![Pro-face for the best interface logo]

■ GP4000M Rear Module Configuration

GP4000M Rear Module	Model	Product Summary		Rear Module Installation Adapter	Model	Product Summary
	PFXGM4B01D	SIO (RS-232C/422/485) x 1, Ethernet x 1, USB Type A x 1, USB mini-B x 1	**+**		PFXZXMADSA1	DIN rail installation adapter for rear modules in non-display operation

■ Display Specifications

Virtual Resolution (pixels)	320 x 240 (QVGA)
Language Fonts *1	Japanese: 6,962 (JIS Standards 1 & 2) (including 607 non-kanji characters), ANK: 158 (Korean, Traditional Chinese and Simplified 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	Standard font: Width can be expanded up to 8 times. Height can be expanded up to 8 times. *2
8 x 8 pixels	40 characters per row x 30 rows
8 x 16 pixels	40 characters per row x 15 rows
16 x 16 pixels	20 characters per row x 15 rows
32 x 32 pixels	10 characters per row x 7 rows
Application memory	FLASH EPROM 8 MB *3
Logic Program Area	FLASH EPROM 132 KB *4 (Equivalent to 15,000 steps)
Font Area	FLASH EPROM 8 MB (when limit exceeded, uses application memory)
Data backup	nvSRAM 128 KB *5
Clock Accuracy	Uses the clock of an external device *6
Touch Panel Type	Resistive Film (analog)
Touch Panel Service Lifetime	1,000,000 times or more
Interface — **Serial (COM1)**	Asynchronous Transmission: RS-232C/422/485, Data Length: 7 or 8 bit, Stop Bit: 1 or 2 bit, Parity: none, Odd or Even, Data Transmission Speed: 2,400 to 115,200bps, 187,500 bps, Connector: D-Sub9 (plug)
Interface — **Ethernet (LAN)**	IEEE802.3i/ IEEE802.3u, 10BASE-T/100BASE-TX, Connector: Modular jack (RJ-45) x 1
Interface — **USB (Type A)**	USB2.0, Connector: Type A x 1, Power Supply Voltage: DC5V±5%, Maximum Transmission Distance: 3m (9.84 ft.) or less
Interface — **USB (mini-B)**	USB2.0, Connector: mini-B x 1, Maximum Transmission Distance: 5m (16.40 ft.) or less

*1. Please refer to the GP-Pro EX Reference Manual for details on font types and character codes.
*2. Other font sizes can be set up with the Editor software.
*3. Capacity available for user application. The capacity depends on how many fonts you load from Editor software.
*4. Up to 60,000 steps can be converted in software. However, this reduces application memory capacity (for screen data).
*5. Application memory can provide 128KB for Data Backup. For further information, please refer to the GP-Pro EX.
*6. Set up the "Clock Updates" feature with the Editor software. Please refer to the GP-Pro EX reference manual.

■ General Specifications

Supported Standards and Regulations	UL508 UL508 ANSI/ISA 12.12.01 CE KC ⚖ EAC
Rated Input Voltage	24Vdc
Input Voltage Limits	20.4 to 28.8Vdc
Acceptable Voltage Drop	7ms or less
Power Consumption	5.2W or less
In-Rush Current	30A or less
Voltage Endurance	1,000 Vac 20 mA for 1 min (between charging and FG terminals)
Insulation Resistance	500 Vdc, 10 MΩ or more (between charging and FG terminals)

■ Environmental Specifications

Surrounding Air Temperature	0 to 50 ℃ (32 to 122 ℉)
Storage Temperature	-20 to 60 ℃ (-4 to 140 ℉)
Ambient Humidity	85 % RH (Wet bulb temperature: 39 ℃ (102.2 ℉) or less - no condensation.)
Storage Humidity	85 % RH (Wet bulb temperature: 39 ℃ (102.2 ℉) or less - no condensation.)
Dust	0.1 mg/m^3 (10^{-7} oz/ft^3) (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 (6,561 ft) or lower)
Vibration Resistance	EN61131-2 compliant 5 to 9 Hz Single amplitude: 3.5 mm (0.14 in.)
Shock Resistance	IEC/EN 61131-2 compliant 147 m/s^2, X, Y, Z 3directions
Electrical fast transient/burst	IEC61000-4-4 2kV Power port 1kV Signal ports
Electrostatic Discharge Immunity	IEC61000-4-2 6kV direct contact 8kV air contact

■ Structural Specifications

Structure	IP20 (NEMA Type 4X not supported)
Cooling Method	Natural air circulation
Weight	0.21kg (0.46 lb.) or less
Grounding	Functional grounding: Grounding resistance of 100Ω, 2mm^2 (AWG 14) or thicker wire, or your country's applicable standard

■External Dimensions/Parts Identification

<External Dimensions (when a DIN rail is attached)>

<External Dimensions, Parts identification (when an adapter is disconnected)>

mm [in.]

2.5±0.3 [0.1±0.01]
7.5
53.9±0.5 [2.12±0.02]
DIN rail
131.35±0.4 [5.17±0.016]
105.35±0.4 [4.15±0.016]
109.83±0.4 [4.32±0.016]

118 [4.64]
30.6 [1.20]
9.5 [0.37]
98.1 [3.86]
17.2 [0.67]
40.1

(1) (2) (3) (4)
(5)

(1)USB I/F (Type A)
(2)Serial I/F (COM1)
(3)Ethernet I/F
(4)DC Power Supply Connector
(5)USB I/F (Type mini-B)