



PFXGM4301TAD

Standard product information

Replacement option 2

Display specifications

Environmental specifications

Interface specifications

Dimensions

Replacement option 1

Replacement option 3

Electrical specifications

Memory

Structural specifications

Standard product information

Family	HMI
Series	GP4000M Series
Size	5"
Model	PFXGM4301TAD
Global Code	PFXGM4301TAD
Product Features	Modular 5" DC Analog
End of sales	2024/12/31
End of repair	2029/12/31
Repair Service Remark	-

Replacement option 1

Replacement code 1	PFXSTM6400WADE
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by **Schneider** Electric

	<p>TFT color LCD</p> <p>Panel cut-out size same</p> <p>Display resolution different</p> <p>For more details, refer to the "Replacement book".</p>
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Replacement option 2

Replacement code 2	PFXST6400WADE
Replacement code 2 comment	<p>ST6000 Series (GP-Pro EX)</p> <p>DC power supply</p> <p>TFT color LCD</p> <p>Panel cut-out size different</p> <p>Display resolution different</p> <p>For more details, refer to the "Replacement book".</p>

Replacement option 3

Replacement code 3	PFXSTM6400WAD
Replacement code 3 comment	<p>STM6000 Series</p> <p>DC power supply</p> <p>TFT color LCD</p> <p>Panel cut-out size same</p> <p>Display resolution different</p> <p>For more details, refer to the "Replacement book".</p>

Display specifications

Display type	TFT Color LCD
Display size	5.7"
Resolution	320 x 240 pixels (QVGA)
Effective display area	W115.2 x H86.4 mm [W4.54 x H3.40 in.]
Display colors	65,536 colors


by Schneider Electric

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 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	40 char. x 30 rows
8 x 16 dots	40 char. x 15 rows
16 x 16 dots	20 char. x 15 rows
32 x 32 dots	10 char. x 7 rows











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

Electrical specifications

Rated input voltage	24 Vdc
Input voltage limits	20.4 to 28.8 Vdc
Allowable voltage drop	7 ms or less
Power consumption	6.8 W or less
In-rush current	30 A or less
Noise immunity	IEC61000-4-4, 2kV Power port, 1kV Signal ports



Environmental specifications

International safety standards	     ANSI/CSA (UL508+1604) Listed     
Surrounding air temperature	0 to 50 °C [32 to 122 °F] ^{*1}
Storage temperature	-20 to +60 °C [-4 to 140 °F]
Ambient humidity	85 % RH (Wet bulb temperature: 39 °C [102.2 °F] max. - no condensation)
Storage humidity	10% to 90% RH (Non condensing, wet bulb temperature 39 °C [102.2 °F] or less)
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.]
Electrostatic discharge immunity	IEC61000-4-2, 6 kV direct contact, 8 kV air contact
Drop resistance	IEC/EN 61131-2 compliant, 147 m/s ² , x,y,z 3 directions

^{*1} When using in an environment where the temperature becomes or exceeds 40 °C for an extended period of time, the screen contrast level may decrease from its original level of brightness.

Memory

	<p>exceeded - for example, when an image font or a picture font is used.</p> <ul style="list-style-type: none"> - User Font Area: None - 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^{*1}</p>
Backup memory	<p>When using GP-Pro EX:</p> <ul style="list-style-type: none"> - Screen Area: nvSRAM 128KB - Variable Area: None <p>Battery: None^{*2}</p>
Clock accuracy	Uses the clock of an external device ^{*3}

^{*1} 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.
Up to 60,000 steps can be converted in software. However, this reduces application memory capacity (for screen data) by 1 MB.

^{*2} Application memory can provide 128KB for Data Backup. For further information, please refer to the GP-Pro EX reference manual.

^{*3} Set up the "Clock Updates" feature with the Editor software. Please refer to the GP-Pro EX reference manual "Common" - "Clock Update Settings" for details.

Interface specifications	
Serial (COM1)	Asynchronous Transmission: RS-232C / 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 % Communication distance: 3 m [9.84 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

Structural specifications



by Schneider Electric

Cooling method	Natural air circulation
Structure	NEMA#250 TYPE 4X (indoor, installed in an enclosure) Display module: IP65F Rear module: IP20
Weight	0.62 kg [1.37 lb] or less

Dimensions

External dimensions

External Dimensions / Interfaces / Panel Cut-out

<External Dimensions & Parts Names>

Display Module GP-4301TM

Parts Names ①:Display ②:Touch panel ③:Anti-rotation tee ④:USB (Type A) interface connector ⑤:Serial IF (host IF) ⑥:Ethernet Interface (LAN)
⑦:Power Plug Connector ⑧:USB (mini B) interface connector

Rear Module (for all GP units)

Panel Cut-out (for all GP units)

A	B	C	D
159±0.8	±0	±0	±0
4.90(0.16)	22.5(0.89)	50.0(1.18)	
(0.06 to 0.23)	(-0.23(0.009) to 0.23(0.009))	(-0.25(0.010) to 0.25(0.010))	

*If rotating torque acted on a display module is 2.5 N·m (22.12 in·lb) or more, use an anti-rotation tee which is supplied with a GP unit. The anti-rotation tee supports up to 8 N·m (55.10 in·lb).

Zoom

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- Selection Guide
- Edge Box
- Industrial PC(IPC)
- Advanced HMI
- Basic HMI
- Software

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- About HMI Centric
- HMI Centric Architecture
- Success Story
- Industry Segment Solution
- Solution Search

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- Concept Introduction
- BLUE
- BLUE Open Studio
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