

STM6000 Series Handheld Display Module

User Guide

STM64TPH-MM01-EN_00
09/2023

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The information provided in this document contains general descriptions, technical characteristics and/or recommendations related to products/solutions.

This document is not intended as a substitute for a detailed study or operational and site-specific development or schematic plan. It is not to be used for determining suitability or reliability of the products/solutions for specific user applications. It is the duty of any such user to perform or have any professional expert of its choice (integrator, specifier or the like) perform the appropriate and comprehensive risk analysis, evaluation and testing of the products/solutions with respect to the relevant specific application or use thereof.

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As part of a group of responsible, inclusive companies, we are updating our communications that contain non-inclusive terminology. Until we complete this process, however, our content may still contain standardized industry terms that may be deemed inappropriate by our customers.

Table of Contents

Safety Information	4
About This Manual.....	5
Document Scope	5
Validity Note	5
Registered Trademarks	5
Related Documents	5
Product Related Information	5
Overview	9
Model Numbers	9
Package Contents	9
Certifications and Standards	10
Device Connectivity	11
System Design	11
Accessories.....	11
Parts Identification and Functions	13
Parts Identification	13
LED Indications	14
Specifications.....	15
General Specifications	15
Electrical Specifications	15
Environmental Specifications	15
Structural Specifications	16
Functional Specifications.....	17
Display Specifications.....	17
Touch Panel.....	17
Interface Specifications	17
Switch Specifications.....	17
Interface Connection	18
Emergency Stop Switch.....	19
Enable Switch	20
Dimensions	21
External Dimensions	21
Rear Module Installation Adapter External Dimensions	22
Cable Dimensions.....	22
Installing and Wiring	23
Installation.....	23
Installation Requirements for Rear Module.....	23
Installation Procedure.....	24
Removal Procedure.....	25
Attaching the Hand Strap	27
Hanging on the Wall	28
Maintenance	30
Regular Cleaning	30
Periodic Check Points	30
Replacing the Backlight.....	31

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.

WARNING

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

CAUTION

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

Document Scope

This manual describes how to use this product.

Validity Note

This documentation is valid for this product.

Registered Trademarks

Microsoft® and Windows® are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Product names used in this manual may be the registered trademarks owned by the respective proprietors.

Related Documents

You can download the manuals related to this product, such as the STM6000 Series Hardware Manual and the software manual, from our website.

<https://www.pro-face.com/trans/en/manual/1085.html>

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.

This product is used in combination with the STM6000 series rear module (sold separately).

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. This product is designed to use 24 Vdc. Always check whether your device is DC powered before applying power.

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.

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.

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. The machine's 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 mistakes in the control of the machine.

▲ 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. Do not touch the screen when the backlight is no longer functioning.

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.

▲ 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.
- Follow all applicable safety standard and local regulations and directives.

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

▲ WARNING

UNINTENDED EQUIPMENT OPERATION

- 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.

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

▲ WARNING

UNINTENDED EQUIPMENT OPERATION

Do not step on or pull the cable.

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

▲ CAUTION

RISK OF INJURY, EQUIPMENT DAMAGE

- Do not trip over the cable.
- Always use the hand strap during operation to avoid dropping the product.

Failure to follow these instructions can result in 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.

Overview

What's in This Chapter

Model Numbers.....9
 Package Contents.....9
 Certifications and Standards10

Model Numbers

Model List

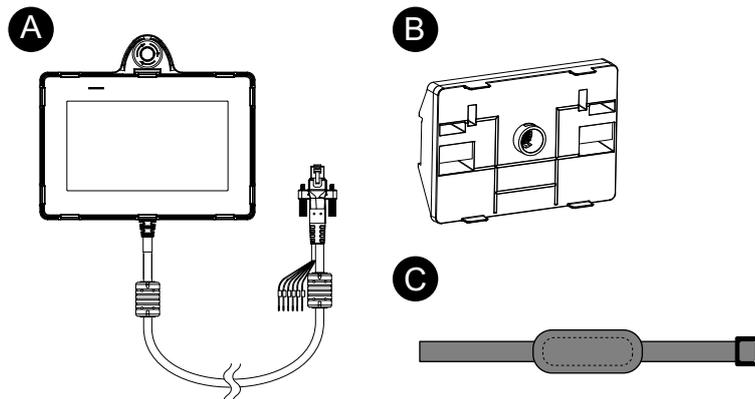
Model name	Model number	Description
Handheld display module	PFXSTM64TPH5	Handheld type display module with 5 m cable
	PFXSTM64TPH10	Handheld type display module with 10 m cable

Package Contents

Verify all items listed here are present in your package.

Please contact customer support immediately if you find anything damaged or missing.

⚠ WARNING
UNINTENDED EQUIPMENT OPERATION
Do not use damaged products or accessories.
Failure to follow these instructions can result in death, serious injury, or equipment damage.



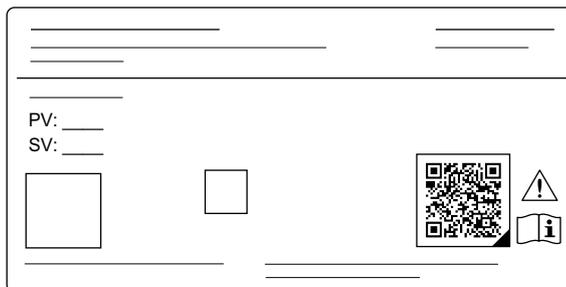
- A. Handheld display module (with cable*1) x 1
- B. Rear module installation adapter x 1
- C. Hand strap x 1
- D. Instruction sheet x 1
- E. Warning/Caution information x 1

*1 Cable is non-removable

NOTE: Use this product in combination with the STM6000 series rear module (sold separately). The rear module (PFXSTM6BE01) is not included in this package, and must be prepared separately.

Product Revision

You can identify the product version (PV) and the software version (SV) from the product label.



Certifications and Standards

The certifications and standards listed below may include those that are not yet acquired. Please check the product marking for the latest acquisition status.

Compliance Standards

Europe:

CE

- Directive 2014/30/EU (EMC: EN 61131-2)

Hazardous Substances

This product is designed to be compliant with the following environmental regulations, even if the product may not fall directly in the scope of the regulation:

- RoHS, Directive 2011/65/EU and 2015/863/EU
- RoHS China, Standard GB/T 26572
- REACH regulation EC 1907/2006

End of Life (WEEE)

The product contains electronic boards. It must be disposed of in specific treatment channels. The product contains cells and/or storage batteries which must be collected and processed separately when they have run out and at the end of product life (Directive 2012/19/EU).

Refer to [Maintenance](#), page 30 when extracting cells and batteries from the product. These batteries do not contain a weight percentage of heavy metals over the threshold notified by European Directive 2006/66/EC.

Device Connectivity

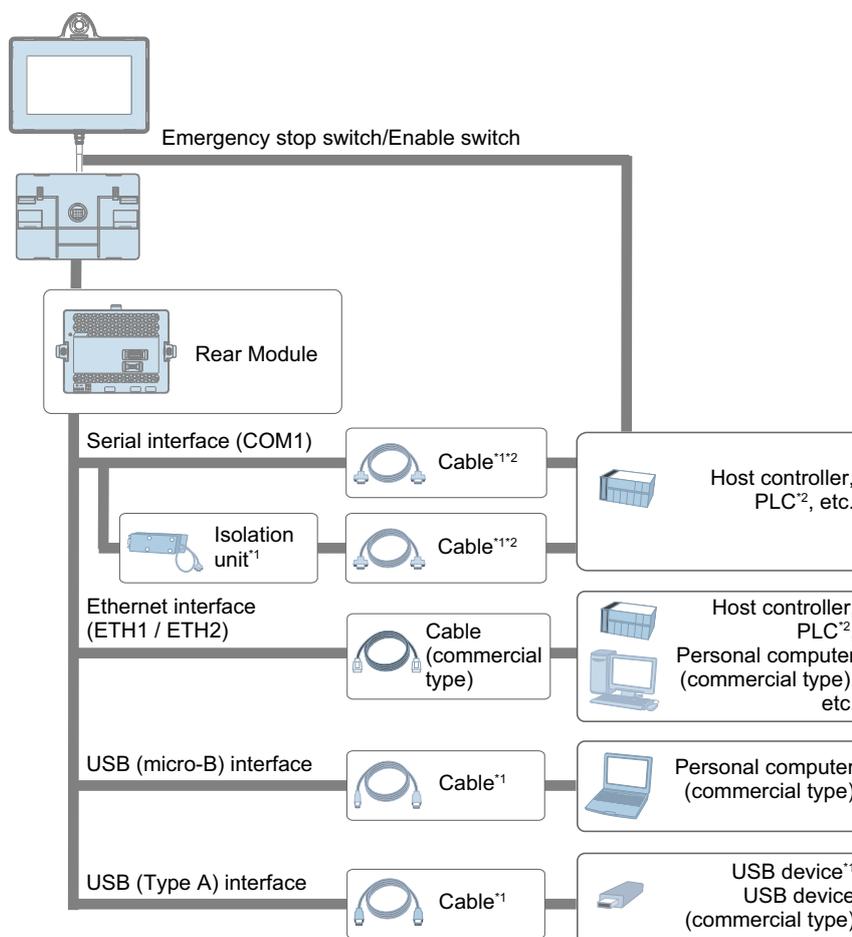
What's in This Chapter

System Design..... 11
 Accessories 11

System Design

This section describes the system configuration with this product and peripheral equipment.

NOTE: Use this product in combination with the STM6000 series rear module (sold separately).



*1 For peripheral equipment that can be connected to the interface on the rear module, refer to the "Accessories" topic in the STM6000 Series Hardware Manual.

*2 For information on how to connect controllers and other types of equipment, refer to the corresponding device driver manual of your screen editing software.

Accessories

This section introduces optional items that are sold separately.

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

<https://www.pro-face.com>

NOTE: For the peripheral equipment that you can connect to the interface of the rear module, refer to the "Accessories" topic in the STM6000 Series Hardware Manual.

Product name	Product number	Description
Rear Module	PFXSTM6BE01	Rear module for PFXSTM6200WADE/ PFXSTM6400WADE
Screen Protection Sheet with UV Protected	PFXZCIDS72	Disposable, dirt-resistant and ultraviolet protection sheet for 7-inch Wide screen (1 sheet/set).

Maintenance Accessories

This section lists replacement parts.

Product name	Product number	Description
Rear Module Installation Adapter	PFXZCM6DSA	Adapter for installing the rear module on a DIN rail.

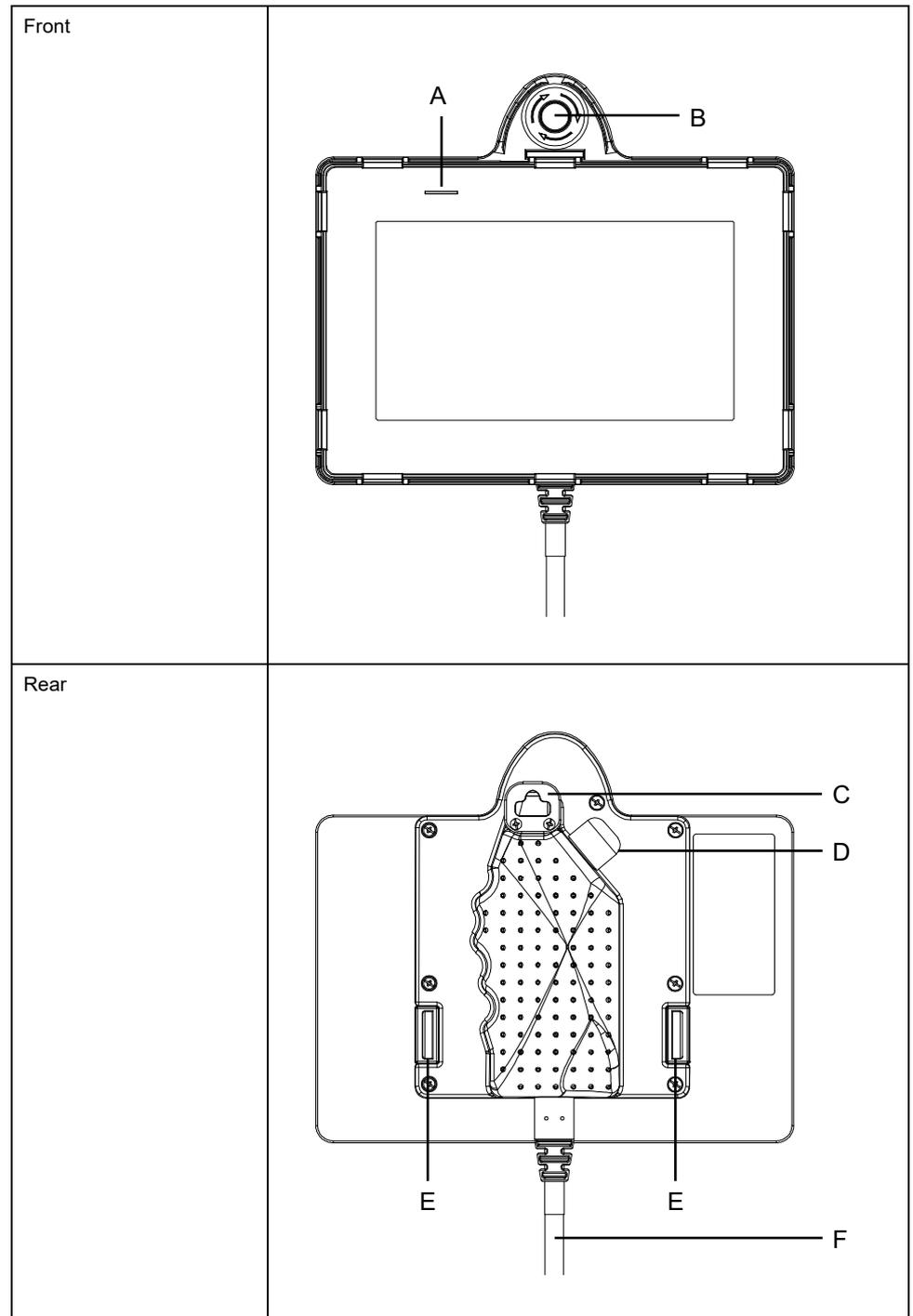
Parts Identification and Functions

What's in This Chapter

Parts Identification.....	13
LED Indications.....	14

Parts Identification

Parts Identification



- A. Status LED
- B. Emergency stop switch

- C. Hook
- D. Enable switch
- E. Strap attachment latch
- F. Cable

LED Indications

Status LED

After power is turned on, normal status indication by the LED is: red light > flashing orange > green light.

Color	Indicator	HMI operation
Green	ON	In operation
Orange	Flashing	Software starting up
Red	ON	Power is ON.
-	OFF	Power is OFF.

NOTE: The LED light remains green even if the product's backlight is off (Standby Mode).

For other LED indications, refer to the manual of your screen editing software.

Specifications

What's in This Chapter

General Specifications.....	15
Functional Specifications	17
Interface Specifications.....	17

General Specifications

Electrical Specifications

Specification		PFXSTM64TPH5	PFXSTM64TPH10
Rated input voltage		24 Vdc	
Power consumption	Max	3.6 W	
	When screen turns off the backlight (standby mode)	1.3 W	

NOTE:

- Use this product in combination with the STM6000 series rear module (sold separately). For the electrical specifications of the rear module, please refer to the STM6000 Series Hardware Manual.
- The power consumption for the combined unit of the rear module and the display module equals the sum of power consumption of the two modules.

Environmental Specifications

Use and store this product in areas that conform to the specified conditions.

NOTE: When using any of the options for this product, check the specifications for special conditions or cautions that may apply to this product.

Physical environment	
Ambient air temperature	0...50 °C (32...122 °F) (For rear module only: 0...60 °C [32...140 °F])
Storage temperature	-20...60 °C (-4...140 °F)
Ambient air and storage humidity	10...90% RH (non-condensing, wet bulb temperature 39 °C [102.2 °F] or less)
Dust	0.1 mg/m ³ (10 ⁻⁷ oz/ft ³) or less (non-conductive levels)
Pollution degree	For use in Pollution Degree 2 environment
Corrosive gases	Free of corrosive gases
Atmospheric pressure (operating altitude)	800...1,114 hPa (2,000 m [6,561 ft] or lower)
Mechanical environment	
Vibration resistance	IEC/EN 61131-2 compliant 5...9 Hz Single amplitude 3.5 mm (0.14 in) 9...150 Hz Fixed acceleration: 9.8 m/s ² X, Y, Z directions for 10 cycles (approximately 100 minutes)
Shock resistance	IEC/EN 61131-2 compliant 147 m/s ² , X, Y, Z directions for 3 times
Drop resistance	Free fall 1.2 m (3.94 ft)
Electrical environment	

Electrical fast transient/burst immunity	IEC 61000-4-4 2 kV: Power port 1 kV: Signal ports
Electrostatic discharge immunity	Contact discharge method: 6 kV Air discharge method: 8 kV (IEC/EN 61000-4-2 Level 3)

⚠ CAUTION
<p>INOPERATIVE EQUIPMENT</p> <ul style="list-style-type: none"> Do not operate or store the product where chemicals evaporate, or where chemicals are present in the air. Chemicals refer to the following: A) Corrosive chemicals: Acids, alkalines, liquids containing salt, B) Flammable chemicals: Organic solvents. Do not allow water, liquids, metal, and wiring fragments to enter the panel case. <p>Failure to follow these instructions can result in injury or equipment damage.</p>

Structural Specifications

	PFXSTM64TPH5	PFXSTM64TPH10
Cooling method	Natural air circulation	
Structure	IP20	
External dimensions (W x H x D)	207 x 179 x 92 mm (8.15 x 7.05 x 3.62 in) (excluding the cable)	
Weight	2.3 kg (5.07 lb) or less (including the cable)	2.7 kg (5.95 lb) or less (including the cable)

NOTE: Use this product in combination with the STM6000 series rear module (sold separately). Before installing the rear module and connecting this product, confirm the conditions that will be present in the operating environment of both the modules. For structural specifications of the rear module, please refer to the STM6000 Series Hardware Manual.

NOTICE
<p>EQUIPMENT DAMAGE</p> <ul style="list-style-type: none"> Do not press on the display of this product with excessive force or with a hard object. Do not press on the touch panel with a pointed object, such as the tip of a mechanical pencil or a screwdriver. Do not expose the device to direct sunlight. Store this product in areas where temperatures are within the product's specifications. <p>Failure to follow these instructions can result in equipment damage.</p>

Functional Specifications

Display Specifications

Display type	TFT Color LCD
Display size	7" wide
Resolution	800 x 480 pixels (WVGA)
Effective display area (W x H)	154.08 x 85.92 mm (6.07 x 3.38 in)
Display colors	16 million colors For details about display colors, refer to the manual of your screen editing software.
Backlight	White LED (Not replaceable.)
Backlight service life	50,000 hours or more (continuous operation at 25 °C [77 °F] before backlight brightness decreases to 25%)
Brightness control	16 levels (Adjusted with touch panel or software)

Touch Panel

Touch panel type	Resistive film (analog)
Touch points	Single touch
Touch panel resolution	1,024 x 1,024
Touch panel service life	1 million times or more

The touch panel does not support multi-touch (two-point touch / multiple-point touch). If you touch multiple points on the touch panel, it may operate as if you touched the center-point of the multiple touches. For example, if you touch two or more points on the touch panel and at the center of the touches is a switch for a drive system, even though you did not directly touch that switch, it may function as if you did.

▲WARNING
UNINTENDED EQUIPMENT OPERATION
Do not touch two or more points on the touch panel.
Failure to follow these instructions can result in death, serious injury, or equipment damage.

Interface Specifications

Switch Specifications

Emergency stop switch	Contacts	b-contact (normally closed): 2
	Rated operational voltage	30 Vdc
	Rated operating current	1 A Minimum applicable load: 5 Vdc, 5 mA (reference value)
	Contact resistance	50 mΩ or less (initial value)
	Applicable standards	IEC/EN 60947-5-1, 60947-5-5

	Mechanical life*1	250,000 operations or more
	Electrical life*1	100,000 operations or more (rating operating voltage-current) 250,000 operations (24 Vdc, 100 mA)
	B10d*1	100,000 operations (EN ISO 13849-1 Annex C Table C.1)
Enable switch	Contacts	a-contact (normally open): 1 3-position switch
	Rated operational voltage	30 Vdc
	Rated operating current	0.7 A Minimum applicable load: 5 Vdc, 5 mA (reference value)
	Contact resistance	50 mΩ or less (initial value)
	Applicable standards	IEC/EN 60947-5-8, IEC/EN 60947-5-1, IEC/EN 60204-1
	Mechanical life*2	Position 1 → 2 → 1: 1,000,000 operations or more Position 1 → 2 → 3 → 1: 100,000 operations or more
	Electrical life*2	100,000 operations or more

*1 Operation frequency: 900 operations/hour.

*2 Operation frequency: 1,200 operations/hour (rating operating voltage-current).
The actual number of operations varies based upon environment, duty cycle and load.

Interface Connection

Wiring for Each Switch

⚠ DANGER

SHORT CIRCUIT, FIRE HAZARD

- Remove all power from the device prior to wiring or removal.
- Isolate all unused wires.

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

⚠ WARNING

UNINTENDED EQUIPMENT OPERATION

Do not make any mistakes in wiring the device.

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

Size of conductor: AWG 24 (cross sectional area: 0.2 mm²)

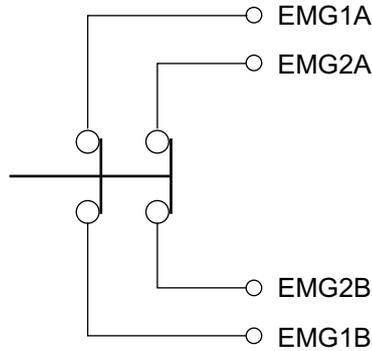
Wire color	Signal name	Description
Grey	EMG1A	Emergency stop switch output signal, b-contact (normally closed) Rating: 30 Vdc, 1 A
Blue	EMG1B	Emergency stop switch output signal, b-contact (normally closed)
Yellow	EMG2A	Emergency stop switch output signal, b-contact (normally closed) Rating: 30 Vdc, 1 A

Wire color	Signal name	Description
Purple	EMG2B	Emergency stop switch output signal, b-contact (normally closed)
Pink	ENB1A	Enable switch output signal, a-contact (normally open) Rating: 30 Vdc, 0.7 A
Black/White	ENB1B	Enable switch output signal, a-contact (normally open)

Emergency Stop Switch

Pressing this switch stops (locks) the operation of the connected device. To unlock, pull this switch toward you or turn it in the direction of the arrow.

Signal name	Lock	Unlock
EMG1	0 (OFF)	1 (ON)
EMG2	0 (OFF)	1 (ON)



▲ WARNING

UNINTENDED EQUIPMENT OPERATION

- The suitability of using the emergency stop switch should be determined by a risk assessment of the system.
- Before operating this product on the actual system, as well as periodically, check its operation (proof test).
- Perform testing under controlled conditions. For example, when testing the emergency stop switch, the operator must be outside the working range of the moving machine.
- Unlock after confirming safety.

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

NOTICE

EQUIPMENT DAMAGE

Do not expose the switch to excessive shock or vibration.

Failure to follow these instructions can result in equipment damage.

Enable Switch

3 position enabling switch. Operate the connected device only when this switch is in the middle position.

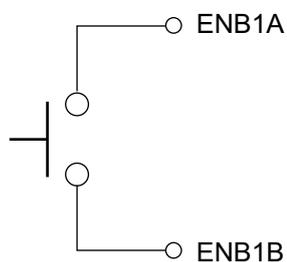
The switch is ON when the switch is lightly pressed (position 2).

The switch is OFF when the switch is not pressed (position 1) or when the switch is fully depressed (position 3).

Signal name	Position 1	Position 2	Position 3
ENB1	0 (OFF)	1 (ON)	0 (OFF)

NOTE:

- When returning to position 1 from position 3, the contacts remain OFF.
- Do not use tape, strings, or other method to keep the enable switch in position 2 all the time.



NOTICE

EQUIPMENT DAMAGE

- Do not expose the switch to excessive shock or vibration.
- Do not apply an operating force over 250 N to the enable switch.

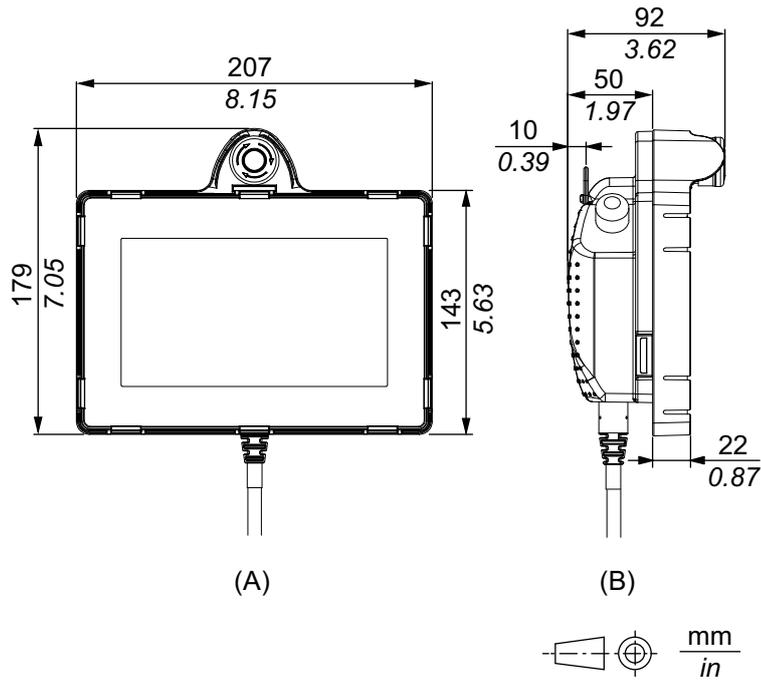
Failure to follow these instructions can result in equipment damage.

Dimensions

What's in This Chapter

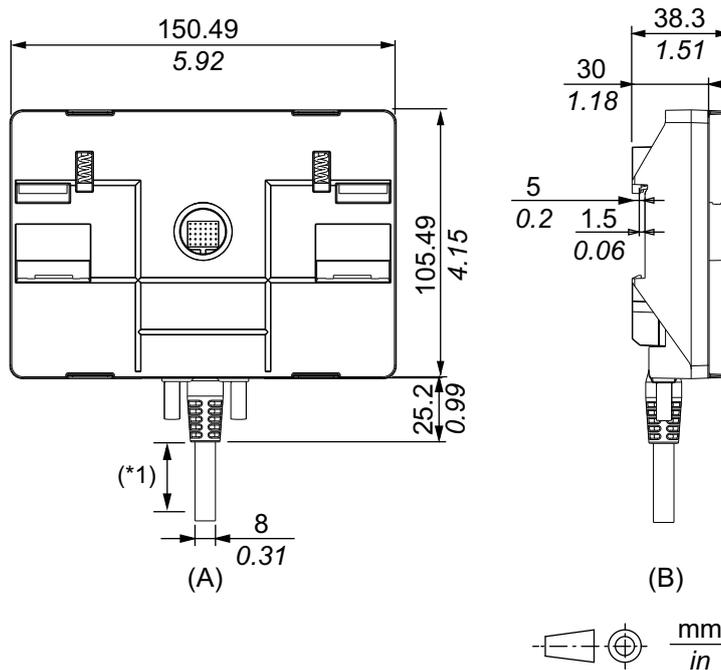
External Dimensions.....21
 Rear Module Installation Adapter External Dimensions22
 Cable Dimensions22

External Dimensions



- A. Front
- B. Left

Rear Module Installation Adapter External Dimensions

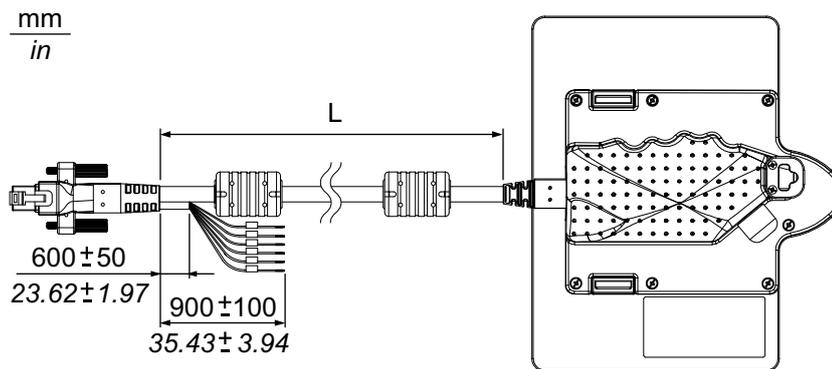


- A. Front
- B. Right

*1 To assemble this product, you need 20 mm (0.78 in) or more space to bend the rubber portion at the end of the cable.

NOTE: For the external dimensions with the rear module installed, refer to the STM6000 Series Hardware Manual.

Cable Dimensions



PFXSTM64TPH5: L = 5000 ± 100 mm (196.85 ± 3.94 in)

PFXSTM64TPH10: L = 10000 ± 100 mm (393.70 ± 3.94 in)

Installing and Wiring

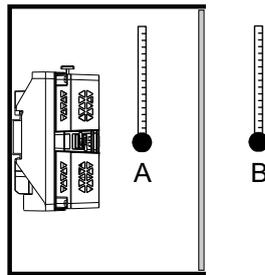
What's in This Chapter

Installation23

Installation

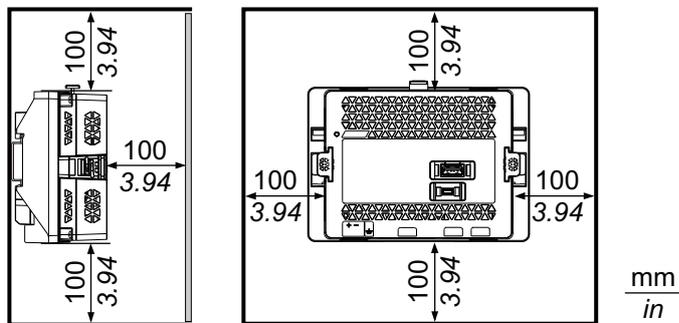
Installation Requirements for Rear Module

- Check that the installation wall or cabinet surface is flat, in good condition and has no jagged edges. Metal reinforcing strips may be attached to the inside of the wall, near the installation location, to increase its rigidity.
- Depending on wall's material, size, and installation location of the rear module and other devices, the installation wall could warp. To prevent warping, the installation surface may need to be strengthened.
- Check that the ambient air temperature and the ambient humidity are within their specified ranges in *Environmental Specifications*. When installing the rear module in a cabinet or enclosure, the ambient air temperature is the cabinet's or enclosure's internal and external temperature.



- A. Internal temperature
- B. External temperature

- Be sure that heat from surrounding equipment does not cause the rear module to exceed its standard operating temperature.
- For easier maintenance, operation and improved ventilation, install the rear module at least 100 mm (3.94 in) away from adjacent structures and other equipment as shown in the following illustration:



- The panel must be designed to avoid any induced vibration resonance on the rear module exceeding an amplitude factor of 10 and to avoid any induced permanent vibration resonance.

Installation Procedure

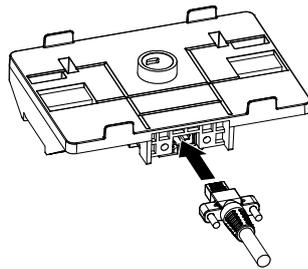
⚡ ⚠ DANGER

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.
- Before connecting this product, unplug the power cable from both the rear module and the power supply.
- 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 the rear module.
- Use only the specified voltage when operating this product. This product is designed to use 24 Vdc. Always check whether the rear module is DC powered before applying power.

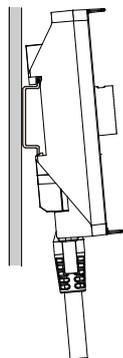
Failure to follow these instructions will result in death or serious injury.

1. Connect the cable of this product to the rear module installation adapter. Affix the screws on both sides of the cable connector to secure the cable to the adapter.

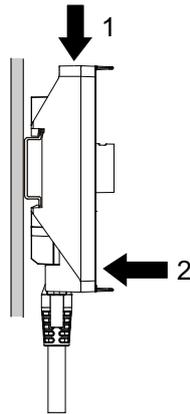


2. Position the top groove of the rear module installation adapter on the top edge of the DIN rail.

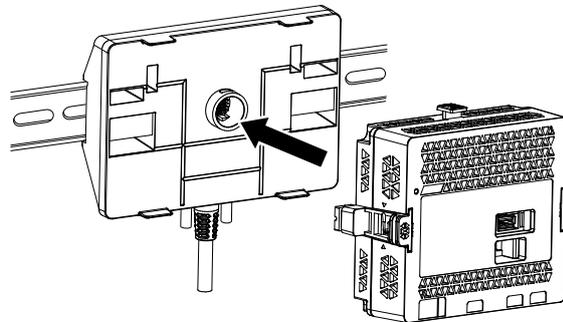
NOTE: Install the adapter on a DIN rail compatible with IEC 60715 TH35-7.5.



3. Push down on the adapter until the bottom groove of the installation adapter fits under the DIN rail.



4. Insert and push the rear module (sold separately) straight in to the adapter, until they lock into place.



Removal Procedure

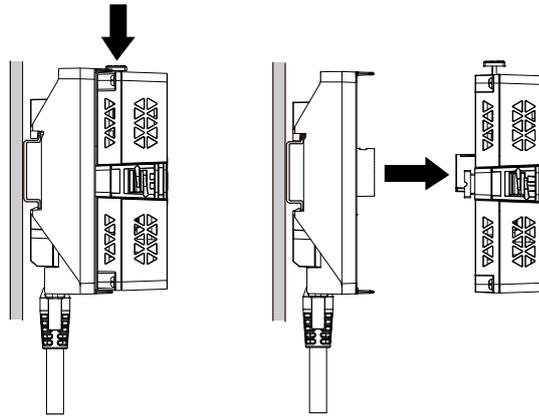
⚡ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

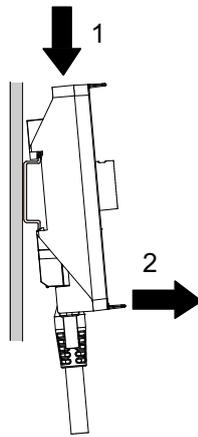
- Remove all power from the device before removing any covers or elements of the system, and prior to installing or removing any accessories, hardware, or cables.
- Unplug the power cable from both the rear module and the power supply prior to removing the rear module.
- Always use a properly rated voltage sensing device to confirm power is off where and when indicated.

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

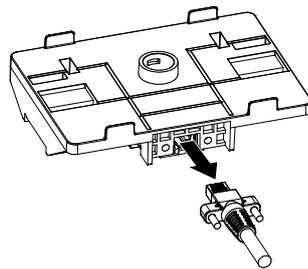
1. Push and hold the button at the top of the rear module, and pull the rear module straight out.



2. Push down on the rear module installation adapter and unhook the bottom part of the adapter from the DIN rail.



3. Loosen the screws on both sides of the cable connector and remove the cable.



Attaching the Hand Strap

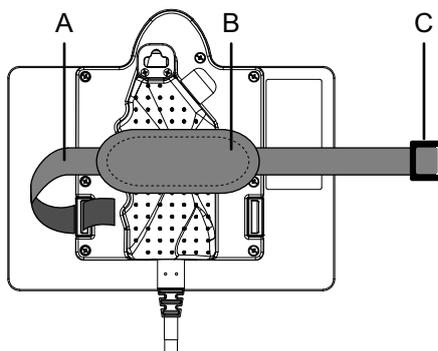
⚠ CAUTION

RISK OF INJURY, EQUIPMENT DAMAGE

- Always use the hand strap during operation.
- Do not drop the product.

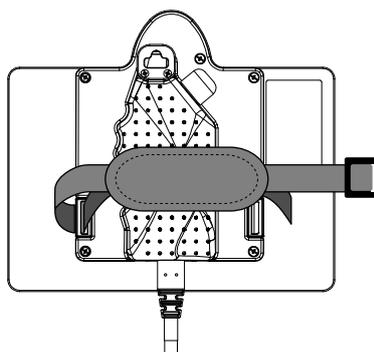
Failure to follow these instructions can result in injury or equipment damage.

1. Place this product on a flat, level surface, with the display face pointing down.
2. Thread the end of the band (the side that does not have the adjuster) through a strap attachment latch on the product.

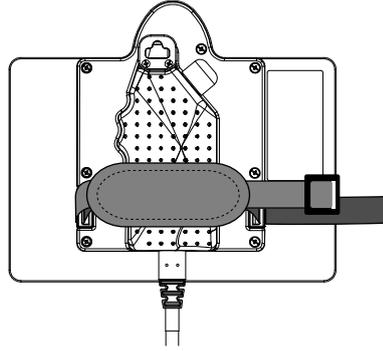


- A. Band
- B. Pad
- C. Adjuster

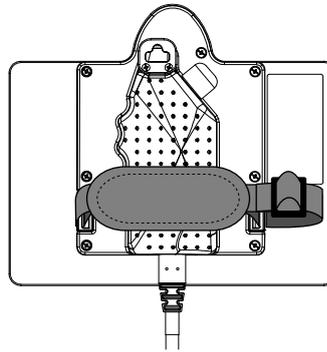
3. Thread the band through the pad.



4. Thread the band through the other strap attachment latch.



5. Thread the band through the adjuster.



Adjust the length of the band to fit the operator's arm.

Hanging on the Wall

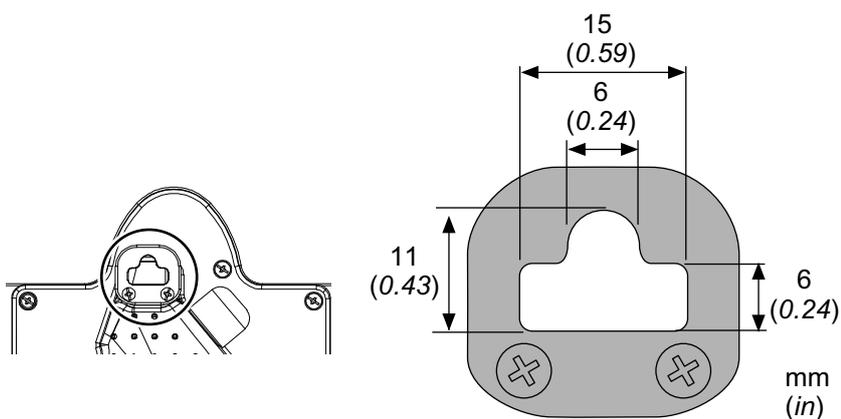
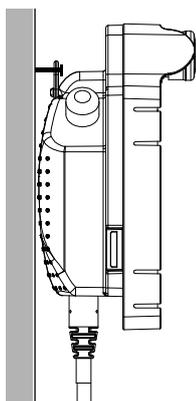
When the product is not in use, it can be hung on the wall.

▲ CAUTION

RISK OF INJURY, EQUIPMENT DAMAGE

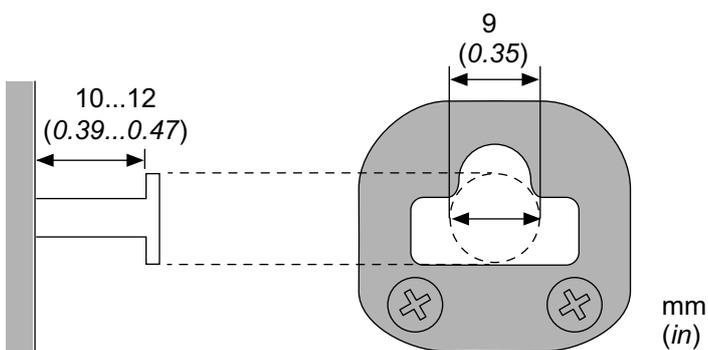
- Do not operate or wire the product while it is hung on the wall.
- Confirm the wall and wall hanging bracket are strong enough (thickness of the wall, material, and so on) to withstand the weight of this product.

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



The wall and wall hanging bracket must be able to withstand loads of 20 kg (44.1 lb) or more.

Example: Using a stainless steel screw



Screw thickness: 3...6 mm (0.12...0.23 in)

Screw head diameter: 8...10 mm (0.31...0.39 in)

NOTE: These dimensions are intended for reference only. Check the material and strength of the wall hanging bracket (screws, bolts, and so on) that will be used and the wall on which it will be installed.

Maintenance

What's in This Chapter

Regular Cleaning	30
Periodic Check Points.....	30
Replacing the Backlight	31

Regular Cleaning

Cleaning the Product

NOTICE

EQUIPMENT DAMAGE

- Power off this product before cleaning it.
- Do not use hard or pointed objects to operate the touch panel.
- Do not use paint thinner, organic solvents, or a strong acid compound to clean the unit.

Failure to follow these instructions can result in equipment damage.

When this product gets dirty, wipe this product with a soft, dry cloth or a soft cloth soaked in only water and wrung tightly.

NOTE: When the product is very dirty, soak the soft cloth in water with a neutral detergent, wring the cloth tightly and wipe the product while avoiding the product label.

Periodic Check Points

Operation Environment

- Is the ambient air temperature within the allowable range? Refer to Environmental Specifications, page 15.
- Is the ambient air humidity within the specified range? Refer to Environmental Specifications, page 15.

When this product is inside a panel, the ambient environment refers to the interior of the panel.

Electrical Specifications

- Is the input voltage appropriate? Refer to Electrical Specifications, page 15.
- Are all power cords and cables connected properly? Are there any loose cables?

Unit Disposal

When disposing this product, dispose it in a manner appropriate to, and in accordance with, your country's industrial machinery disposal/recycling standards.

Replacing the Backlight

Not replaceable.

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As standards, specifications, and design change from time to time,
please ask for confirmation of the information given in this publication.

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