

# PFXSTM6400WAD

Standard product information

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## Standard product information

<b>Family</b>	HMI
<b>Series</b>	STM6000 Series
<b>Size</b>	7" Wide
<b>Model</b>	PFXSTM6400WAD
<b>Global Code</b>	PFXSTM6400WAD
<b>Product Features</b>	Modular 7" DC Analog
<b>Repair Status</b>	- (Maintenance service is not available. Replace with a new unit under warranty.)

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.










### EQUIPMENT DAMAGE

- Store this product in areas where temperatures are within the product's specifications.
  - Do not restrict or block the product's ventilation slots.
- Failure to follow these instructions can result in equipment damage.

## Display specifications

<b>Display type</b>	TFT Color LCD
<b>Display size</b>	7" Wide
<b>Resolution</b>	800 x 480 pixels (WVGA)
<b>Effective display area</b>	W154.08 x H85.92 mm [W6.066 x H3.382 in.]
<b>Display colors</b>	16 million colors
<b>Backlight</b>	White LED (Not user replaceable. When replacement is required, contact your local distributor.)
<b>Backlight service life</b>	50,000 hrs. or more (each in continuous operation at 25 °C [77 °F] before backlight brightness decreases to 25%)
<b>Brightness control</b>	16 Levels (Adjusted with touch panel or software)
<b>Touch panel type</b>	Resistive Film (analog, single-touch)
<b>Touch panel resolution</b>	1,024 x 1,024
<b>Touch panel lifetime</b>	1,000,000 times or more

Electrical specifications	R
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Environmental specifications	
<b>International safety standards</b>	        
<b>Surrounding air temperature</b>	0 to 50 °C [32 to 122 °F]
<b>Storage temperature</b>	-20 to +60 °C [-4 to 140 °F]
<b>Ambient humidity</b>	10 to 90 % RH (Wet bulb temperature: 39 °C [102.2 °F] max. - no condensation)
<b>Storage humidity</b>	10 to 90 % RH (Wet bulb temperature: 39 °C [102.2 °F] max. - no condensation)
<b>Dust</b>	0.1 mg/m <sup>3</sup> (10 <sup>-7</sup> oz/ft <sup>3</sup> ) or less (non-conductive levels)
<b>Pollution degree</b>	For use in Pollution Degree 2 environment
<b>Corrosive gases</b>	Free of corrosive gases
<b>Air pressure (altitude range)</b>	800 to 1,114 hPa (2,000 m [6,561 ft.] above sea level or less)
<b>Vibration resistance</b>	IEC/EN 61131-2 compliant 5 to 9 Hz single amplitude 3.5 mm [0.14 in.] 9 to 150 Hz fixed acceleration: 9.8 m/s <sup>2</sup> X, Y, Z directions for 10 cycles (approx. 100 min.)
<b>Concussion resistance</b>	IEC/EN 61131-2 compliant 147 m/s <sup>2</sup> , X, Y, Z directions for 3 times
<b>Electrical fast transient/burst</b>	IEC 61000-4-4 2 kV: Power port (display unit) 1 kV: Signal ports
<b>Electrostatic discharge immunity</b>	Contact Discharge Method: 6 kV Air Discharge Method: 8 kV (IEC/EN61000-4-2 Level 3)

Memory	
<b>Application memory</b>	<p><b>When using BLUE:</b>FLASH EPROM 128MB</p> <p><b>Removable System:</b> No</p>
<b>Local storage</b>	467MB
<b>Backup memory</b>	<p><b>When using BLUE:</b>NVRAM 500KB</p> <p><b>Battery:</b> Unreplaceable battery by the customer/ Primary battery for clock data backup</p>

Interface specifications
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<b>Serial (COM1)</b>	Asynchronous Transmission: RS-232C / 422 / 485, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: None, Even or Odd, Data Transmission Speed: 2,400 to 115,200 bps, Connector: D-Sub 9 pin (socket)
<b>USB (Type A)</b>	Conforms to USB 2.0 (Type A) x 1 Power supply voltage: 5 Vdc $\pm$ 5 % Output Current: 500 mA or less Communication distance: 5 m [16.4 ft.] or less
<b>USB (micro-B)</b>	USB 2.0 (micro-B) x 1, Communication Distance: 5 m [16.4 ft]
<b>Ethernet</b>	IEEE802.3i / IEEE802.3u, 10BASE-T / 100BASE-TX, Connector: Modular jack (RJ-45) x 2

Structural specifications

<b>Grounding</b>	Functional grounding: Grounding resistance of 100 $\Omega$ , 2mm <sup>2</sup> (AWG 14) or thicker wire, or your country's applicable standard. (Same for FG and SG terminals)
<b>Cooling method</b>	Natural air circulation
<b>Structure</b>	Rear Module: IP20 Display Module: IP65F, UL 50/50E, Type 1, Type 4X (indoor use only), Type 12, Type 13 <sup>*1</sup>
<b>External dimensions</b>	Rear Module: W145.6 x H108.23 x D 41.4 mm [W5.73 x H4.26 x D1.63 in] (excluding protrusions) Display Module: W201.2 x H137.2 x D17.1 mm [W7.92 x H5.4 x D0.67 in] (excluding protrusions)
<b>Panel cut-out dimensions</b>	Diameter 22.5 mm (0.88 in)
<b>Weight</b>	Rear Module: 0.27 kg (0.6 lb) or less Display Module: 0.49 kg (1.08 lb) or less

\*1 The front face of the unit, installed in a solid panel, has been tested using conditions equivalent to the standards shown in the specification. Even though the unit's level of resistance is equivalent to these standards, oils that should have no effect on the unit can possibly harm the unit. This can occur in areas where either vaporized oils are present, or where low viscosity cutting oils are allowed to adhere to the unit for long periods of time. If the unit's front face protection sheet becomes peeled off, these conditions can lead to the ingress of oil into the unit and separate protection measures are suggested. Also, if non-approved oils are present, it may cause deformation or corrosion of the front panel's plastic cover. Therefore, prior to installing the unit, be sure to confirm the type of conditions that will be present in the unit's operating environment. If the installation gasket is used for a long period of time, or if the unit and its gasket are removed from the panel, the original level of the protection cannot be guaranteed. To maintain the original protection level, be sure to replace the installation gasket regularly.

Dimensions

<b>External dimensions</b>	
<b>Panel cut-out dimensions</b>	

22.5 mm (+0/-0.3 mm) (0.88 in [+0/-0.01 in])	4.0 mm (+0/-0.2 mm) (0.15 in [+0/-0.007 in])	30.0 mm (+0/-0.2 mm) (1.18 in [+0/-0.007 in])
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Panel material	Thickness range (D)
Steel	1.5... 6.0 mm (0.06... 0.23 in)
Glass fiber reinforced plastics (minimum GF30)	3.0... 6.0 mm (0.12... 0.23 in)