GT25 Series

GT25 Base Units

Category	Model Number	Screen Size	Resolution	Display Type	Frame Color	Power Supply	Stocked Item
GT2512	GT2512-STBA	12.1"	SVGA (800 x 600)		Black	100-240VAC	S
	GT2512-STBD					24VDC	S
GT2510	GT2510-VTBA	10.4"	VGA (640 x 480)		Black	100-240VAC	S
	GT2510-VTBD					24VDC	S
	GT2510-VTWA				White	100-240VAC	S
	GT2510-VTWD					24VDC	S
	GT2510-WXTBD	10.1"	WXGA (1280 x 800)		Black	24VDC	S
	GT2510-WXTSD				Silver	24VDC	S
GT2508	GT2508-VTBA	8.4"	VGA (640 x 480)	TFT Color	Black	100-240VAC	S
	GT2508-VTBD					24VDC	S
	GT2508-VTWA				White	100-240VAC	S
	GT2508-VTWD					24VDC	S
GT2507	GT2507-WTBD	7.0"	WVGA (800 x 480)		Black	24VDC	S
	GT2507-WTSD				Silver	24VDC	S
	GT2507T-WTSD (Rugged)				Silver	24VDC	S
GT2505	GT2505-VTBD	5.7"	VGA (640 x 480)		Black	24VDC	S

GT25 Open Frame Base Units

Category	Model Number	Screen Size	Resolution	Display Type	Frame Color	Power Supply	Stocked Item
GT25 Open Frame Model GOT (*1)	GT2512F-STNA	12.1"	SVGA (800 x 600)	TFT color (65536 colors)	No frame	100-240VAC	S
	GT2512F-STND					24VDC	S
	GT2510F-VTNA	10.4"	VGA (640 x 480)			100-240VAC	S
	GT2510F-VTND					24VDC	S
	GT2508F-VTNA	8.4"	VGA (640 x 480)			100-240VAC	S
	GT2508F-VTND					24VDC	S

Note 1: Always attach an environmental protection sheet dedicated to the open frame model (sold separately) to the display section. Or, attach a user-prepared environmental protection sheet. Not doing so may damage or soil the GOT or cause foreign matter to enter the GOT, resulting in a failure or malfunction
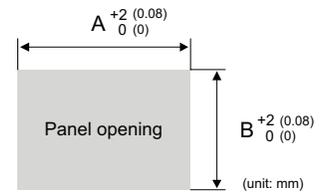
GT25 Power Supply Specifications

Model Number		GT2512-STBA GT2512F-STNA	GT2510-VTBA GT2510-VTWA GT2510F-VTNA	GT2508-VTBA GT2508-VTWA GT2508F-VTNA	GT2512-STBD GT2512F-STND	GT2510-VTBD GT2510-VTWD GT2510F-VTND	GT2508-VTBD GT2508-VTWD GT2508F-VTND	GT2505-VTBD
Input Power Supply Voltage		100 to 240VAC (+10%, -15%)			24VDC (+25%, -20%)			24 VDC (+10%, -15%)
Input Power Supply Frequency		50/60Hz ±5%			-			
Power Consumption	Maximum Load	35W or less	34W or less	31W or less	37W or less	33W or less	31W or less	8.4 W or less
	Stand Alone	14W	12W	11W	13W	10W	8W	4.3 W
	Stand Alone with Backlight Off	7W	7W	7W	6W	6W	6W	2.6 W
Inrush Current		60A or less (2ms, ambient temperature 25°C, maximum load)			5A or less (20ms, ambient temperature 25°C, maximum load)			42 A or less (2 ms, ambient temperature: 25°C, under the maximum load)
Permissible Instantaneous Failure Time		Within 20ms (100VAC or more)			Within 10ms			10 ms or less
Noise Resistance		Noise voltage 1500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz			Noise voltage 500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz			Noise voltage: 1000 Vp-p, noise width: 1 µs, measured by a noise simulator with noise frequency ranging from 30 Hz to 100 Hz
Withstand Voltage		1500 VAC for 1 minute between power supply terminal and ground			350 VAC for 1 minute between power supply terminal and ground			500 VAC for 1 minute across power terminals and earth
Insulation Resistance		10MΩ or higher with an insulation resistance tester (500 VDC between power supply terminal and ground)						
Applicable Wire Size		0.75 to 2 [mm²]						
Clamp Terminal		Clamp terminals for M3 screw RAV1.25-3, V2-S3.3, V2-N3A, FV2-N3A						
Tightening Torque (Terminal Block's Terminal Screws)		0.5 to 0.8 [N·m]						

GT25 Power Supply Specifications (continued)

Model Number		GT2510-WXTBD • GT2510-WXTSD	GT2507-WTBD • GT2507-WTSD	GT2507T-WTSD
Input Power Supply Voltage		24VDC (+25%, -20%)		
Input Power Supply Frequency		-		
Power Consumption	Maximum Load	16 W or less	16 W or less	17 W or less
	Stand Alone	9 W or less	9 W or less	11 W
	Stand Alone with Backlight Off	5 W or less	5 W or less	7 W
Inrush Current		59 A or less (2 ms, ambient temperature: 25°C, under the maximum load)		
Permissible Instantaneous Failure Time		5 ms or less		
Noise Resistance		Noise voltage 500Vp-p, noise width 1μs by noise simulator with noise frequency 25 to 60Hz		
Withstand Voltage		350 VAC for 1 minute between power supply terminal and ground		
Insulation Resistance		10MΩ or higher with an insulation resistance tester (500 VDC between power supply terminal and ground)		
Applicable Wire Size		0.75 to 2 [mm²]		
Clamp Terminal		Solderless terminal for M3 screw RAV1.25-3, V2-S3.3, V2-N3A, FV2-N3A		
Tightening Torque (Terminal Block's Terminal Screws)		0.5 to 0.8 [N·m]		

GT25 Panel Cut Dimensions

Screen Size	Model	A	B	Remarks
12.1"	GT2512	302 (11.89)	228 (8.98)	Same dimensions as GT1685, GT1585, A985GOT
	GT2512F	214 (8.43)	269 (10.59)	-
10.4"	GT2510	289 (11.38)	200 (7.87)	Same dimensions as GT167_M, GT157_M, A97MGOT
	GT2510F	187 (7.36)	234 (9.21)	-
10.1"	GT2510-WX	243.5 (9.59)	185.5 (7.30)	Panel thickness 1.6 (0.06) to 4 (0.16)
7"	GT2507-W	180.5 (7.11)	133.5 (5.26)	
	GT2507T-W	197 (7.76)	141 (5.55)	Panel thickness 1.6 (0.06) to 4 (0.16)
8.4"	GT2508	227 (8.94)	176 (6.93)	Same dimensions as GT1665, GT1565
	GT2508F	158 (6.22)	194 (7.64)	-
5.7"	GT2505	156 (6.02)	121 (4.76)	Same dimensions as GT1455, GT1450

$A \, ^{+2 \, (0.08)}_{0 \, (0)}$

Panel opening

$B \, ^{+2 \, (0.08)}_{0 \, (0)}$

(unit: mm)

GT25 Performance Specifications

Model Number		GT2512-STBA GT2512-STBD	GT2512F-STNA GT2512F-STND	GT2510-VTBA GT2510-VTBD	GT2510-VTWA GT2510-VTWD	GT2510F-VTNA GT2510F-VTND	GT2510-WXTBD GT2510-WXTSD
Display Section (*1, *2)	Type	TFT color LCD					
	Screen Size	12.1"		10.4"			10.1" Wide
	Resolution (Dots)	800 x 600 dots SVGA		640 x 480 VGA			WXGA: 1280 × 800 dots
	Display Size (W x H) mm	246 x 184.5		211.2 x 158.4			216.96 x 135.6
	Number of Characters	16-dot standard font: 50 chars x 37 lines (2-byte) 12-dot standard font: 66 chars. x 50 lines (2-byte)		16-dot standard font: 40 chars. × 30 lines (2-byte) 12-dot standard font: 53 chars. × 40 lines (2-byte)			16-dot standard font: 80 characters × 50 lines (two-byte) 12-dot standard font: 106 characters × 66 lines (two-byte)
	Display Colors	65536 colors					
	Intensity Adjustment	32-level adjustment					
Backlight	Type	LED (not replaceable)					
	Life (*4)	Approx. 60000 hours or more (Time for display intensity reaches 50% at ambient temperature of 25°C)					Approx. 50000 h (operating ambient temperature: 25 °C, display intensity: 50%)
Touch Panel (*3)	Type	Analog resistive film					
	Key Size (Dots)	Minimum 2 x 2 dots (per key) (*8)					
	Simultaneous Press	Not available (*5) (only 1 point can be pressed)					
	Life	1 million times or more (operating force 0.98N or less)					
Panel Color		Black	-	Black	White	-	GT2510-WXTBD: Black GT2510-WXTSD: Silver
Memory	User Memory Capacity	Memory for storage (ROM): 32MB, Memory for operation (RAM): 80MB					Memory for storage (ROM): 32MB, Memory for operation (RAM): 128MB
	Life (No. of Writings)	100,000 times					
Internal Clock Accuracy		±90 sec/month (ambient temperature 25°C)					
Battery	Type	GT11-50BAT lithium battery					
	Life	Approx. 5 years (ambient temperature 25°C)					
Built-in Interface	RS-232	1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (male)					
	RS-422/485	1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (female)					
	Ethernet	1ch Data transfer method: 10BASE-T/100BASE-TX Connector shape: RJ-45 (modular jack)					2ch
	USB (Host)	2ch (front/rear face)	1ch (rear face)	2ch (front/rear face)	1ch (rear face)		
		Maximum transfer speed: High-Speed 480Mbps Connector shape: USB-A					
	USB (Device)	1ch (front face)	1ch (rear face)	1ch (front face)	1 channel (rear face)		1 ch (front face)
		Maximum transfer rate: High-Speed 480 Mbps Connector shape: USB Mini-B					
	SD Memory Card	1ch SDHC compliant (maximum 32GB)					
	Extension Interface	For communication unit/option unit mounting					-
	Side Interface	For installing a wireless LAN communication unit					
	Sound Output Interface	-					1 channel, WAV format (16 bits, 8 kHz/16 kHz, monoral) applicable plug: φ3.5 stereo mini-plug (3-prong)
Buzzer Output		Single tone (tone, tone length adjustable)					
Power LED		Emission color: 2 colors (blue, orange)					
Protective Construction		Front: IP67F (*6, *9) Inside control panel: IP2X	Front: IP67F (*7, *9) Inside control panel: IP2X	Front: IP67F (*6, *9) Inside control panel: IP2X		Front: IP67F (*7, *9) Inside control panel: IP2X	Front: IP67F (*6*9) In control panel: IP2X
External Dimensions (W x H x D) mm		316 x 246 x 52	311 x 237 x 54	303 x 218 x 52		298 x 209 x 54	252 x 194 x 48
Panel Cutout (W x H) mm		302 x 228	269 x 214	289 x 200		234 x 187	243.5 x 185.5
Weight (Excluding Mounting Brackets) kg		2.4		2.1			1.2
Applicable Software Package		GT Works3 Version1.122C or later	GT Works3 Version1.150G or later	GT Works3 Version1.112S or later		GT Works3 Version1.150G or later	GT Works3 Version 1.175H or later

Notes:
1. As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise a great number of display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged.
2. Flickering may occur due to vibration, shock, or the display colors.
3. 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
4. To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight.
5. 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.
6. To conform to IP67F, close the USB environmental protection cover by pushing the [PUSH] mark firmly. (To conform to IP2X, open the USB environmental protection cover.) 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.
7. To conform to IP67F attach the environmental protection sheet. 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.
8. 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 • Distance between keys: 16 dots or more
9. 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.

GT25 Performance Specifications (continued)

Model Number	GT2508-VTBA GT2508-VTBD	GT2508-VTWA GT2508-VTWD	GT2508F-VTNA GT2508F-VTND	GT2507-WTBD GT2507-WTSD	GT2507T-WTSD	GT2505-VTBD
Display Section (*1, *2) — Type	TFT color LCD					
Screen Size	8.4"			7" Wide		5.7"
Resolution (Dots)	640 x 480 VGA			WVGA:800 x 480 dots		640 x 480 VGA
Display Size (W x H) mm	170.9 x 128.2			152.40 x 91.44		115.2 x 86.4
Number of Characters	16-dot standard font: 40 chars. × 30 lines (2-byte); 12-dot standard font: 53 chars. × 40 lines (2-byte)			16-dot standard font: 50 characters × 30 rows (Two-byte characters) 12-dot standard font: 66 characters × 40 rows (Two-byte characters)		16-dot standard font: 40 chars. × 30 lines (2-byte); 12-dot standard font: 53 chars. × 40 lines (2-byte)
Display Colors	65536 colors					
Intensity Adjustment	32-level adjustment					
Backlight — Type	LED (not replaceable)					
Life (*4)	Approx. 60000 hours or more (Time for display intensity reaches 50% at ambient temperature of 25°C)			Approx. 50000 h (operating ambient temperature: 25°C, display intensity: 50%)		Approx. 60000 hours or more (Time for display intensity reaches 50% at ambient temperature of 25°C)
Touch Panel (*3) — Type	Analog resistive film					
Key Size (Dots)	Minimum 2 x 2 dots (per key) (*8)					
Simultaneous Press	Not available (*5) (only 1 point can be pressed)					
Life	1 million times or more (operating force 0.98N or less)					
Panel Color	Black	White	-	GT2507-WTBD: Black GT2507-WTSD: Silver	Silver	Black
Memory — User Memory Capacity ROM (Storage) RAM (Operation)	ROM: 32MB; RAM: 80MB			ROM: 32MB; RAM: 128MB		ROM: 32MB; RAM: 80MB
Life (No. of Writings)	100,000 times					
Internal Clock Accuracy	±90 sec/month (ambient temperature 25°C)					
Battery — Type	GT11-50BAT lithium battery					
Life	Approx. 5 years (ambient temperature 25°C)					
Built-in Interface — RS-232	1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (male)					
RS-422/485	1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (female)					
Ethernet	1ch			2ch		1ch
USB (Host)	2ch (front/rear face)	1ch (rear face)				
	Maximum transfer speed: High-Speed 480Mbps Connector shape: USB-A					
USB (Device)	1ch (front face)	1ch (rear face)		1ch (front face)	1ch (rear face)	1ch (front face)
	Maximum transfer rate: High-Speed 480 Mbps Connector shape: USB Mini-B					
SD Memory Card	1ch SDHC compliant (maximum 32GB)					
Extension Interface	For communication unit/option unit mounting			-	-	-
Side Interface	For installing a wireless LAN communication unit					-
Sound Output Interface	-			1 channel, WAV format (16 bits, 8 kHz/16 kHz, monoral) applicable plug: ø3.5 stereo miniplug (3-prong)		-
Buzzer Output	Single tone (tone, tone length adjustable)					
Power LED	Emission color: 2 colors (blue, orange)					
Protective Construction	Front: IP67F (*6, *9) Inside control panel: IP2X		Front: IP67F (*7, *9) Inside control panel: IP2X	Front: IP67F (*6*9) In control panel: IP2X	Front: IP66F / IP67F (*9) In control panel: IP2X	Front: IP67F (*7, *9) Inside control panel: IP2X
External Dimensions (W x H x D) mm	241 x 194 x 52		236 x 185 x 54	189 x 142 x 48	214 x 158 x 55	164 x 139 x 53.5
Panel Cutout (W x H) mm	227 x 176		194 x 158	180.5 x 133.5	197 x 141	153 x 121
Weight (Excluding Mounting Brackets) kg	1.5			0.75	1.2	0.6
Applicable Software Package	GT Works3 Version1.112S or later		GT Works3 Version1.150G or later	GT Works3 Version 1.175H or later		GT Works3 Version1.180N or later

Notes:
1. As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise a great number of display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged.
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5. 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.
6. To conform to IP67F, close the USB environmental protection cover by pushing the [PUSH] mark firmly. (To conform to IP2X, open the USB environmental protection cover.) 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.
7. To conform to IP67F attach the environmental protection sheet. 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.
8. 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 • Distance between keys: 16 dots or more
9. 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.