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GOT1000 Series

GT16 Model

GT16 Model
GT14 Model
GT11 Model
GT10 Model
Handy GOT
Peripheral Equipment

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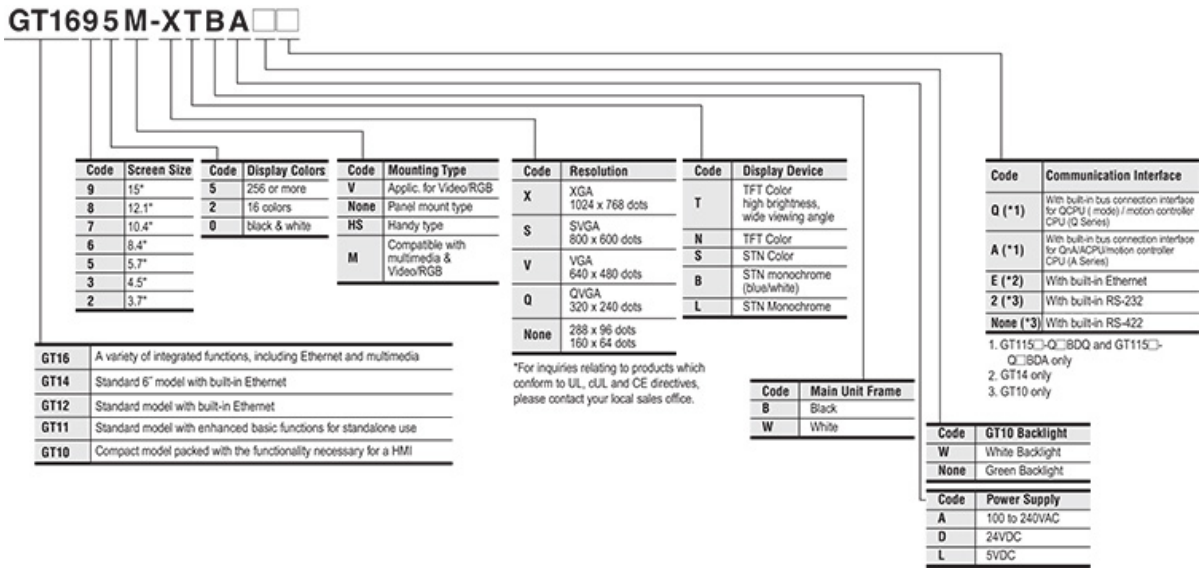
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GT16 Model

(12/30/2016)



GOT1000 General Specifications

Model Number		GT16, GT14, GT12, GT10				
Operating Ambient Temp. (*1)	Display	0 to 50°C				
	Other Than Display	0 to 55°C				
Storage Ambient Temperature		-20°C to 60°C				
Operating Ambient Humidity (*2)		10 to 90%RH, no condensation				
Storage Ambient Humidity (*2)		10 to 90%RH, no condensation				
Vibration Resistance (*3)	Conforming to JIS B 3502 and IEC 61131-2		Frequency	Acceleration	Half Amplitude	Sweep Count
		Under intermittent vibration	5 to 9Hz	-	3.5mm	10 times in each of X, Y and Z directions
			9 to 150Hz	9.8m/s²	-	
		Under continuous vibration	5 to 9Hz	-	1.75mm	
			9 to 150Hz	4.9m/s²	-	
Impact Resistance	Conforming to JIS B 3502 and IEC 61131-2 (147m/s², 3 times in each of X, Y and Z directions)					
Operating Atmosphere	No corrosive gas					
Operating Altitude (*4)	2000m or less					
Installation Location	In control panel					
Overvoltage Category (*5)	II or lower					
Contamination Level (*6)	2 or less					
Cooling Method	Self-cooling					

Notes:

- When an extension unit is mounted on the MELSECNET/H communication unit (GT15-J71LP23-25 or GT15-J71BR13) or CC-Link communication unit (GT15-J61BT13), the operating ambient temperatures are 5°C lower than the maximum temperatures shown in the general specifications table.
- Water bulb temperature for STN display type must be 39°C or lower.
- Refer to the Communication Unit User's Manual for vibration resistance specifications when using the MELSECNET/10 communication unit (GT15-75J71LP23-Z or GT15-75J71BR13-Z) or CC-Link communication unit (GT15-75J61BT13-Z). (The specifications of communication units are different from those of the GOT main unit.)
- Do not operate or store the GOT unit in pressurized environments where the pressure exceeds the 0m elevation atmospheric pressure, as this could result in abnormal operation.

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- Assuming that the device is connected at some point between a public power distribution network and local system equipment. Category II applies to devices that are supplied with power from fixed equipment. The surge withstand voltage is 2500V for devices with ratings up to 3000V.
- Index that indicates the level of foreign conductive matter in the operating environment of device. Contamination level 2 denotes contamination by non-conductive matter only, though momentary conductivity may occur due to occasional condensation.

GT16 Base Units

Model Number		Screen Size (Resolution)	Display	Display Colors (Number of Colors)	Power Supply	Memory Size	Stk. Item
GT1695	GT1695M-XTBA	15" 1024 x 768 dots	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC	15MB	S
	GT1695M-XTBD				24VDC		S
GT1685	GT1685M-STBA	12.1" 800 x 600 dots	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC		S
	GT1685M-STBD				24VDC		S
GT167_	GT1675M-STBA	10.4" 800 x 600 dots	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC		S
	GT1675M-STBD				24VDC		S
	GT1675M-VTBA	10.4" 640 x 480 dots			100-240VAC		S
	GT1675M-VTBD				24VDC		S
	GT1675-VNBA	10.4" 640 x 480 dots	TFT color LCD	4,096 colors	100-240VAC	11MB	S
	GT1675-VNBD				24VDC		S
	GT1672-VNBA		TFT color LCD	16 colors	100-240VAC		S
	GT1672-VNBD				24VDC		S
GT166_	GT1665M-STBA	8.4" 800 x 600 dots	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC	15MB	S
	GT1665M-STBD				24VDC		S
	GT1665M-VTBA	8.4" 640 x 480 dots			100-240VAC		S
	GT1665M-VTBD				24VDC		S
	GT1662-VNBA	8.4" 640 x 480 dots	TFT color LCD	16 colors	100-240VAC	11MB	S
	GT1662-VNBD				24VDC	11MB	S
GT165_	GT1655-VTBD	5.7" 640 x 480 dots	TFT color LCD	65,536 colors	24VDC	15MB	S

GT16 Power Supply Specifications

Model Number	GT1695M-XTBA	GT1685M-STBA	GT1675M-STBA GT1675M-VTBA GT1675-VNBA GT1672-VNBA GT1665M-STBA GT1665M-VTBA GT1662-VNBA	GT1695M-XTBD	GT1685M-STBD	GT1675M-STBD GT1675M-VTBD GT1675-VNBD GT1672-VNBD GT1665M-STBD GT1665M-VTBD GT1662-VNBD	GT1655-VTBD
Input Power Supply Voltage	100 to 240VAC (+10%, -15%)			24VDC (+25%, -20%)			24VDC (+25%, -20%)
Input Frequency	50/60Hz ±5%			-			-
Input Maximum Voltampere	150VA (at max. load)	110VA (at max. load)	100VA (at max. load)	-			-
Power Consumption	64W or less	46W or less	39W or less	60W or less	40W or less	38W or less	16W

Model Number	GT1695M-XTBA	GT1685M-STBA	GT1675M-STBA GT1675M-VTBA GT1675-VNBA GT1672-VNBA GT1665M-STBA GT1665M-VTBA GT1662-VNBA	GT1695M-XTBD	GT1685M-STBD	GT1675M-STBD GT1675M-VTBD GT1675-VNBD GT1672-VNBD GT1665M-STBD GT1665M-VTBD GT1662-VNBD	GT1655-VTBD
Power Consumption W/ Backlight Off	38W or less	32W or less	30W or less	30W or less	26W or less	27W or less	14W
Inrush Current	28A or less (4ms, at max. load)			12A or less (75ms, at max. load)	12A or less (55ms, at max. load)		67A or less (1ms, at max. load)
Permissible Instant. Failure Time	Within 20ms (100VAC or more)			Within 10ms			Within 10ms
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 500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz
Withstand Voltage	1500VAC for 1 minute between power supply terminal and ground for 1 minute			500VDC for 1 minute between power supply terminal and ground			
Insulation Resistance	10MΩ or higher with an insulation resistance tester (500VDC 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]						

GT16 Performance Specifications

Model Number		GT1695M-XTBA GT1695M-XTBD	GT1685M-STBA GT1685M-STBD	GT1675M-STBA GT1675M-STBD	GT1675M-VTBA GT1675M-VTBD	GT1675-VNBA GT1675-VNBD	GT1672-VNBA GT1672-VNBD
Display (1*)	Type	TFT color LCD (high-brightness, wide viewing angle)				TFT color LCD	
	Screen Size	15"	12.1"	10.4"			
	Resolution (Dots)	1024 x 768 XGA	800 x 600 SVGA		640 x 480 VGA		
	Display Size (W x H) mm	304.1 x 228.1	246 x 184.5	211 x 158			
	Number of Displayed Characters	16-dot standard font: 64 chars. x 48 lines (2-byte) 12-dot standard font: 85 chars. x 64 lines (2-byte)	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. x 30 lines (2-byte) 12-dot standard font: 53 chars. x 40 lines (2-byte)		
	Display Colors	65,536				4,096 colors	16 colors
	View Angle (*2)	Right/left: 75°, Up: 50°, Down: 60°	Right/left: 80°, Up: 60°, Down: 80°	Up/down/right/left: 88°		Right/left: 45°, Up: 30°, Down: 20°	
	Intensity (cd/m²)	450	470	400	450	200	
	Intensity Adjustment	8-step adjustment				4-step adjustment	
	Life	Approx. 52,000 hours (operating ambient temperature: 25°C)		Approx. 43,000 hours (operating ambient temperature: 25°C)		Approx. 52,000 hours (operating ambient temperature: 25°C)	
Backlight	Backlight	Cold-cathode fluorescent tube (replaceable), with backlight OFF detection function. Backlight off time and screen save time can be set.					
	Life (*3)	Approx. 50,000 hours or more (Time for display intensity reaches 50% at operating ambient temperature of 25°C)					
Touch	Type	Analog resistive type					

Panel (*6) Model Number		GT1695M-XTBA GT1695M-XTBD	GT1685M-STBA GT1685M-STBD	GT1675M-STBA GT1675M-STBD	GT1675M-VTBA GT1675M-VTBD	GT1675-VNBA GT1675-VNBD	GT1672-VNBA GT1672-VNBD
	Key Size (Dots)	Min. 2 x 2 (per key)					
	No. of Simultaneous Touch Pts.	Simultaneous touch prohibited (1 point only)					
	Life	1,000,000 times or more (operating force 0.98N or less)					
Human Sensor	Detection Distance (m)	1		-			
	Detection Range	Right/left/up/down: 70°		-			
	Detection Delay Time (Sec)	0 to 4		-			
	Detection Temperature	Temperature difference between human body and ambient air: 4°C or higher		-			
Memory	C Drive	15MB built-in flash memory (for saving project data, extended function OS/optional function OS)				11MB built-in flash memory	
	Life (No. Of Writings)	100,000 times					
Battery	Battery	GT15-BAT type lithium battery (optional)					
	Backed Up Data	Clock data and maintenance time notification data, system log data					
	Life	Approx. 5 years (operating ambient temperature: 25°C)					
Built-in Interface	RS-232	RS-232, 1ch. Transmission speed: 115200/57600/38400/19200/9600/4800 bps; Connector shape: D-sub 9-pin (male); Application: Communication with connected devices, connection to personal computer; (project data upload/download, OS installation, FA transparent function)					
	RS-422/485	RS-422/485, 1ch. Transmission speed: 115200/57600/38400/19200/9600/4800 bps; Connector shape: 14-pin (female); Application: Communication with a controller					
	Ethernet	Data transfer method: 100BASE-TX, 1 ch.; Connector shape: RJ-45 (modular jack); Application: Communication with a controller, using the gateway function, or connection to personal computer; (project data upload/download, OS installation, MES interface function)					
	USB	USB (full speed: 12 Mbps), host 1ch.; Connector shape: TYPE-AApplication: Data transfer, data storage					
		USB (full speed: 12 Mbps), device 1ch. Connector shape: TYPE Mini-B; Application: Connection to personal computer (project data upload/download, OS installation, FA transparent function)					
	CF Card	Compact flash slot, 1ch. Connector shape: TYPE I Application: Data transfer and storage, GOT start-up					
	Optional Function Board	1ch for optional function board installation					
	Extension Unit	2ch for communication unit/optional unit installation					
Buzzer Output		Single tone (tone length adjustable)					
Protective Construction		Outside the enclosure: IP67 Inside the enclosure: IP2X (*4, *5)					
External Dimensions (W x H x D) mm		397 x 296 x 61	316 x 242 x 52	303 x 214 x 49			
Panel Cutout (W x H) mm		383.5 x 282.5	302 x 228	289 x 200			
Weight (Excluding Mounting Brackets) (kg)		5.0	2.7	2.1		2.3	
Applicable Software Package		GT Works3 Version1.17T or later					

Notes:

- On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear. Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero. Note that the existence of bright and black dots is a standard characteristic of LCD screens, and it does not mean that the products are defective or damaged.
- LCD panels have characteristics of tone reversal. Note that even within the indicated view angles, the screen display may not be clear enough depending on the display color.
- Using the GOT screen save/backlight OFF functions prevents screen burn-in and extends backlight life.
- With the USB environmentally protective cover is on, pressing firmly the portion marked “[“ makes it conform to IP67f (JEM1030). (The USB interface conforms to IP2X (JEM1030) when a USB cable or a USB memory is connected.) However, this does not guarantee protection in all users’ environments. The unit may not be used in an environment where it is exposed to splashing oil or chemicals for a long time or it is soaked with oil mist.
- The degree of protection is not guaranteed under all users’ environmental conditions. If the interface protective cover or the rear face protective cover is removed, the specification does not apply.
- If necessary, use a stylus pen meeting the following specifications. Material: Polyacetal resin; Pen point radius: 0.8mm or more

GT16 Performance Specifications continued

Model Number		GT1665M-STBA GT1665M-STBD	GT1665M-VTBA GT1665M-VTBD	GT1662-VNBA GT1662-VNBD	GT1655-VTBD
Display (*1)	Type	TFT color LCD (high-brightness, wide viewing angle)		TFT color LCD	TFT color LCD (high-brightness, wide viewing angle)
	Screen Size	8.4″			5.7″
	Resolution	SVGA: 800 x 600	VGA: 640 × 480		VGA: 640 x 480
	Display Size (W x H) mm	171 x 128			115 x 86
	Number of Displayed Characters	16-dot standard font: 50 chars. × 37 lines (2-byte) 12-dot standard font: 66 chars. × 50 lines (2-byte)	16-dot standard font: 40 chars. × 30 lines (2-byte) 12-dot standard font: 53 chars. × 40 lines (2-byte)		
	Display Colors	65,536		16 colors	65,535
	View Angle (*2)	Right/left: 80°, Up: 80°, Down: 60°		Right/left: 45°, Up/Down: 20°	Up, Down: 80°
	Intensity (cd/m²)	450	470	400	350
	Intensity Adjustment	8-step adjustment		4-step adjustment	8-step adjustment
	Life	Approx. 43,000 hours (operating ambient temperature: 25°C)		Approx. 52,000 hours (operating ambient temperature: 25°C)	Approx. 50,000 hours (operating ambient temperature: 25°C)
Backlight	Backlight	Cold-cathode fluorescent tube (replaceable), with backlight OFF detection function. Backlight off time and screen save time can be set.			LED Backlight off time and screen save time can be set.
	Life (*3)	Approx. 50,000 hours or more		Approx. 40,000 hours or more	Approx. 70,000 hours or more
		(Time for display intensity reaches 50% at operating ambient temperature of 25°C)			
Touch Panel (*6)	Type	Analog resistive type			
	Key Size (Dots)	Min. 2 x 2 (per key)			
	No. of Simultaneous Touch Pts.	Simultaneous touch prohibited (1 point only)			
	Life	1,000,000 times or more (operating force 0.98N or less)			
Human Sensor	Detection Distance (m)	-			
	Detection Range	-			
	Detection Delay Time (Sec)	-			
	Detection Temperature	-			
Memory	C Drive	15MB built-in flash memory		11MB built-in flash memory	15MB built-in flash memory
		For saving project data, extended function OS/optional function OS			
	Life (No. Of Writings)	100,000 times			
Battery	Battery	GT15-BAT type lithium battery (optional)			
	Backed Up Data	Clock data, maintenance time notification data, system log data and SRAM user area (500KB)			
	Life	Approx. 5 years (operating ambient temperature: 25°C)			
Built-in Interface	RS-232	RS-232, 1ch. Transmission speed: 115200/57600/38400/19200/9600/4800 bps; Connector shape: D-sub 9-pin (male); Application: Communication with connected devices, connection to personal computer; (project data upload/download, OS installation, FA transparent function)			
	RS-422/485	RS-422/485, 1ch. Transmission speed: 115200/57600/38400/19200/9600/4800 bps; Connector shape: 14-pin (female); Application: Communication with a controller			
	Ethernet	Data transfer system: 100BASE-TX, 10BASE-T, 1ch; Connector shape: RJ-45 (modular jack); Application: Communication with connected devices, gateway function, connection to personal computer (project data upload/download, OS installation, MES interface function)			
	USB	USB (full-speed 12Mbps), host 1ch Connector shape: TYPE-A; Application: Data transfer and storage			
		USB (full-speed 12Mbps), device 1ch Connecter shape: TYPE Mini-B; Application: Connection to personal computer (project data upload/download, OS installation, FA transparent function)			
	CF Card	Compact flash slot, 1ch Connector shape: TYPE 1; Application: Data transfer, data storage, GOT startup			

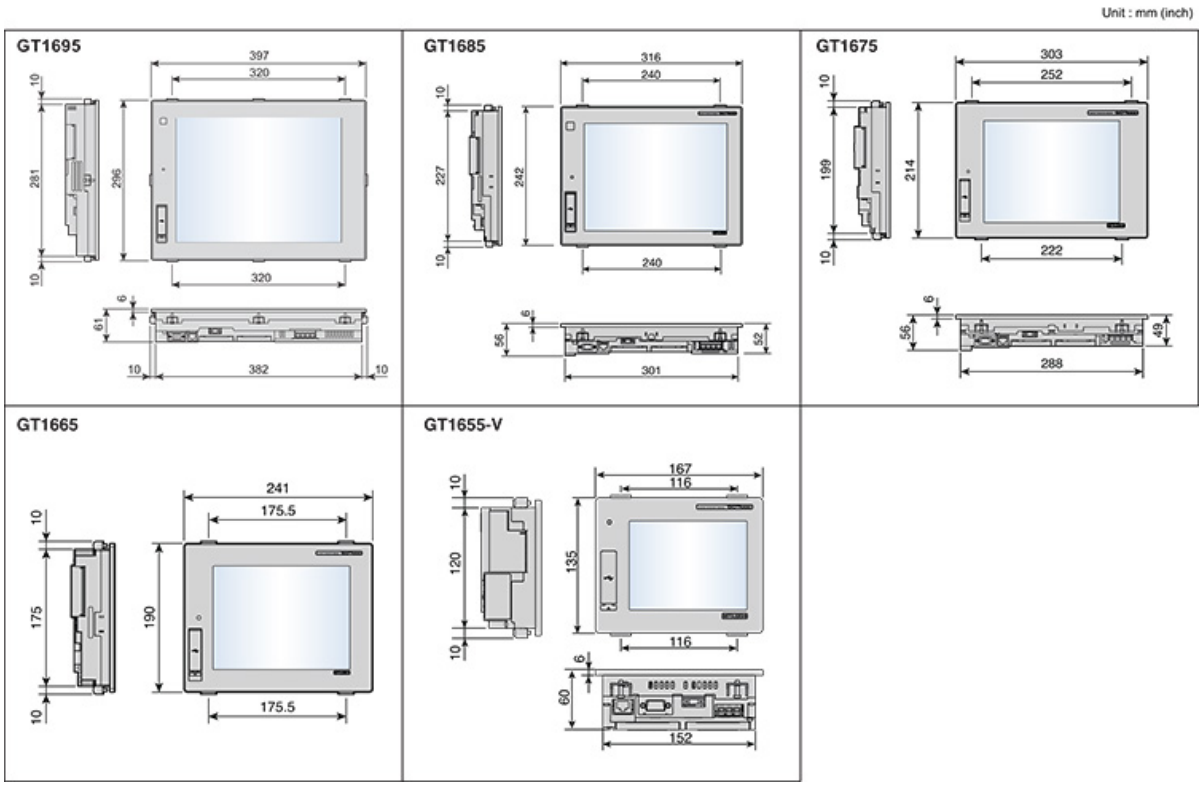
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Model Number		GT1665M-STBA GT1665M-STBD	GT1665M-VTBA GT1665M-VTBD	GT1662-VNBA GT1662-VNBD	GT1655-VTBD
	Optional Function Board	1ch for optional function board installation			
	Extension Unit	2ch for communication unit/optional unit installation			
Buzzer Output		Single tone (tone length adjustable)			
Protective Construction		JEM1030 Front: IP67f In panel: IP2X (*4, *5)			
External Dimensions (W x H x D) mm		241 x 190 x 52			167 x 135 x 60
Panel Cutout (W x H) mm		227 x 176			155 x 121
Weight (Excluding Mounting Brackets) (kg)		1.7		1.8	1.0
Applicable Software Package		GT Works3 Version 1.17T or later			GT Works3 Version 1.26C or later

Notes:

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- The degree of protection is not guaranteed under all users' environmental conditions. If the interface protective cover or the rear face protective cover is removed, the specification does not apply.
- If necessary, use a stylus pen meeting the following specifications. Material: Polyacetal resin; Pen point radius: 0.8mm or more

GT16 Dimensions



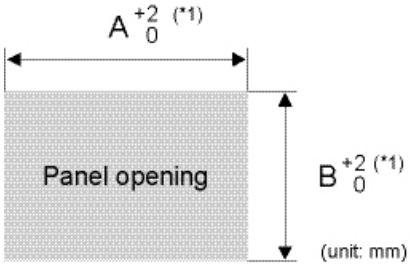
Panel Cutout

Screen Size	GOT Type	A	B

Screen Size	GOT Type	A	B
15"	GT1695	383.5	282.5
12.1"	GT1685	302	228

Notes:

- Same dimensions as A975/970GOT(-B)
- Same dimensions as F940GOT



With CF Card Extension Unit

Type	A	B
GT15-CFEX-C08SET	94.0	33.0

GOT1000 Series Cables

GOT1000 Series Options

GOT1000 Series Communication Interfaces

page top

Home Products Human-Machine Interfaces (HMIs)-GOT GOT1000 Series GT16 Model

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