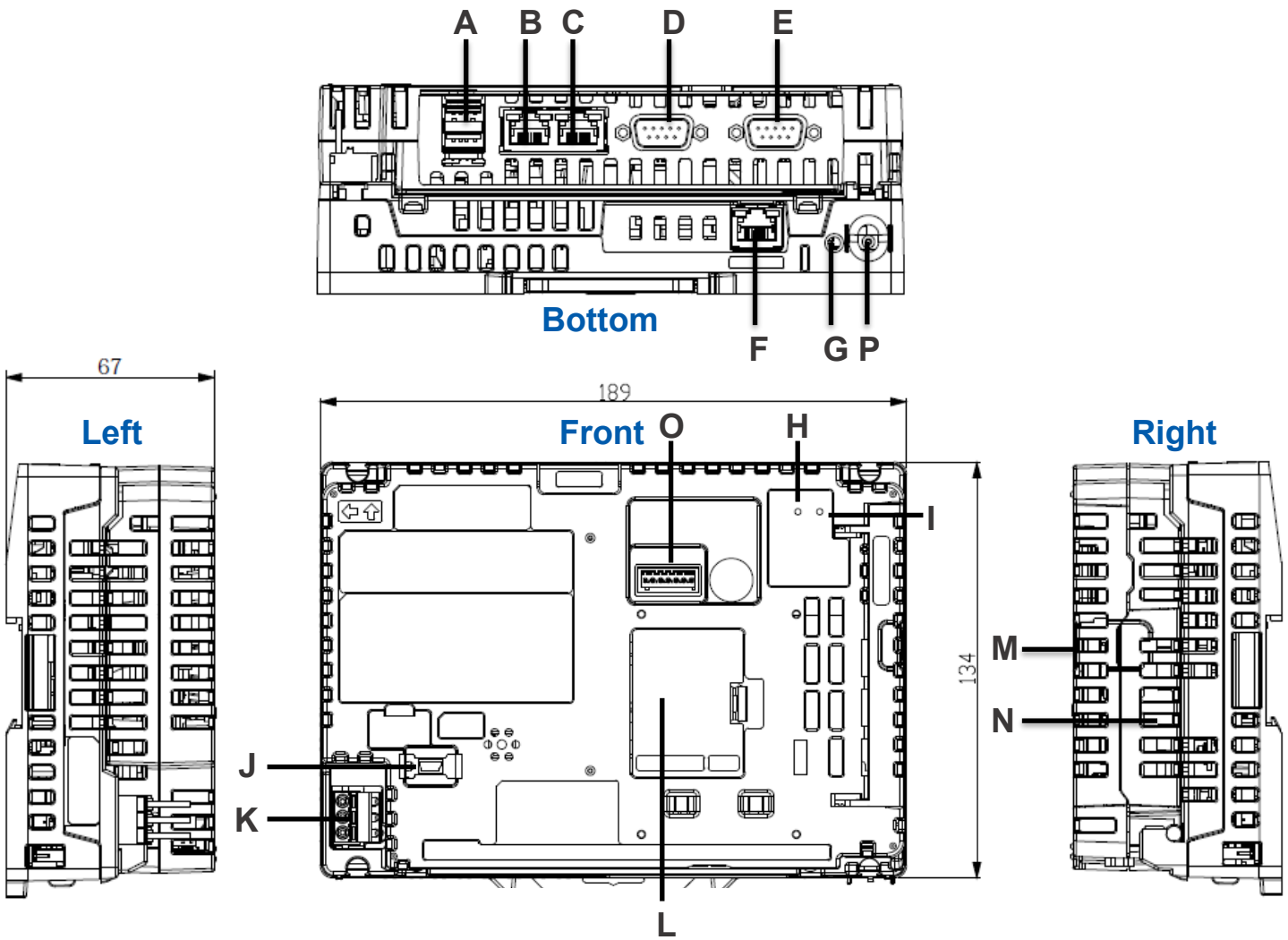
Certification	PFXSP5B10 + PFXZCDADEXP1	PFXGP6B40DI
CE (EN61000-6-4, EN61000-6-2, EN61131-2)	✓	✓
UKCA	✓	✓
UL/cUL	✓ (UL61010-2-201) (CSA C22.2 No.61010-2-201)	✓ (UL61010-2-201) (CSA C22.2 No.61010-2-201)
UL/cUL Class 1, Div. 2	✓ (ANSI/ISA12.12.01) (CSA C22.2 No213)	✓ (UL121201) (CSA C22.2 No213)
ATEX (Zones 2/22, equipment category 3 Gas Dust)	✓	✓*1
IECEx (Zones 2/22, equipment category 3 Gas Dust)	✓	✓*1
UKEX	✓	✓*1
KCs	-	✓*1
NEPSI → CCC-Ex	-	✓*1
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)	-	✓*1 (DNV, NK, EU RO MR)
WEEE	✓	✓

*1 For the latest information, please refer to our website.

2-3. Interface Compatibility – SP5000 Series Multi-Converter

Black texts: Power Box PFXSP5B10
Blue texts: Power Supply Adapter PFXZCDADEXP1

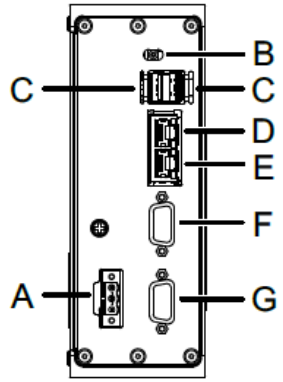
SP5000 Multi-Converter (PFXSP5B10 + PFXZCDADEXP1)



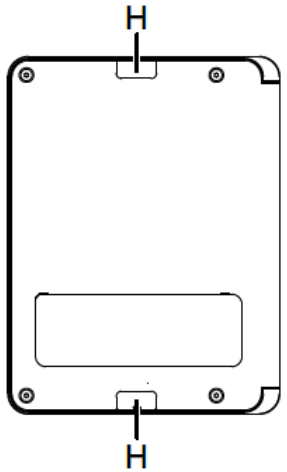
	PFXSP5B10 + PFXZCDADEXP1
A	USB (Type-A) Interface x 2
B	Ethernet Interface (Ethernet1)
C	Ethernet Interface (Ethernet2)
D	Serial Interface (COM1)
E	Serial Interface (COM2)
F	Ethernet Interface (ETHERNET)
G	Status LED (POWER)
H	Status LED
I	Card Access LED
J	USB (mini-B) Interface
K	Power Plug Connector
L	Expansion Unit Interface Cover (EXT) The Expansion Unit can be embedded in the Expansion Unit Interface Cover opening, and Battery for Memory Backup can be connected or replaced.
M	Storage Card Cover The SD Card is located in the Storage Card Cover opening.
N	System Card Cover The system card is located in the System Card Cover opening. You cannot open this cover when the Box Module is in operation.
O	Auxiliary Output/Speaker Output Interface (AUX) This interface is Alarm Output or Buzzer Output, and Sound Output.
P	Eject switch for SD card (EJECT) Push the switch to eject the SD memory card, used for storage.

2-3. Interface Compatibility – GP6000 Series DIN Mount Type

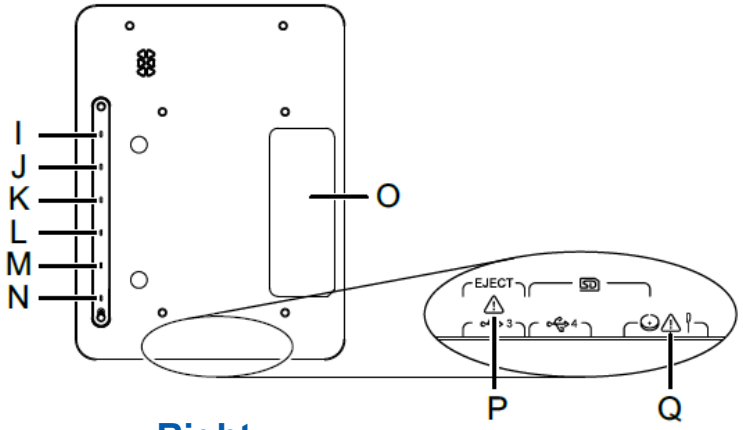
PFXGP6B40DI



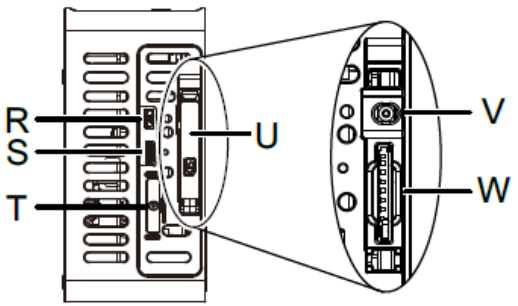
Front



Left

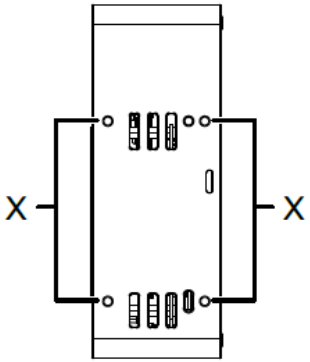


Right



Bottom

	PFXGP6B40DI				
A	Power Connector (DC)	I	Status LED (STA)	Q	Safety Alert Symbol
B	USB Storage Eject Button	J	Error LED (ERR)	R	USB (micro-B) Interface
C	USB (Type-A) Interface (x 2)	K	COM1 LED (COM1)	S	USB (Type-C) Interface*2
D	Ethernet Interface (ETH1)	L	COM2 LED (COM2)	T	Battery Slot Cover
E	Ethernet Interface (ETH2)*1	M	USB Storage LED (USB)	U	SD Card Slot Cover
F	Serial Interface (COM1)	N	SD Card Access LED (SD)	V	SD Card Eject Button
G	Serial Interface (COM2)	O	Expansion Unit Interface	W	SD Card Slot
H	Security Seal	P	Safety Alert Symbol	X	Screw holes for attaching DIN rail attachment



Rear

*1 The factory default for the ETH2 port is disabled. Use the System Settings to change it. *2 This interface is currently unavailable.

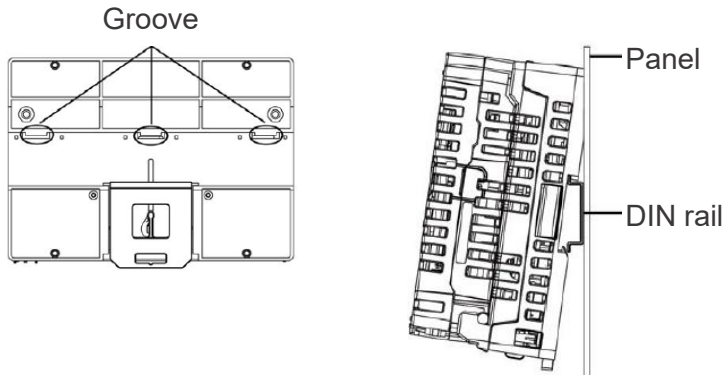
NOTE: Please be careful when replacing, as the wiring will change significantly.
Please check GP6000 Series Advanced Model Hardware Guide for details such as interface specifications and pin assignments.

2-4. Installation Method Compatibility

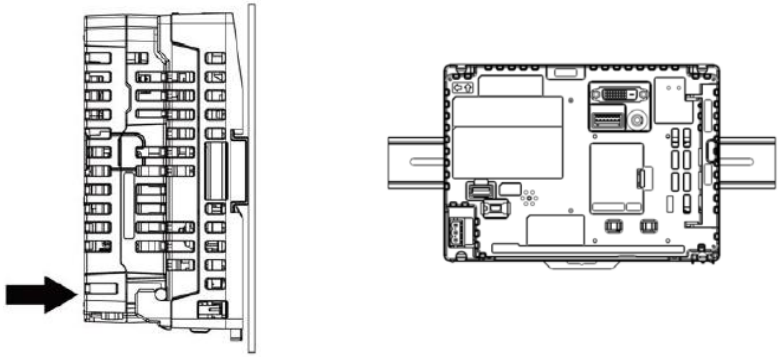
You can install GP6000 Series DIN Mount Type directly to the DIN rail without any option item.

SP5000 Multi-Converter (PFXSP5B10 + PFXZCDADEXP1)

Hook the grooves at the rear of this product onto the DIN rail.

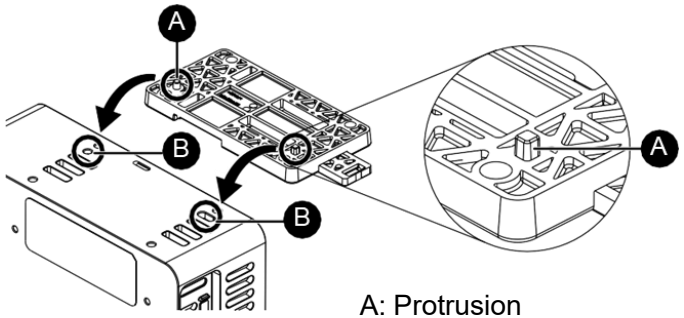


Push the bottom part onto the rail until you hear a click.

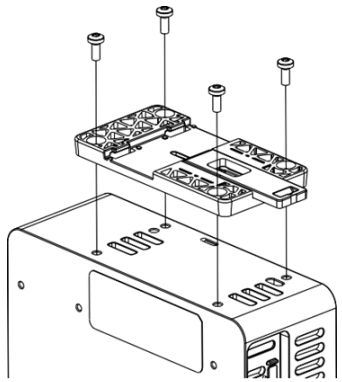


GP6000 Series DIN Mount Type (PFXGP6B40DI)

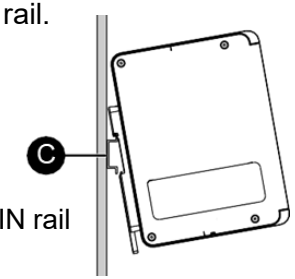
1. With its backside facing up, place the product on a clean, flat, level surface.
2. Attach the DIN rail attachment included in the package to the product. Insert the two protrusions of the DIN rail attachment into the holes on the back of the product. Then, tighten with the four M4 screws included. The necessary torque is 0.7 N•m.



A: Protrusion
B: Holes

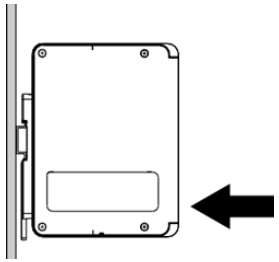


3. Hook the top groove of the DIN rail attachment to the top part of the DIN rail.



C: DIN rail

4. Push the bottom part onto the rail until you hear a click.



NOTE:

- Use the rail compatible with IEC 60715 TH35-7.5 for this product.
- In environments where this product will experience vibration and shock, it is recommended to secure this product to the DIN rail with commercially available DIN rail end stoppers after installation.
- Please check GP6000 Series Advanced Model Hardware Guide for installation requirements and procedure.

2-5. Option Compatibility – Serial Interface

Product Name	Product Number (Pro-face CR)		Description	Compatibility
	PFXSP5B10 + PFXZCDADEXP1	PFXGP6B40DI		
RS-232C 9-pin/25-pin Conversion Cable (0.2m)	PFXZC3CBCVR21 (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)	PFXZCBCBCVR41		Cable for converting a D-Sub 9-pin plug to a D-Sub 25-pin socket	✔
COM Port Conversion Adapter	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	-	PFXZC3ADR41	Connects output from a serial interface with an RS-422 terminal block.	**NEW**
RS-232C Isolation Unit	PFXZC3ADISR21 (CA3-ISO232-01)		Connects a host controller to this product and provides isolation (RS-232C and RS-422 are switchable).	✔

NOTE:
- For host controllers and connection cables, refer to the corresponding device driver manual of your screen editing software.
- Products may be changed or discontinued without notice. Please check our website for the latest information.

2-5. Option Compatibility – USB (Type-A) Interface

Product Name	Product Number (Pro-face CR)		Description	Compatibility
	PFXSP5B10 + PFXZCDADEXP1	PFXGP6B40DI		
USB Transfer Cable (2m) *1	PFXZC3CBUSA1 (CA3-USBCB-01)	-	Cable for transferring screen data between a PC (USB Type-A) and this product (USB Type-A)	No *USB A to A screen transfer is not supported.
USB Cable (5m)	PFXZC0CBUS1 (FP-US00)	-	Connects a USB printer (Type-B)	*2
USB Front Cable (1m)	PFXZC5CBUBEX1 (CA5-USBEXT-01)		Extension cable that attaches USB interface (Type-A) to front panel	✔
USB-Serial (RS-232C) Conversion Cable (0.5m)	PFXZC6CBCVUSR21 (CA6-USB232-01)	-	Cable for converting a USB interface into a serial interface (RS-232C)	*2
USB/RS-422/485 Conversion Adapter	PFXZCBCBCVUSR41	-	Adapter for connecting this product (USB Type-A) to an external device (RS-422/RS-485)	*2
EZ Illuminated Switch	PFXZCCEUSG1	-	A unit of 5 illuminated switches with multiple color LED easily connected with this product unit via USB	*2
EZ Fingerprint Recognition Unit	PFXZCCEUSS1	-	Fingerprint recognition unit connected to this product via USB *End of sale	No due to end of sale
EZ Numpad	PFXZCCEUKB1	-	Numpad connected to this product via USB *End of sale	
EZ Tower Light tube mounting with fixing plate	PFXZCETWHA1	-	USB Connection Type Monolithic EZ Tower Light tube mounting with fixing plate 3 tiers, Ø60, lighting and flashing with a buzzer	*2
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	*2

*1 You can connect using just one of the available USB (Type-A/mini-B) interfaces.
*2 They are not supported by GP-Pro EX yet (Schedule: TBD)
NOTE: Products may be changed or discontinued without notice. Please check our website for the latest information.

2-5. Option Compatibility – USB (mini-B) / USB (micro-B) / SD Card Interface

Product Name	Product Number (Pro-face CR)		Description	Compatibility
	PFXSP5B10 + PFXZCDADEXP1	PFXGP6B40DI		
USB Transfer Cable (USB Type A/mini-B) (1.8 m) *1	PFXZC9USCBMB1 (ZC9USCBMB1)	-	Cable for transferring screen data from a PC (USB Type-A) to the GP unit (USB mini-B).	No
USB Panel-mount Extension Cable (USB mini-B) (1 m)	PFXZC9USEXMB1 (ZC9USEXMB1)	-	Extension cable that attaches to the USB (mini-B) interface on the front side of the operation panel.	No
USB Clamp mini-B (1 port)	PFXZC9USCLMB1 (ZC9USCLMB1)	-	Clamp to prevent disconnection of USB cable (USB/mini-B, 1 port, 5 clamps/set)	No
USB Transfer Cable	-	PFXZUSCBMB2	Cable for transferring screen data from a PC (USB Type-A) to this product (USB micro-B)	**NEW**
USB (micro-B) Front Cable	-	PFXZCIEXMB2	Extension cable that attaches USB interface (micro-B) to front panel	**NEW**

Product Name	Product Number (Pro-face CR)		Description	Compatibility
	PFXSP5B10 + PFXZCDADEXP1	PFXGP6B40DI		
SD Memory Card	PFXZCBSD4GC41		SD memory card (4 GB), SDHC	✔
SD Memory Card	-	PFXZCSD16GC101	SD memory card (16 GB, pSLC), SDHC	**NEW**
SD Memory Card	-	PFXZCSD32GC101	SD memory card (32 GB, pSLC), SDHC	**NEW**
SD Memory Card	-	PFXYP6SD64GCX	SD memory card (64 GB), SDXC	**NEW**

*1 You can connect using just one of the available USB (Type-A/mini-B) interfaces.
NOTE: Products may be changed or discontinued without notice. Please check our website for the latest information.

2-5. Option Compatibility – Expansion Unit Interface

Product Name	Product Number (Pro-face CR)		Description	Compatibility
	PFXSP5B10 + PFXZCDADEXP1	PFXGP6B40DI		
PROFIBUS DP Slave/MPI Unit	PFXZCDEUPF1	-	Expansion unit that enables participation of this product in the PROFIBUS network and communication with the PROFIBUS DP master or in the MPI network (communication speed: 12 Mbps).	No
Flex Network Master Unit	PFXZCHEUFN1	-	Expansion unit that enables participation of this product in the Flex network.	No
CANopen Master Unit	PFXZCHEUCAM1	-	Expansion unit that enables participation of this product in the CANopen network and communication with the CANopen slave.	No
CANopen Slave Unit	PFXZCDEUCA1	-	Expansion unit that enables participation of this product in the CANopen network and communication with the CANopen master.	No
J1939 Unit	PFXZCHEUJ1	-	Expansion unit that enables participation in the J1939 communication network.	No
Serial Interface Expansion Unit*1	-	PFXZHMUSIO1	Module for expanding the serial interface to this product. RS-232C/422/485 x 1 (D-Sub 9 pin plug), RS-485 isolation x 1 (D-Sub 9 pin socket).	**NEW**
Ethernet Interface Expansion Unit*1	-	PFXZHETH1	Module for expanding the Ethernet interface. Switching hub, 4-port.	**NEW**
AUX Interface Expansion Unit*1	-	PFXZHMUAUX1	AUX interface module. AUX connector (1 piece) is included.	**NEW**
Backup Memory Expansion Unit*1	-	PFXZHMUEM1	Module for adding up to 2 MB of backup memory.	**NEW**

*1 For details about the expansion units, refer to Expansion Unit Hardware Guide.
NOTE: Products may be changed or discontinued without notice. Please check our website for the latest information.

2-5. Option Compatibility – Others

Product Name	Product Number (Pro-face CR)		Description	Compatibility
	PFXSP5B10 + PFXZCDADEXP1	PFXGP6B40DI		
DC Power Supply Adapter for Box Module	PFXZCDADEXP1	-	DIN rail mount 24 Vdc power supply adapter that attaches to the side of Box Module when Box Module and Display Module are located separately.	No
Battery for Memory Backup	PFXZCBBT1	*1	Primary battery for time data backup (1 piece)	No

*1 The battery can be replaced for GP6000, but it is not available as a maintenance option. Please use the BR2032 (manufactured by Panasonic Corporation) battery as a replacement.
NOTE: Products may be changed or discontinued without notice. Please check our website for the latest information.

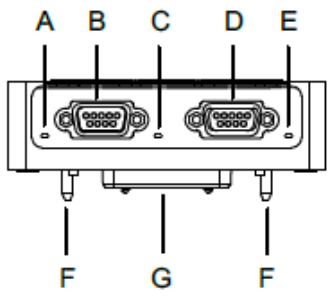
2-5. Option Compatibility – Maintenance Options

Product Name	Product Number (Pro-face CR)		Description	Compatibility
	PFXSP5B10 + PFXZCDADEXP1	PFXGP6B40DI		
USB Clamp Type-A (1 port)	PFXZCBCLUSA1		Clamp to prevent disconnection of USB cable (USB/A, 1 port, 5 clamps/set)	✔
DC Power Supply Connector	PFXZCBCNDC1		Connector to connect DC power supply cables (Straight type, 5pcs/set)	No
DC Power Connector	-	PFXZC7CNACL1	Connector with fixable screws to connect DC power supply cables (Straight type, 5 pieces/set).	**NEW**
SD Memory Card (1GB) for System Card	PFXZCDSD1GC61	-	SD memory card (1 GB, SLC) for System Card	No
AUX Connector	PFXZCDCNAUX1		AUX connector required in case an external output is used (5 pieces/set).	✔

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

2-5. Option – Serial Interface Expansion Unit (P/N: PFXZHMUSIO1)

Add COM ports by installing this unit to the main unit (GP6000 Series Advanced Model).



A. Status LED (STA)
B. Expansion serial interface (E-COM1)
C. E-COM1 LED
D. Expansion serial interface (E-COM2)
E. E-COM2 LED
F. Installation pins
G. Expansion unit interface

Expansion Serial Interface (E-COM)

Serial interface (E-COM1)	
Connector	D-Sub 9 pin (plug)
Asynchronous transmission	RS-232C/RS-422/RS-485
Data length	7 / 8 bits
Stop bit	1 / 2 bits
Parity	None, odd, or even
Data transmission speed	2,400...115,200 bps
Serial interface (E-COM2)	
Connector	D-Sub 9 pin (socket)
Asynchronous transmission	Isolated RS-485
Data length	7 / 8 bits
Stop bit	1 / 2 bits
Parity	None, odd, or even
Data transmission speed	2,400...115,200 bps, 187,500 bps (MPI*)

**MPI will be supported by future version of GP-Pro EX. Please contact your local representative for the latest information.*

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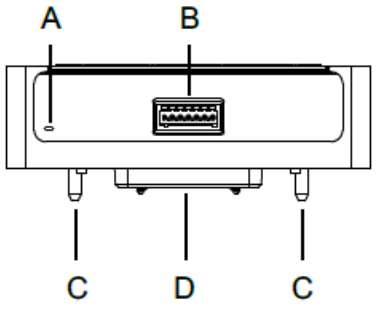
2-5. Option – AUX Interface Expansion Unit (P/N: PFXZHMUAUX1)

Add an AUX port to output sound, buzzer and alarm by installing this unit to the main unit (GP6000 Series Advanced Model).



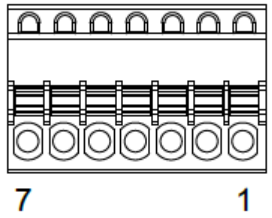
A. Status LED (STA)
B. Auxiliary output / Speaker output interface (E-AUX)
C. Installation pins
D. Expansion unit interface

Expansion AUX Interface (E-AUX)

Sound output	Speaker output	300 mW or more (Rated load: 8 Ω, Frequency: 1 kHz)
	LINE output	1.4 Vp-p (Rated load: 10 kΩ)
	Connector	2-piece terminal block (AUX) x 1
AUX output	AUX output	Alarm output/Buzzer output x 1
	Rated voltage	24 Vdc
	Rated current	50 mA
	Connector	2-piece terminal block (AUX) x 1

AUX connector

Model number: PFXZCDCNAUX1



Pin No.	Signal name	Direction	Meaning
1	LineOut	Output	Line out
2	LineOut_GND	Output	Line out ground
3	SP+	Output	Speaker+
4	SP-	Output	Speaker-
5	NC	–	No connection
6	ALARM+/BUZZER+	Output	(Can be changed via software)
7	ALARM-/BUZZER-	Output	

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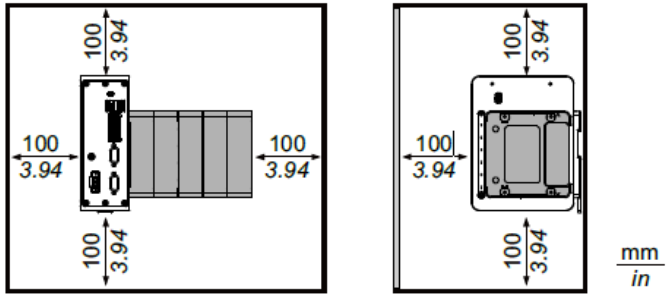
2-5. Option – Installation Method for Expansion Unit

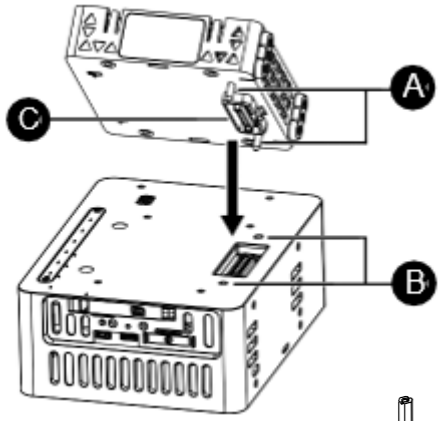
Up to five expansion units can be attached to GP6000 Series Advanced Model (DIN Mount Type).

Installation Method for Expansion Unit

The expansion units are designed to be attached to a main unit, GP6000 Advanced Model.
*Except for the backup memory expansion unit, only one unit of each type can be connected to the main unit.

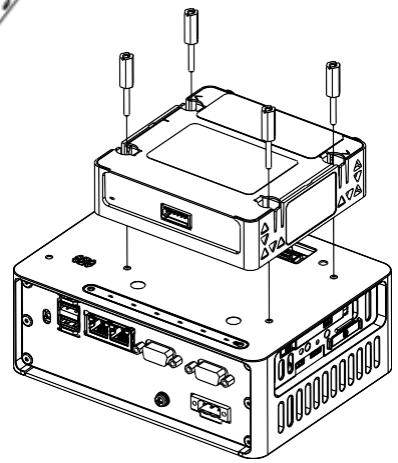
For easier maintenance, operation and improved ventilation, install the equipment at least 100 mm (3.94 in) away from adjacent structures and other devices as shown in the following illustration:





1/ Peel off the label on the rear of the main unit.

2/ Connect the expansion unit interface to the connector on the main unit. Place the expansion unit so that you can pass the installation pins through the holes.
A: Installation pins
B: Holes
C: Expansion unit interface



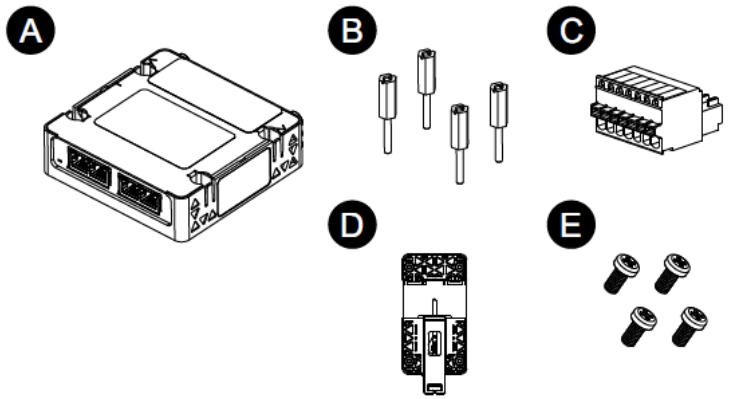
3/ Affix it to the main unit using the screws (4 pieces) included with the expansion unit. Tighten the screws with a hexagonal box screwdriver. The necessary torque is 0.5 N•m (4.4 lb-in).

NOTE: A hexagonal box screwdriver with a 7 mm (0.27 in) width across flats of the hexagonal head and a 10 mm (0.39 in) outer diameter is recommended.

NOTE: Refer to Expansion Unit Hardware Guide for installation requirements and procedure.

2-5. Option – Installation Method for Expansion Unit

Package Contents



A. Expansion unit x 1

B. Installation screw x 4

C. AUX connector x1 (AUX interface expansion unit only)

D. DIN rail attachment*1 x 1

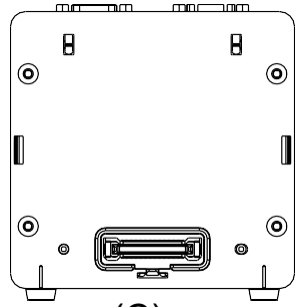
E. M4 screw*1 (length: 10 mm) x 4

*1 Use only when installing three or more expansion units on a DIN rail.

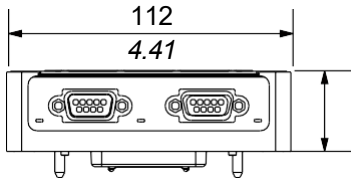
External Dimensions

All the types of optional expansion interface units have the same external dimensions (not including protrusions).

NOTE: The figures below show the serial interface expansion unit.

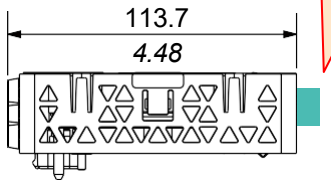


(C)

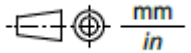


(A)

A. Front
B. Left
C. Bottom



(B)



Regarding AUX expansion unit, the dimension will be slightly longer when connecting the AUX connector.

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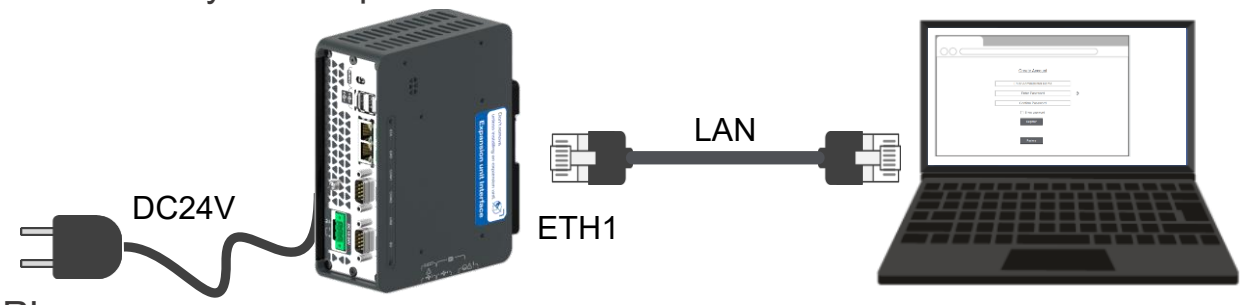
2-6. First Hardware Setup for GP6000 DIN Mount Type – 1 of 2 pages

1) Attach an Ethernet cable to the LAN port (ETH1) of this product and connect your computer.
To connect the computer to the same network as the product,
change the computer's IP address and subnet mask as follows.
IP address: 192.168.1.*** (any address other than 192.168.1.80)
Subnet Mask: 255.255.255.0



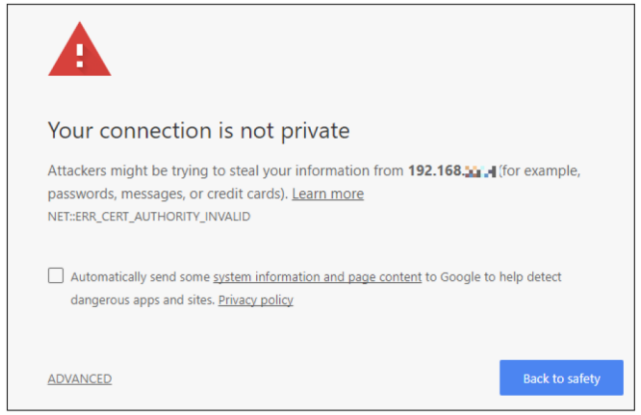
2) Power on the product.

3) Open a web browser on the computer, then enter the following URL.
https://192.168.1.80:8443/

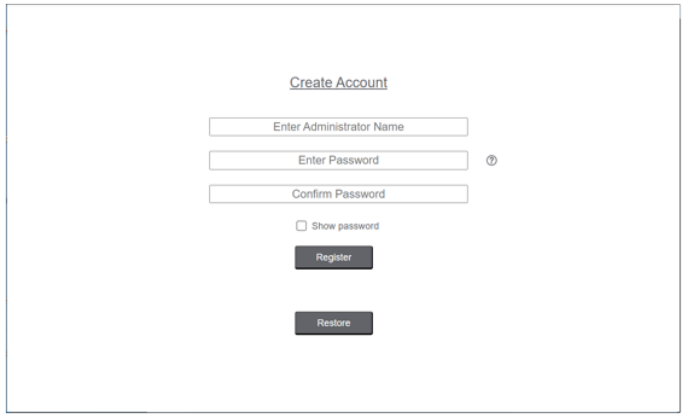
4) When the connection is established, the HMI device send a certificate
to use for the encryption. Since the certificate is not signed from a Certificate Authority you will get a warning message.
Click on ADVANCED options and choose to proceed.

5) The **Create Account** screen is displayed. Create an administrator user account for the **System Settings**. Enter the username and password, then click the **Register** button.

4)



5)



NOTE:
- Passwords should be at least 8 characters long and include at least one uppercase letter, one lowercase letter, one number, and one special character.
- You can change the password at any time.
- Depending on the system settings version, the “Not Use Password” option and the “Skip” button may be available. Although the product can be operated without a password, we strongly recommend using one for security reasons.

2-6. First Hardware Setup for GP6000 DIN Mount Type – 2 of 2 pages

6) The **Login** screen is displayed. Enter the username and the password set earlier, then click the **Login** button.

7) The **System Settings** menu is displayed. Select **System > Date and Time** to set the clock, and then click the **Save** button.

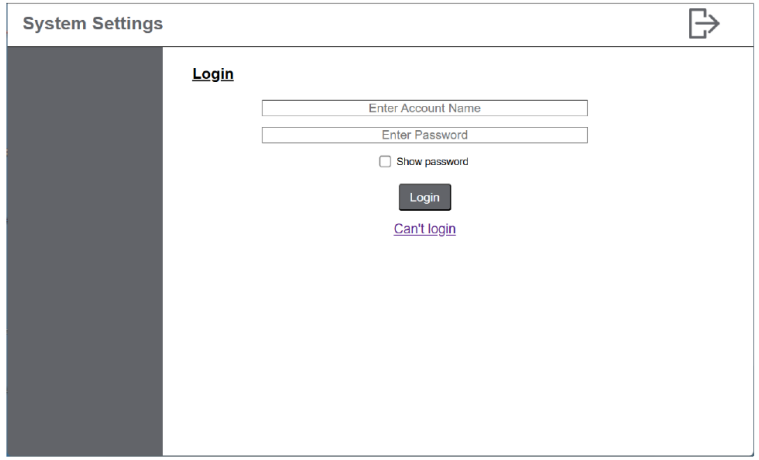
8) From the menu, select **Ethernet**. Change the network settings as required and click the **Save** button.

9) Change other settings as required. For information on system settings functions, refer to GP6000 Series Advanced Model User Guide.

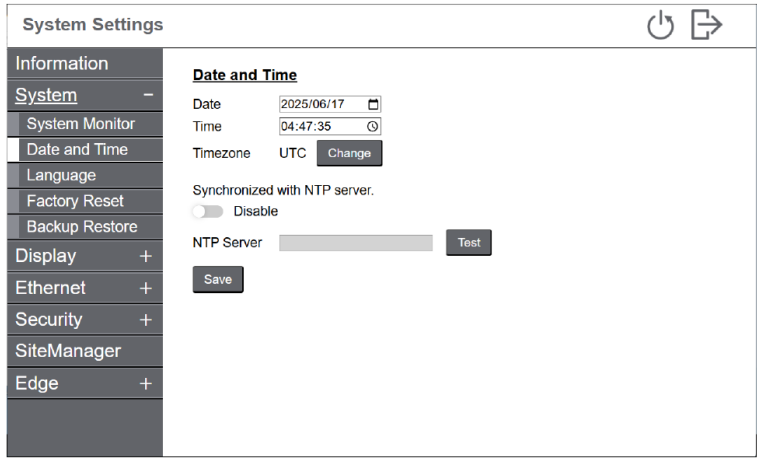
10) Click the logout icon at the top right of the screen.

11) Transfer the project file from the screen editing software. For information on how to transfer, refer to 3-1. Replacement Procedure – Transfer screen data to recommended substitute unit (GP-Pro EX).

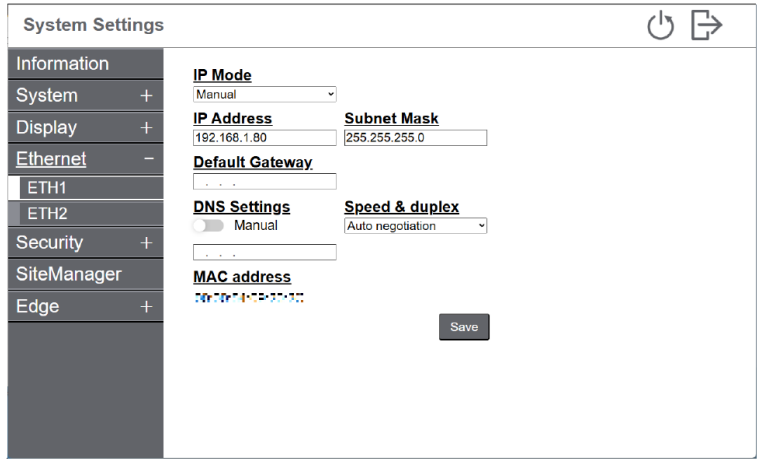
6)



7)



8)



2-7. Other Important Notes on Hardware

- About Serial Interface
  - The Serial Interface specifications (such as pin assignment and the shape of plug/socket) of GP6000 are different from PFXSP5B10. For the details, please refer to GP6000 Series Advanced Model User Guide.
  - The RS-232C device that was connected via COM1 on PFXSP5B10 will be connected via COM1 on GP6000. (The same cable connection can be used.)
  - The RS-422/485 device that was connected via COM1 on PFXSP5B10 will be connected via COM2 on GP6000. (The same cable connection can be used.) Before GP6000 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 both COM1 and COM2 are configured to connect to either RS-232C devices or RS-422/485 devices on the PFXSP5B10, we recommend using the Serial Interface Expansion Unit (P/N: PFXZHMUSIO1) as an optional accessory. For more information about the expansion unit, please refer to Expansion Unit Hardware Guide.

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2-7. Other Important Notes on Hardware

- Do not expose the hardware to direct sunlight.
- 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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3. Software Section

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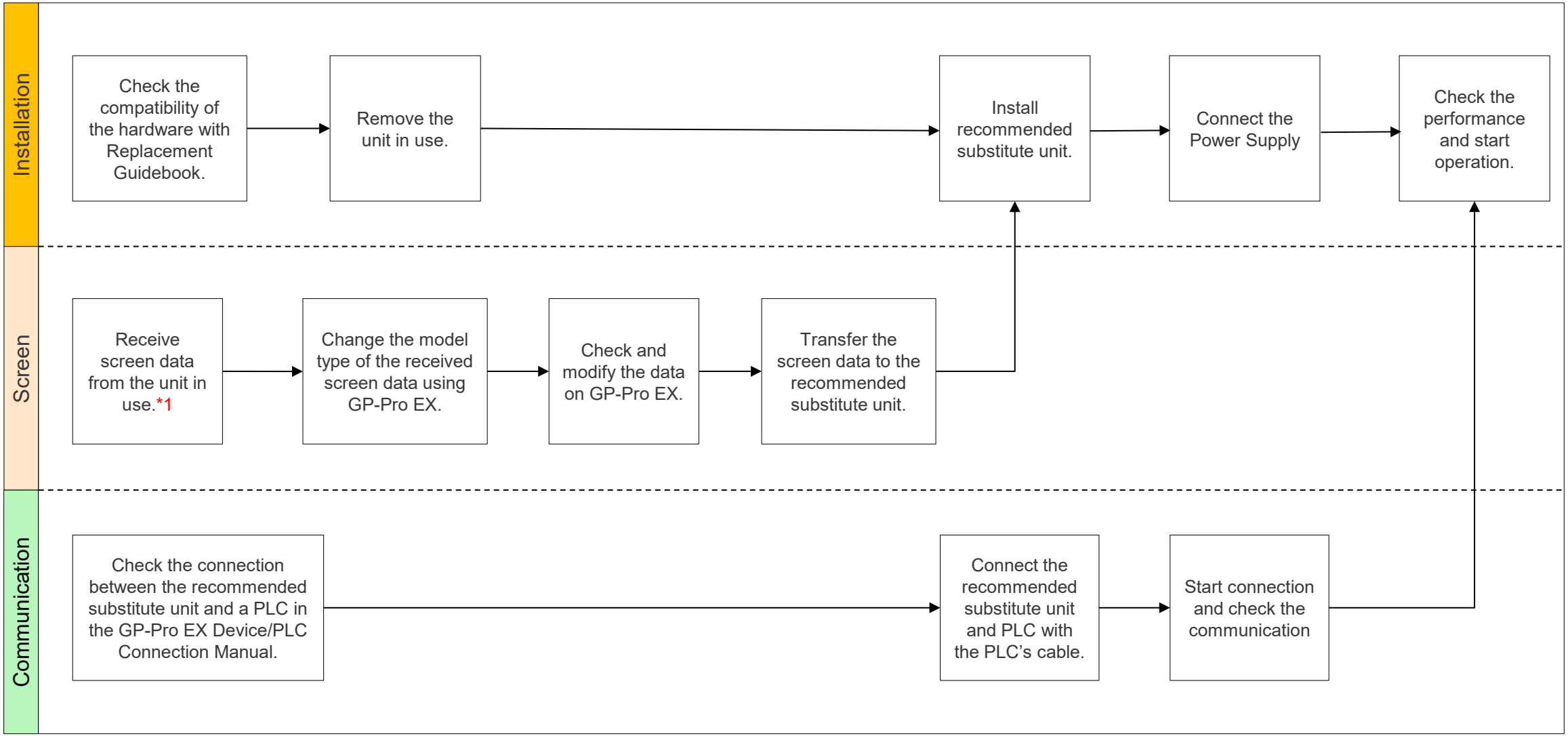
3-1. Replacement Procedure – Workflow



*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 USB transfer cable: ZC9USCBMB1 (Type-A – Type mini-B) or commercial type *It's also possible to send/receive a screen via SD card, USB storage device or Ethernet.
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 GP6000 Series Advanced models supported version: V5.01.000 or later Expansion units (option) supported version: V5.02.000 or later NOTE: If you are using GP-Pro EX V4.x or an earlier version, a separate purchase of a V5.x software license is required.
	Transfer Cable (the followings can be used) USB transfer cable: PFXZUSCBMB2 (Type-A – Type micro-B) or commercial type *It's also possible to send/receive a screen via 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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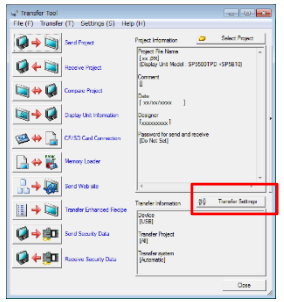
3-1. Replacement Procedure – Receive screen data from the model in use (GP-Pro EX)

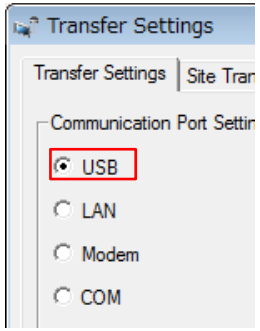
In this section, we will introduce how to receive screen data with a USB transfer cable as an example. If you have the backup of screen data, this step is not necessary. Please go to the next section.

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.

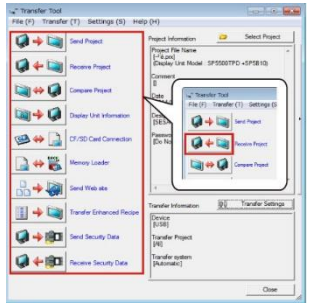
2. Start the Transfer Tool of GP-Pro EX.



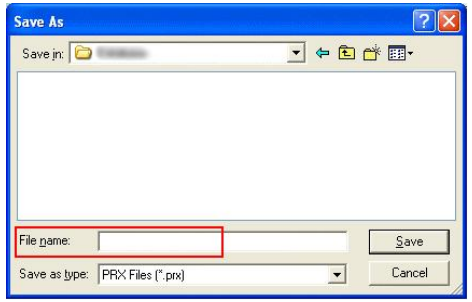
3. Make sure that the [Device] in the “Transfer Settings Information” is set to [USB]. If not, click the [Transfer Setting] button to open the “Transfer Setting” dialog box. Select [USB] in the Communication Port Settings field and click [OK].



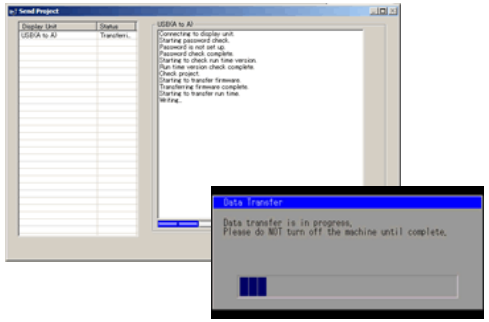
4. Start GP-Pro EX Transfer Tool and click the [Receive Project] button.



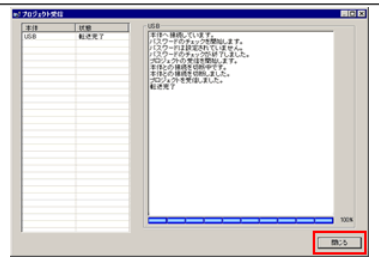
5. Click [Receive Project], and the following dialog box will appear. Specify a place to save the received data in and a project file name, and then click [Save] to start transfer.



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.

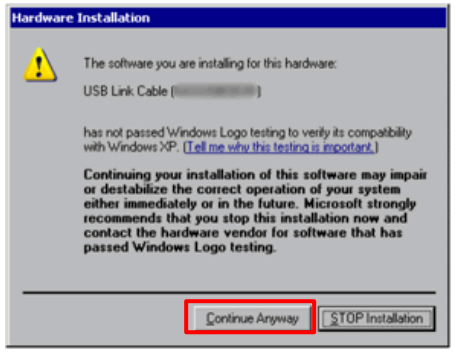


8. Close the Transfer Tool.

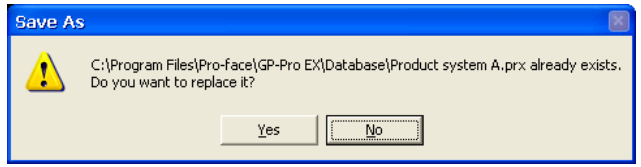
3-1. Replacement Procedure – Receive screen data from the model in use (GP-Pro EX)

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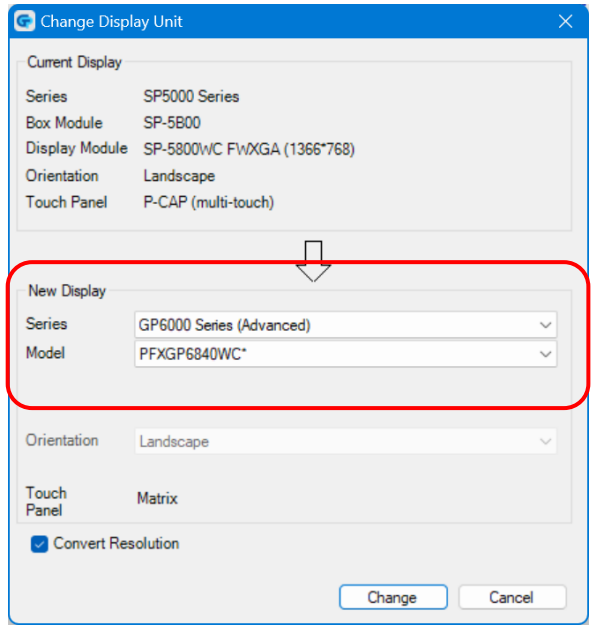
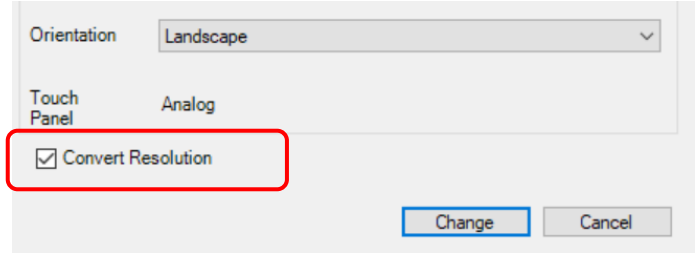
3-1. Replacement Procedure – Change model to recommended substitute unit (GP-Pro EX)

(example)



Change the Display unit from SP5000 Series to GP6000 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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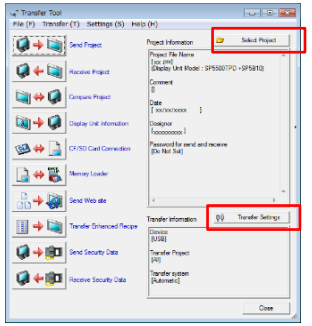
3-1. Replacement Procedure – Transfer screen data to recommended substitute unit (GP-Pro EX)

In this section, we will introduce how to transfer screen data via Ethernet (LAN) as an example.

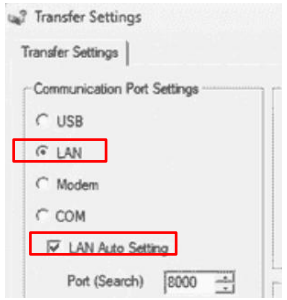
1. Connect the LAN cable to the display unit to establish the network with the PC installed with GP-Pro EX. (Set up the same network IP address on your PC.)

2. On the GP-Pro EX status bar, click the [Transfer Project] icon and launch the Transfer Tool. Confirm the project details in [Project Information]. To transfer a different project, click the [Select Project] button and choose the appropriate project.

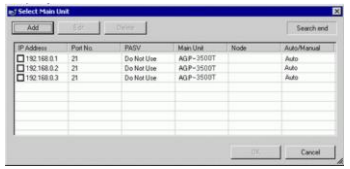
   Click [Transfer Setting] to display the [Transfer Tool] dialog box.



3. Click Ensure that [Communication Port Settings] is set to [LAN]. Select the [LAN Auto Setting] check box and click [OK].



4. Click [Send Project].
   The [Select Main Unit] dialog box displays the IP addresses of the main units available on the network.

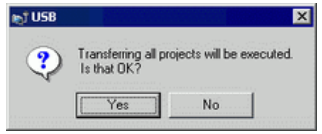


5. Select the IP address of the main unit to which you want to transfer and click [OK].

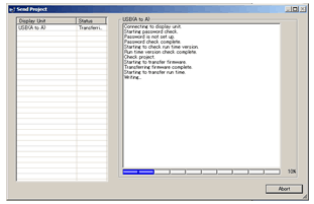
6. Set the connection key and click [OK].

   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).

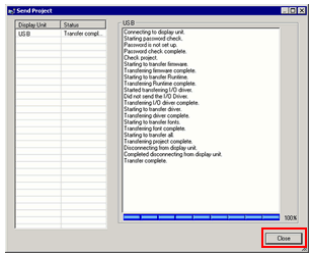
7. When the following dialog box appears, click [Yes].



8. 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.)



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



3-2. Software Compatibility – GP-Pro EX Supported Features

There are some differences in supported features between SP5000 Series and GP6000 Series.

For details on supported features, please refer to the 1.5 Supported Features section in GP-Pro EX Reference Manual.

1.5.1 GP6000 Series

1.5.3 SP5000 Series

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3-2. Software Compatibility – Supported Software

Supported Software	SP5000 Series Power Box SP-5B10	GP6000 DIN Mount Type PFXGP6B40DI	Compatibility of Project Data
GP-Pro EX	✔	✔ Ver. 5.01.000 or later	✔
	https://www.pro-face.com/otasuke/files/manual/gpproex/new/refer/gpproex.htm		
Pro-Server EX	✔	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)	✔	✔	✔
	https://www.pro-face.com/otasuke/qa/remotehmi/faq.html		
Pro-face Remote HMI Client for Win	✔	✔	✔
	https://www.proface.com/en/product/soft/remotehmi_client/download		
Pro-face Connect	✔	✔	✔
	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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