

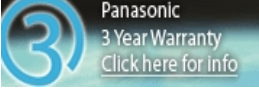
HMI Panels: GT12 Specifications

Automation Control Products

- PLC Controls
- HMI Panels

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- GT12**
- GT21C
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- GTWIN Software

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Trial Unit

Catalog PDF

Support

Sales

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Specifications for this product appear below.

Download GT12 product catalog in PDF format for more in-depth information



Item		GT12	
		RS232C	RS422
Rated voltage		24 VDC	
Operating voltage range		21.6 to 26.4 VDC	
Power consumption		1.7W max.	
Power supply unit isolation method		Transformer isolation	
Ambient temperature		0 to 50 °C	
Ambient humidity		20 to 85% RH (No dew condensation)	
Storage temperature		-20 to 60 °C	
Storage humidity		10 to 85% RH (No dew condensation)	
Vibration resistance		5 to 9 Hz amplitude: 3.5 mm, 9 to 150 Hz acceleration 9.8 m/s ² , 10 sweeps each in X, Y and Z directions (1 octave/min.)	
Shock resistance		147 m/s ² , 3 times in each of the X, Y and Z directions	
Superposed noise suppression		1,000 V[P-P] min, pulse width of 50 ns, 1 ?s between power supply terminals (by a noise simulator) *AIGT0030B1/AIGT0030H1: When the ferrite device supplied with our PLC connection cable (AIGT8142) is mounted	
Environmental resistance		IP67 (in the initial stages)* ¹	
Mass		Approx. 240 g	
Display	Display device	STN monochrome LCD	
	Resolution	320 (W) x 120 (H) dots	
	Display color	2 colors (black/white 8-gradation)	
	Displayable area	108.8 (W) x 40.8 (H) mm	
	Backlight	GT12G: 3-color LED (green, orange, red) GT12M: 3-color LED (white, pink, red) *No need for replacement	
Functions	Font types	Fixed (GTWIN) : 8 x 8, 16 x 8, and 16 x 16 dots Characters can be displayed in the 1, 2, 4, or 8 times width or height. TrueType (GTWIN): 10 to 120 dots	
	Languages	Japanese, English, Simplified Chinese, Traditional Chinese, Korean, German, Italian, Spanish, French, Turkish	
	Graphics	Straight lines, continuous straight lines, squares, circles, ovals, arcs, elliptic arcs, fan shapes, elliptic fan shapes, beveled squares, bitmaps	
	Number of screens	2-gradation: Approx. 250 screens, 8-gradation: Approx. 200 screens	
	Screen No. that can be set	Base screens: No. 0 to 3FF, Keyboard screens: No. 0 to 7	
	Part functions	Messages, lamps, switches, data, bar graphs, clocks, keyboards, line graphs, and alarm list parts	
	Other functions	Recipe, flow display, write device, alarm record, alarm list, and language switching, GT link and Operation security	
	Clock function	Provided with a built-in clock function. (Can also refer to and display a PLC clock.) *Buy a	
	Contrast adjustment	Contrast can be adjusted by using the touch panel.	
	Automatic communication settings	The communication speed (baud rate) is automatically changed if there is no response from the target equipment.	
	Debugging function	GT connected between a PC and PLC allows the PLC to be debugged without a direct connection with the PC.	
	Screen creation	Dedicated software should be used. Applicable OS: Windows® 95 (OSR2 or later)/ 98/Me/2000/NT/XP/Vista	
Touch key resolution		Free layout (8 dots min)	
Touch key operation force		0.8 N max	
Touch key life		1 million operations min	
COM. port	Communication standard	Conforms to RS232C	Conforms to RS422
	External communication conditions	Baud rate: 9,600/19,200/38,400/57,600/115,200 bps	
		Data bits: 7 or 8 bits, Parity: None, Odd, Even, Stop bits: 1 bit	
	Protocol	Our FP series supported/General-purpose serial interface supported/Other companies' PLC supported (Refer to the compatible PLC list for manufacturers and models.)	
Connector		Connector terminal base (8 pins)	
Screen data transfer interface	Communication standard	Tool port (Conforms to RS232C)	
	Communication conditions with personal computers	Baud rate: 9,600/19,200/115,200/230,400 bps*2 Data bits: 8 bits, Parity: None, Odd, Even, Stop bits: 1 bit	
	Protocol	Our dedicated protocol	
	Connector	USB Mini B	
	Ethernet port	-	

Notes:
1) Dust-proof and drip-proof from the front of the panel only (Rubber packing is attached to the panel contact surface.) *When reattaching the panel, replace the waterproof packing.
2) A USB/RS232C conversion cable should be used to achieve a communication speed of 230,400 bps. When the TOOL port of GT is set to 230,400 bps, the auto communication setting function of GTWIN cannot be used. Set the communication speed to 230,400 bps on GTWIN before transferring data.

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Conformance to the UL/cUL standards

UL/cUL file No.	UL Standard No.
E96300	UL508

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Memory

Screen data and GTWIN configuration setting data

Item	Specifications
User's memory	F-ROM
Memory capacity	2,048 Kbyte SDHC Card (up to 32Gbyte)
Memory	SRAM
Memory backup	Lithium battery* (replaceable) AFPX-BATT

* Does not come with product, purchase separately

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