

GP-4104W (Model No.: PFXGP4104W1D)

| Functional Specification | | |
|--------------------------|---|---|
| Display Type | STN Monochrome LCD | |
| Display Size | 3.4" | |
| Resolution | 200 x 80 pixels | |
| Effective Display Area | 79.985 x 31.985 mm | |
| Display Colors | Monochrome White/Red/Pink (16 Levels) | |
| Backlight *1 | White/Red LED (User nonreplaceable parts. Factory replacement required.) | |
| Brightness Control | 16 Levels (Adjusted with the touch panel) | |
| Backlight Service Life | White: 50,000 hrs. or more, Red 10,000 hrs. or more (each in continuous operation at 25°C before backlight brightness decreases to 50%) | |
| Language Fonts *2 | Japanese, ASCII, Chinese (Simplified), Chinese (Traditional), Korean, Cyrillic, Thai | |
| Character Sizes | Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 pixel fonts, Stroke font: 6 to 80 pixel fonts, Image font: 8 to 72 pixel fonts | |
| Font Sizes *3 | Standard font: Width can be expanded up to 8 times. Height can be expanded up to 8 times. | |
| Text | 8 x 16 dots | 25 char. x 5 rows |
| | 16 x 16 dots | 12 char. x 5 rows |
| | 32 x 32 dots | 6 char. x 2 rows |
| Application Memory *4 | FLASH EPROM 2.2 MB | |
| Data Backup *5 | 128KB | |
| Clock Accuracy *6 | Uses the clock of an external device | |
| 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 | Ethernet (LAN) | IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX, Connector: Modular jack (RJ- |
| | USB (Type-A) *7 | Conforms to USB2.0 (Type-A) x 1, Power Supply Voltage: DC 5 V ±5 %, Communication Distance: 5 m or less |
| | USB (Type mini-B) | Conforms to USB2.0 (mini-B) x 1, Communication Distance: 5 m or less |

*1: The backlight burnout detection function is not supported.

*2: Please refer to the GP-Pro EX reference manual for details on font types and character codes.

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

*4: Capacity available for user application.

*5: Application memory can provide 128KB for Data Backup. For further information, please refer to the GP-Pro EX reference manual.


*6: Set up the "Clock Updates" feature with the Editor software.

Please refer to the GP-Pro EX reference manual "Common" - "Clock Update Settings" for details.

*7: If connecting a bar code reader to the GP, be sure to supply power from an external source (such as a self-powered hub).

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General Specification

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| International Safety Standards |  |
| Rated Input Voltage | DC 24 V |
| Input Voltage Limits | DC 19.2 to 28.8 V |
| Allowable Voltage Drop | 3 ms 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 *1 | 0 to 50 °C |
| Storage Temperature | -20 to +60 °C |
| Ambient Humidity | 10 to 90 % RH (Wet bulb temperature: 39 °C or less - no condensation.) |
| Storage Humidity | |
| Dust | 0.1 mg/m ³ 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 ² , X, Y, Z directions for 10 cycles (100 min) |
| Concussion Resistance | IEC/EN61131-2 compliant, 147 m/s ² , 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) |
| Noise Immunity (Fast Transient Burst Noise) | Power Line: 2 kV (IEC/EN61000-4-4) |
| Electrostatic Discharge Immunity | Contact Discharge Method: 6 kV/Air Discharge Method: 8 kV (IEC/EN61000-4-2 Level 3) |
| Grounding | Functional grounding: Grounding resistance of 100Ω, 2mm ² or thicker wire, or your country's applicable standard. (Same for FG and SG terminals) |
| Structure *2 | IP65f NEMA #250 TYPE 4X/13 (on the front panel when properly installed in an enclosure) |
| Cooling Method | Natural air circulation |
| Weight Approx. | 0.2 kg [0.4 lb] or less (display unit only) |
| External Dimensions | W116.5 x H77.5 x D28 mm [W4.59 x H3.05 x D1.1 in.] |
| Panel Cut Dimensions *3 | W105 x H66 mm [W6.14 x H4.86 in.], Panel thickness area: 1 to 5 mm [0.04 to 0.2 in.] |

*1: When using in an environment where the temperature becomes or exceeds 40 °C for an extended period of time, the screen contrast level may decrease from its original level of brightness.

*2: 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.

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

Even if panel thickness is within recommend range for "Panel Cut Dimensions", the panel could warp, depending on panel's material, size.

Pro-face's GP4100 Series website <http://www.pro-face.com/product/hmi/gp4100.html>