Pro-face
by Schneider Electric

Datasheet

10.4" Touch Screen Operator Interface

TouchPanel Operation



10.4-inch TFT Color
Touch Screen Operator Interface
GP-450xT
AC/DC 24V
VGA
10.4-inch
SD Card
Ethernet
Models:PFXGP4501TAA, PFXGP4501TAD, PFXGP4503TAD, PFXGP4501TMA, PFXGP4501TMD, PFXGP4501TAAC, PFXGP4501TADC
Powered by Screen Editor GP-Pro EX

Features:

- 65,536 Colors, Clear, Bright, High-Resolution TFT Display
- Energy Effecient LED Display
- Choice of No Grid Analog or Matrix Touch Panel for Improved Visibility and Precise Part Placement
- Supports Up to Four Protocol Drivers Simultaneously
- High Speed Application Transfer, 10 Times Faster than Conventional Operator Interfaces
- 10/100 Base-T Ethernet, USB, Serial Communication, and SD Card Interfaces
- High-Definition Part Images and Multi-Language Support

Specifications

Model	PFXGP4501TAA, PFXGP4501TAD, PFXG-P4503TAD*	PFXGP4501TMA, PFXGP4501TMD
Graphics Display Resolution	640 x 480 pixels (VGA)	
Display Type and Size	TFT Color LCD (10.4 inch)	
Display Colors	65,536 Colors (no blink), 16,384 (blink)	
Display Area	W211.2 x H158.4 mm [W8.31 x H6.24 in.]	
Touch Screen	Resistive film analog 1024 x 1024 resolution	Resistive Film (matrix)
USB	USB Type-A (2.0) x 1 , USB mini-B (2.0) x1	
SD Card	SD Card slot x 1 (maximum 32 GB SD/SDHC Card)	
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) GP-4501 COM 2: 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) *GP-4503T: COM 2: RS-485 (isolation) Asynchronous Transmission Data Length: 7 or 8 bit Parity: none, Even or Odd Stop Bit: 1 or 2 bit Data Transmission Speed: 2,400 bps to 115.2 kbps, 187.5 kbps (MPI) Connector: D-Sub9 (socket)	
Ethernet	Ethernet IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX	
Backlight	White LED (User nonreplaceable parts. When replacement is required, contact your local distributor.	
Brightness and Contrast Controls	16 levels of adjustment available via touch panel or the software	
Programming Memory	32MB FEPROM (GP-Pro EX V3.0 or later)	
Backup Memory	512kb SRAM with battery backup	

General Specifications

Model	PFXGP4501TAA, PFXGP4501TMA	PFXGP4501TAD, PFXGP4503TAD, PFXGP4501TMD
Input Voltage	AC 100 to 240 V (nput voltage limites AC 85 to 264 V)	Rated DC24V (Limits DC19.2 to 28.8V)
Power Consumption	100 Vac: 44 VA or less 240 Vac: 58 VA or less	17 W or less
Ambient Operating Temp.	0°C (32°F) to 55°C (131°F)	
Storage Temperature	-20 to 60 °C [-4 to 140 °F]	
Altitude Endurance	800hPa to 1114hPA (2000 meters or lower)	
Certifications	CE, UL Listed Cl 1 Div 2 (Cl 1 Div 2 is only available on Rev. B units), RoHS, ABS (American Bureau of Shipping), DNV (Norway – Marine)	CE, UL Listed Cl 1 Div 2 (Cl 1 Div 2 is only available on Rev. C units/ Rev. B units for PFXGP-4301TAD), RoHS, ABS (American Bureau of Shipping), DNV (Norway – Marine)
Humidity - Ambient/Storage	10 to 90 % RH (Wet bulb temperature: 39 °C [102.2 °F] or less - no condensation.)/ 10 to 90 % RH (Wet bulb temperature: 39 °C [102.2 °F] or less - no condensation.)	
Noise Immunity	Noise Voltage: 1,500 Vp-p, Pulse Duration: 1 µs, Rise Time: 1 ns (via noise simulator)	Noise Voltage: 1,000 Vp-p, Pulse Duration: 1 µs, Rise Time: 1 ns (via noise simulator)
Cooling Method	Natural air circulation	
Electrostatic Discharge Immunity	Contact Discharge Method: 6 kV (IEC/EN61000-4-2 Level 3)	
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)	
Shock during operation	IEC/EN 61131-2 compliant 147 m/s2, X, Y, Z directions for 3 times	
Rating	Equivalent to IP65f, Nema #250 Type 4x/13 (Equivalent to NEMA 12 with the addition of "Oil or Spraying and Splashing") when properly installed in an enclosure	
Weight	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.]	
Warranty	Two-year standard (maximum 4 years)	

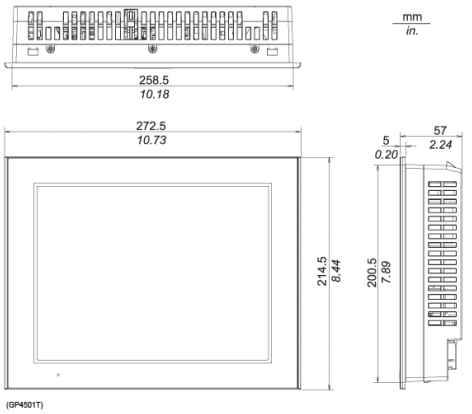
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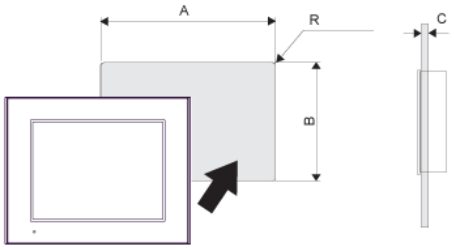
GP-450xT - External Dimensions

Unit: mm [in.]



GP-450xT - Cut-Out Dimensions

Unit: mm [in.]



	A	B	C	R
GP-4501T GP-4503T	259 mm (+1, -0 mm) (10.2 in. [+0.04, -0 in.])	201 mm (+1, -0 mm) (7.91 in. [+0.04, -0 in.])	1.6...5 mm (0.06...0.2 in.)	3 mm (0.12 in.) maximum

Ordering Information

Part Number	Description
PFXGP4501TAA	**GP-4501T**: 10.4" TFT Color Touchscreen (Analog), VGA, 2x Serial, Ethernet, 2x USB, SD, 100-240VAC, UL/CE
PFXGP4501TAD	**GP-4501T**: 10.4" TFT Color Touchscreen (Analog), VGA, 2x Serial, Ethernet, 2x USB, SD, 24VDC, UL/CE
PFXGP4501TMA	**GP-4501T**: 10.4" TFT Color Touchscreen (Matrix), VGA, 2x Serial, Ethernet, 2x USB, SD, 100-240VAC, UL/CE
PFXGP4501TMD	**GP-4501T**: 10.4" TFT Color Touchscreen (Matrix), VGA, 2x Serial, Ethernet, 2x USB, SD, 24VDC, UL/CE
PFXGP4501TAAC	**GP-4501T**: 10.4" TFT Color Touchscreen (Analog), VGA, 2x Serial, Ethernet, 2x USB, SD, 100-240VAC, UL/CE, Conformal Coating
PFXGP4501TADC	**GP-4501T**: 10.4" TFT Color Touchscreen (Analog), VGA, 2x Serial, Ethernet, 2x USB, SD, 24VDC, UL/CE, Conformal Coating
PFXGP4503TAD	**GP-4503T**: 10.4" TFT Color Touchscreen (Analog), VGA, 2x Serial (1-RS232, 1-RS485/MPI), Ethernet, 2x USB, SD, 24VDC, UL/CE

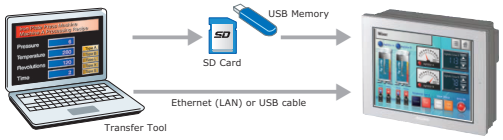
Optional Items

Part Number	Product Name
PFXZCBSD4GC41	SD Memory Card (4 GB, Class 4)
GP-Pro EX (EX-ED-Vx)	Screen and Logic Development Software (ver 3.0 or newer)
PLC Cables & Accessories	See AGP3000 Connectivity Document

Caution: Before operating any of these products, please be sure to read all related manuals thoroughly.
- All product names used in this document are trademarks or registered trademarks of their respective companies.
- All information contained in this document is subject to change without notice.

Easily Transfer Data

Screen data can be updated by using the data transfer tool, even without a software license.

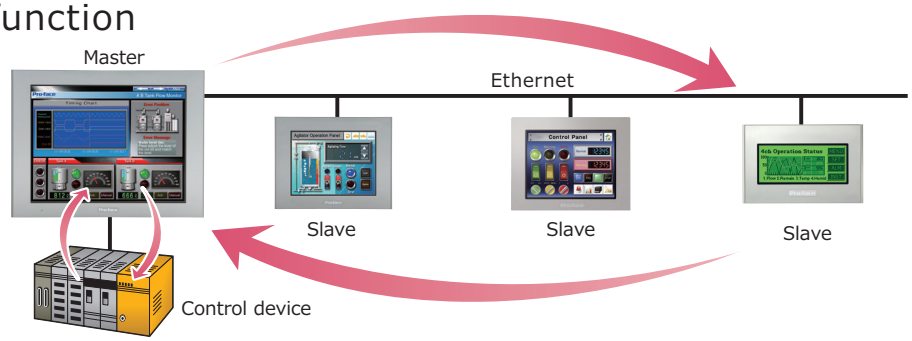


The data transfer tool can be downloaded for free from the Web
http://www.profaceamerica.com

Connectivity

Ethernet Multi-Link function

The Ethernet Multi-Link function allows you to easily add a GP as a sub-display to the facility without changing any settings of the control device.



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