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ST6000 Series

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PFXST6400WAD

Standard product information
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Standard product information

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Dimensions

Family	нмі
Series	ST6000 Series
Size	7" Wide
Model	PFXST6400WAD

 Model
 PFXST6400WAD

 Global Code
 PFXST6400WAD

 Product Features
 7" DC Analog

Repair Status ✓ (Maintenance service is available, able to be maintained.)

Display specifications

Display type	TFT Color LCD
Display size	7" Wide
Resolution	800 x 480 pixels (WVGA)
Effective display area	W154.08 x H85.92 mm [W6.066 x H3.382 in.]
Display colors	16 million colors
Backlight	White LED (Not user replaceable. When replacement is required, contact your local distributor.)
Backlight service life	50,000 hrs. or more (each in 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 type	Resistive Film (analog, single-touch)
Touch panel resolution	1,024 x 1,024
Touch panel lifetime	1,000,000 times or more

Electrical specifications

Rated input voltage	24 Vdc
Input voltage limits	19.2 to 28.8 Vdc
Allowable voltage drop	5 ms or less

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Power consumption	Max. 9 W When power is not supplied to external devices: 5.5 W or less When screen turns off the backlight (standby mode): 3.6 W or less
In-rush current	30 A or less
Voltage endurance	1,000 Vac, 20 mA for 1 minute (between power terminal and FG terminals)
Insulation resistance	500 Vdc, 10 MΩ or more (between power terminal and FG terminals)

Environmental specifications

International safety standards	CE EM EM COLLICUL
Surrounding air temperature	0 to 50 °C [32 to 122 °F]
Storage temperature	-20 to +60 °C [-4 to 140 °F]
Ambient humidity	10 to 90 % RH (Wet bulb temperature: 39 °C [102.2 °F] max no condensation)
Storage humidity	10 to 90 % RH (Wet bulb temperature: 39 °C [102.2 °F] max no condensation)
Dust	0.1 mg/m³ (10 ⁻⁷ oz/ft³) or less (non-conductive levels)
Pollution degree	For use in Pollution Degree 2 environment
Corrosive gases	Free of corrosive gases
Air pressure (altitude range)	800 to 1,114 hPa (2,000 m [6,561 ft.] above sea level or less)
Vibration resistance	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 ² X, Y, Z directions for 10 cycles (approx. 100 min.)
Concussion resistance	IEC/EN 61131-2 compliant 147 m/s ² , X, Y, Z directions for 3 times
Electrical fast transient/burst	IEC 61000-4-4 2 kV: Power port (display unit) 1 kV: Signal ports
Electrostatic discharge immunity	Contact Discharge Method: 6 kV Air Discharge Method: 8 kV (IEC/EN61000-4-2 Level 3)

Memory	/
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Application memory	When using BLUE:FLASH EPROM 128MB
	Removable System: No
Backup memory	When using BLUE:NVRAM 500KB
	Battery: Replaceable battery / Primary battery for clock data backup

Interface specifica	tions
Serial (COM1)	Asynchronous Transmission: RS-232C, 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 (plug)
Serial (COM2)	Asynchronous Transmission: RS-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, 187,500 bps (MPI), Connector: D-Sub 9 pin (plug)
USB (Type A)	Conforms to USB 2.0 (Type A) x 1 Power supply voltage: 5 Vdc ±5 % Output Current: 500 mA or less

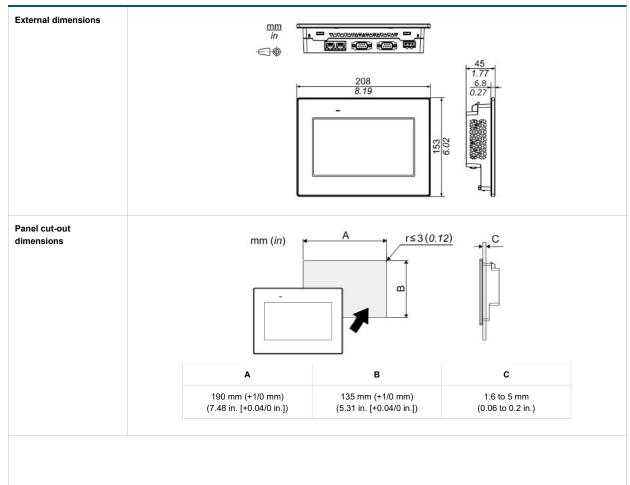
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	Communication distance: 5 m [16.4 ft.] or less
USB (micro-B)	USB 2.0 (micro-B) x 1, Communication Distance: 5 m [16.4 ft]
Ethernet	IEEE802.3i / IEEE802.3u, 10BASE-T / 100BASE-TX, Connector: Modular jack (RJ-45) x 2

Structural specifications	
Grounding	Functional grounding: Grounding resistance of 100 Ω , 2mm ² (AWG 14) or thicker wire, or your country's applicable standard. (Same for FG and SG terminals)
Cooling method	Natural air circulation
Structure	IP65F, Type 1, Type 4X (indoor use only), Type 13 (on the front panel when properly installed in an enclosure)*1
External dimensions	W208 x H153 x D45 mm [W8.19 x H6.02 x D1.77 in.]
Panel cut-out dimensions	W190 x H135 mm [W7.48 x H5.31 in.] Panel thickness area: 1.6 to 5 mm [0.06 to 0.2 in.] ^{*2}
Weight	0.8 kg [1.76 lb] or less

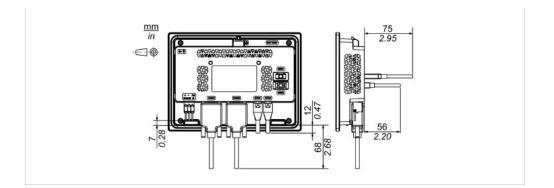
- *1 The front face of the unit, installed in a solid panel, has been tested using conditions equivalent to the standards shown in the specification. Even though the unit's level of resistance is equivalent to these standards, oils that should have no effect on the unit can possibly harm the unit. This 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.
- *2 For dimensional tolerance, everything +1/-0 mm [+0.04/-0 in.] and R in angle are below R3 [R0.12 in.]. Even if the installation wall thickness is within the recommended range for the "Panel Cut Dimensions", depending on wall's material, size, and installation location of GP unit and other devices, the installation wall could warp. To prevent warping, the installation surface may need to be strengthened.

Dimensions



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External dimensions with cable



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