MITSUBISHI ELECTRIC
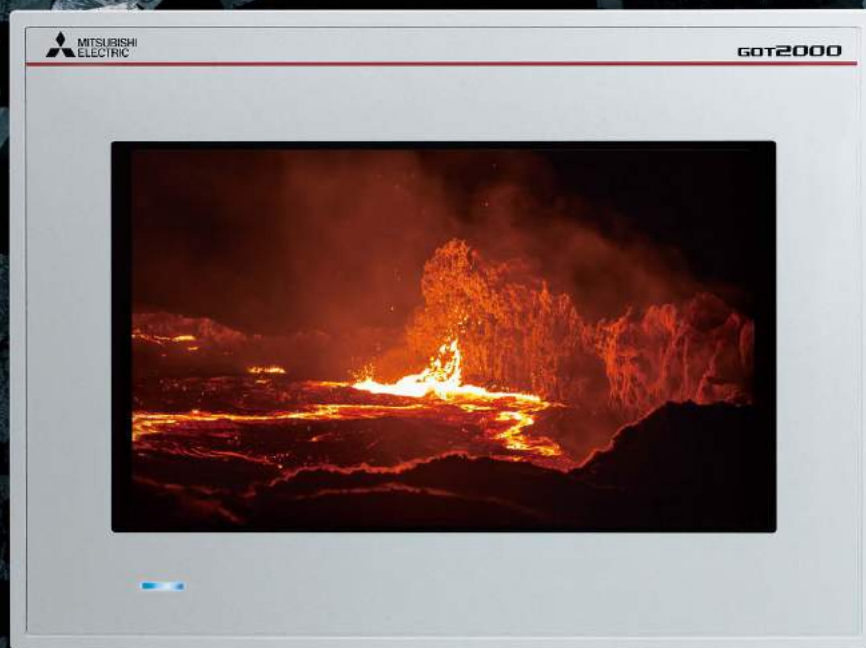
Changes for the Better

FACTORY AUTOMATION

e-F@ctory

Graphic Operation Terminal
GOT2000 Series Rugged Model

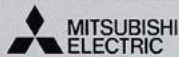*Designed for extreme environments*

GOT2000 *Rugged*

Graphic Operation Terminal

GT25 Rugged Model

With a larger working ambient temperature range and resistance to ultraviolet rays, the GT25 rugged model can be used even in harsh environments.

The stylish design features a silver tone metal housing.

GOT2000

Actual size:
214(8.43) (W) × 158(6.22) (H) × 55(2.17) (D) mm(inch)

Robust features

1	**Wide operating temperature range**	-20°C to 65°C
2	**High brightness, clear under daylight**	2x brighter than non-rugged models
3	**UV resistant**	Ultraviolet rays cut by approx. 95%
4	**Vibration and shock resistant**	2x stronger than non-rugged models
5	**Water jet resistant**	IP66F IP67F
6	**Compliant with standards**	Safety Standards / Maritime Certifications

See next page for details ▶ ▶

GT2507T-WTSD

7" widescreen	WVGA 800×480	TFT Color 65536 colors	24 V DC

Built-in interface

2 Ethernet ports	Wireless LAN communication unit interface
USB host & USB device	RS-232 / RS-422/485
SD memory card interface	Sound output interface

3

Features of the rugged model

1 Wide operating temperature range

The working ambient temperature has been expanded to -20°C to 65°C.
Now compatible with harsher environments, there's no need for heaters for low temperatures or fans or coolers for high temperatures.

**65°C**

-20°C

2 High brightness, clear under daylight

The high-brightness LCD panel (1000 cd/m^2*) provides a clear screen view even under strong sunlight.

* Brightness of independent panel.

Standard model

2x brighter than non-rugged models

Rugged model

Sunlight-resistant screen enables clear glare-free viewing!

3 UV resistant

Ultraviolet rays are cut by approximately 95% (370 nm) with a UV-cutting layer and UV-absorbing layer. Degradation of the LCD panel or touch panel caused by ultraviolet rays is reduced. Use the optional UV protection sheet to further improve resistance to ultraviolet rays.

Approx. 95% cut

Ultraviolet rays

UV-cutting layer

UV-absorbing layer
(PET film)
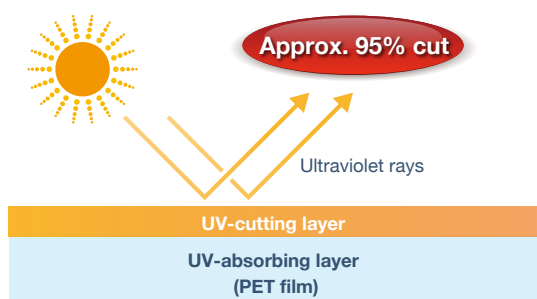
4 Vibration and shock resistant

Since the structure of the front panel has been reinforced with a metal housing, the rugged model can be used in environments that are subject to vibration or shock, such as construction equipment or snow plows.

2x stronger than non-rugged models

5 Water jet resistant

The GOT front panel complies with IP67F and IP66F, and can be washed with high pressure water. This model is perfect for use in food processing system, etc.

IP□6: protected against the effect of direct powerful water jets from any direction
IP□7: protected against the effect of temporary immersion in water

6 Compliant with standards

The range of supported countries and applications is expanding as the GOT2000 complies with various Japanese and international standards.

Europe
CE
ATEX Coming soon

Eurasian Economic Union
EAC

USA, Canada
UL/cUL
Class I, Division 2 Coming soon

South Korea
KC
KCs Coming soon

Various Maritime Certifications Coming soon

*For the details on the latest compliance to standards, please refer to the Mitsubishi Electric Factory Automation Global website (**www.MitsubishiElectric.com/fa/**).

See the following page for application examples ▶▶

Item	Specifications
Display	7" widescreen, TFT color LCD, 65536 colors
Resolution	WVGA 800 × 480 dots
Backlight	White LED
Panel color	Silver
Panel material	Aluminum
User memory	Memory for storage (ROM): 32 MB Memory for operation (RAM): 128 MB
Standard interface	Ethernet (2 ports), RS-232, RS-422/485 USB host (USB-A): 　1 channel (USB 2.0 (High-Speed 480 Mbps)) USB device (USB Mini-B): 　1 channel (USB 2.0 (High-Speed 480 Mbps)) Sound output interface (ϕ3.5 minijack), SD memory card interface, wireless LAN communication unit interface
Operating ambient temperature	-20 °C to 65 °C
Brightness (LCD panel)	1000 cd/m^2 (Typ)
UV cutoff	Approximately 95% (370 nm)
Protective structure	Front: IP66F, IP67F Inside control panel: IP2X
Vibration resistance	19.6 m/s^2 (continuous), 19.6 m/s^2 (intermittent)
Shock resistance	392 m/s^2 (40G)
Dedicated option	UV protective sheet, protective cover for oil, stand

Point!

■ External appearance [front face/rear face]

❶ GOT front face

The metal enclosure increases resistance against vibration and shock. Ultraviolet rays are cut by approximately 95% (370 nm). Also comply with IP66F and IP67F ratings.

❷ Ethernet interface (2 ports)

Use Ethernet to simultaneously connect to up to four types of industrial devices from different manufacturers. CC-Link IE Field Network Basic compatible devices can also be connected.

❸ RS-422/485 interface

Connect to various industrial devices and barcode readers.

❹ RS-232 interface

Connect to various industrial devices, barcode readers and serial printers.

❺ Sound output interface (ϕ3.5 minijack)

Output sound by connecting ϕ3.5 stereo mini-plug (3-prong).

❻ USB interface: host (USB-A)

Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory. A USB mouse, keyboard, barcode reader*, or RFID reader* can also be connected.

* USB keyboard (HID) compatible model only
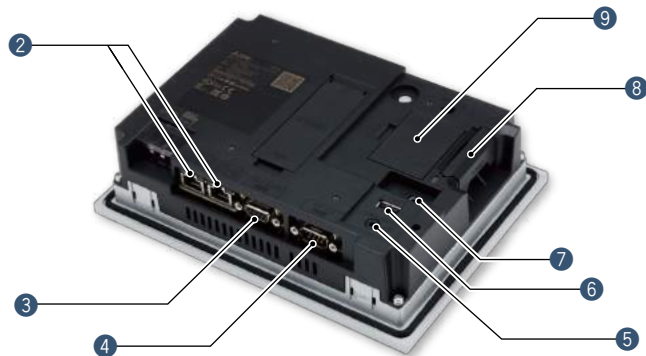
❼ USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.

❽ SD memory card interface

Save large volumes of data, including alarms and logging data.

❾ Wireless LAN communication unit interface

Mount a wireless LAN communication unit.

■ **Parking systems (parking tower, coin-operated parking, multi-storied parking, multi-storied bicycle parking, etc.)**

The rugged model can be widely used as operation panels for various parking lots and automatic parking fee machines.

`-20℃ to 65℃` `High-brightness LCD panel` `Ultraviolet ray resistant`

Recommended function: **GOT Mobile function**

Monitor the operation status and information on errors, etc., of the parking lot from an office or control center. There's no need to go to the site. Remote monitoring is possible with various information devices including personal computers and tablets.
→See page 8.

GOT **Mobile**

■ **Power conditioner**

The rugged model can be found in the energy monitoring system of power conditions installed outdoors.

`High-brightness LCD panel` `Ultraviolet ray resistant` `-20℃ to 65℃`

Recommended function: **Logging function, alarm function**

Data, such as energy information, can be collected using the logging function. When used together with the alarm function, the status can be easily grasped when alarms or errors occur.
→See page 8.

■ **EV charging stand**

The rugged model is adopted as the operation screen for outdoor EV charging stands.

`Ultraviolet ray resistant` `High-brightness LCD panel` `-20℃ to 65℃`

Recommended function: **Sound output function (audio guidance)**

Audio guidance can be played by connecting a speaker with amplifier to the standard sound output interface.
→See page 9.

Please read "Product application" in the Warranty on page 20 before using this product.

■ Heavy machinery (status monitor screen for power shovels, cranes, and snow plows, etc.)

The rugged model is suitable as a status monitor screen in heavy machinery that is used outdoors and is easily subject to vibration and shock.

| Vibration resistant, shock resistant | High-brightness LCD panel |
| -20℃ to 65℃ | Ultraviolet ray resistant | IP66F |

Recommended function: **Document display function**

When a problem occurs, PDF file format manuals can be confirmed with the GOT. Shorten time to recover from a problem by confirming recovery methods at the site.
→See page 8.

■ Food processing system

The rugged model is ideal as the operation panel for food processing systems that require high-pressure washing.

| IP66F | -20℃ to 65℃ | Flat operation screen |

Recommended function: **Operation authentication function, operation log function**

Operation and access authority can be set for each operator. The history of when, what, and how an operator performed operation can be recorded as history, and used to identify causes when a problem occurs.
→See page 9.

■ Ships `Coming soon`

The rugged model is suitable as a monitor screen for various ship operations (crane operations, etc.) and as the monitor screen in the pilothouse, where equipment is easily subject to vibration and shock.

| Brightness adjustment | Vibration resistant, shock resistant |
| -20℃ to 65℃ | Maritime certifications `Coming soon` |

Recommended function: **Brightness adjustment function**

The brightness adjustment mode can be switched between standard and low brightness, and the brightness can be adjusted in 32 levels in each mode. Select the brightness suitable for the application and place.
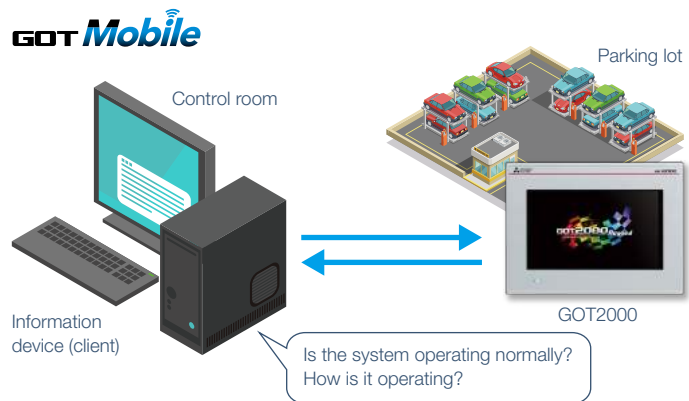→See page 9.

■ GOT Mobile function

Via GOT at the site, the operating status of parking lots can be monitored from multiple computers and tablets in a remote location. Web browsers are used so that no special applications are required. Up to five information devices (clients) can simultaneously access a single GOT and each device can display different screen.
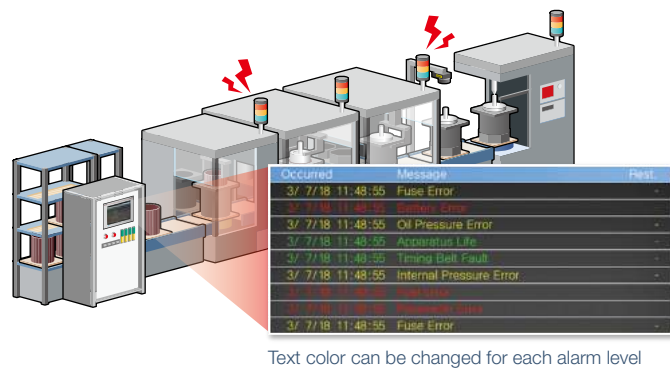
* The GOT Mobile function license (GT25-WEBSKEY-□) is required separately.
* Browsers (Google Chrome or Safari) are required on information devices.

GOT Mobile

Control room

Parking lot

Information device (client)

GOT2000

Is the system operating normally? How is it operating?

■ Alarm function

GOT can be used to check alarms of connected devices. By showing alarms in different colors depending on the level and showing alarm details in a window screen, you can easily identify the cause of problem occurrence.

Occurred	Message	Rest
3/ 7/18 11:48:55	Fuse Error	
3/ 7/18 11:48:55	Battery Error	
3/ 7/18 11:48:55	Oil Pressure Error	
3/ 7/18 11:48:55	Apparatus Life	
3/ 7/18 11:48:55	Timing Belt Fault	
3/ 7/18 11:48:55	Internal Pressure Error	
3/ 7/18 11:48:55		
3/ 7/18 11:48:55		
3/ 7/18 11:48:55	Fuse Error	

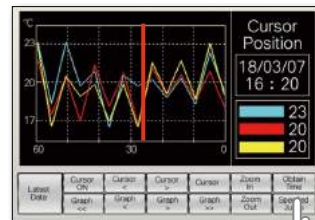Text color can be changed for each alarm level

■ Logging function

GOT collects the data from various devices such as programmable controllers and temperature controllers, and displays the collected data in a graph and list. By using with the alarm function, graphs can be displayed when an alarm occurs so that it is useful for identifying the problem cause.

Conveniently use with the alarm function

Display the graph recorded when the alarm occurred

Select an alarm from the list, and press the [Specified Jump] button

Cursor Position
18/03/07
16 : 20

Occurred	Message	Rest.	Check
18/03/07 16:20	Line A error		
18/03/07 13:53	Line B error	14:01	14:02

Locate a cursor at the position of the error found in the graph, and press the [Specified Jump] button

Display the alarm of the specified time

■ Document display function

GOT displays various kinds of documents such as operation manuals of an equipment. You can view PDF files and can instantly check the information you want with bookmark display and keyword searches.

Document display (vertical display)

Touch the PDF file and show switches

Bookmark window

GT Designer3 (GOT2 Screen Design Manua

Move to the page you want to display

Search window

Show search result (Retain up to 10 items)

Troubleshooting while checking manuals

Enter a keyword to move to a page containing the keyword

■ Sound output function (audio guidance)

The sound can be output from a speaker that is connected to GOT. The audio guidance and sound effects (alarms) can be played when touch switches are touched or set conditions are satisfied.

Open the charge port and start charging.

Recommended!

■ Sound files can be created easily   Speech synthesis function*

There are three types of sound files: messages, sound effects, and melodies. Messages can easily be created by entering arbitrary messages with GT Works3. Messages, sound effects, and melodies can be combined to make effective audio guidance.
→See page 11.

Message	Sound effect	Melody
Create from arbitrary text	More than 50 files are included	More than 10 files are included

* GT Works Text to Speech License (SW1DND-GTVO-M) is required separately.

■ Operator authentication function

Setting the operation authority and the viewing authority achieves "enhanced security" and allows "individual access control".

| Method ①	Method ②
Input an operator name and password for login	Use an ID card or ID tag for login

Login OK

Login failed

Not displayed
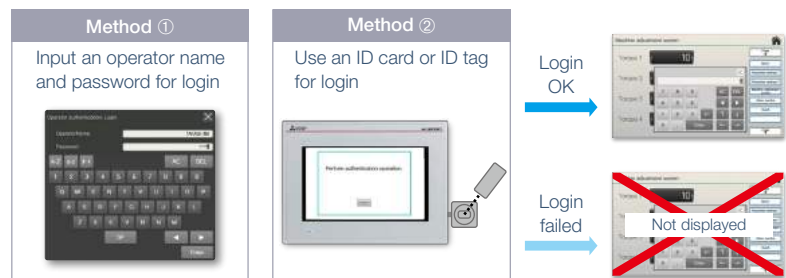
* Use of method ① combined with method ② is acceptable. Secure login management is achieved even when an external authentication device has failed.

■ Operation log function

GOT records the operation information, such as "what, when, and how" an operation was performed, in chronological order in an SD memory card or USB memory.

Conveniently use with the operator authentication function

Check the "who, what, when, and how" of an operation performed
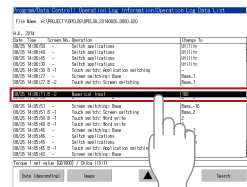
For more details

Check the brief information of the log in a list

Check the detailed information of the log

■ Brightness adjustment function

Brightness can be adjusted in the utility screen of GOT. The brightness adjustment mode can be switched between standard and low brightness, and the brightness can be adjusted in 32 levels in each mode.

High brightness
(standard mode, brightness 32)

Low brightness
(low brightness mode, brightness 32)

■ Just select a theme to create nice screens

Using [GOT Graphic Ver.2] of the graphic setting enables you to select your preferred design from various themes and set a beautiful background color.
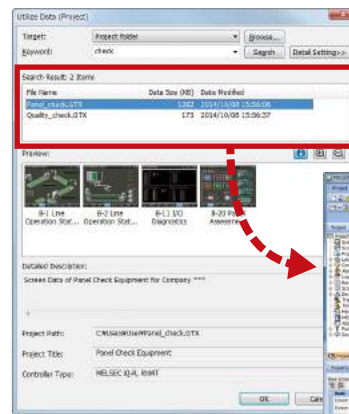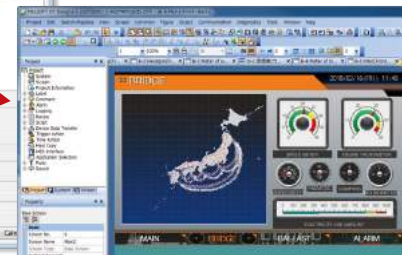
Select a favorite design

Screen with a beautiful gradation background

■ Reuse previous projects

Past projects can be utilized as is. The projects of a similar system configuration can be customized so that you can reduce time for screen creation.

Select a project from the list and utilize the whole data

■ Reuse previous screens

Individual screens can be utilized from sample screens* and past projects. The settings are also applied and reused by following the instructions in the wizard so that you can create project data easily.

* Various sample screens are included with GT Works3.

Easy searches from category lists

Various sample screens

Drag & drop

Utilization wizard
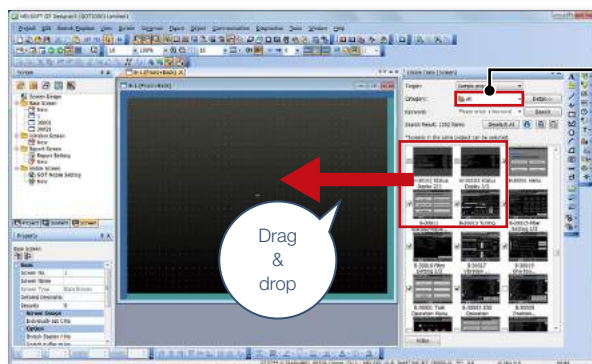
Multiple screens can be utilized simultaneously

Simple step navigation

■ Easily create stylish meters

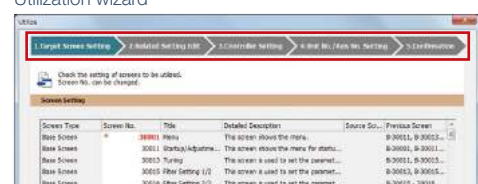Just select a meter from the preset list and you can create stylish, clear meters. The position and angle of scales can be adjusted by mouse operation and the shape and design can be changed easily. Warning color display indicates the machine status clearly.
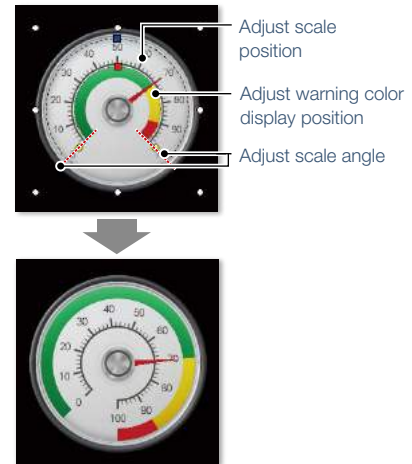
Select from the toolbar
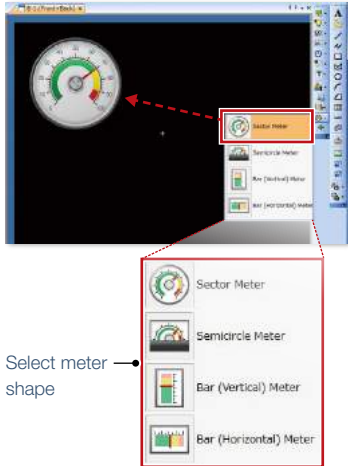
Select meter shape

Select from the preset list

The list includes various choices

Easy to adjust settings by mouse operation

Adjust scale position

Adjust warning color display position

Adjust scale angle

■ Easily create files for audio guidance

Just enter arbitrary text in GT Works3 to create a sound message that is output from GOT. The speaker (female/male), language, speed, pitch, and volume of the voice can be set. Messages can be created in 6 languages and you can create the sound notification system in multiple languages.

* To register or update messages, GT Works Text to Speech License (SW1DND-GTVO-M) is required.

Supported language

Male	Japanese	English	Chinese (Simplified)		Korean	Spanish
Female	Japanese	English	Chinese (Simplified)	Chinese (Traditional)	Korean	Spanish

Image of creating a sound file (message)

Create New Sound File

File No.: 1
Type: Message
Speaker: English (female)
Speed: 100 (Slow 50-400 Fast, Normal: 100)
Pitch: 80 (Low 50-200 High, Normal: 100)
Volume: 400 (Small 1-500 Large, Normal: 300)
Message: An error occurred.
Time: ---
OK Cancel
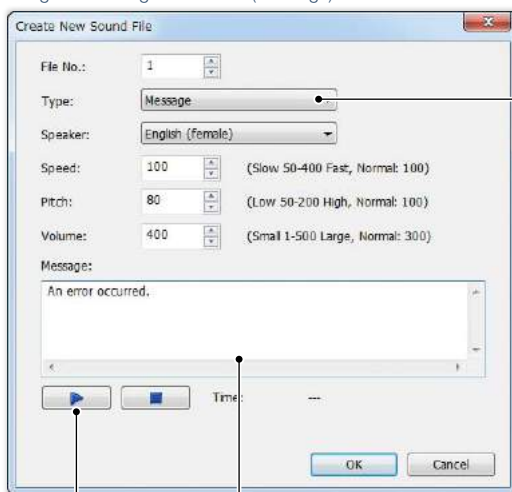
Select language and speaker (male/female)

An error occurred.
系统发生异常。
エラーが発生しました。

Playback and check the sound

Enter an arbitrary message

11

■ System configuration

Rear face

Wireless LAN communication unit interface

Wireless LAN communication unit* (option)

Wireless LAN compatible devices

* For the countries where the unit can be used, please refer to the product list on page 16.

SD memory card interface

SD memory card (option)

USB interface: device (USB Mini-B)

Personal computer GT Works3, etc.

USB interface: host (USB-A)

USB (host) compatible devices

Sound output interface (φ3.5 minijack)

Sound output devices (speaker with built-in amplifier)

RS-232 interface

Industrial devices, serial printer, etc.

RS-422/485 interface

Industrial devices, etc.

Ethernet interface `Port 1`

Ethernet

Personal computer, industrial devices, etc.

CC-Link IE Field Basic

Ethernet interface `Port 2`

CC-Link IE Field Network Basic compatible devices

* Both Ethernet interfaces (Port 1 and Port 2) can be used to connect to Ethernet compatible devices and CC-Link IE Field Network Basic compatible devices.

12

Communication units and options usable with the rugged model can be used in the environment described in the general specifications of the rugged model on page 14. For using peripheral devices to be connected to the GOT, please refer to the relevant product manual.

Specification comparison

For details of functions, supported controllers, connection types, and required options, please refer to the relevant manual or Help of the GOT2000 Series.

■ Comparison of specifications with standard models and wide models

●: Supported　—: Not supported

Item		Necessary devices[1]	GT25 rugged model	GT27	GT25[6]	GT25 wide model
Hardware specifications	Operating ambient temperature		-20 °C to 65 °C	0 °C to 55 °C	0 °C to 55 °C	0 °C to 55 °C
	Storage ambient temperature		-30 °C to 75 °C	-20 °C to 60 °C	-20 °C to 60 °C	-20 °C to 60 °C
	Vibration resistance (continuous, intermittent)		19.6 m/s², 19.6 m/s²	4.9 m/s², 9.8 m/s²	4.9 m/s², 9.8 m/s²	4.9 m/s², 9.8 m/s²
	Shock resistance		392 m/s² (40G)	147 m/s² (15G)	147 m/s² (15G)	147 m/s² (15G)
	UV cutoff		Approximately 95% (370 nm)	—		
	Protective structure		Front: IP66F, IP67F / In control panel: IP2X	Front: IP67F / In control panel: IP2X	Front: IP67F / In control panel: IP2X	Front: IP67F / In control panel: IP2X
	Screen size		7" widescreen	15", 12.1", 10.4", 8.4", 5.7"	12.1", 10.4", 8.4", 5.7"	10.1" widescreen, 7" widescreen
	Resolution		WVGA	XGA, SVGA, VGA	SVGA, VGA	WXGA, WVGA
	Display color		65536 colors	65536 colors	65536 colors	65536 colors
	Human sensor		—	●[2]	—	—
	Touch panel simultaneous press (2 points)		—	●	—	—
	Memory for storage (ROM)		32 MB	Other than below: 57 MB / GT2705: 32 MB	32 MB	32 MB
	Memory for operation (RAM)		128 MB	Other than below: 128 MB / GT2705: 80 MB	80 MB	128 MB
	RS-232		●	●	●	●
	RS-422/485		●	●	●	●
	Ethernet	(Ethernet communication unit)	● 2 ports as standard	● 2 ports by installing communication unit	● 2 ports by installing communication unit	● 2 ports as standard
	USB interface (host)		●	●	●	●
	USB interface (device)		●	●	●	●
	SD memory card interface		●	●	●	●
	Sound output interface		●	—	—	●
	Side interface, Wireless LAN communication unit interface	Wireless LAN communication unit	●	●	●[4]	●
	Extension interface	Communication units, option units	—	●	●[4]	—
Options	UV protective sheet (for the rugged model)		●	—	—	—
	Protective sheet		—	●	●	●
	Protective cover for oil		●	●	●	—
	Stand		●	●	●	●
Functions	Alarm display (user/system)	(SD memory card or USB memory, battery)	●	●	●	●
	Graph, Historical trend graph	(SD memory card or USB memory)	●	●	●	●
	Graphical meter		●	●	●	●
	Document display	SD memory card	●	●	●	●
	Logging	(SD memory card or USB memory, battery)	●	●	●	●
	Recipe, Recipe display (record list)	(SD memory card or USB memory, battery)	●	●	●	●
	Hard copy — File output	SD memory card or USB memory	●	●	●	●
	Hard copy — Serial printer output		●	●	●	●
	Hard copy — PictBridge printer output	Printer unit	—	●	●[4]	—
	GOT Mobile function	License, (SD memory card)	●	●	●	●
	VNC server function	License	●	●	●	●
	Remote personal computer operation function (Ethernet)	License	●	●	●	●
	Video display function	Video input unit or Video/RGB input unit	—	●[3]	—	—
	RGB display function	RGB input unit or Video/RGB input unit	—	●[3]	—	—
	Multimedia function	Multimedia unit, CF card	—	●[3]	—	—
	RGB output function	RGB output unit	—	●[3]	—	—
	Report function — Serial printer output	(SD memory card or USB memory)	●	●	●	●
	Report function — PictBridge printer output	SD memory card or USB memory, printer unit	—	●	●[4]	—
	Sound output function	Sound output unit[7]	●	●	●[4]	●
	MES interface function	License, (SD memory card)	●	●	●	●
	Wireless LAN function	Wireless LAN communication unit	●	●	●[4]	●
	SoftGOT-GOT link	License key	●	●	●	●
	Backup/Restoration	SD memory card or USB memory	●	●	●	●
	Multi-channel function		4 channels (No units can be mounted)	4 channels (Up to 3 units)	4 channels (Up to 3 units[4])	4 channels (No units can be mounted)
	Security key authentication function		●	●	●	●
	IP filter function		●	●	●	●
	Vertical display[5]		● (Rotate 90° to left)	● (Rotate 90° to left)	● (Other than below: rotate 90° to left GT2505: rotate 90° to right)	● (Rotate 90° to left)
	Sequence program monitor (iQ-R ladder)	SD memory card or USB memory	●	●	●	●
	Sequence program monitor (Ladder)	SD memory card or USB memory	●	●	●	●
	Sequence program monitor (SFC)	SD memory card or USB memory	●	●	●	●
	Network monitor		●	●	●	●
	CC-Link IE Field Network diagnostics		●	●	●	●
	Intelligent module monitor		●	●	●	●
	R/Q motion monitor		●	●	●	●
	Log viewer	(SD memory card or USB memory)	●	●	●	●
	System launcher		●	●	●	●

[1]　Necessary units when using GOT are shown. Parenthesized devices are required depending on conditions of use.
　　Communication units and options usable with the rugged model can be used in the environment described in the general specifications of the rugged model on page 14.
[2]　GT2715-XTBA, GT2715-XTBD, GT2712-STBA, GT2712-STBD, GT2712-STWA, GT2712-STWD only.
[3]　Excluding GT2705-VTBD.
[4]　Excluding GT2505-VTBD.
[5]　Remote personal computer operation function (Ethernet) cannot be used.
　　Utility screen, monitor and data management screens that are displayed from the utility screen (sequence program monitor, etc.), video camera images in the multimedia and video display functions are displayed horizontally.
　　For the details of other GOT operations when placed vertically, please refer to the relevant product manual or Help.
[6]　Hardware specifications and options of GT25 handy models differ from the descriptions in the column. For the details, please refer to the GOT2000 Series User's Manual (Hardware).
[7]　The GT25 rugged model and GT25 wide models have a built-in sound output interface so that the sound output unit is not required.

Specifications

■ General specifications

Item	Specifications[5]				
Operating ambient temperature[1]	-20 ℃ to 65 ℃				
Storage ambient temperature	-30 ℃ to 75 ℃				
Operating ambient humidity	10% RH to 90% RH, non-condensing				
Storage ambient humidity	10% RH to 90% RH, non-condensing				
Vibration resistance	IEC 60068-2-6		Frequency	Acceleration	Half amplitude	Sweep count
		Under intermittent vibration	5 to 8.4 Hz	—	7.0 mm	10 times in each X, Y, or Z direction
			8.4 to 150 Hz	19.6 m/s^2	—	
		Under continuous vibration	5 to 8.4 Hz	—	7.0 mm	—
			8.4 to 150 Hz	19.6 m/s^2	—	
Shock resistance	IEC 60068-2-27 (392 m/s^2 (40G), 3 times in each X, Y, or Z direction)				
Operating atmosphere	No greasy fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (as well as at storage)				
Operating altitude[2]	2000 m or less				
Installation location	Inside control panel				
Overvoltage category[3]	II or less				
Pollution degree[4]	2 or less				
Cooling method	Self-cooling				
Grounding	Grounding with a ground resistance of 100 Ω or less by using a ground cable that has a cross-sectional area of 2 mm^2 or more. If impossible, connect the ground cable to the control panel.				

*1   Includes the temperature inside the enclosure of the control panel to which the GOT is installed.

*2   Do not use or store the GOT under a pressure higher than the atmospheric pressure at altitude 0 m. Doing so may cause a malfunction. Air purging by applying pressure to the control panel may create clearance between the surface sheet and the touch panel. This may cause the touch panel to be not sensitive enough or the sheet to come off.

*3   This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within the premises. Category II applies to equipment that is supplied with power from fixed facilities. The withstand surge voltage for the equipment with the rated voltage up to 300 V is 2500 V.

*4   This indicates the occurrence rate of conductive material in an environment where a device is used. Pollution degree 2 indicates an environment where only non-conductive pollution occurs normally and a temporary conductivity caused by condensation shall be expected depending on the conditions.

*5   Communication units and options usable with the rugged model can be used in the environment described in the general specifications of the rugged model. For using peripheral devices to be connected to the GOT, please refer to the relevant product manual.

For the status of conforming to various standards and laws (CE, ATEX, UL/cUL, Class I Division 2, EAC, KC, KCs, and maritime certifications [ABS/BV/DNV GL/LR/NK/RINA]), please refer to the Mitsubishi Electric Factory Automation Global website **(www.MitsubishiElectric.com/fa/)**.

■ Precautions for use

● Do not use the GOT as the warning device that may cause a serious accident. An independent and redundant hardware or mechanical interlock is required to configure the device that displays and outputs serious warning. Failure to observe this instruction may result in an accident due to incorrect output or malfunction.

● Use the GOT in the environment that satisfies the general specifications described in this catalog.
Not doing so can cause an electric shock, fire, malfunction or product damage or deterioration.

● The GOT rugged model uses the environmental protection sheet (not replaceable) with UV protection function on the front surface. Therefore, it is possible to suppress deterioration of the touch panel or the liquid crystal display panel that may be caused by ultraviolet rays. Note that if the rugged model is exposed to ultraviolet rays for an extended period of time, the front surface may turn yellow. If the rugged model is likely to be exposed to ultraviolet rays for an extended period of time, it is recommended to use a UV protective sheet (option).

● Before cleaning the GOT, be sure to turn off the power. Before cleaning, check the following items.
  • Ensure that there are no problems with the installation condition of the GOT to the control panel.
  • Ensure that there are no damages on the environmental protection sheet (not replaceable).
If the environmental protection sheet peels or the cleaning solution enters between the sheet and the display section during cleaning, stop the cleaning immediately. In such a case, do not use the GOT.

● Note that the structure does not guarantee protection in all users' environments. Before using the product, fully grasp the communication status and the system operation in the actual use environment. In addition, be sure to perform periodical maintenance and check that there are no problems with GOT.

See the following page for Components names/External dimensions/Panel cut dimensions/Product list ▶ ▶

■ Power supply specifications

Item		Specifications
Power supply voltage		24 V DC (+25%, -20%)
Power supply frequency		—
Power consumption	Under the maximum load	17 W or less
	Main unit	11 W
	Main unit (backlight OFF)	7 W
Inrush current		59 A or less (2 ms, ambient temperature: 25 °C, under the maximum load)
Permissible instantaneous power failure time		5 ms or less
Noise immunity		Noise voltage: 500 Vp-p, noise width: 1 μs, measured by a noise simulator with noise frequency ranging from 25 Hz to 60 Hz
Withstand voltage		350 V AC for 1 minute across power terminals and earth
Insulation resistance		500 V DC across power terminals and earth, 10 M Ω or more by an insulation resistance tester

■ Performance specifications

Item		Specifications
Display section[1][2]	Display device	TFT color LCD
	Screen size	7" widescreen
	Resolution	WVGA: 800 × 480 dots
	Display size	152.40(6.00) (W) × 91.44(3.60) (H) mm(inch)
	Number of displayed characters	16-dot standard font: 50 characters × 30 lines (two-byte characters) / 12-dot standard font: 66 characters × 40 lines (two-byte characters)
	Display color	65536 colors
	Brightness adjustment	32 levels
	Backlight	LED (Not replaceable)
	Backlight life[4]	Approx. 50000 h (operating ambient temperature: 25°C, display intensity: 50%)
Touch panel[3][9]	Type	Analog resistive film
	Key size	Minimum 2 × 2 dots[7] (per key)
	Simultaneous press	Not available[5] (Only 1 point can be touched.)
	Life	1 million touches or more (operating force: 0.98 N or less)
Panel color		Silver
User memory	User memory capacity	Memory for storage (ROM)[10]: 32 MB / Memory for operation (RAM): 128 MB
	Life (number of write times)	100000 times
Built-in clock precision		±90 seconds/month (ambient temperature: 25 °C)
Battery		GT11-50BAT lithium battery
	Data to be backed up	SRAM data, clock data, system status log data
	Life	Approx. 5 years (ambient temperature: 25 °C)
Built-in interface	RS-232	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 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)
	Ethernet	2 channels Data transfer method: 100BASE-TX, 10BASE-T Connector shape: RJ-45 (modular jack)
	USB (host)	1 channel (rear face)
		USB version: USB 2.0 (High-Speed 480 Mbps) Connector shape: USB-A
	USB (device)	1 channel (rear face)
		USB version: USB 2.0 (High-Speed 480 Mbps) Connector shape: USB Mini-B
	SD memory card[10]	1 channel, SDHC compliant (maximum 32 GB)
	Wireless LAN communication unit interface	For installing a wireless LAN communication unit
	Sound output interface	1 channel, WAV format (16 bits, 8.000 kHz/16.000 kHz, monoral) applicable plug: φ3.5 stereo mini-plug (3-prong)
Buzzer output		Single tone (tone and tone length adjustable)
POWER LED		2 colors (blue and orange)
UV cutoff		Front: approximately 95% (370 nm)
Protective structure[6]		Front: IP66F[8], IP67F[8] Inside control panel: IP2X
Safety standards, radio laws		CE, UL, cUL, EAC, KC (as of May 2018)
External dimensions		214(8.43) (W) × 158(6.22) (H) × 55(2.17) (D) mm(inch)
Panel cut dimensions		197(7.76) (W) × 141(5.55) (H) mm(inch)
Weight (excluding a fitting)		1.2(2.6) kg(lb)
Compatible software package		GT Works3 Version1.195D or later

*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   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   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 × 16 dots or larger   • Distance between keys: 16 dots or more
*8   The suffix "F" of IP66F and IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.
*9   Repeatedly touching the outer edge of the actual display area may cause the product to fail.
*10 While writing data to the memory for storage (ROM) or an SD memory card, if GOT is powered off, the data may be corrupted which may cause the GOT to stop operating.

■ Components names
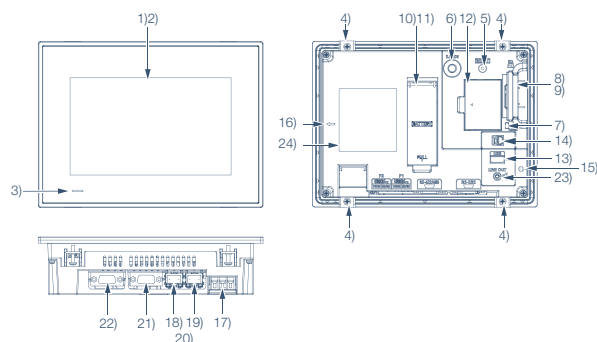
|	
1) Display section	13) USB interface (host/rear face)
2) Touch panel	14) USB interface (device/rear face)
3) POWER LED	15) Cable clamp mounting hole
4) Unit installation fitting	16) Vertical installation arrow mark
5) Reset switch	17) Power terminal
6) S.MODE switch	18) Ethernet interface (Port 1)
7) SD memory card access LED	19) Ethernet interface (Port 2)
8) SD memory card interface (inside the cover)	20) Ethernet communication status LED
9) SD memory card cover	21) RS-422/485 interface
10) Battery (inside the cover)	22) RS-232 interface
11) Terminating resistor setting switch (inside the cover)	23) Sound output interface
12) Wireless LAN communication unit interface (inside the cover)	24) Rating plate

■ External dimensions
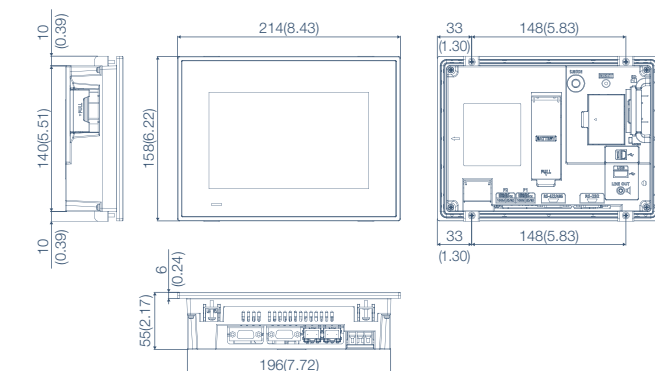
Unit: mm (inch)

■ Panel cut dimensions

Unit: mm (inch)

Screen size	A	B
7" widescreen	197 (7.76)	141 (5.55)

$A \; {}^{+1\,(0.04)}_{\;0\,(0)}$

$B \; {}^{+1\,(0.04)}_{\;0\,(0)}$

Panel opening
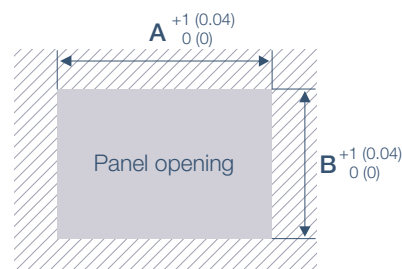
* Panel thickness: 1.6 mm to 4 mm
(0.06 inch to 0.16 inch)

■ Product list

GOT

Classification		Model		Screen size	Display section Display color	Panel color	Power
Rugged model	GT25	GT2507T-WTSD	NEW	7" WVGA	TFT color 65536 colors	Silver	24 V DC

Communication unit

Product name	Model	Specifications
Wireless LAN communication unit[1]	GT25-WLAN	IEEE802.11b/g/n compliant, built-in antenna, wireless LAN access point (base station)[2], station (client), connection to personal computer, tablet, smartphone Compliance with[3]: Japan Radio Law, FCC standards, RE Directive[4] (R&TTE Directive), SRRC, KC

[1] Data transfer in wireless LAN communication may not be as stable as that in cable communication. A packet loss may occur depending on the surrounding environment and the installation location. Be sure to perform a confirmation of operation before using this product.
[2] When [Operation Mode] is set to [Access Point] in [Wireless LAN Setting] of GT Designer3, up to five stations are connectable.
[3] The product with hardware version A complies with Japan Radio Law and can be used only in Japan. The product with hardware version B or later complies with FCC standards and R&TTE Directive and can be used in Japan, the United States, the EU member states, Switzerland, Norway, Iceland, and Liechtenstein. The product with hardware version D or later complies with SRRC and KC and can be used in Japan, the United States, the EU member states, Switzerland, Norway, Iceland, Liechtenstein, China (excluding Hong Kong, Macau, Taiwan), and South Korea. For the latest information about countries where the unit can be used, please refer to the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).
[4] The product complies with the RE Directive from March 31, 2017.

Options

Product name	Model		Specifications	
UV protective sheet (for the rugged model)[*1]	GT25T-07WPSVC	**NEW**	For 7" rugged model	• Antiglare type (UV cutoff) • Transparent • Without a hole for the USB environmental protection cover • 1 sheet
Protective cover for oil[*2]	GT25T-07WPCO	**NEW**	For 7" rugged model	
Stand	GT25T-07WSTAND	**NEW**	For 7" rugged model	
SD memory card	NZ1MEM-2GBSD		SD memory card for GOT, 2 GB	
	NZ1MEM-4GBSD		SDHC memory card for GOT, 4 GB	
	NZ1MEM-8GBSD		SDHC memory card for GOT, 8 GB	
	NZ1MEM-16GBSD		SDHC memory card for GOT, 16 GB	
Battery	GT11-50BAT		Battery for backup of SRAM data, clock data, and system status log data (for replacement)	
Panel-mounted USB port extension[*2]	GT14-C10EXUSB-4S		Cable length 1 m, for routing the USB port (host) of the GOT rear face to the front side of the control panel	
	GT10-C10EXUSB-5S		Cable length 1 m, for routing the USB port (device) of the GOT rear face to the front side of the control panel	
USB cable (data transfer cable)	GT09-C30USB-5P		Cable length 3 m, for connecting a personal computer (screen design software) and GOT	

*1   UV protective sheet for the rugged model does not comply with IP66F and IP67F.
*2   Protective cover for oil for the rugged model and panel-mounted USB port extension do not comply with IP66F.

Software

Product name	Model	Description		
HMI/GOT Screen Design Software MELSOFT GT Works3	SW1DND-GTWK3-E	English Version	Standard license product	DVD-ROM
	SW1DND-GTWK3-EA		Volume license product[*1][*5]	
	SW1DND-GTWK3-EAZ		Additional license product[*1][*2]	
GT Works Text to Speech License[*4]	SW1DND-GTVO-M	Standard license product		
VNC Server Function License[*3]	GT25-VNCSKEY-1	1 license		
	GT25-VNCSKEY-5	5 licenses		
	GT25-VNCSKEY-10	10 licenses		
	GT25-VNCSKEY-20	20 licenses		
GOT Mobile Function License[*3]	GT25-WEBSKEY-1	1 license		
	GT25-WEBSKEY-5	5 licenses		
	GT25-WEBSKEY-10	10 licenses		
	GT25-WEBSKEY-20	20 licenses		

*1   The desired number of licenses (2 or more) can be purchased. For details, please contact your local sales office.
*2   This product does not include the DVD-ROM. Only the license certificate with the product ID No. is issued.
*3   1 license is required for 1 GOT unit.
*4   To edit sound files, each personal computer requires one license.
*5   Volume license product is not sold separately and should be purchased with the standard license product.

Cables

Various connection cables are available. For more details, please refer to the GOT2000 Series Connection Manual.

GOT2000 lineup

GT27
Advanced model with multi-touch gesture functions

| Ethernet | RS-232 | RS-422/485 | CC-Link IE Control | CC-Link IE Field*1 | CC-Link IE Field Basic | CC-Link | Bus | MELSECNET |

*1 The CC-Link IE Field Network communication unit and GOT set is also available.

15 inch — TFT 65536 colors, AC, DC
XGA 1024×768 — GT2715-XTBA / GT2715-XTBD

12.1 inch — TFT 65536 colors, AC, DC
SVGA 800×600 — GT2712-STBA / GT2712-STBD / GT2712-STWA [White model] / GT2712-STWD [White model]

10.4 inch — TFT 65536 colors, AC, DC
SVGA 800×600 — GT2710-STBA / GT2710-STBD
VGA 640×480 — GT2710-VTBA / GT2710-VTBD / GT2710-VTWA [White model] / GT2710-VTWD [White model]

GT25
High performance, cost efficient, mid-range model

| Ethernet | RS-232 | RS-422/485 | CC-Link IE Control*2 | CC-Link IE Field*1*2 | CC-Link IE Field Basic | CC-Link*2 | Bus*2 | MELSECNET*2 |

*1 The CC-Link IE Field Network communication unit and GOT set is also available. *2 Not supported by GT2505.

12.1 inch — TFT 65536 colors, AC, DC
SVGA 800×600 — GT2512-STBA / GT2512-STBD

10.4 inch — TFT 65536 colors, AC, DC
VGA 640×480 — GT2510-VTBA / GT2510-VTBD / GT2510-VTWA [White model] / GT2510-VTWD [White model]

8.4 inch — TFT 65536 colors, AC, DC
VGA 640×480 — GT2508-VTBA / GT2508-VTBD / GT2508-VTWA [White model] / GT2508-VTWD [White model]

GT25 Wide
GOT2000 widescreen expands your view

| Ethernet (2 ports) | RS-232 | RS-422/485 | CC-Link IE Field Basic | Sound output (built-in) |

10.1 inch — TFT 65536 colors, DC
WXGA 1280×800 — GT2510-WXTBD / GT2510-WXTSD

7 inch — TFT 65536 colors, DC
WVGA 800×480 — GT2507-WTBD / GT2507-WTSD

GT25 Rugged

| Ethernet (2 ports) | RS-232 | RS-422/485 | CC-Link IE Field Basic | Sound output (built-in) |

NEW

7 inch — TFT 65536 colors, DC
WVGA 800×480 — GT2507T-WTSD

GT23
Unchallenged cost performance

| Ethernet | RS-232 | RS-422/485 | CC-Link IE Field Basic |

10.4 inch — TFT 65536 colors, AC, DC
VGA 640×480 — GT2310-VTBA / GT2310-VTBD

8.4 inch — TFT 65536 colors, AC, DC
VGA 640×480 — GT2308-VTBA / GT2308-VTBD

HMI/GOT Screen Design Software
Professional Designs in Just a Few Clicks

GOT Screen Design Software
MELSOFT GT Works3 +plus

You can effectively use existing screen assets or design aesthetic screens with GT Works3, the software that can be commonly used for the GOT2000 Series.

| Multi-touch gesture | Multimedia*2 | Video/RGB*2 | Sound output | External I/O |

*2 Not supported by GT2705.

SoftGOT

8.4 inch

| TFT 65536 colors | AC |
| | DC |

| SVGA 800×600 | GT2708-STBA GT2708-STBD |
| VGA 640×480 | GT2708-VTBA GT2708-VTBD |

5.7 inch

| TFT 65536 colors | DC |

| VGA 640×480 | GT2705-VTBD |

GOT2000 compatible software

| 65536 colors | USB port license key |

GOT2000 compatible HMI software
GT SoftGOT 2000 Version1

GT SoftGOT2000 is an HMI software that allows GOT2000 functions to operate on a personal computer or panel computer. Various industrial devices can be connected and monitored.
Resolution: 640 to 1920 × 480 to 1200
* A separate license key must be mounted during use.

| Sound output*2 | External I/O*2 |

GT25 Handy — HMI functionality in the palm of your hand

| Ethernet | RS-232 | RS-422/485*1 | CC-Link IE Field Basic |

*1 GT2505HS supports RS-422 only.

5.7 inch

| TFT 65536 colors | DC |

| VGA 640×480 | GT2505-VTBD |

6.5 inch

| TFT 65536 colors | DC |

| VGA 640×480 | GT2506HS-VTBD |

NEW

5.7 inch

| TFT 65536 colors | DC |

| VGA 640×480 | GT2505HS-VTBD |

GT25 Open frame — A new style of GOT2000

| Ethernet | RS-232 | RS-422/485 | CC-Link IE Control | CC-Link IE Field | CC-Link IE Field Basic | CC-Link | Bus | MELSECNET | Sound output | External I/O |

12.1 inch

| TFT 65536 colors | AC |
| | DC |

| SVGA 800×600 | GT2512F-STNA GT2512F-STND |

10.4 inch

| TFT 65536 colors | AC |
| | DC |

| VGA 640×480 | GT2510F-VTNA GT2510F-VTND |

8.4 inch

| TFT 65536 colors | AC |
| | DC |

| VGA 640×480 | GT2508F-VTNA GT2508F-VTND |

GT21 — Compact models with basic functions

| Ethernet*1 | RS-232*1 | RS-422/485*1 | CC-Link IE Field Basic*2 |

*1 Supported interfaces vary depending on the model. Please refer to descriptions in [ ] after the model.
*2 Supported only by the models equipped with an Ethernet port.

GT21 Wide

| Ethernet |
| RS-232 | RS-422/485 |
| CC-Link IE Field Basic |

4.3 inch

| TFT 65536 colors | DC |

| 480×272 | GT2104-RTBD [Ethernet, RS-232, RS-422/485] |

3.8 inch

| TFT mono-chrome | DC |
| 5-color LED | |

| 320×128 | GT2103-PMBD [Ethernet, RS-422/485] GT2103-PMBDS [RS-232, RS-422/485] GT2103-PMBDS2 [RS-232 × 2 channels] GT2103-PMBLS [RS-422] 5 V DC type |

7 inch

| TFT 65536 colors | DC |

| WVGA 800×480 | GT2107-WTBD GT2107-WTSD |

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For the status of conforming to various standards and laws, please refer to the Mitsubishi Electric Factory Automation Global website **(www.MitsubishiElectric.com/fa/).**

Warranty

Please confirm the following product warranty details before using this product.

Gratis Warranty Term and Gratis Warranty Range

If any faults or defects (hereinafter "Failure") found to be the responsibility of Mitsubishi occurs during use of the product within the gratis warranty term, the product shall be repaired at no cost via the sales representative or Mitsubishi Service Company.
However, if repairs are required onsite at domestic or overseas location, expenses to send an engineer will be solely at the customer's discretion. Mitsubishi shall not be held responsible for any re-commissioning, maintenance, or testing on-site that involves replacement of the failed module.

■Gratis Warranty Term

The gratis warranty term of the product shall be for thirty-six (36) months after the date of purchase or delivery to a designated place.
Note that after manufacture and shipment from Mitsubishi, the maximum distribution period shall be six (6) months, and the longest gratis warranty term after manufacturing shall be forty-two (42) months. The gratis warranty term of repair parts shall not exceed the gratis warranty term before repairs.

■Gratis Warranty Range

(1) The customer shall be responsible for the primary failure diagnosis unless otherwise specified.
If requested by the customer, Mitsubishi Electric Corporation or its representative firm may carry out the primary failure diagnosis at the customer's expense.
The primary failure diagnosis will, however, be free of charge should the cause of failure be attributable to Mitsubishi Electric Corporation.
(2) The range shall be limited to normal use within the usage state, usage methods, usage environment, etc. which follow the conditions, precautions, etc. given in the instruction manual, user's manual, caution labels on the product, etc.
(3) Even within the gratis warranty term, repairs shall be charged for in the following cases.
  ①Failure occurring from inappropriate storage or handling, carelessness or negligence by the user. Failure caused by the user's hardware or software design.
  ②Failure caused by unapproved modifications, etc., to the product by the user.
  ③When the Mitsubishi product is assembled into a user's device, Failure that could have been avoided if functions or structures, judged as necessary in the legal safety measures the user's device is subject to or as necessary by industry standards, had been provided.
  ④Failure that could have been avoided if consumable parts designated in the user's manual etc. had been correctly serviced or replaced.
  ⑤Replacement of consumable parts (battery, display device, touch panel, fuse, etc.).
  ⑥Failure caused by external irresistible forces such as fires or abnormal voltages, and Failure caused by force majeure such as earthquakes, lightning, wind and water damage.
  ⑦Failure caused by reasons unpredictable by scientific technology standards at time of shipment from Mitsubishi.
  ⑧Any other failure found not to be the responsibility of Mitsubishi or that admitted not to be so by the user.

Onerous repair term after discontinuation of production

(1) Mitsubishi shall accept onerous product repairs for seven (7) years after production of the product is discontinued.
Discontinuation of production shall be notified with Mitsubishi Technical Bulletins, etc.
(2) Product supply (including repair parts) is not available after production is discontinued.

Overseas service

Overseas, repairs shall be accepted by Mitsubishi's local overseas FA Center. Note that the repair conditions at each FA Center may differ.

Exclusion of loss in opportunity and secondary loss from warranty liability

Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation to:
(1) Damages caused by any cause found not to be the responsibility of Mitsubishi.
(2) Loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products.
(3) Special damages and secondary damages whether foreseeable or not, compensation for accidents, and compensation for damages to products other than Mitsubishi products.
(4) Replacement by the user, maintenance of on-site equipment, start-up test run and other tasks.

Changes in product specifications

The specifications given in the catalogs, manuals or technical documents are subject to change without prior notice.

Product application

(1) In using the Mitsubishi graphic operation terminal, the usage conditions shall be that the application will not lead to a major accident even if any problem or fault should occur in the graphic operation terminal device, and that backup and fail-safe functions are systematically provided outside of the device for any problem or fault.
(2) The Mitsubishi graphic operation terminal has been designed and manufactured for applications in general industries, etc.
Thus, applications in which the public could be affected such as in nuclear power plants and other power plants operated by respective power companies, and applications in which a special quality assurance system is required, such as for Railway companies or Public service purposes shall be excluded from the graphic operation terminal applications.
In addition, applications in which human life or property that could be greatly affected, such as in aircraft, medical applications, incineration and fuel devices, manned transportation equipment for recreation and amusement, and safety devices, shall also be excluded from the graphic operation terminal range of applications.
However, in certain cases, some applications may be possible, providing the user consults the local Mitsubishi representative outlining the special requirements of the project, and providing that all parties concerned agree to the special circumstances, solely at our discretion.
In some of these cases, however, Mitsubishi Electric Corporation may consider the possibility of an application, provided that the customer notifies Mitsubishi Electric Corporation of the intention, the application is clearly defined and any special quality is not required.

Global support

Global FA Centers

UK FA Center
Germany FA Center
Russia FA Center
Beijing FA Center
Korea FA Center
Czech Republic FA Center
Europe FA Center
Tianjin FA Center
Italy FA Center
Turkey FA Center
Guangzhou FA Center
MITSUBISHI ELECTRIC CORPORATION
North America FA Center
Mexico Monterrey FA Center
India Gurgaon FA Center
Shanghai FA Center
Mexico FA Center
India Ahmedabad FA Center
Taipei FA Center
Mexico City FA Center
India Pune FA Center
Hanoi FA Center
India Bangalore FA Center
Ho Chi Minh FA Center
India Chennai FA Center
Thailand FA Center
ASEAN FA Center
Indonesia FA Center
Brazil FA Center

China Mainland

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Mitsubishi Electric Automation (China) Ltd.
10F, Mitsubishi Electric Automation Center, No.1386
Hongqiao Road, Changning District, Shanghai, China
Tel: +86-21-2322-3030 / Fax: +86-21-2322-3000(9611#)

Beijing FA Center
Mitsubishi Electric Automation (China) Ltd.
Beijing Branch
5/F, ONE INDIGO, 20 Jiuxianqiao Road Chaoyang
District, Beijing, China
Tel: +86-10-6518-8830 / Fax: +86-10-6518-2938

Tianjin FA Center
Mitsubishi Electric Automation (China) Ltd.
Tianjin Branch
Room 2003 City Tower, No.35, Youyi Road, Hexi
District, Tianjin, China
Tel: +86-22-2813-1015 / Fax: +86-22-2813-1017

Guangzhou FA Center
Mitsubishi Electric Automation (China) Ltd.
Guangzhou Branch
Room 1609, North Tower, The Hub Center, No.1068,
Xingang East Road, Haizhu District, Guangzhou, China
Tel: +86-20-8923-6730 / Fax: +86-20-8923-6715

Taiwan

Taipei FA Center
SETSUYO ENTERPRISE CO., LTD.
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New Taipei City 24889, Taiwan
Tel: +886-2-2299-9917 / Fax: +886-2-2299-9963

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7F-9F, Gangseo Hangang Xi-tower A, 401,
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ASEAN

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Indonesia FA Center
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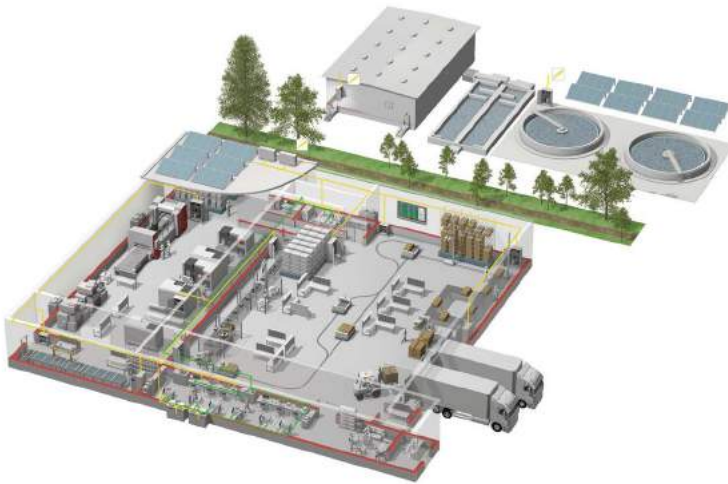
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