PFXSTM6400WAD

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Standard product information

Family	HMI
Series	STM6000 Series
Size	7" Wide
Model	PFXSTM6400WAD
Global Code	PFXSTM6400WAD
Product Features	Modular 7" DC Analog

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 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
Power consumption	(Rear module) Max. 6.8 W (Rear module)When power is not supplied to external devices: 3.5 W or less (Display module) Max. 3.6 W (Display module)When power is not supplied to external devices: 1.3 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 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:** Unreplaceable battery by the customer/ Primary battery for clock data backup

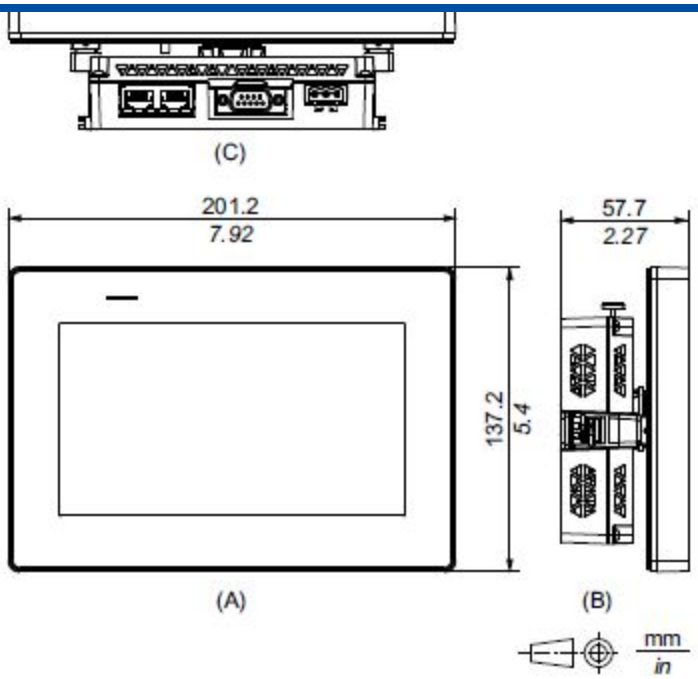
Interface specifications

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

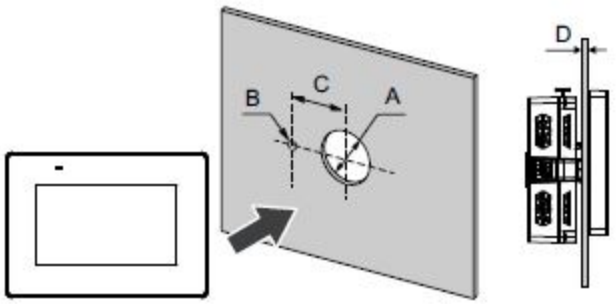
Structural specifications

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	Rear Module: IP20 Display Module: IP65F, UL 50/50E, Type 1, Type 4X (indoor use only), Type 12, Type 13*1
External dimensions	Rear Module: W145.6 x H108.23 xD 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)
Panel cut-out dimensions	Diameter 22.5 mm (0.88 in)
Weight	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.



Panel cut-out dimensions



A	B	C
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])

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)

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