

Datasheet

GP-4601T (Model No.: PFXGP4601TAA) *Coated Model No.: PFXGP4601TAAC

Functional Sp	pecification	
Display Type		TFT Color LCD
Display Size		12.1"
Resolution		800 x 600 pixels (SVGA)
Effective Display Area		W246.0 x H184.5 mm [W9.69 x H7.26 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		16 Levels (Adjusted with the touch panel or 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.
	8 x 8 dots	100 char. x 75 rows
Tout	8 x 16 dots	100 char. x 37 rows
Text	16 x 16 dots	50 char. x 37 rows
	32 x 32 dots	25 char. x 18 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 (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.

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*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	UL508 ANSI/ISA 12.12.01	
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/m ³ (10-7 oz/ft 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/s², X, Y, Z directions for 10 cycles (approx. 100 min)	
Concussion Resistance	IEC/EN61131-2 compliant 147 m/s ² , 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, 2mm ² (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.	2.5 kg [5.5 lb] or less (display unit only)	
External Dimensions	W315x H241x D56 mm [W12.4 x H9.49 x D2.2 in.]	
Panel Cut Dimensions *2	W301.5 x H227.5 mm [W11.87 x H8.96 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