

### GP-4401WW (Model No.: PFXGP4401WADW)

| Functional Specification |                   |  |
|--------------------------|-------------------|--|
| Display Type             |                   | TFT Color LCD  |
| Display Size             |                   | 7.0"   |
| Resolution               |                   | 800 x 480 pixels (WVGA)  |
| Effective Display Area   |                   | W152.4 x H91.44 mm [W6.0 x H3.6 in.]   |
| Display Colors           |                   | 65,536 Colors (No blink)/16,384 Colors (Blink)   |
| Backlight                |                   | White LED (User nonreplaceable parts. When replacement is required, contact your local distributor.)   |
| Brightness Control       |                   | 8 Levels (Adjusted with the software)  |
| Backlight Service Life   |                   | 50,000 hrs. or more (continuous operation at 25°C [77 °F] before backlight brightness decreases to 50%)  |
| Language Fonts           |                   | Japanese: 6,962 (JIS Standards 1 & 2) (including 607 non-kanji characters) ANK: 158 (Korean fonts, Simplified Chinese and Traditional Chinese fonts are downloadable.)                                 |
| Character Sizes          |                   | Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 pixel fonts, Stroke font: 6 to 127 pixel fonts, Image font: 8 to 72 pixel fonts  |
| Font Sizes *1            |                   | Standard font: Width can be expanded up to 8 times. Height can be expanded up to 8 times.  |
| Text                     | 8 x 8 dots        | 100 char. x 60 rows  |
|                          | 8 x 16 dots       | 100 char. x 30 rows  |
|                          | 16 x 16 dots      | 50 char. x 30 rows   |
|                          | 32 x 32 dots      | 25 char. x 15 rows   |
| Application Memory       |                   | FLASH EPROM 16 MB (including a logic program area)   |
| Logic Program Area *2    |                   | FLASH EPROM 132 KB (Equivalent to 15,000 steps)  |
| Font Area                |                   | FLASH EPROM 8 MB (Replaceable Lithium battery for backup memory)   |
| Data Backup              |                   | SRAM 128 KB (Replaceable Lithium battery for backup memory)  |
| Variable Area            |                   | None   |
| Clock Accuracy *3        |                   | ±65 sec/month (deviation at room temperature and power is OFF)   |
| Touch Panel Type         |                   | Resistive Film (analog)  |
| Touch Panel Resolution   |                   | 1,024 x 1,024  |
| Touch Panel Service Life |                   | 1,000,000 times or more  |
| Interface                | Serial (COM1)     | RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Odd or Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug)                 |
|                          | Serial (COM2)     | RS-422/485 Asynchronous Transmission Data Length: 7 or 8 bit Parity: none, Odd or Even Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps, 187.5kbps (MPI) Connector: D-Sub9 (plug) |
|                          | Ethernet (LAN)    | IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (RJ-45) x 1   |
|                          | USB (Type-A)      | Conforms to USB2.0 (TYPE-A) x 1, Power Supply Voltage: DC 5 V ±5 %, Output Current: 500 mA or less, Communication Distance: 5 m or less  |
|                          | USB (Type mini-B) | Conforms to USB2.0 (mini-B) x 1 Communication Distance: 5 m or less  |
|                          | SD Card           | SD Card Slot x 1   |

\*1: Other font sizes can be set up with the Editor software.

\*2: Up to 60,000 steps can be converted in software. However, this reduces application memory capacity (for screen data) by 1 MB.

\*3: Depending on the operating temperature and age of unit, the clock can deviate from -380 to +90 sec/month.

For systems where this level of deviation is a problem, the user should monitor and make adjustments when required.



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### General Specification

|                                  |  |
|----------------------------------|--|
| International Safety Standards   |    |
| Rated Input Voltage              | DC 24 V  |
| Input Voltage Limits             | DC 19.2 to 28.8 V  |
| Allowable Voltage Drop           | 5 ms or less   |
| Power Consumption                | 12 W or less   |
| In-Rush Current                  | 30 A or less   |
| Voltage Endurance                | AC 1,000 V, 20 mA for 1 min (between charging and FG terminals)  |
| Insulation Resistance            | DC 500 V, 10 MΩ or more (between charging and FG terminals)  |
| 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] or less - no condensation.)  |
| Storage Humidity                 |  |
| Dust                             | 0.1 mg/m <sup>3</sup> (10-7 oz/ft <sup>3</sup> ) or less (non-conductive levels)   |
| Pollution Degree                 | For use in Pollution Degree 2 environment  |
| Atmosphere                       | Free of corrosive gases  |
| Air Pressure (altitude range)    | 800 to 1,114 hPa (2,000 m above sea level or less)   |
| Vibration Resistance             | IEC/EN61131-2 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) |
| Concussion Resistance            | IEC/EN61131-2 compliant 147 m/s <sup>2</sup> , X, Y, Z directions for 3 times  |
| Noise Immunity                   | Noise Voltage: 1,000 Vp-p, Pulse Duration: 1 μs, Rise Time: 1 ns (via noise simulator)   |
| Electrostatic Discharge Immunity | Contact Discharge Method: 6 kV (IEC/EN61000-4-2 Level 3)   |
| Grounding                        | Functional grounding: Grounding resistance of 100Ω, 2mm <sup>2</sup> (AWG 14) or thicker wire, or your country's applicable standard. (Same for FG and SG terminals)             |
| Structure *1                     | Equivalent to IP65f NEMA #250 TYPE 4X/13 (on the front panel when properly installed in an enclosure)  |
| Cooling Method                   | Natural air circulation  |
| Weight Approx.                   | 1.2 kg [2.6 lb] or less (display unit only)  |
| External Dimensions              | W218 x H174 x D60 mm [W8.58 x H6.85 x D2.36 in.]   |
| Panel Cut Dimensions *2          | W204.5 x H159.5 mm [W8.05 x H6.28 in.], Panel thickness area: 1.6 to 5 mm [0.06 to 0.2 in.]  |

\*1: The front face of the GP unit, installed in a solid panel, has been tested using conditions equivalent to the standards shown in the specification. Even though the GP unit's level of resistance is equivalent to these standards, oils that should have no effect on the GP 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 GP's front face protection sheet becomes peeled off, these conditions can lead to the ingress of oil into the GP 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 GP unit, be sure to confirm the type of conditions that will be present in the GP's operating environment. If the installation gasket is used for a long period of time, or if the unit and its gasket

\*2: Regarding dimensional tolerance, everything +1/-0 mm [+0.04/-0 in.] and R in angle are below R3 [R0.12 in.].

Pro-face's GP4000 Series website <http://www.pro-face.com/product/hmi/gp4000.html>