

ST6000 Series

PFXST6700WAD

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Standard product information

Family	HMI
Series	ST6000 Series
Size	15" Wide
Model	PFXST6700WAD
Global Code	PFXST6700WAD
Product Features	15" DC Analog
Repair Status	✓ (Maintenance service is available, able to be maintained.)

Display specifications







Display type	TFT Color LCD
Display size	15.6" Wide
Resolution	1,366 x 768 pixels (FWXGA)
Effective display area	W344.23 x H193.54 mm [W13.55 x H7.62 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	10 ms or less
Power consumption	Max. 18.5 W When power is not supplied to external devices: 15 W or less When screen turns off the backlight (standby mode): 5.4 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	     
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/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
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

Application memory	When using BLUE: FLASH EPROM 128MB Removable System: No
Local storage	467MB
Backup memory	When using BLUE: NVRAM 500KB Battery: Replaceable battery / Primary battery for clock data backup

Interface specifications

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 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	W412 x H268 x D50 mm [W16.22 x H10.55 x D1.97 in.]
Panel cut-out dimensions	W394 x H250 mm [W15.51 x H9.84 in.] Panel thickness area: 1.6 to 5 mm [0.06 to 0.2 in.] ^{*2}
Weight	2.7 kg [5.95 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							
External dimensions	<p>The diagram shows three views of the unit: a top view, a front view, and a side view. The top view shows a width of 412 mm (16.22 in.). The front view shows a height of 268 mm (10.55 in.). The side view shows a depth of 50 mm (1.97 in.).</p>						
Panel cut-out dimensions	<p>The diagram shows a panel with a cut-out for the unit. Dimension A is the width of the cut-out, B is the height, and C is the panel thickness. A radius of r ≤ 3 (0.12) is indicated. A table below provides the specific values for A, B, and C.</p> <table border="1"> <thead> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>394 mm (+1/0 mm) (15.51 in. [+0.04/0 in.])</td> <td>250 mm (+1/0 mm) (9.84 in. [+0.04/0 in.])</td> <td>1.6 to 5 mm (0.06 to 0.2 in.)</td> </tr> </tbody> </table>	A	B	C	394 mm (+1/0 mm) (15.51 in. [+0.04/0 in.])	250 mm (+1/0 mm) (9.84 in. [+0.04/0 in.])	1.6 to 5 mm (0.06 to 0.2 in.)
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External dimensions
with cable

