

### Specifications

Item	GT01 / GT01R				GT11		GT21C		GT32M		GT32T0		GT32T1		
	5V/RS232C	5V/RS422	24V/RS232C	24V/RS422	RS232C	RS422	RS232C	RS422	RS232C	RS422	RS232C	RS422	RS232C	RS422	
Rated voltage	5 V DC				24 V DC										
Operating voltage range	4.5 to 5.5 V DC				21.6 to 26.4 V DC										
Power consumption	1W max.	1.1W max.	2W max.		2.4W max.		4.8W max.		10W max.		12W max.				
Power supply unit isolation method	Transformer isolation														
Ambient temperature	0 to 50°C				0 to 50°C		0 to 50°C*1		0 to 50°C*2						
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	10 to 55 Hz (1-minute cycle): Double amplitude: 0.75 mm, 10 minutes in each of the X, Y, and Z directions														
Shock resistance	98 m/s <sup>2</sup> min: 4 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 μs 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	IP65 (in the initial stages) 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.														
Mass	Approx. 160 g				Approx. 230 g		Approx. 330 g		Approx. 500 g		Approx. 470 g		Approx. 480 g		
Display	Display device	STN monochrome LCD				STN monochrome LCD		STN color LCD		STN monochrome LCD		TFT color LCD			
	Resolution	128 (W) x 64 (H) dots				240 (W) x 96 (H) dots		320 (W) x 240 (H) dots							
	Display color	2 colors (black/white)				2 colors (black/white)		256 colors		2 colors (blue/white)		4,096 colors			
	Displayable area	70.38 (W) x 35.18 (H) mm				96.0 (W) x 38.4 (H) mm		98.0 (W) x 74.0 (H) mm		113.2 (W) x 86.4 (H) mm		110.8 (W) x 83.6 (H) mm			
	Backlight	GT01: 3-color LED (green, orange, red) GT01R: 3-color LED (white, red, pink) *No need for replacement				3-color LED (green, orange, red) /White LED *No need for replacement		White LED backlight *No need for replacement		CFL [Average life; GT32M: 75,000 hours (25°C), GT32T: 50,000 hours (25°C)]					
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, 12, 14, 16, 24, 26, 28, 32, 36, 48, and 64 Windows (R): 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 32, 36, 48, and 64													
	Languages	Japanese, English, Korean, German, French, Spanish, Italian, Simplified Chinese, Traditional Chinese, Turkish													
	Graphics	Straight lines, continuous straight lines, squares, circles, ovals, arcs, elliptical arcs, fan shapes, elliptical fan shapes, beveled squares, bitmaps													
	Number of screens	Approx. 160 screens*3				Approx. 250 screens*3		Approx. 240 screens (GT32M)*3		Approx. 180 screens (GT32T)*3					
	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, and line graphs				Messages, lamps, switches, data, bar graphs, clocks, keyboards, line graphs, and alarm list parts									
	Other functions	Recipe, flow display, write device, and language switching				Recipe, flow display, write device, alarm record, alarm list, and language switching								Sound output *4	
	Clock function	Refers to and displays external clock data. (Not provided with a built-in clock function.)				Provided with a built-in clock function. (Can also refer to and display a PLC clock.) *Buy a commercially available battery.									
	Contrast adjustment	Contrast can be adjusted by using the touch panel.										Not adjustable			
	Automatic communication settings	The communication conditions of dedicated software and PLC can be automatically set by connecting a cable.													
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										2000/XP				
Touch key resolution	Free layout (8 dots min)														
Touch key operation force	0.5 N max				0.5 N max		0.8 N max.								
Touch key life	1 million operations min														
COM. Port	Communication standard	Conforms to RS232C	Conforms to RS422	Conforms to RS232C	Conforms to RS422	Conforms to RS232C	Conforms to RS422	Conforms to RS232C	Conforms to RS422	Conforms to RS232C	Conforms to RS422	Conforms to RS232C	Conforms to RS422	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)								USB1.1					
	Communication conditions with personal computers	Baud rate: 9,600/19,200/115,200/230,400 bps*5 Data bits: 8 bits Parity: None, Odd, Even Stop bits: 1 bit								-					
	Protocol	Our dedicated protocol													
	Connector	5-pin mini-DIN								USB TYPE-B					
Ethernet port	-														
											Yes (100BASE-TX, 10BASE-T) *6, *7				

\*1. When the unit is being installed in a horizontal orientation or FP programmer II is being connected to the TOOL port, the usable range is 0 to +45°C.

\*2. When the unit is being installed in a horizontal orientation, the usable range is 0 to +40°C.

\*3. The number of screens that can be registered varies according to the registered contents.

\*4. WAV format (PCM, 8-KHz sampling rate, 16 bits, mono), Maximum sound data capacity: 512 KB (approx. 30 sec), Maximum registrable number of sound data items: 128

\*5. 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.

\*6. The unit carries out serial communication data processing at 115.2kbits/s.

\*7. Communications with external equipment (PLC) are not available.

\*8. Simultaneous USB and Ethernet communications are not possible.

### Conformance to the UL/cUL standards

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