

# GP6640T HMI



| Performance Specifications |   |   |
|----------------------------|---|---|
| Model                      | PFXGP6640TMDI   | PFXGP660TMAI  |
| Graphics Display           | TFT (1024 x 768 Pixels)   |   |
| Display Type and Size      | XGA TFT Color LCD (12.1-inch)   |   |
| Display Colors             | 16 Million Colors   |   |
| Touch Panel                | Resistive film (multi-touch analog resistive)   |   |
| Effective Display Area     | 245.76 x 184.32 mm (9.68 x 7.26 in)   |   |
| Touch Panel Resolution     | 1024 x 1024   |   |
| Backlight                  | Backlight White LED (Not user replaceable. When replacement is required, contact customer support.) 50,000 hours or more (continuous operation at 25 °C [77 °F] before backlight brightness decreases to 25%) |   |
| Brightness Control         | 0...100 (adjusted with touch panel or software)   |   |
| Interface                  | USB (A)   | USB 2.0 (Type-A) x 3 <sup>*1</sup> , 5 Vdc ±5% (Power supply voltage), 500 mA/port <sup>*2</sup> (Maximum current supplied), 5 m (16.4 ft) Maximum transmission distance                    |
|                            | USB (microB)  | USB 2.0 (micro-B) x 2 <sup>*1</sup> , Maximum transmission distance : 5 m (16.4 ft)   |
|                            | Ethernet  | Modular jack (RJ-45) x 2 <sup>*4</sup> , IEEE802.3i/IEEE802.3u,10BASE-T/100BASE-TX/1000BASE-T <sup>*5</sup>   |
|                            | 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, Connector: D-Sub 9 (plug) |
| SD Card                    | SD card slot x1, SD/SDHC/SDXC, UHS-1 supported  |   |

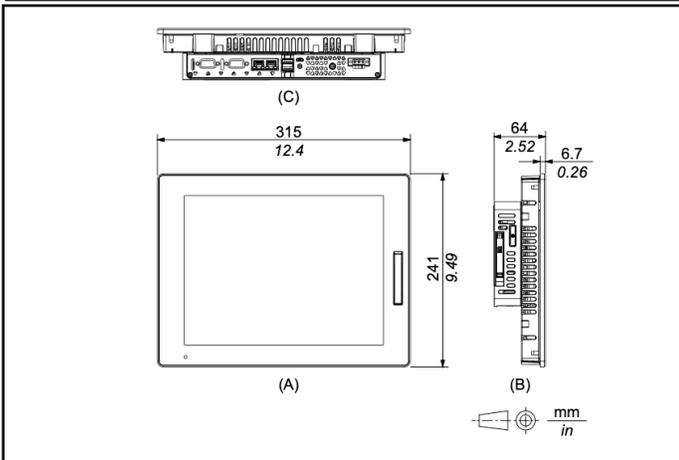
<sup>\*1</sup> The factory default for the Front USB ports (Type-A and micro-B) is disabled. For instructions on enabling the USB ports, refer to Display, page 117.<sup>\*2</sup> For USB allowable current to provided is limited 1 A total. <sup>\*4</sup> The factory default for the ETH2 port is disabled. Use the System Settings to change it. For details, refer to Ethernet, page 118. <sup>\*5</sup> For 1000BASE-T communication, use twisted pair Ethernet cables with a rating of category 5e or higher.

## General Specifications

| Model                                     | PFXGP6640TMDI   | PFXGP6640TMAI  |
|---|---|--|
| Input Voltage                             | Rated Input Voltage: 24 Vdc / Input Voltage Limits: 10.8...28.8 Vdc   | 100...240 Vac, 85...264 Vac, 50/60 Hz  |
| Power Consumption                         | 45 W or less (max) When power is supplied to expansion units, 26 W or less power not supplied to expansion, 20 W when power is not supplied to external devices 13 W or less when screen turns off  | 55 VA or less (max) When power is supplied to expansion units, 39 VA or less power not supplied to expansion, 35 VA when power is not supplied to external devices 31 VA or less when screen turns off |
| In-Rush Current                           | 30 A or less  |  |
| Storage Temperature                       | -20 to 60 °C (-4 to 140 °F)   |  |
| Shock Resistance                          | IEC/EN 61131-2 compliant 147 m/s <sup>2</sup> , X, Y, Z directions for 3 times  |  |
| Certifications                            | CE (EN 61000-6-4, EN 61000-6-2, EN 61131-2), UKCA, KC, RCM, cULus (UL 61010-2-201), cULus Class 1 Division 2, ATEX zone 2/22, IECEx zone 2/22, UKEX, KCS, CCC Ex, EU-RO MR, DNV, CCS, NK, RoHS, REACH, WEEE, CSA C22.2 No 61010-2-201, UL 121201, CSA C22.2 No 213  | CE (EN 61000-6-4, EN 61000-6-2, EN 61131-2), UKCA, KC, RCM, cULus (UL 61010-2-201), UKEX, RoHS, REACH, WEEE, CSA C22.2 No 61010-2-201  |
| Voltage Drop                              | 5 ms or less  |  |
| Corrosive Gas                             | Free of corrosive gases   |  |
| Pollution Degree                          | For use in pollution degree 2 environment   |  |
| Cooling method                            | Natural air circulation   |  |
| Dust                                      | 0.1 mg/m <sup>3</sup> (10-7 oz/ft <sup>3</sup> ) or less (non-conductive levels)  |  |
| Voltage Endurance                         | 1,000 Vac, 20 mA for 1 minute (between charging and FG terminals)   | 1,500 Vac for 1 minute (between power terminal and PE terminal)  |
| 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 <sup>2</sup> X, Y, Z directions for 10 cycles (approx. 100 min.)  |  |
| Insulation Resistance                     | 500 Vdc, 10 MΩ or more (between power terminal and FG terminal)   | 500 Vdc, 10 MΩ or more (between power terminal and PE terminal)  |
| Structure <sup>*1</sup>                   | Front: UL 50/50E, Type 1 Type 12, Type 13, Rear: IP20 When using a factory-installed front USB cover: IP65F, IP67F, When using a front USB cover with screw (PFXZCDCVUS1): IP66F, IP67F, UL 50/50E, Type 1, Type 4X (indoor use only), NOTE: On the front panel when properly installed in an enclosure and not using the front panel USB port. |  |
| Weight                                    | 3.7kg (8.16 lb) or less   |  |
| External Dimensions                       | 315 x 241 x 64 mm (12.4 x 9.49 x 2.52 in)   |  |
| Panel Cut-Out Dimensions <sup>*2,*3</sup> | 301.5 x 227.5 mm (11.87 x 8.96 in), Panel thickness area: 1.6...5 mm (0.06...0.2 in)  |  |
| Warranty                                  | Two (2) years   |  |

<sup>1</sup> The front face of this product, installed in a solid panel, has been tested using conditions equivalent to the standards shown in the specification. Even though this product's level of resistance is equivalent to these standards, oils that should have no effect on this product can possibly harm this product. This can occur in areas where either vaporized oils are present, or where low viscosity cutting oils are allowed to adhere to this product for long periods of time. If this product's front face protection sheet or cover glass peels off, these conditions can lead to the ingress of oil into this product and separate protection measures are suggested. Also, if non-approved oils are present, they may cause deformation or corrosion of the front panel's cover. Therefore, prior to installing this product, be sure to confirm the type of conditions that will be present in this product's operating environment. If the installation gasket is used for a long period of time, or if this product and its gasket are removed from the panel, the original level of protection cannot be kept. To maintain the original protection level, be sure to replace the installation gasket regularly. <sup>2</sup> For dimensional tolerance, everything +1/-0 mm (+0.04/-0 in) and R in angle are below R3 mm (R0.12 in).<sup>3</sup> Even if the installation wall thickness is within the recommended range for the Panel Cut Dimensions, depending on the wall's material, size, and installation location of this product and other devices, the installation wall could warp. To prevent warping, the installation surface may need to be strengthened.

**External Dimensions**



**Ordering Information**

| Model Number  | Description  |
|---------------|--|
| PFXGP6640TMDI | 12.1" XGA TFT Screen, USB, Serial, Ethernet, 16 Million colors, SD card, DC. |
| PFXGP6640TMAI | 12.1" XGA TFT Screen, USB, Serial, Ethernet, 16 Million colors, SD card, AC. |

**Panel Cut-Out Dimensions**

