GT21 Series

GT21 Base Units

Model Number	Screen Size	Resolution	Display Type	Frame Color	Power Supply	Stocked Item
GT2103-PMBD						S
GT2103-PMBDS	3.8"	320 x 128 dots	TFT monochrome LCD	- Black	24VDC	S
GT2103-PMBDS2						S
GT2103-PMBLS					5VDC	S
GT2104-RTBD	4.3"	480 x 272 dots	TFT color LCD	DIACK		S
GT2105-QTBDS	- 5.7"	320 x 240 dots	TFT color LCD		24VDC	S
GT2105-QMBDS			TFT monochrome LCD			S
GT2107-WTBD	7.0"	800 x 480 dots	TET color I CD dioplay]	24VDC	S
GT2107-WTSD	7.0"	000 X 400 001S	TFT color LCD display	Silver	24100	S

GT21 Power Supply Specifications

Model Number		GT2103-PMBD	GT2103-PMBDS	GT2103-PMBDS2	GT2103-PMBLS	
Input Power Supply Voltage		24VDC (+10%, -15%)	5 VDC (±5%), supplied from PLC			
Input Power S	upply Frequency	-				
Dower	Maximum Load	2.6W or less	1.9W or less	2.2W or less	1.1W or less	
Power Consumption	Stand Alone with Backlight Off	2.0W	1.3W	1.6W	0.7W	
Inrush Current		30A or less (1ms, ambient temperature 25°C, maximum load)			-	
Permissible Instantaneous Failure Time		Within 5ms			-	
Noise Resistance		Noise voltage 1000Vp-p, noise width 1µs by noise simulator with noise frequency 30 to 100Hz				
Withstand Voltage		500VAC for 1 minute between power supply terminal and ground			-	
Insulation Resistance		500VDC across power supply terminals and earth, $10M\Omega$ or more by an insulation resistance tester			-	

Model Number		GT2104-RTBD	GT2105-QTBDS	GT2105-QMBDS	GT2107-WTBD	GT2107-WTSD		
Input Power Supply Voltage		24VDC (+10%, -15%)						
Input Power Supply Frequency		-						
Power	Maximum Load	4.4W or less	4.5W or less 2.9W or less		11.3W or less			
Consumption	Stand Alone with Backlight Off	2.9W	2.2W or less		7.0W			
Inrush Current		18 A or less (2 ms, 25°C, at the maximum load)	27A or less (2ms, 25°C, at the maximum load)		35 A or less (3 ms, ambient temperature: 25°C, under the maximum load)			
Permissible Instantaneous Failure Time		Within 5ms						
Noise Resistance		Noise voltage 1000Vp-p, noise width 1µs by noise simulator with noise frequency 30 to 100Hz						
Withstand Voltage		500VAC for 1 minute between power supply terminal and ground						
Insulation Resistance		500VDC across power supply terminals and earth, 10MΩ or more by an insulation resistance tester	$10 M\Omega$ or more by insulation resistance tester		500VDC across power supply terminals and earth, 1 or more by an insulation resistance tester			

GT21 Performance Specifications

Model Number	r	GT2107-WTBD GT2107-WTSD	GT2105-QTBDS	GT2105-QMBDS			
	Туре	TFT color LCD	TFT Color LCD	TFT monochrome LCD			
Display Section (*1, *2)	Screen Size	7" widescreen					
	Resolution (Dots)	WVGA: 800 x 480 dots	320 x 240 dots				
	Display Size (W x H) mm	152.4 x 91.44 (6.00 x 3.60 inch)	115 x 86 (4.53 x 3.39 inch)				
	Number of Characters	16-dot standard font: 50 chars x 30 lines (two-byte characters) 12-dot standard font: 66 chars x 40 lines (two-byte characters)	16-dot standard font: 20 chars x 15 lines (2-byte characters) 12-dot standard font: 26 chars x 20 lines (2-byte characters)				
	Display Colors	65536 colors	65536 colors	Monochrome (black/white) 32 shade grayscale			
	Intensity Adjustment	32-level adjustment					
Backlight	Туре	LED (Not replaceable)					
Dackingin	Life (*4)		Approx. 65000 h (operating ambien	t temp: 25°C, display intensity: 50%)			
	Туре	Analog resistive film					
Touch Panel	Key Size (Dots)	Minimum 2 x 2 dots (per key) (*7)					
(*3)	Simultaneous Press	Simultaneous press prohibited (only 1 point can be pressed) (*5)					
	Life	1 million times or more (operating force 0.98N or less)					
Panel Color		Black Silver	Black				
Memory User Memory Capacity		Memory for storage (ROM): 15 MB	Memory for storage (ROM): 9 MB				
Wichiory	Life (No. of Writings)	100000 times					
Battery	Туре	GT11-50BAT lithium battery	-				
Dattery	Life	Approx. 5 years (ambient temp: 25°C)	-				
	RS-232	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (male)	1 channel Transmission speed: 1152 4800 bps. Connector shape: D-sub	9-pin (male)			
	RS-422/485	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (female)	bps Connector shape: D-sub 9-pin (f	00, 57600, 38400, 19200, 9600, 4800 emale) Terminating resistor (*9): he terminating resistor setting switch)			
Built-in	RS-422	-	-				
Interface	Ethernet	1 channel Data transfer method: 10BASE-T, 100BASE-TX Connector shape: RJ-45 (modular jack)	-				
	USB (Host)	1 channel (rear face) Maximum transfer rate: Full-Speed 12 Mbps Connec	ctor shape: USB-A				
	USB (Device)	1 channel (front face) Maximum transfer rate: Full-Speed 12 Mbps Connector shape: USB Mini-B	1 channel; Maximum transfer rate: F USB Mini-B	Full-Speed 12 Mbps Connector shape:			
SD Card		1 channel, SDHC compliant (maximum 32 GB)					
Buzzer Output		Single tone (tone length adjustable)					
Protective Construction		Front: IP67F (*6, *8, *10) Inside control panel: IP2X	Outside the enclosure: IP67F (*6, *8) Inside the enclosure: IP2X				
External Dimensions (W x H x D) mm (in)		189 x 142 x 48 (7.44 x 5.59 x 1.89)	164 x 135 x 55 (6.46 x 5.32 x 2.17)				
Panel Cutout ((W x H) mm (in)	180.5 x 133.5 (7.11 x 5.26)	153 x 121 (6.03 x 4.77)				
Weight kg (lb) (Excluding Mo	ounting Brackets)	0.7 (1.54)	Approx. 0.7kg				
Applicable Sof	ftware Package	GT Works3 Version1.170C or later	GT Works3 Version1.144A or later				
Notoo:							

Notes:

- 1. Due to characteristics of LCD panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Note that these phenomena are characteristics of LCD panels and does not mean the products are defective or damaged.
 Flickering may occur due to vibration, shock, or the display colors.
- When a stylus is used, the touch panel has a life of 100 thousand touches. The stylus must satisfy the following specifications: Material: polyacetal resin Tip radius: 0.8 mm or more
- To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight.

 If you touch two points or more simultaneously on the touch panel, a touch switch near the touched points may operate unexpectedly. Do not touch two points or more simultaneously on the touch panel.
- Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or soaked in oil mist.

- soaked in oil mist.

 7. The minimum size of a key that can be arranged. To ensure safe use of the product, the following settings are recommended: Key size: 16 x 16 dots or larger

 8. The suffix "F" of IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.

 9. Set the terminating resistor selector switch of the GOT in accordance with the connection type when adopting GOT multidrop connection.

 10. To conform to IP67F, close the USB environmental protection cover by pushing the [PULL] mark firmly. (The GOT conforms to IP2X when the USB environmental protection cover is open.)

GT21 Performance Specifications (continued)

Type					
Display Size (W x H) mm 95.0 x 53.8 (3.74 x 2.12 inch) 16-dot standard font: 30 char. x 17 lines (2-byte characters) /12-dot standard font: 20 chars. x 8 lines (2-byte) 12-dot standard font: 20 chars. x 10 lines (2-byte) 12-dot standard font: 20 chars. x 10 lines (2-byte) 12-dot standard font: 26 chars. x					
Display Size (W x H) mm Display Section (*1, *2) Number of Characters Display Colors Intensity Adjustment Touch Panel (*3) Touch Panel (*3) Display Colors Touch Panel (*3) Display Colors Display Colors Touch Panel (*3) Display Colors Display Colors Touch Panel (*3) Display Colors Ele (*4) Approx. 50000 hours (Time for display intensity reaches 50% at ambient temperature of 25°C) Type Analog resistive film Key Size (Dots) Minimum 2 x 2 dots (per key) (*9) Simultaneous Press Simultaneous press prohibited (only 1 point can be pressed) (*5) Life 1 million times or more (operating force 0.98N or less) Panel Color Memory Capacity Life (No. of Writings) Type GT11-50BAT lithium battery Battery Type GT11-50BAT lithium battery					
Display Section (*1, *2) Number of Characters 16-dot standard font: 30 char. x 17 lines (2-byte characters) /12-dot standard font: 20 chars. x 8 lines (2-byte) (2-byte characters) /12-dot standard font: 26 chars. x 10 lines (2-byte) (2-byte characters) 16-dot standard font: 26 chars. x 10 lines (2-byte) (2-byte characters) 16-dot standard font: 26 chars. x 10 lines (2-byte) (2-byte characters) 16-dot standard font: 20 chars. x 8 lines (2-byte) (2-byte) (2-byte characters) 16-dot standard font: 20 chars. x 10 lines (2-byte) (2-byte) (2-byte characters) 16-dot standard font: 20 chars. x 10 lines (2-byte) 12-dot standard font: 26 chars. x 10 lines (2-byte) 12-dot standard font: 20 chars. x 10 lines (2-byte) 12-dot standar					
Number of Characters					
Intensity Adjustment 32-level adjustment 32-level adjustment Type LED (Not replaceable) 5-color LED (white/green/pink/orange/red) (not replaceable) Life (*4) Approx. 50000 hours (Time for display intensity reaches 50% at ambient temperature of 25°C) Analog resistive film Key Size (Dots) Minimum 2 x 2 dots (per key) (*9) Simultaneous Press Simultaneous press prohibited (only 1 point can be pressed) (*5) Life 1 million times or more (operating force 0.98N or less) Panel Color Black Memory for storage (ROM): 9 MB Memory for storage (ROM): 3MB Memory for storage (ROM): 3MB Memory for storage (ROM): 3MB Type GT11-50BAT lithium battery GT11-50BAT lithium battery Type GT11-50BAT lithium battery Type GT11-50BAT lithium battery Type					
Type					
Life (*4) Approx. 50000 hours (Time for display intensity reaches 50% at ambient temperature of 25°C)					
Type Analog resistive film Touch Panel (*3)					
Touch Panel (*3) Key Size (Dots) Minimum 2 x 2 dots (per key) (*9) Simultaneous Press Simultaneous press prohibited (only 1 point can be pressed) (*5) Life 1 million times or more (operating force 0.98N or less) Panel Color Memory User Memory Capacity Memory for storage (ROM): 9 MB Life (No. of Writings) 100000 times Type GT11-50BAT lithium battery					
Simultaneous Press Simultaneous press prohibited (only 1 point can be pressed) (*5)					
Life					
Panel Color Black Memory User Memory Capacity Memory for storage (ROM): 9 MB Memory for storage (ROM): 3MB Life (No. of Writings) 100000 times Type GT11-50BAT lithium battery					
Memory User Memory Capacity Memory for storage (ROM): 9 MB Memory for storage (ROM): 3MB Life (No. of Writings) 100000 times Type GT11-50BAT lithium battery					
Memory Life (No. of Writings) 100000 times Type GT11-50BAT lithium battery					
Rattery Type GT11-50BAT lithium battery					
Rattery					
Approx 5 years (ambient temp: 25 °C)					
Triphrox. 6 yours (unisone comp. 26 6)					
RS-232 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 9-pin connector terminal block 1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 9-pin connector terminal block, MINI-DIN 6-pin (female) 2 channels Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 9-pin connector terminal block, MINI-DIN 6-pin (female) 2 channels Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 9-pin connector terminal block					
1 channel Transmission 1 channel Transmiss	-				
Interface RS-422 -	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 9-pin connector terminal block				
Ethernet 1 channel Data transfer method: 10BASE-T, 100BASE-TX Connector shape: RJ-45 (modular jack)					
	1 channel (rear face) Maximum transfer rate: Full-Speed 12 Mbps Connector shape: USB-A				
USB (Device) 1 channel (front face) Maximum transfer rate: Full-Speed 12 Mbps Connector shape: USB Mini-B					
SD Card 1 channel, SDHC compliant (maximum 32 GB) (*6)	-				
Buzzer Output Single tone (tone length adjustable)					
Protective Construction Front: IP67F Inside control panel: IP2X (*7, *10)					
External Dimensions 128 x 102 x 40 113 x 74 x 32 (W x H x D) mm (in) 15.04 x 4.02 x 1.57) (4.45 x 2.91 x 1.26)	113 x 74 x 27 (4.45 x 2.91 x 1.06)				
Panel Cutout (W x H) mm (in) 118 x 92 (4.65 x 3.62) 105 x 66 (4.1 x 2.60)					
Weight kg (1b) (Excluding Mounting Brackets) 0.4 (0.88) 0.2 (0.44)	0.18 (0.40)				
Applicable Software Package GT Works3 Version1.122C or later GT Works3 Version1.112S or later GT Works3 Version1.112S					

Notes:

- 1. Due to characteristics of LCD panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Note that these phenomena are characteristics of LCD panels and does not mean the products are defective or damaged.
- Flickering may occur due to vibration, shock, or the display colors.
- When a stylus is used, the touch panel has a life of 100 thousand touches. The stylus must satisfy the following specifications: Material: polyacetal resin Tip radius: 0.8 mm or more To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight.
- If you touch two points or more simultaneously on the touch panel, a touch switch near the touched points may operate unexpectedly. Do not touch two points or more simultaneously on the touch panel.
- The SD memory card unit (GT21-03SDCD), sold separately, needs to be mounted.

 Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or soaked in oil mist.
- The dimensions when the SD memory card unit (GT21-03SDCD) is mounted is (W x H x D) mm (inch) 113 x 74 x 32 (4.45 x 2.91 x 1.26).

 The minimum size of a key that can be arranged. To ensure safe use of the product, the following settings are recommended: Key size: 16 x 16 dots or larger
- 10. The suffix "F" of IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.

GT21 Panel Cut Dimensions

Screen Size	Model	A	В	Remarks
3.8"	GT2103	105 (4.14)	66 (2.60)	Same dimensions as GT1020
4.3"	GT2104	118 (4.65)	92 (3.63)	
5.7"	GT2105	153 (6.03)	121 (4.77)	Same dimensions as GT1055-Q and GT1050-Q
7.0"	GT2107	180.5 (7.11)	133.5 (5.26)	

