

PFXGP4521TAA

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Standard product information

Family	HMI
Series	GP4000 Series
Size	10"
Model	PFXGP4521TAA
Global Code	PFXGP4521TAA
Product Features	10" AC Analog
Repair Status	✓ (Maintenance service is available, able to be maintained.)

Display specifications

Display type	TFT Color LCD
Display size	10.4"
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) / 16,384 colors (Blink)
Backlight	White LED (Not user replaceable. When replacement is required, contact your local distributor.)
Backlight service life	50,000 hrs. or more (each in continuous operation at 25 °C [77 °F] before backlight brightness decreases to 50%)
Brightness control	16 Levels (Adjusted with touch panel or software)
Touch panel type	Resistive Film (analog)
Touch panel resolution	1,024 x 1,024
Touch panel lifetime	1,000,000 times or more
Language fonts	Japanese: 6,962 (JIS Standards 1 & 2) (including 607 non-kanji characters), ANK: 158 (Korean, Traditional Chinese, Simplified Chinese, Thai and Cyrillic can be added from the font setting of the screen editor.)
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. *1


8 x 8 dots	80 char. x 60 rows
8 x 16 dots	80 char. x 30 rows
16 x 16 dots	40 char. x 30 rows
32 x 32 dots	20 char. x 15 rows

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

Electrical specifications

Rated input voltage	100 to 240 Vac
Input voltage limits	85 to 264 Vac
Rated frequency	50 / 60 Hz
Rated frequency range	47 to 63 Hz
Allowable voltage drop	1 cycle or less (Voltage drop interval must be 1 second or more.)
Power consumption	100 Vac: 56 VA or less, 240 Vac: 77 VA or less
In-rush current	30 A or less
Noise immunity	Noise Voltage : 1,500 Vp-p Pulse Duration : 1 μ s Rise Time : 1 ns (via noise simulator)
Voltage endurance	1,500 Vac, 20 mA for 1 minute (between power terminal and FG terminals)
Insulation resistance	500 Vdc, 10 M Ω or more (between power terminal and FG terminals)

Environmental specifications

International safety standards	
Surrounding air temperature	0 to 55 °C [32 to 131 °F]*2
Storage temperature	-20 to +60 °C [-4 to 140 °F]
Ambient humidity	10 to 90 % RH (Wet bulb temperature: 39 °C [102.2 °F] max. - no condensation)
Storage humidity	10 to 90 % RH (Wet bulb temperature: 39 °C [102.2 °F] max. - no condensation)
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
Corrosive gases	Free of corrosive gases
Air pressure (altitude range)	800 to 1,114 hPa (2,000 m [6,561 ft.] above sea level or less)
Vibration resistance	IEC/EN 61131-2 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 (approx. 100 min.)

Concussion resistance	IEC/EN 61131-2 compliant 147 m/s ² , X, Y, Z directions for 3 times
Electrostatic discharge immunity	6 kV (IEC/EN61000-4-2 Level 3)

*2 Surrounding Air Temperature of the Video Unit is 0 to 50 °C (32 to 122 °F) when attaching the Video Unit to GP-4621T.

Memory	
Application memory	<p>When using GP-Pro EX:</p> <ul style="list-style-type: none"> - Media: FLASH EPROM - Screen Area: 32MB *Use the screen area when the user font area's capacity is exceeded - for example, when an image font or a picture font is used. - User Font Area: 8MB - Logic Program Area: 132KB (Equivalent to 15,000 steps) *Up to 60,000 steps can be converted in software. However, this reduces application memory capacity (for screen data) by 1 MB. - Free Space: None <p>Removable System: No</p>
Backup memory	<p>When using GP-Pro EX:</p> <ul style="list-style-type: none"> - Screen Area: SRAM 320KB - Variable Area: SRAM 64KB <p>Battery: Replaceable battery / Primary battery for clock data backup</p>
Clock accuracy	±65 sec./month (deviation at room temperature and power is OFF) ^{*3}

*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.

Interface specifications	
Serial (COM1)	Asynchronous Transmission: RS-232C, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: None, Even or Odd, Data Transmission Speed: 2,400 to 115,200 bps, Connector: D-Sub 9 (plug)
Serial (COM2)	Asynchronous Transmission: RS-422 / 485, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: None, Even or Odd, Data Transmission Speed: 2,400 to 115,200 bps, 187,500 bps (MPI), Connector: D-Sub 9 pin (plug)
USB (Type A)	Conforms to USB 2.0 (Type A) x 1 Power supply voltage: 5 Vdc ±5 % Output Current: 500 mA or less Communication distance: 5 m [16.4 ft.] or less
USB (mini-B)	Conforms to USB 2.0 (mini-B) x 1, Communication Distance: 5 m [16.4 ft.] or less
Ethernet	IEEE802.3i / IEEE802.3u, 10BASE-T / 100BASE-TX, Connector: Modular jack (RJ-45) x 1
SD card	SD Card Slot x 1
Expansion unit	Video Unit x 1

Structural specifications	
Grounding	Functional grounding: Grounding resistance of 100 Ω, 2mm ² (AWG 14) or thicker wire, or your country's applicable standard. (Same for FG and SG terminals)
Cooling method	Natural air circulation
Structure	IP65f NEMA #250 TYPE 4X/13 (on the front panel when properly installed in an enclosure) ^{*4}
External dimensions	W272.5 x H214.5 x D57 mm [W10.73 x H8.45 x D2.25 in.]

mm
in.

