

MITSUBISHI
GT12

Supplementary Description
GT1275-VNBA
GT1265-VNBA

Thank you for purchasing the GOT1000 Series.

Prior to use, please read both this manual and the detailed manual thoroughly to fully understand the product.

MODEL	GT12-U-TUIKA- E
	SH(NA)-080864ENG-A(0910)MEE

GRAPHIC OPERATION TERMINAL
GOT1000

Manuals

The following shows manuals relevant to this product.

Manual name	Manual number (Model code)
GT16 User's Manual (Sold separately)*1	SH-080778ENG (1D7M88)
GT11 User's Manual (Sold separately)*1	JY997D17501A (09R815)
GT Designer3 Version1 Screen Design Manual (Fundamentals) (Sold separately)*1	SH-080866ENG (1D7MB9)
GT Designer3 Version1 Screen Design Manual (Functions) 1/2, 2/2 (Sold separately)*1	SH-080867ENG (1D7MC1)
GOT1000 Series Connection Manual (Mitsubishi Products) (Sold separately)*1	SH-080868ENG (1D7MC2)
GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) (Sold separately)*1	SH-080869ENG (1D7MC3)
GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) (Sold separately)*1	SH-080870ENG (1D7MC4)
GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) (Sold separately)*1	SH-080871ENG (1D7MC5)
GOT1000 Series Gateway Functions Manual (Sold separately)*1	SH-080858ENG (1D7MA7)
GOT1000 Series User's Manual (Extended Functions, Option Functions) (Sold separately)*1	SH-080863ENG (1D7MB3)
GT12 General Description (Included with GOT)	IB-0800448ENG (1D7MB4)

*1 It is stored as a PDF on the GT Works3 CD-ROM.

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1. OVERVIEW

This manual is a supplementary description concerning the different functions between GT1275-VNBA, GT1265-VNBA (abbreviated as GT12 below) and GT1155-QSBD, GT1155-QLBD (abbreviated as GT11 below). Please refer to the GT16 and GT11 manuals for details of the installation method, wiring method, and utility function.

The GT12 model only has the standard functions available. The following comparison with GT11 shows how it differs. (Please refer to the function comparison 2.GT12 and GT11 for further details.)

- (1) Preinstalled with Chinese (simplified characters) font
Chinese (simplified characters)/Chinese (traditional characters)/Japanese can be selected as the standard character font initiated during the GOT start-up (The first start-up after purchasing the product).
You can change the font by re-installing the font with GT Designer3.
- (2) Using the analog touch panel
You can improve operability by using the analog touch panel.
- (3) Option functions available on the standard
It is not necessary to top mount an option function control board in order to use the option functions.
- (4) Large model line up
For screen sizes, there is a 10.4 type (for GT1675) and an 8.4 type (for GT1665) available for large models.
- (5) Expanding user memory
On the GT11, the capacity for the user memory is 3MB, whereas it is possible to use 9MB on the GT12 for user memory.
- (6) USB interface
The USB interface can be found on the rear side.
- (7) CF card interface
The CF card interface can be found on the rear side.
- (8) Ethernet interface
The Ethernet interface can be found on the rear side.

2. SPECIFICATION FUNCTION COMPARISON FOR GT12 AND GT11

The table overview shows the different specifications and functions available on the GT12 and the GT11. Please refer to the appropriate manual for further details on each function.

(1) Hardware comparison
The following shows the differences in hardware on the GT12 and the GT11.

○ : Supported × : Not supported - : Not necessary

Item	GT12		GT11		Relevant manual	
	GT1275-VNBA	GT1265-VNBA	GT1155-QSBD	GT1155-QLBD		
Display section	Type	TFT color liquid crystal display		STN color liquid crystal display	STN monochrome liquid crystal display (white/black)	GT11 User's Manual
	Screen size	10.4"	8.4"	5.7"		
	Resolution	640 × 480 [dots]		320 × 240 [dots]		
	Display size	211(8.31)(W) × 158(6.22)(H) [mm](inch)	171(6.73)(W) × 128(5.04)(H) [mm](inch)	115(4.53)(W) × 86(3.39)(H) [mm](inch)		
	Character display count	16-dot standard font: 40 characters 30 lines (2byte character) 12-dot standard font: 53 characters 40 lines (2byte character)		16-dot standard font: 20 characters 15 lines (2byte character) 12-dot standard font: 26 characters 20 lines (2byte character)		
	Color display	256 colors		256 colors	Monochrome (white/black) 16 Scales	
	Display angle	Left/Right: 45 degrees Top/Bottom: 20 degrees		Left/Right: 50 degrees Top: 50 degrees Bottom: 60 degrees	Left/Right: 45 degrees Top: 20 degrees Bottom: 40 degrees	
	Contrast adjustment	-		16-level adjustment		
	Intensity of LCD only	200[cd/m ²] (Adjustable in 4 levels)		380[cd/m ²] (Adjustable in 8 levels)	220[cd/m ²] (Adjustable in 8 levels)	
	Life	Approx. 52,000 h (Operating ambient temperature: 25°C)		Approx. 50,000 h (Operating ambient temperature: 25°C)		
Backlight	Life	Approx. 50,000 h or longer (Time when display luminance reaches 50% at the operating ambient temperature of 25°C)	Approx. 40,000 h or longer (Time when display luminance reaches 50% at the operating ambient temperature of 25°C)	Approx. 75,000 h or longer	Approx. 54,000 h or longer	GT16 User's Manual GT11 User's Manual
	Type	Analog resistive film		Matrix resistive film		
Touch panel	Number of touch keys	-		300 keys/screen (Matrix structure of 15 lines × 20 columns)		GT16 User's Manual GT11 User's Manual
	Key size	Minimum 2 × 2 [dots] (per key)		Maximum 16 × 16 [dots] (per key)		
	Number of objects that can be simultaneously touched	Simultaneous presses not allowed. (Only 1 point can be touched.)		Maximum of 2 points		
Memory	C drive	Built-in flash memory 9Mbytes ¹		Built-in flash memory 3Mbytes		GT11 User's Manual
	USB (device)	○ (Rear side)		○ (Front side)		
Built-in interface	Option function board	Option functions supported as standard		Option function board is necessary for option function use		GT16 User's Manual
	Ethernet	○		×		

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Item	GT12		GT11		Relevant manual
	GT1275-VNBA	GT1265-VNBA	GT1155-QSBD	GT1155-QLBD	
External dimensions	303(11.93)(W) × 214(8.43)(H) × 53(2.09)(D) [mm](inch)	241(9.49)(W) × 190(7.48)(H) × 58(2.29)(D) [mm](inch)	164(6.46)(W) × 135(5.32)(H) × 56(2.21)(D) [mm](inch)		GT11 User's Manual
Panel cutting dimensions	289(11.38)(W) × 200(7.87)(H) [mm](inch)	227(8.94)(W) × 176(6.93)(H) [mm](inch)	153 (6.03)(W) × 121(4.77)(H) [mm] (inch)		
Weight (mounting fixtures are not included)	2.3kg(5.1lb)	1.7kg(3.7lb)	0.7kg(1.5lb)		
Power supply	100 to 240VAC		DC24V		

*1: The limit for available storage for project data is 6M bytes.

(2) Option comparison
The following shows the differences in options on the GT12 and the GT11.

○ : Supported × : Not supported

Item	GT12		GT11		Relevant manual
	GT1275-VNBA	GT1265-VNBA	GT1155-QSBD	GT1155-QLBD	
Protective sheet	Clear	○ ^{*1}	○ (Pre-attached for shipment)		GT11 User's Manual
	Antiglare	×	GT11-50PSGB		
	Clear (Frame: white)	×	GT11-50PSCW		
	Antiglare (Frame: white)	×	GT11-50PSGW		
Battery	GT11-50BAT	○ ^{*1}	○ (Pre-attached for shipment)		
Attachment	GT15-70 ATT-98	○	×	×	GT16 User's Manual
	GT15-70 ATT-87	○	×	×	
	GT15-60 ATT-97	×	○	×	
	GT15-60 ATT-96	×	○	×	
	GT15-60 ATT-87	×	○	×	
	GT15-60 ATT-77	×	○	×	
Stand	GT15-70STAND		GT05-50STAND		GT16 User's Manual
Backlight	GT12-70VLTN	GT12-60VLTN	Replacement unavailable		GT11 User's Manual

*1: GOT automatically formats the D drive (SRAM) when battery is not attached. Please attach the battery to keep clock and alarm data.

(3) Function comparison
The following shows the differences in functions on the GT12 and the GT11. Please refer to the GT16 User's Manual for further details on the utility screen.

○ : Supported × : Not supported - : Not necessary

Item	GT12		GT11		Relevant manual
	GT1275-VNBA	GT1265-VNBA	GT1155-QSBD	GT1155-QLBD	
Shape	Rounded, rectangle	○	○		Screen Design Manual (Fundamentals)
GOT internal device	GB	65536 points	65536 points		
	GD	65536 points	65536 points		
Vertical format	×		○		
Screen changing	Memory card storage for screen transition history	○	○		
ASCII input/display	Text alignment	○	○		
Date display/time display	View format	Date: 20 types Time: 6 types	Date: 20 types Time: 6 types		
User alarm	Alarm (device) points	Maximum 8192	Maximum 8192		
	Alarm (device) points	3072	3072		
Alarm history	Alarm history recorded	D drive: 2048 records A drive: 3072 records	D drive: 2048 records A drive: 3072 records		
	File storage location	D drive, A drive	D drive, A drive		
Alarm display function	Popup display	Scrolling display			
Advanced alarm observation	Advanced user alarm function	○	×		Screen Design Manual (Functions)
	Advanced system alarm function	D drive, A drive (Number of alarms : 8)	×		
	Advanced system alarm function	D drive, A drive	×		
Line graph	Scale points	101	101		
Trend graph	Scale points	101	101		
Bar graph	Scale points	101	101		
Statistics bar graph	Scale points	101	101		
Statistics pie graph	Scale points	101	101		
Scatter graph	Scale points	101	101		
Circle graph	Scale points	101	101		

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Item	GT12		GT11		Relevant manual
	GT1275-VNBA	GT1265-VNBA	GT1155-QSBD	GT1155-QLBD	
Historical trend graph	○		×		Screen Design Manual (Functions)
Points	300 points		-		
Number of pens	8 lines		-		
Number of objects on a screen	1		-		
Logging function	○		×		
Cycle (logging trigger)	500ms (minimum value)		-		
Number of settings	4		-		
Recipe function	○*1		○*1		
Recipe count	8192 points is total for all recipe settings		8192 points per 1 recipe setting		
Recipe file storage location	D drive, A drive		D drive, A drive		
Bar code function	○		○		GT16 User's Manual
RFID function	○		○		
Hard copy function*2	○		×		
Hard copy file storage location	A drive		-		
Maximum number of files	100		-		
FA transparent function	○		×		
GOT maintenance function	GOT start time	○	×		
Multi-channel function	○ (Maximum 2 ch.)		×		
FTP server function	○		×		
System monitoring function	○		×		
A list editor function	○*1		○*1		GOT1000 Series User's Manual (Extended Functions, Option Functions)
FX list editor function	○*1		○*1		
Back-up/restore function	○		×		GOT1000 Series User's Manual (Extended Functions, Option Functions)
GOT data package acquisition	○		×		
Software package support	GT Designer3 English version: Version 1.01B		GT Designer3 Japanese version: from Version 1.00A English version: from Version 1.01B GT Designer2 Japanese version: from Version 2.25B English version: from Version 2.27D		-

*1: The option function control board is necessary for option function use on the GT11.
The option function control board is not necessary for use on the GT12.

*2: When the file number is between 90 and 100, the system signal 2-1.b12 (hard copy auxiliary signal) turns on.
The signal notifies that the number of files in a CF card has reached almost the maximum (100).

(4) GT Designer3 comparison

The following shows the differences in settings for GT Designer3 on the GT12 and the GT11.


When designing GT12 screens, BMP and JPEG format files can be used for Parts Display and Parts Movement images.

Item		GT12		GT11		Relevant manual
Model setting	GOT type	Model	GT12**-V(640 × 480)	GT11**-Q(320 × 240)	Screen Design Manual (Fundamentals)	
Model setting	GOT type	Setting / installation direction	Horizontal and vertical option not available	Horizontal and vertical option available		
		Color setting	256 colors	Monochrome 16 adjustment level, 256 colors		
Connection device setting	CH1	I/F	Standard I/F(RS422/485) Standard I/F(RS232) Standard I/F(Ethernet)	Standard I/F(RS422/232) Standard I/F(RS232)		
	CH2	I/F	Standard I/F(RS422/485) Standard I/F(RS232) Standard I/F(Ethernet)	I/F none		

(5) Installation comparison

The installation method of GT12 is the same as that for GT1155.


For details of the installation, refer to the following.

 GT11 User's Manual

(6) Wiring comparison

The wiring method of GT12 is the same as that for 100/200VAC of GT16.


For details of the wiring, refer to the following.

 GT16 User's Manual

(7) Utility function comparison

The operation method of the utility function of GT12 is the same as that for GT16.

For details on the operation method of the utility function, refer to the following.

 GT16 User's Manual

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For safe use

- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi.
- This product has been manufactured under strict quality control. However, when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

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