HMI/Touch SPS
GP4000 SERIE Spezifikationen



Funktionsbeschreibung Generelle Spezifikationen Außenmaße

GP4000 Serie

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PFXGP4601TMD

GP-4601T
Modell: PFXGP4601TMD

12.1" DC | Hochauflösendes LCD | Matrix Touch Panel | 2x Seriell | Ethernet | USB Typ A / mini B | SD Karte | Alarmanalyse Funktion

TFT Color LCD (65536 Farben) / Bildschirm Auflösung: SVGA

Produktbilder (BMP) Certificates for International Safety Standards (UL/cUL, CE, RoHS) Datenblatt

Funktionsbeschreibung

Bildschirmtyp		TFT Color LCD
Bildschirmgröße		12.1"
Auflösung		800 x 600 pixels (SVGA)
Efektive Bildschirmgröße		W246.0 x H184.5 mm [W9.69 x H7.26 in.]
Farbanzahl		65,536 Colors (No blink)/16,384 Colors (Blink)
Hintergrundbeleuchtung		White LED (User nonreplaceable parts. When replacement is required, contact your local distributor.)
Helligkeitsregelung		16 Levels (Adjusted with the touch panel or the software)
Hintergrundbeleuchtung Lebensdauer		50,000 hrs. or more (continuous operation at 25°C [77 °F] before backlight brightness decreases to 50%)
Zeichensätze		Japanese: 6,962 (JIS Standards 1 & 2) (including 607 non-kanji characters) ANK: 158 (Korean fonts, Simplified Chinese and Traditional Chinese fonts are downloadable.)
Zeichengrößen		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
Zeichengröße		Standard font: Width can be expanded up to 8 times. Height can be expanded up to 8 times.*1
Text	**8 x 8 Pixel**	100 char. x 75 rows
	8 x 16 Pixel	100 char. x 37 rows
	16 x 16 Pixel	50 char. x 37 rows
	32 x 32 Pixel	25 char. x 18 rows
SPS Speicher	**Variablenbereich**	SRAM 64 KB (Replaceable Lithium battery for backup memory)
	Speicherbereich für Logikprogramm	FLASH EPROM 132 KB (Equivalent to 15,000 steps)*2
Anwendungsspeicher		FLASH EPROM 32 MB (including a logic program area)
Datenbackup		SRAM 320 KB (Replaceable Lithium battery for backup memory)

Genauigkeit der Uhr		±65 sec/month (deviation at room temperature and power is OFF)*3
Touch-Typ		Resistive Film (matrix)
Touchpanel Auflösung		40 x 30 keys/screen
Touchpanel Lebensdauer		1,000,000 times or more
Schnittstelle	**Serielle(COM1)**	RS-232C Asynchronous Transmission Data Length: 7 or 8 bits, Parity: none, Odd or Even, Stop Bit: 1 or 2 bits, Data Transmission Speed: 2,400 bps to 115.2 kbps, Connector: D-Sub9 (plug)
	Serielle(COM2)	RS-422/485 Asynchronous Transmission Data Length: 7 or 8 bits, Parity: none, Odd or Even Stop Bit: 1 or 2 bits, 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 (TYP-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 [16.4ft.] or less
	USB (mini-B)	Conforms to USB2.0 (mini-B) x 1, Communication Distance: 5 m [16.4ft.] or less
	SD-Karte	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.

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Generelle Spezifikationen

Internationale Sicherheitsstandards	UL508
Nennspannung	DC 24 V
Grenzen der Eingangsspannung	DC 19.2 to 28.8 V
Zulässiger Spannungsabfall	10 ms or less
Stromverbrauch	17 W or less
Einschaltstoßstrom	30 A or less
Spannungs Ausdauer	AC 1,000 V 20 mA for 1 min (between charging and FG terminals)
Isolationswiderstand	DC 500 V, 10 MΩ or more (between charging and FG terminals)
Umgebungs Lufttenperatur	0 to 55 °C [32 to 131 °F]
Lagertemperatur	-20 to 60 °C [-4 to 140 °F]
Luftfeuchtigkeit	10 to 90 % RH (Wet bulb temperature: 39 °C [102.2 °F] or less - no condensation.)
Lagerfeuchtigkeit	10 to 90 % RH (Wet bulb temperature: 39 °C [102.2 °F] or less - no condensation.)
Staub	0.1 mg/m³ (10^{-7} oz/ft³) or less (non-conductive levels)
Verschmutzungsgrad	For use in Pollution Degree 2 environment
Atmosphäre	Free of corrosive gases
Luftdruck (Höhenbereich)	800 to 1,114 hPa (2,000 m [6,561ft.] above sea level or less)
Vibrationsfestigkeit	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)
Erschütterungsbeständigkeit	IEC/EN61131-2 compliant 147 m/s², X, Y, Z directions for 3 times
Störfestigkeit	Noise Voltage: 1,000 Vp-p, Pulse Duration: 1 µs, Rise Time: 1 ns (via noise simulator)
Elektrostatischer Widerstand	Contact Discharge Method: 6 kV (IEC/EN61000-4-2 Level 3)

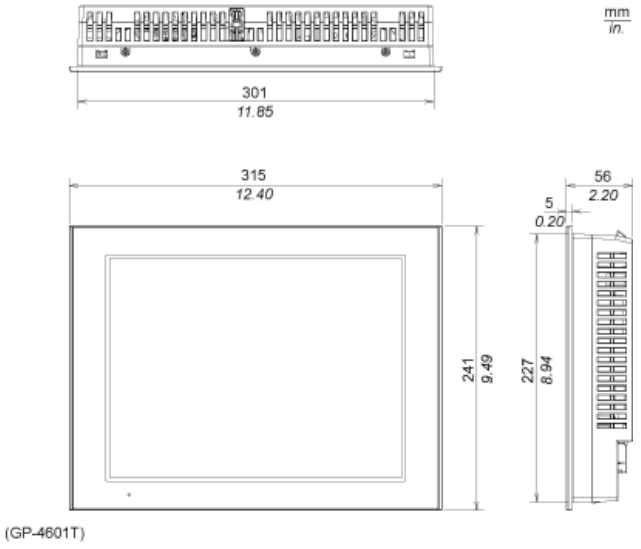
Erdung	Functional grounding: Grounding resistance of 100Ω, 2mm² (AWG 14) or thicker wire, or your country's applicable standard. (Same for FG and SG terminals)
Struktur	IP65f NEMA #250 TYPE 4X/13 (on the front panel when properly installed in an enclosure)*4
Kühlmethode	Natural air circulation
Gewicht ca.	2.5 kg [5.5 lb] or less (display unit only)
Außenmaße	W315x H241x D56 mm [W12.4 x H9.49 x D2.2 in.]
Panel Ausschnittmaß	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.]*5

*4 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 ef

*5 Regarding dimensional tolerance, everything +1/-0 mm [+0.04/-0 in.] and R in angle are below R3 [R0.12 in.]. Even if the installation wall thickness is within the recommended range for the "Panel Cut Dimensions", depending on wall's material, size, and installation location of GP unit and other devices, the installation wall could warp. To prevent warping, the installation surface may need to be strengthened.

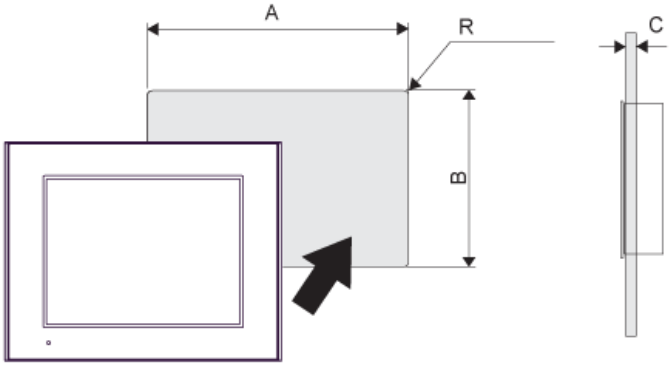
Seitenanfang

Außenmaße



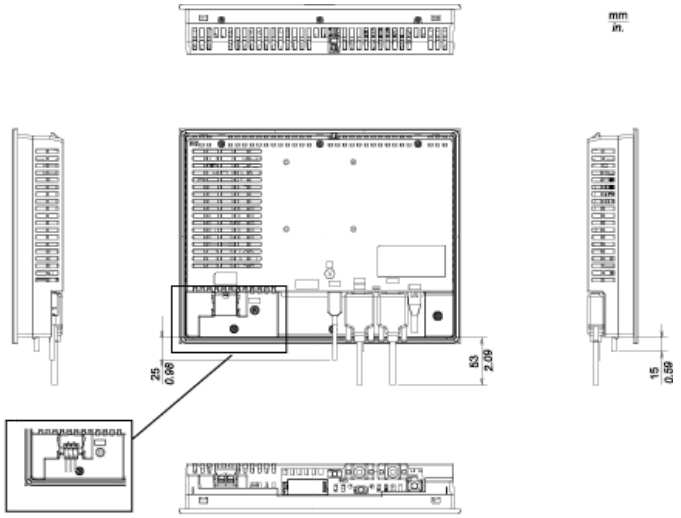
Zoom

Panel Ausschnittmaß



A	B	C	R
301.5 mm (+1, -0 mm) (11.87 [+0.04, -0 in.])	227.5 mm (+1, -0 mm) (8.96 in. [+0.04, -0 in.])	1.6...5 mm (0.06...0.2 in.)	3 mm (0.12 in.) maximum

Außenmaße mit Kabeln



Zoom

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Suchen

Eigene Richtlinien

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