

GP-4501T (Model No.: PFXGP4501TMA)

Backlight Service Life	Functional S	pecification	
Resolution 640 x 480 pixels (VGA) Effective Display Area W211.2 x H158.4 mm [W8.31 x H6.24 in.] Display Colors 65,536 Colors (No blink/l16,384 Colors (Blink) Backlight White LED (User nonreplaceable parts. When replacement is required, conta your local distributor.) Brightness Control 16 Levels (Adjusted with the touch panel or the software) Backlight Service Life 50,000 hrs. or more (continuous operation at 25°C [7" F] before backlight brightness decreases to 50%) Japanese: 6,962 (JIS Standards 1 & 2) (including 607 non-kanji characters) Al 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 158 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 to 8 times. 8 x 8 dots 8 80 char. x 80 rows 8 80 char. x 30 rows 16 x 16 dots 40 char. x 30 rows 16 x 16 dots 40 char. x 30 rows 17 characters (Sizes 16 dots 16 dots 16 dots 17 characters) Al 40 char. x 30 rows 17 characters (Sizes 16 dots 17 characters) Al 40 char. x 30 rows 17 characters (Sizes 16 dots 17 characters) Al 40 char. x 30 rows 18 characters (Sizes 16 dots 18 characters) Al 40 char. x 30 rows 19 characters (Sizes 16 dots 18 characters) Al 40 char. x 30 rows 16 x 16 dots 18 characters (Sizes 16 dots 18 characters) Al 40 characters (Sizes	·		TFT Color LCD
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Backlight Service Life brightness decreases to 50%) Japanese: 6,962 (JIS Standards 1 & 2) (including 607 non-kanji characters) Al 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 1 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 to 8 times. 8 x 8 dots 8 x 16 dots 16 x 16 dots 16 x 16 dots 32 x 32 dots Application Memory FLASH EPROM 32 MB (including a logic program area) Logic Program Area *2 FLASH EPROM 32 MB (including a logic program area) FLASH EPROM 32 MB (Replaceable Lithium battery for backup memory) Variable Area FLASH EPROM 8 MB (Replaceable Lithium battery for backup memory) Variable Area SRAM 64 KB (Replaceable Lithium battery for backup memory) Touch Panel Type Resistive Film (matrix) Touch Panel Resolution Touch Panel Service Life 1,000,000 times or more RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, or Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbp Connector: D-Sub9 (plug) Interface Ethernet (LAN) Language Fonts Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 pixel fonts, Stroke fonts of the sex parity of th	Brightness Control		16 Levels (Adjusted with the touch panel or the software)
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16 x 16 dots 32 x 32 dots 20 char. x 15 rows		8 x 16 dots	80 char. x 30 rows
Application Memory FLASH EPROM 32 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 320 KB (Replaceable Lithium battery for backup memory) Variable Area SRAM 64 KB (Replaceable Lithium battery for backup memory) Clock Accuracy *3 ±65 sec/month (deviation at room temperature and power is OFF) Touch Panel Type Resistive Film (matrix) Touch Panel Resolution 32 x 24 keys/screen Touch Panel Service Life 1,000,000 times or more RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Oc Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbp Connector: D-Sub9 (plug) RS-422/485 Asynchronous Transmission Data Length: 7 or 8 bit Parity: none, or Even Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbp 187.5kbps (MPI) Connector: D-Sub9 (plug) Interface Ethernet (LAN) USB (Type-A) Conforms to USB2.0 (TYPE-A) x 1, Power Supply Voltage: DC 5 V ±5 %, Out Current: 500 mA or less, Communication Distance: 5 m or less	TEXT	16 x 16 dots	40 char. x 30 rows
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Touch Panel Service Life 1,000,000 times or more RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Occurrent: 500 mA or less, Communication Distance: 5 m or less	Touch Panel Type		Resistive Film (matrix)
RS-232C Asynchronous Transmission Data Length: 7 or 8 bit, Parity: none, Occurrent: 500 mA or less, Communication Distance: 5 m or less	Touch Panel Resolution		32 x 24 keys/screen
Serial (COM1) Even, Stop Bit: 1 or 2 bit, Data Transmission Speed: 2,400 bps to 115.2 kbp Connector: D-Sub9 (plug) RS-422/485 Asynchronous Transmission Data Length: 7 or 8 bit Parity: none, or Even Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbp 187.5kbps (MPI) Connector: D-Sub9 (plug) Ethernet (LAN) IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (IAS) x 1 USB (Type-A) Conforms to USB2.0 (TYPE-A) x 1, Power Supply Voltage: DC 5 V ±5 %, Out Current: 500 mA or less, Communication Distance: 5 m or less	Touch Panel Service Life		1,000,000 times or more
Interface Serial (COM2) or Even Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbp 187.5kbps (MPI) Connector: D-Sub9 (plug) Ethernet (LAN) IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (factor) 45) x 1 USB (Type-A) Conforms to USB2.0 (TYPE-A) x 1, Power Supply Voltage: DC 5 V ±5 %, Out Current: 500 mA or less, Communication Distance: 5 m or less	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)
Ethernet (LAN) IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (I 45) x 1 USB (Type-A) Conforms to USB2.0 (TYPE-A) x 1, Power Supply Voltage: DC 5 V ±5 %, Out Current: 500 mA or less, Communication Distance: 5 m or less		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)
Current: 500 mA or less, Communication Distance: 5 m or less		Ethernet (LAN)	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: Modular jack (RJ-45) x 1
HOD (T. III)		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		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		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.



General Specification		
International Safety Standards	UL STED ULSTED U	
Rated Input Voltage	AC 100 to 240 V	
Input Voltage Limits	AC 85 to 264 V	
Allowable Voltage Drop	1 cycle or less(Voltage drop interval must be 1 second or more.)	
Power Consumption	100 Vac: 44 VA or less 240 Vac: 58 VA or less	
In-Rush Current	30 A or less	
Voltage Endurance	AC 1,500 V, 20 mA for 1 min (between charging and FG terminals)	
Insulation Resistance	DC 500 V, 10 M Ω or more (between charging and FG terminals)	
Surrounding Air Temperature	0 to 55 °C [32 to 131 °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/m³ (10-7 oz/ft³) 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/s², X, Y, Z directions for 10 cycles (approx. 100 min)	
Concussion Resistance	IEC/EN61131-2 compliant 147 m/s², X, Y, Z directions for 3 times	
Noise Immunity	Noise Voltage: 1,500 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, 2mm² (AWG 14) or thicker wire, or your country's applicable standard. (Same for FG and SG terminals)	
Structure *1	IP65f NEMA #250 TYPE 4X/13 (on the front panel when properly installed in an enclosure)	
Cooling Method	Natural air circulation	
Weight Approx.	2 kg [4.4 lb] or less (display unit only)	
External Dimensions	W272.5 x H214.5 x D57 mm [W10.73 x H8.44 x D2.24 in.]	
Panel Cut Dimensions *2	W259 x H201 mm [W10.2 x H7.91 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

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