



for a greener tomorrow

CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG



MITSUBISHI ELECTRIC

Changes for the Better

FACTORY AUTOMATION



Graphic Operation Terminal

GOT2000 Series/ GOT SIMPLE Series



GOT2000

Graphic Operation Terminal

GOT SIMPLE

Graphic Operation Terminal

- Innovative display features in a simple body
- Enhanced lineup with rugged model for wider applications
- Advanced user-friendly features of HMI/GOT Screen Design Software GT Works3

Hotline: 1900.6536 - Website: HOPLONGTECH.COM

GLOBAL IMPACT OF MITSUBISHI ELECTRIC



Through Mitsubishi Electric's vision, "Changes for the Better" are possible for a brighter future.

INDUSTRIAL AUTOMATION

Changes for the Better

We bring together the best minds to create the best technologies. At Mitsubishi Electric, we understand that technology is the driving force of change in our lives. By bringing greater comfort to daily life, maximizing the efficiency of businesses and keeping things running across society, we integrate technology and innovation to bring changes for the better.

Mitsubishi Electric is involved in many areas including the following:

Energy and Electric Systems

A wide range of power and electrical products from generators to large-scale displays.

Electronic Devices

A wide portfolio of cutting-edge semiconductor devices for systems and products.

Home Appliance

Dependable consumer products like air conditioners and home entertainment systems.

Information and Communication Systems

Commercial and consumer-centric equipment, products and systems.

Industrial Automation Systems

Maximizing productivity and efficiency with cutting-edge automation technology.

INDEX

1. Lineup	04	1
2. Hardware	06	2
3. GT SoftGOT2000	26	3
4. GOT Solutions INDEX	30	4
GOT Smart Web-based Remote Solutions GOT Mobile	32	5
GOT Easy Drive Control (Servo) Interactive Solutions GOT Drive	40	6
GOT Easy Drive Control (Inverter) Interactive Solutions GOT Drive	56	7
GOT Easy Drive Control (Robot) Interactive Solutions GOT Drive	62	8
Sophisticated Programmable Controller Interactive Features	63	9
Maintenance, Troubleshooting and Diagnostics Features	67	10
Hardware Features	75	11
Security & Additional System Features	80	
Data Handling Features	93	
Interactive Features with Other Industrial Devices	96	
5. MELSOFT iQ Works	102	
6. MELSOFT GT Works3	104	
7. e-F@ctory	120	
8. Specifications	123	
9. Product List	172	
10. Support	182	
11. Related Products	184	



HMI lineup

GOT2000 Series

GT27

Advanced model with multi-touch gesture functions

Ethernet RS-232 RS-422/485 CC-Link IE TSN 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 1024x768 GT2715-XTBA GT2715-XTBD

12.1 inch

TFT 65536 colors AC DC



SVGA 800x600 GT2712-STBA GT2712-STBD GT2712-STWA [White model] GT2712-STWD [White model]

10.4 inch

TFT 65536 colors AC DC



SVGA 800x600 GT2710-STBA GT2710-STBD VGA 640x480 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 TSN*2 CC-Link IE Control*2 CC-Link IE Field**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 800x600 GT2512-STBA GT2512-STBD

10.4 inch

TFT 65536 colors AC DC



VGA 640x480 GT2510-VTBA GT2510-VTBD GT2510-VTWA [White model] GT2510-VTWD [White model]

8.4 inch

TFT 65536 colors AC DC



VGA 640x480 GT2508-VTBA GT2508-VTBD GT2508-VTWA [White model] GT2508-VTWD [White model]

GT25

GOT2000 widescreen expands your view

Wide

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

GT25

Rugged

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 1280x800 GT2510-WXTBD GT2510-WXTSD

7 inch

TFT 65536 colors DC



WVGA 800x480 GT2507-WTBD GT2507-WTSD

7 inch

TFT 65536 colors DC



WVGA 800x480 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 640x480 GT2310-VTBA GT2310-VTBD

8.4 inch

TFT 65536 colors AC DC



VGA 640x480 GT2308-VTBA GT2308-VTBD

GT21

Wide

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

7 inch

TFT 65536 colors DC



WVGA 800x480 GT2107-WTBD GT2107-WTSD



GOT Screen Design Software
MELSOFT GT Works3
Professional designs in just a few clicks



GOT2000 compatible HMI software
GT SoftGOT2000 Version1
Make visualization of production accessible

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

*2 Not supported by GT2705.

8.4 inch

TFT
65536 colors
AC
DC



SVGA
800x600
VGA
640x480

GT2708-STBA
GT2708-STBD
GT2708-VTBA
GT2708-VTBD

5.7 inch

TFT
65536 colors
DC



VGA
640x480

GT2705-VTBD

MELIPC Series (related products)

Panel computer with Windows® OS

MI3000

Ethernet (3 ports) | RS-232
RS-422/485 | DisplayPort | Sound output

21.5 inch / 15 inch

TFT
16.77 million colors
DC



NEW

Full HD
1920x1080
XGA
1024x768

MI3321G-W

MI3315G-W

For the details, see page 184.

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
640x480

GT2505-VTBD

6.5 inch

TFT
65536 colors
DC



VGA
640x480

GT2506HS-VTBD

5.7 inch

TFT
65536 colors
DC



VGA
640x480

GT2505HS-VTBD

GT25

A new style of GOT2000

Open frame

Ethernet | RS-232 | RS-422/485 | CC-Link IE TSN | 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
800x600

GT2512F-STNA
GT2512F-STND

10.4 inch

TFT
65536 colors
AC
DC



VGA
640x480

GT2510F-VTNA
GT2510F-VTND

8.4 inch

TFT
65536 colors
AC
DC



VGA
640x480

GT2508F-VTNA
GT2508F-VTND

Compact models with basic functions

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

GT21

*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.

4.3 inch

TFT
65536 colors
DC



480x272
GT2104-RTBD
[Ethernet, RS-232, RS-422/485]

3.8 inch

TFT
mono-chrome
DC
5-color LED



320x128
GT2103-PMBD
[Ethernet, RS-422/485]
GT2103-PMBDS
[RS-232, RS-422/485]
GT2103-PMBDS2
[RS-232 x 2 channels]
GT2103-PMBLS
[RS-422] 5 V DC type

GOT SIMPLE Series

Simple model having excellent cost performance

GS21

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

10 inch / 7 inch

TFT
65536 colors
DC



WVGA
800x480

GS2110-WTBD
GS2107-WTBD

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

GT27 model

Advanced model with multi-touch gesture functions



A wide variety of specifications suit every system design

Communication interfaces such as Ethernet, RS-232, RS-422/485, USB host/device and SD memory card are standard features. High capacity data processing ensure smooth screen operation even when multiple tasks, such as logging, script, alarm, or device data transfer, are running. In addition, image recording, image playback, video image input, and RGB output are available*, thus all the functions of GOT2000 can be used on GT27 models. *Excluding GT2705

Item	Specifications
Display	5.7"/8.4"/10.4"/12.1"/15", TFT color LCD, 65536 colors
Resolution	XGA, SVGA, VGA
Backlight	White LED
User memory	Memory for storage (ROM): 57 MB (GT2705 has 32 MB) Memory for operation (RAM): 128 MB (GT2705 has 80 MB)
Standard interface	Ethernet, RS-232, RS-422/485 USB host (USB-A): 2 channels* (USB 2.0 (High-Speed 480 Mbps)) USB device (USB Mini-B): 1 channel (USB 2.0 (High-Speed 480 Mbps)) SD memory card interface
Extension interface	CC-Link IE TSN NEW , CC-Link IE Control, CC-Link IE Field, CC-Link, bus, MELSECNET/H
Side interface	For installing a wireless LAN communication unit

* White model has 1 channel.

With Backup/Restoration function, fear troubles no more!

The programs and parameters of the programmable controller CPU can be backed up to the SD memory card or USB memory device in the GOT. In case of a CPU failure, users can perform batch operation to restore the data to the controller.



■ GT27 model external appearance [Standard model: front face/rear face]



1 Human sensor

The unit automatically detects an operator approaching the unit and displays the screen.
* GT2715, GT2712 only

2 USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.
* Standard models: front face only
* White models: rear face only

3 USB interface: host (USB-A)*1

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*2, or RFID reader*2 can also be connected.
*1 White models: rear face only
*2 USB keyboard (HID) compatible model only

4 Extension interface

Communication and option units can be installed.

5 Ethernet interface

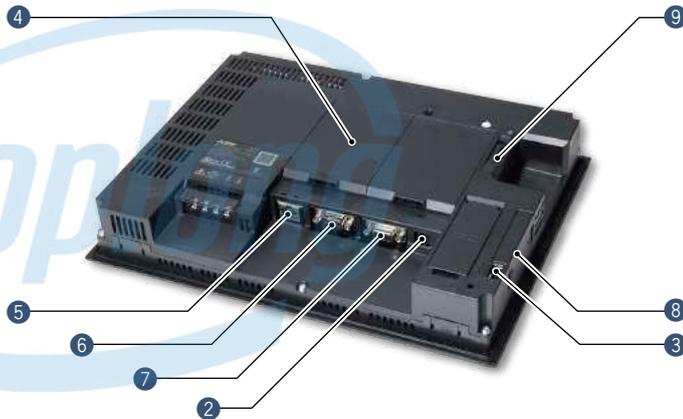
Use Ethernet to simultaneously connect up to four types of industrial devices from different manufacturers. CC-Link IE Field Network Basic compatible devices can also be connected.

6 RS-232 interface

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

7 RS-422/485 interface

Connect to various industrial devices and barcode readers.



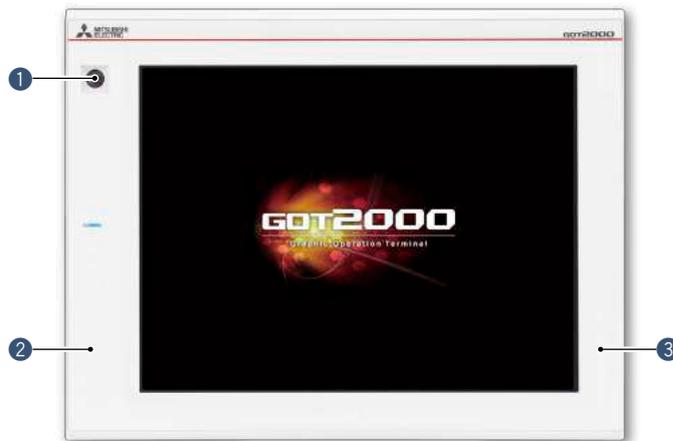
8 Side interface

Install a wireless LAN communication unit.

9 SD memory card interface

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

■ GT27 model external appearance [White model: front face]



1 Human sensor

The unit automatically detects an operator approaching the unit and displays the screen.
* GT2712 only

2 Flat body

The front flat screen is easy to clean. (USB interface is on the back.)

3 White body

The white model portrays a clean image.

White model features

GOT is acceptable for use in hazardous locations classified by various safety standards (Class I, Division 2 [the United States, Canada], ATEX [Europe], KCs [Korea]).

* Supported standards vary depending on the model. For the details, please refer to page 75.

GT25 model

High performance, cost efficient, mid-range model



A wide variety of specifications suit every system design

Communication interfaces such as Ethernet, RS-232, RS-422/485, USB host/device and SD memory card are standard features. High capacity data processing ensure smooth screen operation even when multiple tasks, such as logging, script, alarm, or device data transfer, are running.

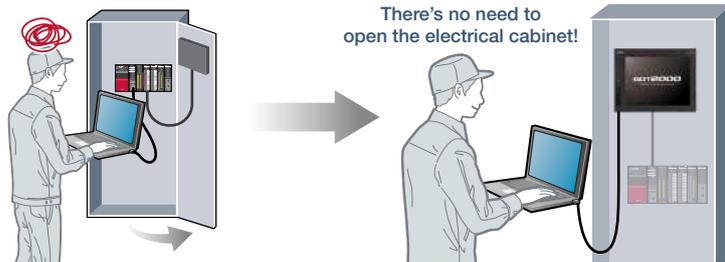
Item	Specifications
Display	5.7"/8.4"/10.4"/12.1", TFT color LCD, 65536 colors
Resolution	SVGA, VGA
Backlight	White LED
User memory	Memory for storage (ROM): 32 MB Memory for operation (RAM): 80 MB
Standard interface	Ethernet, RS-232, RS-422/485 USB host (USB-A): 2 channels*1 (USB 2.0 (High-Speed 480 Mbps)) USB device (USB Mini-B): 1 channel (USB 2.0 (High-Speed 480 Mbps)) SD memory card interface
Extension interface*2	CC-Link IE TSN NEW , CC-Link IE Control, CC-Link IE Field, CC-Link, bus, MELSECNET/H
Side interface*2	For installing a wireless LAN communication unit

*1 GT2505 and white model have 1 channel.

*2 GT2505 does not have the extension interface and the side interface.

FA Transparent function simplify your debugging work!

By connecting a personal computer to the front USB interface on the GOT, the GOT acts as a transparent gateway to enable startup and adjustment of equipment. Users do not have to bother with opening the electrical cabinet or changing cable connections.



■ **GT25 standard model external appearance [front face/rear face]** * Excluding GT2505



1 USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.

* Standard models: front face only
* White models: rear face only

2 USB interface: host (USB-A)*1

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*2, or RFID reader*2 can also be connected.

*1 GT2505, white models: rear face only

*2 USB keyboard (HID) compatible model only

3 Extension interface

Communication and option units can be installed.

4 Ethernet interface

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

5 RS-232 interface

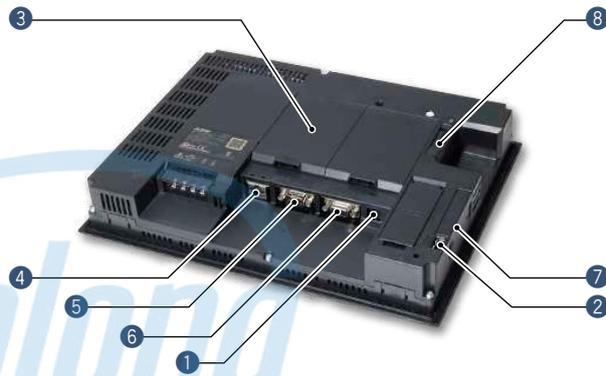
Connect to various industrial devices, barcode readers and serial printers.

6 RS-422/485 interface

Connect to various industrial devices and barcode readers.

7 Side interface

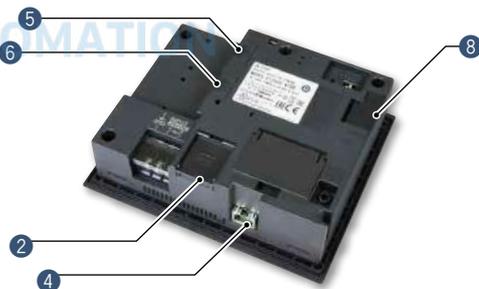
Install a wireless LAN communication unit.



8 SD memory card interface

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

■ **GT2505 external appearance [front face/rear face]**



■ **GT25 white model external appearance [front face]**



9 Simple design

In the same way as the standard model, the stylish and simple design with a linear motif is sleek and complements any machine design.

10 Flat body

The front flat screen is easy to clean. (USB interface is on the back.)

11 White body

The white model portrays a clean image.

White model features

GOT is acceptable for use in hazardous locations classified by various safety standards (Class I, Division 2 [the United States, Canada], ATEX [Europe], KCs [Korea]).

* Supported standards vary depending on the model. For the details, please refer to page 75.

For details

Concept movie



GT25 wide model

GOT2000 widescreen expands your view

2

Hardware



For the details of GT25 wide models, please refer to the Graphic Operation Terminal GOT2000 Series Wide Model catalog (L(NA)08461ENG).

Various interfaces are equipped in a compact body

The stylish design realized with a narrow bezel. The GOT2000 wide models are available in a choice of silver and black.

Two Ethernet ports and the built-in sound output interface* equipped as standard add value to your system.

* A speaker with built-in amplifier is required separately.

Item	Specifications
Display	7" widescreen/10.1" widescreen, TFT color LCD, 65536 colors
Resolution	7": WVGA, 10.1": WXGA
Backlight	White LED
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 (ø3.5 minijack), SD memory card interface
Extension interface	-
Wireless LAN communication unit interface	For installing a wireless LAN communication unit

Ultra high resolution display improves expressiveness

Ultra high resolution WXGA screen* displays necessary and sufficient information on one screen. Small characters can be displayed clearly.

* WXGA display on the 10.1 inch model. WVGA display on the 7 inch model.

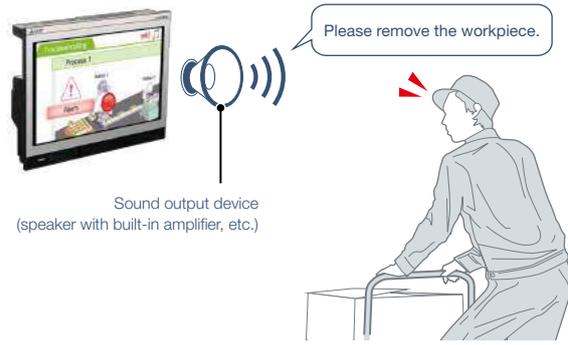
About 3.3 times higher resolution displays small characters clearly



* 10.1 inch model

Add value to your system with sound notification

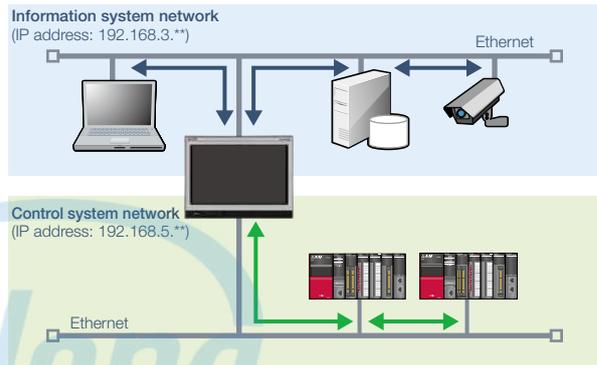
The built-in sound output interface makes it easy to implement the sound notification system (page 77, page 118). Not only by displaying the contents of events on the screen but also by notifying with sound, you can convey the necessary information to the operators.



Sound output device (speaker with built-in amplifier, etc.)

Enable separation of information and control system networks

Two Ethernet ports physically separate the information system network in the office from the control system network at the production site. The network architecture becomes safer and more secure by setting different IP addresses for each network.



GT25 wide model external appearance [front face/rear face]



1

1 USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.

2 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

3 Ethernet interface (2 ports)

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

4 RS-422/485 interface

Connect to various industrial devices and barcode readers.

5 RS-232 interface

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

6 Sound output interface (φ3.5 minijack)

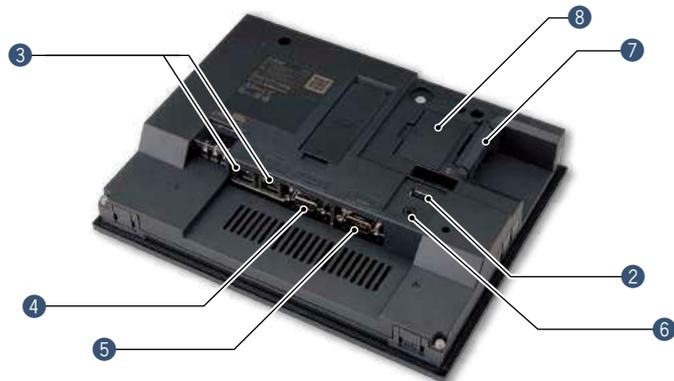
Output sound by connecting φ3.5 stereo mini-plug (3-prong).

7 SD memory card interface

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

8 Wireless LAN communication unit interface

Install a wireless LAN communication unit.



For details



GT25 handy GOT

HMI functionality in the palm of your hand



For the details of GT25 handy GOT, please refer to the Graphic Operation Terminal GOT2000 Series Handy GOT catalog (L(NA)08506ENG).

GOT2000 Series handy GOT

With portable handy GOT, you can operate your machines while standing next to them.

Item	Specifications	
	GT2506HS-VTBD	GT2505HS-VTBD
Display	6.5", TFT color LCD, 65536 colors	5.7", TFT color LCD, 65536 colors
Resolution	VGA	
Backlight	White LED	
User memory	Memory for storage (ROM): 32 MB Memory for operation (RAM): 80 MB	
Standard interface	Ethernet*2, RS-232*1*2, RS-422/485*1*2	
	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))	
	SD memory card interface	

*1 When using GT2506HS, select one channel from RS-232 or RS-422/485.

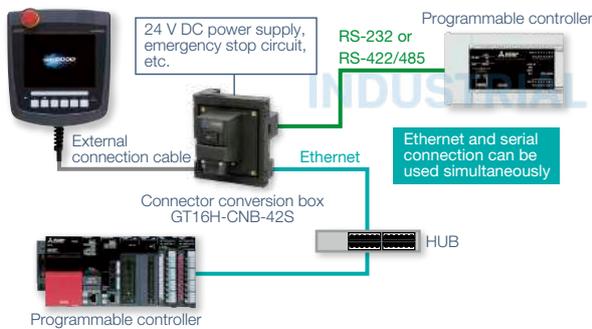
*2 When using GT2505HS, select one channel from Ethernet, RS-232, or RS-422. RS-485 cannot be used.

Example of connecting GT25 handy GOT and industrial devices

GT2506HS-VTBD

Ethernet connection

- The maximum distance between the connector conversion box and the GOT is 10 m.
- Up to four different industrial devices are connectable.



Serial connection

Connector conversion box

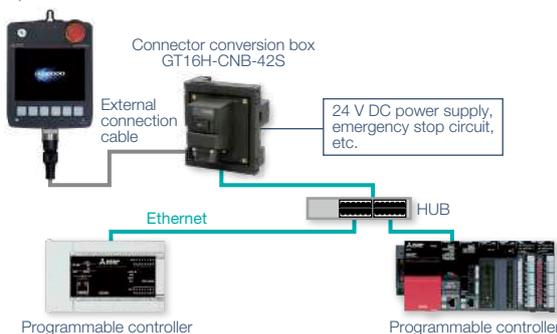
Used to connect handy GOT and industrial devices via Ethernet or serial connection.

Connector conversion box	GT2506HS		GT2505HS	
	Ethernet	RS-232, RS-422/485	Ethernet	RS-232, RS-422
GT16H-CNB-42S ID number recognition function supported	○	○	○	-
GT16H-CNB-37S	○	-	○	-
GT11H-CNB-37S	-	-	-	○

GT2505HS-VTBD

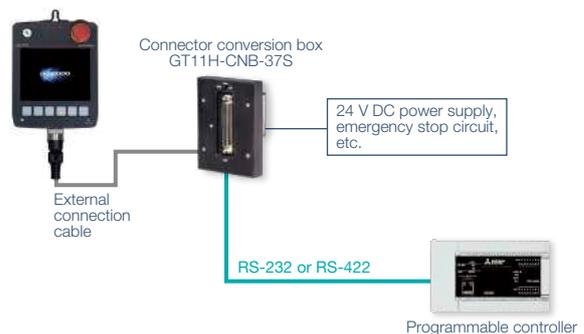
Ethernet connection

- The maximum distance between the connector conversion box and the GOT is 10 m.
- Up to four different industrial devices are connectable.



Serial connection

- Select either of RS-232 or RS-422.
- The maximum distance between the connector conversion box and the GOT is 10 m.



■ **GT2506HS external appearance [front face/rear face]**



■ **GT2505HS external appearance [front face/rear face]**



1 **Emergency stop switch**

An emergency stop switch is used to stop the operation of devices in case of an emergency. It utilizes a “normally closed contact” for safety.

2 **LED operation switches (GT2506HS)/ Operation switches (GT2505HS)**

The switches can be used to operate and stop machines. Hard switches on the operation panel are no longer required. These switches can be wired to inputs of programmable controllers and other devices.

3 **SD memory card interface**

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

4 **USB interface: device (USB Mini-B)**

Connect to a personal computer and transfer data.

5 **USB interface: host (USB-A)**

Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory.

6 **Keylock switch (2-position switch)**

Operators can be restricted depending on the operation, such as switching manual/automatic operation or selecting the modes. Once the key is pulled out, others cannot operate it. The switch is used with wiring to the input of programmable controllers.

7 **Grip switch**

The three-position (OFF-ON-OFF) type deadman switch is adopted as an interlock for preventing operation mistakes and prohibiting operation of a machine. The switch can directly control external equipment to give immediate stop commands to a machine. The switch can be wired to inputs of programmable controllers and other devices.

GT2505HS

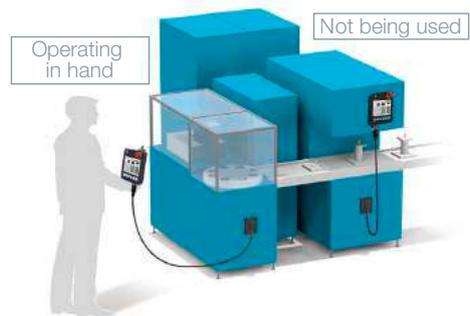
Wall-mounting attachment for Handy GOT GT14H-50ATT



The wall-mounting attachment for handy GOT is to place the GT2505 Handy GOT while it is not being used.



Firmly held with four posts, the GOT can be stably placed on the attachment. When you use the GOT, you can quickly remove it and start operation.



For details



GT25 rugged model

Wide operating temperature range model with a stylish metal housing

2

Hardware



For the details of the GT25 rugged model, please refer to the Graphic Operation Terminal GOT2000 Series Rugged Model catalog (L(NA)08555ENG).

Suitable for outdoors or in non air-conditioned rooms

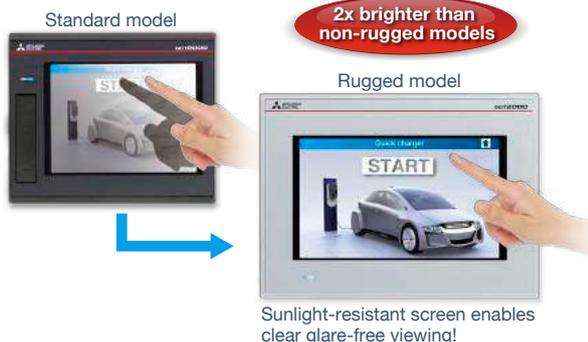
The working ambient temperature has been expanded to -20°C to 65°C. The high-brightness LCD panel (2 times brighter than non-rugged models) provides a clear screen view when installed outdoors. The rugged model is ultraviolet ray resistant with an environmental protection sheet that has UV protection function.

* Note that the structure does not guarantee protection in all users' environments.

High brightness, clear visibility under daylight

The high-brightness LCD panel (1000 cd/m²*) provides a clear screen view even under strong sunlight.

* Brightness of independent panel.

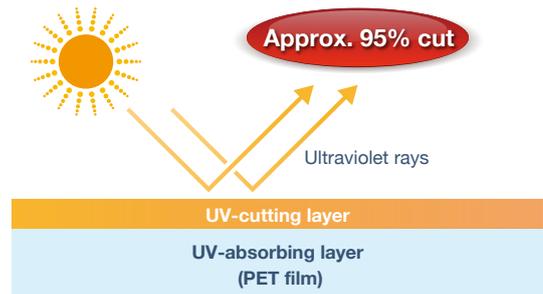


Item	Specifications
Display Resolution	7" widescreen, TFT color LCD, 65536 colors WVGA
Backlight	White LED
Panel material	Aluminum
User memory	Memory for storage (ROM): 32 MB Memory for operation (RAM): 128 MB
Standard interface	Ethernet (2 ports), RS-232, RS-422/485 USB host (USB-A): 1 channel (USB 2.0 (High-Speed 480 Mbps)) USB device (USB Mini-B): 1 channel (USB 2.0 (High-Speed 480 Mbps)) Sound output interface (ø3.5 minijack), SD memory card interface
Extension interface	-
Wireless LAN communication unit interface	For installing a wireless LAN communication unit
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!

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.



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.



GT25 rugged model external appearance [front face/rear face]



1 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.

2 Ethernet interface (2 ports)

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

3 RS-422/485 interface

Connect to various industrial devices and barcode readers.

4 RS-232 interface

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

5 Sound output interface (φ3.5 minijack)

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

6 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

7 USB interface: device (USB Mini-B)

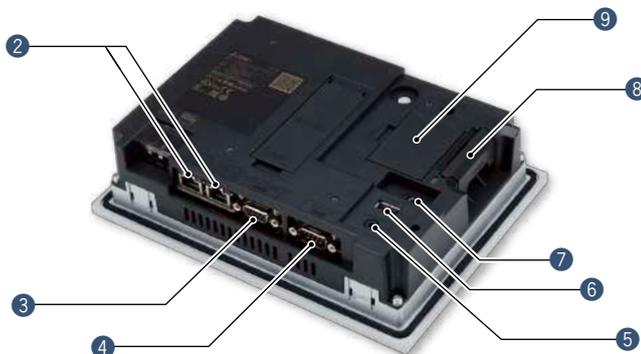
Connect to a personal computer and transfer data.

8 SD memory card interface

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

9 Wireless LAN communication unit interface

Install a wireless LAN communication unit.



For details



GT25 open frame model

A new style of GOT2000

2

Hardware



For the details of the GT25 open frame model, please refer to the Graphic Operation Terminal GOT2000 Series White & Open catalog (L(NA)08414ENG).



GOT complements machine design

Installing the GOT2000 from the back side of the control panel complements the machine-design surface. Using a stainless-look environmental protection sheet allows the touch panel to blend into the production machines for the pharmaceutical and food industries.

Item	Specifications
Display	8.4"/10.4"/12.1", TFT color LCD, 65536 colors
Resolution	SVGA, VGA
Backlight	White LED
User memory	Memory for storage (ROM): 32 MB Memory for operation (RAM): 80 MB
Standard interface	Ethernet, 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)) SD memory card interface
Extension interface	CC-Link IE TSN NEW , CC-Link IE Control, CC-Link IE Field, CC-Link, bus, MELSECNET/H
Side interface	For installing a wireless LAN communication unit

IP67F protection

To conform to IP67F, attach an environmental protection sheet.* GOT can be operated with wet hands, wiped with a damp cloth, and washed with water.

* 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.



Suitable for pharmaceutical and food industries

Flush surface without any gaps and grooves prevents dust, dirt, and debris from accumulated on the edge.



■ GT25 open frame model external appearance [front face/rear face]



1 Touch panel

Using an environmental protection sheet (optional or prepared by the users) is required.

2 Unit installation fitting

Fittings to install GOT to a panel are included.

3 Extension interface

Communication and option units can be installed.

4 Ethernet interface

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

5 RS-232 interface

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

6 RS-422/485 interface

Connect to various industrial devices and barcode readers.

7 Side interface

Install a wireless LAN communication unit.

8 SD memory card interface

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

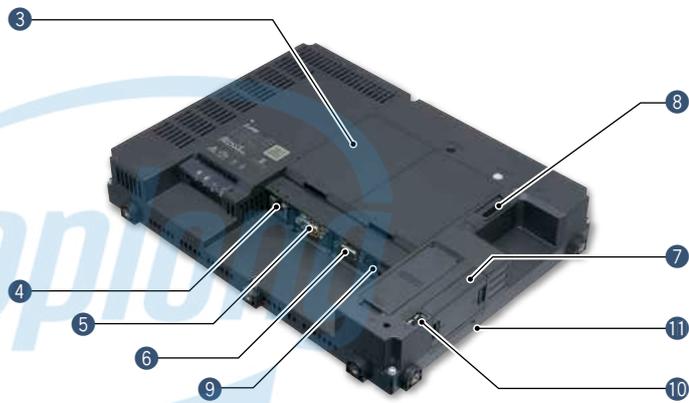
9 USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.

10 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



11 POWER LED

Check the power supply status.

INDUSTRIAL AUTOMATION

■ Easy installation

Adjustable to various panels

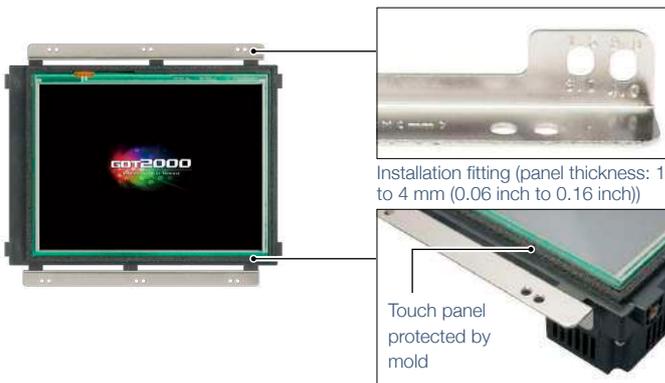
The installation fitting is adjustable from 1.5 mm to 4 mm of the control panel thickness. GOT can adjust the difference of the control panel thickness. Vertical installation is also available.

Designed for safe installation

The edge of the touch panel is protected to prevent damage to the touch panel or injury by touching the sharp edge. It is possible to safely install the GOT.

Dedicated installation fittings

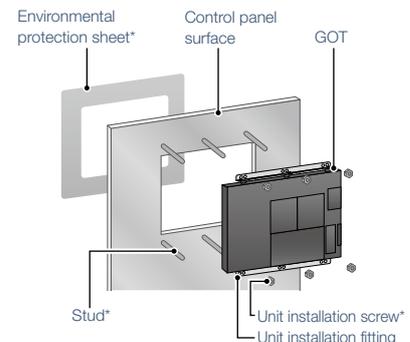
Attach appropriate installation fittings (vertical/horizontal) depending on the installation orientation.



Installation fitting (panel thickness: 1.5 mm to 4 mm (0.06 inch to 0.16 inch))

Touch panel protected by mold
Designed for safe installation

Installation instructions



* An environmental protection sheet (optional or prepared by the users), studs and screws (prepared by the users) are required separately.

GT23 model

Unchallenged cost performance



A wide variety of specifications suit every system design

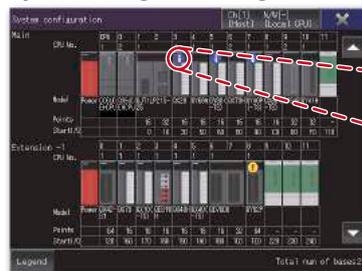
Communication interfaces such as Ethernet, RS-232, RS-422/485, USB host/device and SD memory card are standard features. Advanced interactive features such as data logging, multi-channel communication, and FA transparent function are supported.

Item	Specifications
Display	8.4"/10.4", TFT color LCD, 65536 colors
Resolution	VGA
Backlight	White LED
User memory	Memory for storage (ROM): 9 MB Memory for operation (RAM): 9 MB
Standard interface	Ethernet, RS-232, RS-422/485 USB host (USB-A): 1 channel (USB 1.1 (Full-Speed 12 Mbps)) USB device (USB Mini-B): 1 channel (USB 1.1 (Full-Speed 12 Mbps)) SD memory card interface

Use the System Launcher function and quickly check the system status!

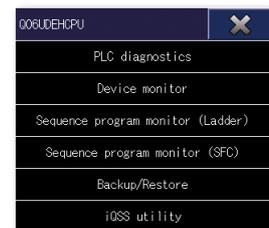
A graphical system configuration diagram indicates module statuses. When you touch a module the extended function list is shown and you can carry out maintenance work efficiently.

System configuration diagram



Icons show the module status. You can check the module with an error at a glance.

Extended functions menu



■ GT23 model external appearance [Standard model: front face/rear face]



1 Simple design

The simple design with a linear motif is sleek and complements any machine design.

2 Flat body

The front flat screen is easy to clean. (USB interface is on the back.)

3 Ethernet interface

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

4 RS-232 interface

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

5 RS-422/485 interface

Connect to various industrial devices and barcode readers.

6 USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.

7 USB interface: host (USB-A)

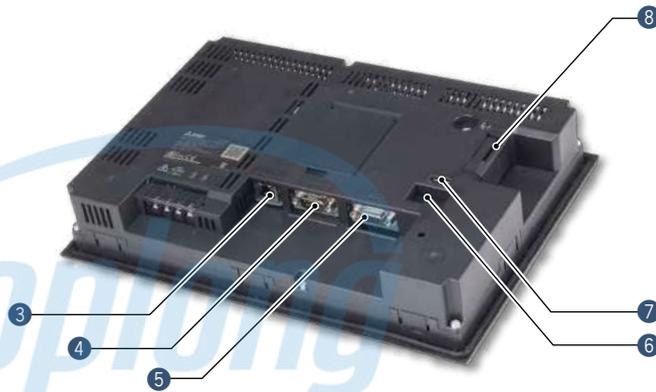
Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory.

A USB mouse, keyboard, barcode reader*, or RFID reader* can also be connected.

* USB keyboard (HID) compatible model only

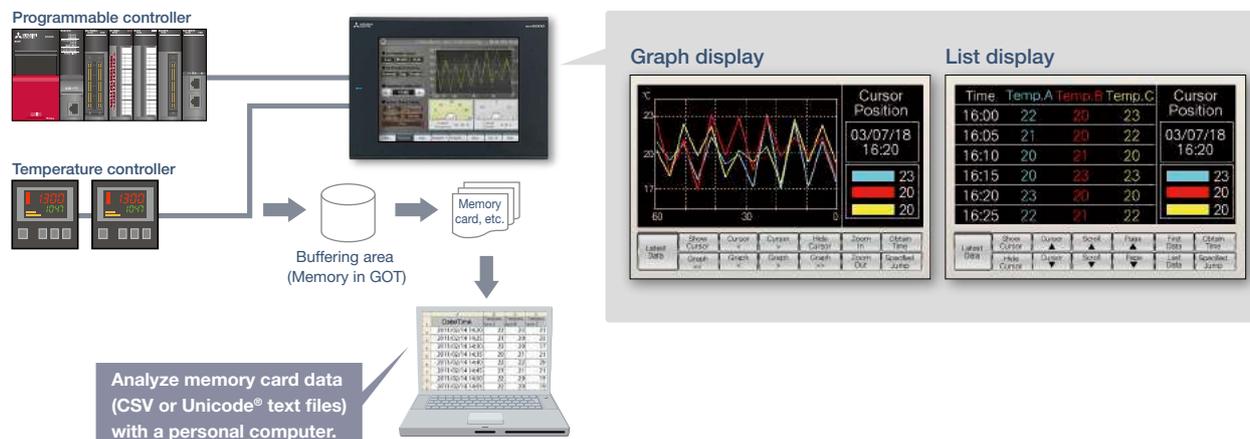
8 SD memory card interface

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



Easily collect log data and display it in graphs and lists

Use the GOT to collect data from the programmable controller and temperature controllers. The data can be displayed in graphs and lists. It can also be exported to a personal computer for further analysis. The logging data can be saved in the built-in SRAM even if the power fails.



For details

Concept movie



GT21 wide model

Expands possibilities of GT21 models

2

Hardware



Smart silver

Cool black

For the details of GT21 wide models, please refer to the Graphic Operation Terminal GOT2000 Series Wide Model catalog (L(NA)08461ENG).

The highest resolution screen in the GT21 models, with various built-in interfaces

The GOT2000 wide models are available in a choice of silver and black. In addition to the high resolution display, 65536 colors of LCD improves quality of screen display. The first GT21 model with the USB host enables you to connect a USB mouse and keyboard, or transfer data using a USB memory. In addition, Ethernet printers can be used.

Item	Specifications
Display	7" widescreen, TFT color LCD, 65536 colors
Resolution	WVGA
Backlight	White LED
User memory	Memory for storage (ROM): 15 MB
Standard interface	Ethernet, RS-232, RS-422/485 USB host (USB-A): 1 channel (USB 1.1 (Full-Speed 12 Mbps)) USB device (USB Mini-B): 1 channel (USB 1.1 (Full-Speed 12 Mbps)) SD memory card interface

Widescreen displays large amounts of information

High resolution WVGA screen has sufficient display area for long alarm messages.

5 times higher resolution greatly increases expressiveness

Standard GT1055-Q

QVGA 320 x 240 dots



Wide GT2107-W

WVGA 800 x 480 dots



Remote monitoring provides wide access to application

Remote monitoring with the VNC server function is now available on GT21. By remotely connecting to GOT from personal computer or tablet, you can operate, monitor production equipment and connect to system devices.

* GT2107-W only among GT21 models.



Enhanced graphics

Outline fonts can now be used on GT21 model. Antialiasing smoothes out jagged text edges and displays clear characters, offering improved visibility of screen display.

* GT2107-W only among GT21 models.

Standard 16dot HQ Gothic

Happy

Wide Outline Gothic (antialiasing enabled)

Happy

Clear characters improves visibility

GT21 wide model external appearance [front face/rear face]



1 USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.

2 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

3 Ethernet interface

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

4 RS-422/485 interface

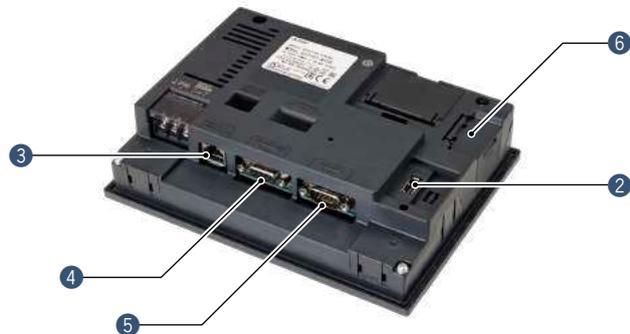
Connect to various industrial devices and barcode readers.

5 RS-232 interface

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

6 SD memory card interface

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



GT21 model

GT2104-R

Compact model with exciting possibilities



Widescreen type compact model!

High resolution, 480 × 272 dot display realized in a compact body!

Item	Specifications
Display	4.3", TFT color LCD, 65536 colors
Resolution	480 × 272 dots
Backlight	White LED
User memory	Memory for storage (ROM): 9 MB
Standard interface	Ethernet, RS-232, RS-422/485 USB device (USB Mini-B): 1 channel (USB 1.1 (Full-Speed 12 Mbps)) SD memory card interface

Wide screen display fits a lot of data!

The wide model shows a large amount of information on a 65536 color display.



GT1045-QSBD

4.7 inch Screen size: 4.7 inch
Resolution: 320 × 240
Display color: 256 colors



GT2104-RTBD

4.3 inch Screen size: 4.3 inch
Resolution: 480 × 272
Display color: 65536 colors

Resolution

1.5 times wider in horizontal direction

GT2104-R external appearance [front face/rear face]



1 Simple design

The simple design with a linear motif is sleek and complements any machine design.

2 Flat body

The front flat screen is easy to clean. (USB interface is on the back.)

3 USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.

4 Ethernet interface

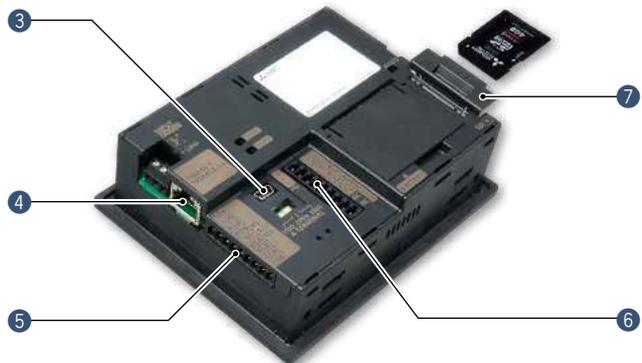
Use Ethernet to simultaneously connect up to two types of industrial devices from different manufacturers. CC-Link IE Field Network Basic compatible devices can also be connected.

5 RS-422/485 interface

Connect to various industrial devices and barcode readers.

6 RS-232 interface

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



7 SD memory card interface

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

■ **GT2103-PMBD**

Small screen, big possibilities



Small, compact, easy to operate!

Ethernet built into a compact body!
The intuitively understandable 5-color backlight offers choices of backlight color and backlight blink according to machine operation state.

Item	Specifications
Display	3.8", monochrome (black/white), 32 shade grayscale TFT LCD display
Resolution	320 × 128 dots
Backlight	5-color LED (white, green, pink, orange, red)
User memory	Memory for storage (ROM): 3 MB
Standard interface	Ethernet, RS-422/485 USB device (USB Mini-B): 1 channel (USB 1.1 (Full-Speed 12 Mbps))
Extension interface	For installing an SD memory card unit

High-definition LCD

GT2103 is equipped with an easy to see, compact high-resolution TFT LCD with 32 gray scales.



GT1020
Monochrome (black/white) STN LCD

GT2103
Monochrome TFT LCD with 32 gray scales

* Comparison of GT1020 and GT2103-P

Same compact type, but so much clearer!

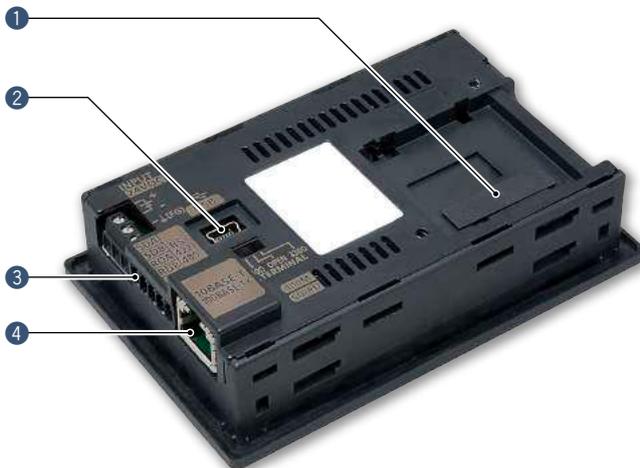
SD memory card unit is available!

SD memory cards can be used when the optional SD memory card unit is attached.



SD memory card unit **GT21-03SDCD**
Separate SD memory card is required.

■ **GT2103-PMBD external appearance [rear face]**



1 SD memory card unit interface

Connect an optional SD memory card unit and save data including alarms and logging data.

* Excluding GT2103-PMBLS

2 USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.

3 RS-422/485 interface

Connect to various industrial devices and barcode readers.

* Excluding GT2103-PMBDS2

* RS-422 on GT2103-PMBLS (dedicated to FX connection)

4 Ethernet interface

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

* GT2103-PMBD only

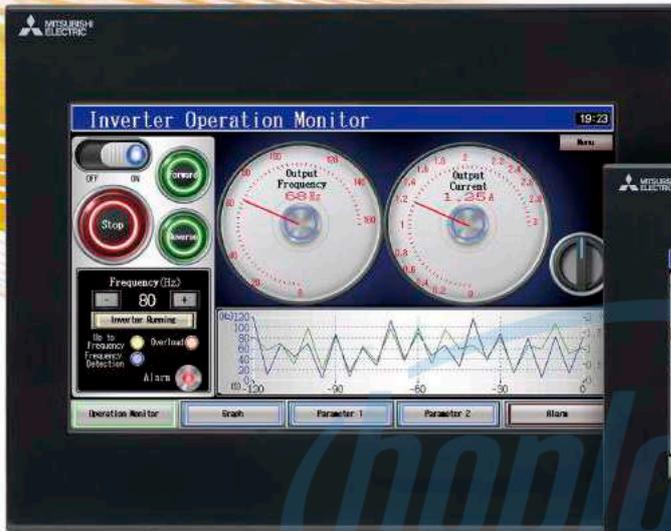
For details

Concept movie



GOT SIMPLE

Simple models with various user friendly features



10" widescreen GS2110-WTBD



7" widescreen GS2107-WTBD

Enhanced basic functions

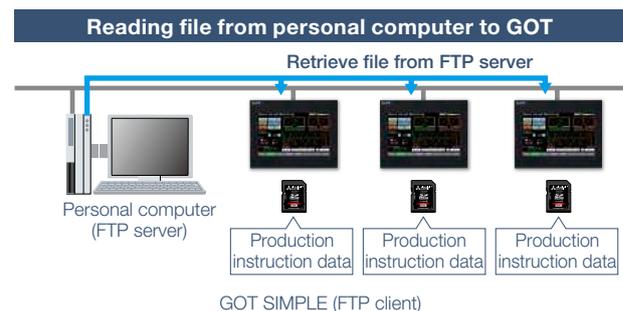
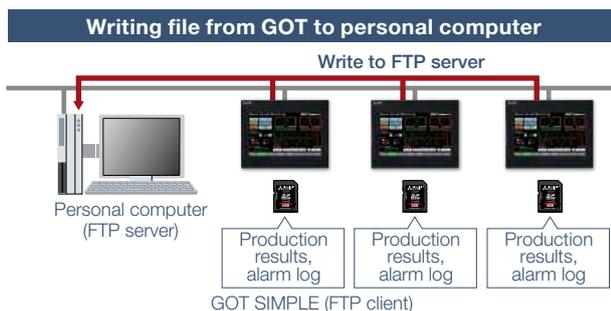
WVGA screen has sufficient display area for long alarm messages or wide trend graph display.

Not only Mitsubishi Electric industrial devices, but also third-party industrial devices can be connected to enable monitoring of the equipment. In addition, Ethernet printers can be used. **NEW**

Item	Specifications
Display Resolution	7"/10", TFT color LCD, 65536 colors WVGA
Backlight	White LED
User memory	Memory for storage (ROM): 9 MB
Standard interface	Ethernet, RS-232, RS-422 USB device (USB Mini-B): 1 channel (USB 1.1 (Full-Speed 12 Mbps)) SD memory card interface

Easily exchange data with FTP

By using GOT, production results and alarm logs can be stored in an SD memory card of the GOT (FTP client) and sent to a personal computer (FTP server). The GOT can also receive the production instruction data from the personal computer.



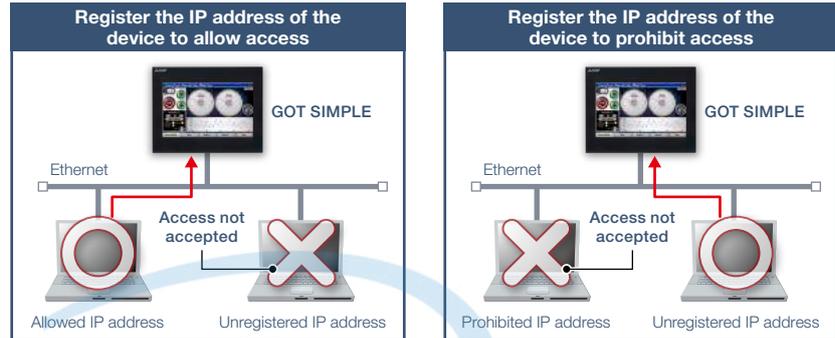
Security with password management

Setting the operation authority and the viewing authority per operator achieves “enhanced security” and “prevention of improper operation”. Operator authentication can be performed at startup and when the screen is switched.



IP filter function

Registering the IP address of the device which can access the GOT restricts the access from unauthorized devices. Registering the IP address of the device to prohibit access is also possible.



Backup important programs for safety in case of an error

Sequence programs can be replaced even without a personal computer. When the programs and parameters are backed up in GOT*1, the data and machine operation can instantly be restored even if an unexpected failure occurs.

*1 A separate SD memory card is required.

*2 The target connection devices are QCPU, LCPU, FX5UCPU and FXCPU.



■ GOT SIMPLE Series external appearance [front face/rear face]



1 GOT front face

IP65F front face protection is useful for various production machines and facilities.

2 Ethernet interface

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

3 RS-232 interface

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

4 RS-422 interface

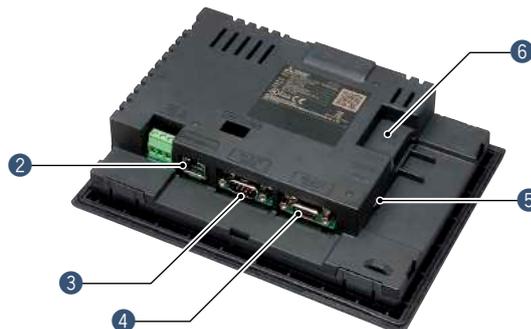
Connect to various industrial devices and barcode readers.

5 USB interface: device (USB Mini-B)

Connect to a personal computer and transfer data.

6 SD memory card interface

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



GOT2000 compatible HMI software

GT SoftGOT2000

Turn your personal computer or panel computer into GOT2000

For details



For the details of GT SoftGOT2000, please refer to the GT SoftGOT2000 Solutions catalog (L(NA)08606ENG).

License key (for USB port)

3 GT SoftGOT2000

High affinity with GOT2000 Series

Functions equivalent to the GOT2000 Series can be used in GT SoftGOT2000. The project data created with HMI/GOT Screen Design Software GT Works3 can be used by converting it into the GT SoftGOT2000 data.

► For the supported functions, see “Function list” on page 148.

Same operability with GOT2000 Series

In addition to touch operations, long press can also be used. Using momentary switches and delay settings enables safe operation and improves operability.



MI3000 with GT SoftGOT2000

► GT SoftGOT2000 is preinstalled on MELIPC MI3000. For the details, see page 184.

System configurations

GT SoftGOT2000 can be used in single channel connection that monitors one channel and in multi-channel connection that enables monitoring up to four channels of industrial devices. Select the connection type to match your system configuration.

Single channel connection (GT SoftGOT2000)

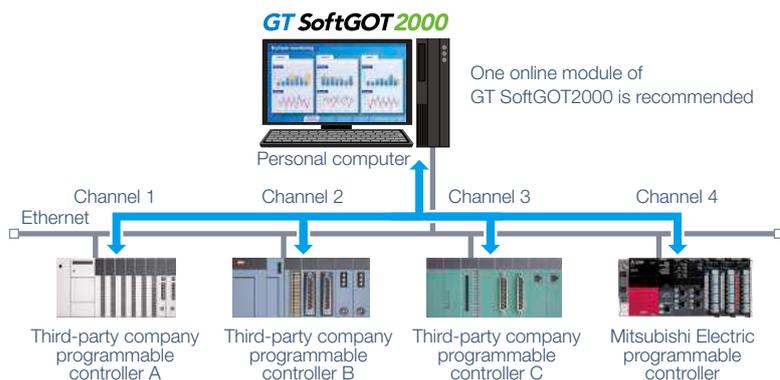
Connectable in all communication types that are supported by GT SoftGOT2000.



Multi-channel connection (GT SoftGOT2000 (Multi-channel))

NEW

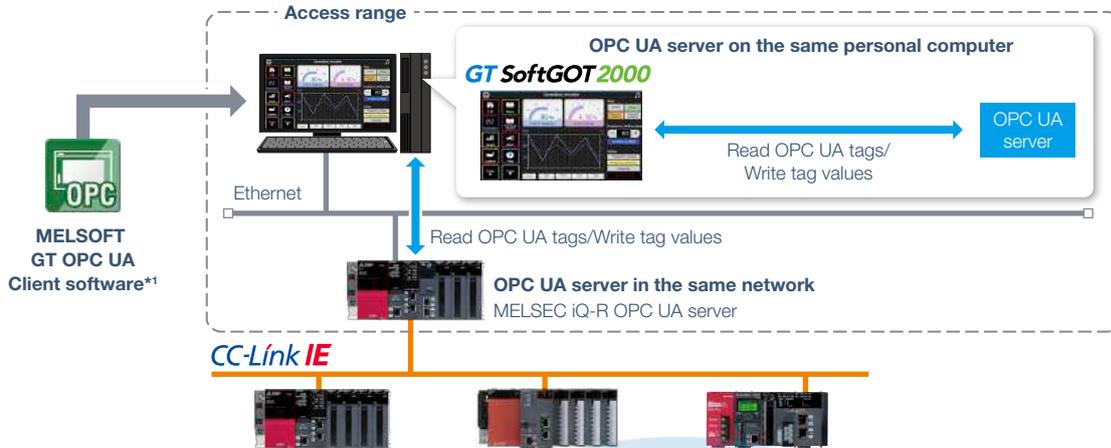
Multi-channel connection is supported in Ethernet connection, connection with OPC UA servers, and microcomputer connection only. Up to four channels of industrial devices can be monitored on a single module of GT SoftGOT2000.



Connectable to OPC UA servers NEW

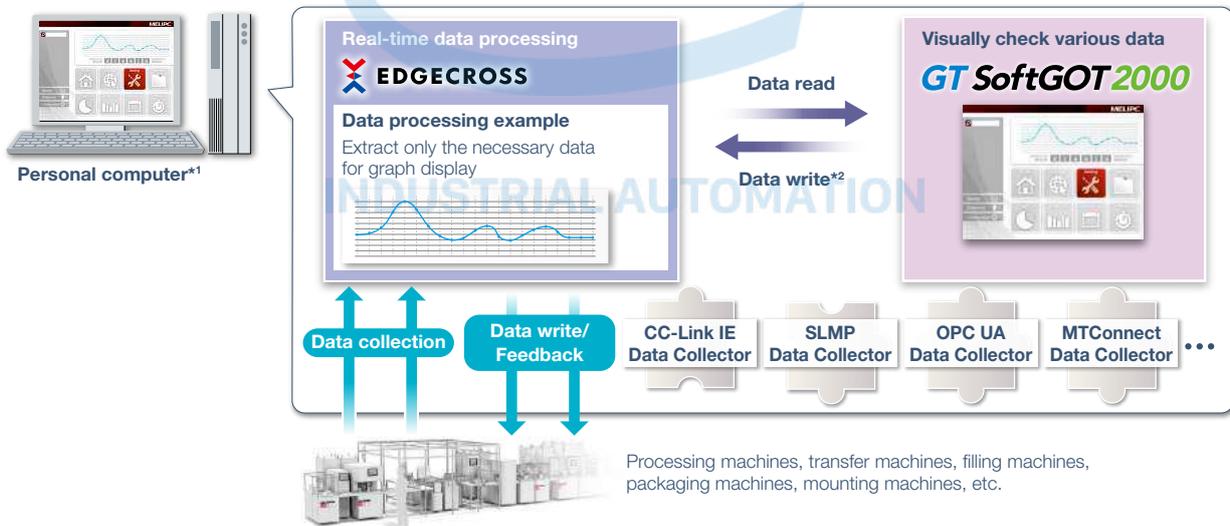
GT SoftGOT2000 accesses an OPC UA server as an OPC UA client.*1

*1 To connect to OPC UA servers, installation of MELSOFT GT OPC UA Client software is required. To use the OPC UA client connection, use Windows® 7 OS or later. For more information about how to obtain the software, please contact your local sales office.



Edgexross interaction

Edgexross is the open software platform in Japan in the edge computing field that coordinates factory automation and IT systems. Edgexross analyzes and diagnoses data near the shop floor and enables real time feedback to the production, data collection, and sending or receiving data to/from facilities and equipment regardless of vendors and network types. The data collected by Edgexross can be easily visualized and analyzed using various functions such as trend graph display on GT SoftGOT2000.



*1 It is required to install Edgexross Basic Software, Data Collector, and GT SoftGOT2000 on a personal computer.

*2 To write data from GT SoftGOT2000 to Edgexross Basic Software, installation of MELSOFT GT OPC UA Client software is required separately.

Flexible resolution setting

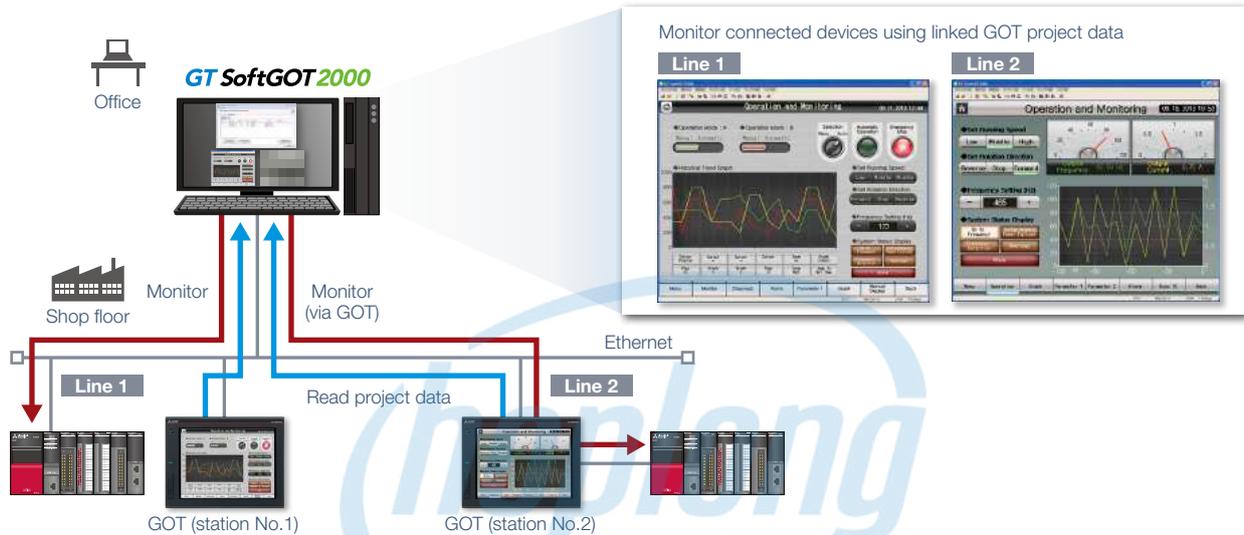
The users can flexibly specify resolutions to change the screen size depending on the information device to use.



The same screens as the on-site GOT can be monitored on an office computer (SoftGOT-GOT link function)

If GOT is used at the shop floor, GT SoftGOT2000 reads project data from the GOT via Ethernet, and uses the project data to monitor connected devices. There is no need to create project data dedicated for GT SoftGOT2000 and quick remote monitoring of industrial devices is enabled via Ethernet. Since GT SoftGOT2000 can also display a different screen from the one shown on the GOT at the shop floor, monitoring on GT SoftGOT2000 does not affect shop floor operation. In addition, exclusive control of authorization is provided as standard to prevent simultaneous operations and ensure safe operation.

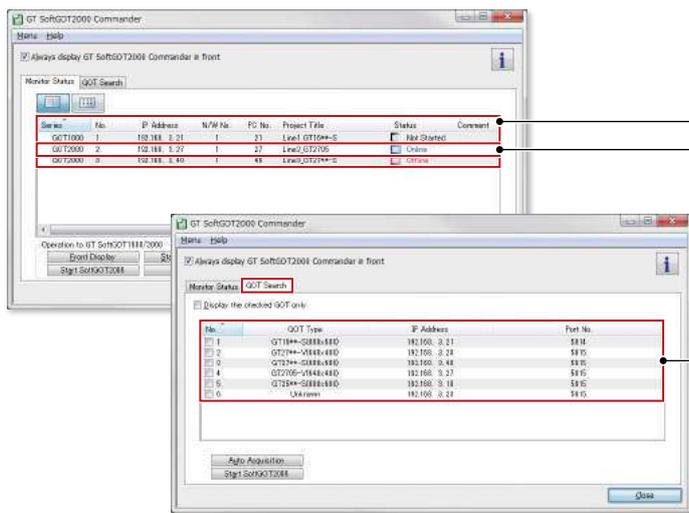
* SoftGOT-GOT link function is supported by GT27 and GT25. Not supported by GT23, GT21, and GS21.



GT SoftGOT2000 Commander makes monitoring work efficient

When using the SoftGOT-GOT link function, GT SoftGOT2000 Commander can be used to collectively check the monitoring status of GT SoftGOT2000 modules, and start or stop monitoring of the modules.

* GT SoftGOT2000 Commander is a software included in GT Works3, the same as GT SoftGOT2000.



Effective usage when there are multiple GOTs that use the SoftGOT-GOT link function

The list shows which GT SoftGOT2000 module is linked to which GOT, and each monitoring status. Since it is recommended to use up to four modules of GT SoftGOT2000 online simultaneously, after starting up 20 modules of the software, up to four modules can be set online and thus large-scale systems can be monitored efficiently.

Managing start/stop of monitoring is easy

Double-click the Comment column of each line to switch between Online and Offline, or between Not started and Online (Offline).

- Online: during monitoring
- Offline: stopped monitoring

Automatically search for GOTs to monitor

GOTs that can use the SoftGOT-GOT link function can be searched.

Building advanced systems

Windows® applications can be started up from GT SoftGOT2000.

The data of GT SoftGOT2000 internal devices can be read and written from the user-created applications. Interaction between GT SoftGOT2000 and user-created applications enables the users to control or manage data by own method.

* GD, GS, GB, SGB, or SGD internal devices can be used.

* For the supported applications, please refer to the GT SoftGOT2000 Version1 Operating Manual.



Starting up other applications with a touch switch on the GT SoftGOT2000 screen

By creating a touch switch on the GT SoftGOT2000 screen in advance, it is possible to start other applications (such as Microsoft® Excel®) while monitoring GT SoftGOT2000. Interaction between equipment monitoring and personal computer applications makes monitoring work efficient.

Starting up Microsoft® Excel®

The data collected by GT SoftGOT2000 can be checked in a graph quickly.



Starting up GX Works3

MI3000 at the shop floor monitors sequence programs without bringing a laptop computer.

* GX Works3 should be installed in advance.



MI3000 with GT SoftGOT2000

► For the details of MI3000, see page 184.

Automatic startup

By using scripts, other applications can be started automatically by setting conditions such as when an error occurs or specific device values. (GS devices are used to control the function.)

GOT Solutions INDEX



GOT Smart Web-based Remote Solutions 32

• GOT Mobile function	34	• VNC server function	37
• iQ Monozukuri ANDON Upgraded	35	• SoftGOT-GOT link function	38
• iQ Monozukuri Process Remote Monitoring NEW	36	• Remote personal computer operation function (Ethernet)	39

GOT Easy Drive Control (Servo) Interactive Solutions 40

• Drive recorder function	44	• Servo amplifier monitor function	51
• Servo amplifier graph function NEW	45	• Intelligent module monitor function	52
• Machine diagnosis function	46	• R motion monitor function/ Q motion monitor function	52
• Servo amplifier life diagnosis function	47	• Motion SFC monitor function	53
• One-touch tuning function/Tuning function	48	• Motion program editor function NEW	54
• System launcher (servo network) function	49	• GOT Drive Plus (paid template screens) NEW	55
• Power monitor	50		
• Alarm display function	50		

GOT Easy Drive Control (Inverter) Interactive Solutions 56 NEW

• Parameter settings (simple mode)/ Parameter recipe (simple backup/restoration)	58	• Machine diagnosis (load characteristics measurement)	60
• Batch monitor	59	• Inverter life diagnosis	61
• Operation command	59	• FA transparent	61

GOT Easy Drive Control (Robot) Interactive Solutions 62

• Interactive functions to support startup and maintenance of robots	62
---	----

Sophisticated Programmable Controller Interactive Features 63

• Sequence program monitor (SFC) function	63	• FX list editor function & FX ladder monitor function	65
• Sequence program monitor (Ladder)/ Sequence program monitor (iQ-R ladder) function	64	• Log viewer function	66

Maintenance, Troubleshooting and Diagnostics Features 67

• Backup/Restoration function	67	• Network monitor function	71
• System launcher function Upgraded	68	• Alarm function	72
• CC-Link IE Field Network diagnostics	69	• Document display function Upgraded	73
• FA transparent function	70	• GOT diagnostics function	74
• Device monitor function	71		

Hardware Features 75

• Compatible with environmental standards	75	• Multimedia function	78
• Wireless LAN communication unit	76	• Video display/RGB display/ Video output function Upgraded	79
• Ethernet communication unit	76		
• Sound output function	77		

Security & Additional System Features 80

• Recipe function Upgraded	80	• Printing hard copies and reports Upgraded	87
• Recipe display (record list)	81	• Base screen size expansion NEW	88
• Writing resource data	82	• Changing comments without using GT Designer3 NEW	89
• Various security functions	83	• Regarding FDA 21 CFR Part 11 support	90
• Operation log function Upgraded	84	• Logging & Graph/List Upgraded	91
• Operator authentication function	85	• Gesture function	92
• Network drive NEW	86		

Data Handling Features 93

• MES interface function	93	• File transfer function Upgraded	95
• File manager function Upgraded	94		

Interactive Features with Other Industrial Devices 96

• Multi-channel function/ Device data transfer function	96	• Standard screen samples, Function samples	100
• Interaction function with CNCs	97	• Connection samples, iQSS related samples	101
• iQSS utility function	98		
• e-F@ctory Starter Package (free of charge sample project) NEW	99		

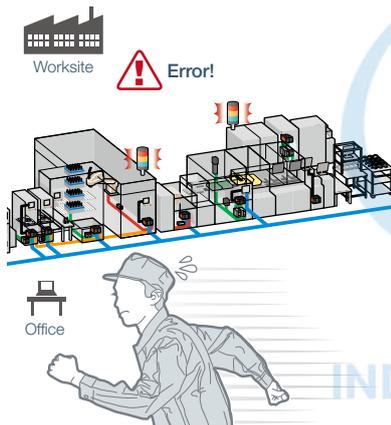
GOT Smart Web-based Remote Solutions



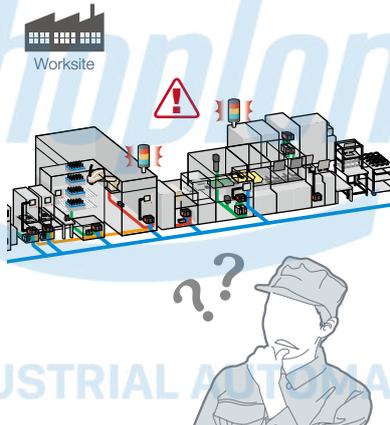
4

Monitor your worksite from a remote location

■ Can I check the equipment status from a remote location?



■ Can I check the situation without visiting the worksite?



■ Can I view manuals and drawings in a personal computer in my office from the worksite?



GOT offers various remote monitoring and operation functions that can be used for various applications depending on your needs. The GOT remote solutions increase efficiency in various applications from startup, adjustment, to maintenance using mobile devices and personal computers. The GOT2000 improves visualization accessibility and reduces total cost of ownership.

■ Comparison of remote maintenance functions

Item	Monitor or operate GOT or connected devices from a personal computer or tablet					Monitor a personal computer from GOT
	GOT Mobile function P.34	iQ Monozukuri ANDON Upgraded P.35	iQ Monozukuri Process Remote Monitoring NEW P.36	VNC server function P.37	SoftGOT-GOT link function P.38	Remote personal computer operation function (Ethernet) P.39
Number of simultaneous connections from clients	○ Maximum 5	—	—	× Simultaneous connection prohibited (1 to 1 only)	○ Maximum 7*1	—
Monitor a different screen on each client	○	—	—	× Always monitor the same screen as on GOT	△ *2	—
Drawing performance	○	○	○	△	○	—
Viewing application	Web browser (Google Chrome, Safari)	GT SoftGOT2000 (license key required separately)	GT SoftGOT2000 (license key required separately)	VNC viewer (freeware*3)	GT SoftGOT2000 (license key required separately)	—
Required options	License (register on GOT)	License (register on PC), License key (attach to PC)	License (register on PC), License key (attach to PC)	License (register on GOT)	License key (attach to PC)	License (register on GOT)
Authorization exclusive control	○	○	○	○	○	—
Screen display	Supported objects (touch switch, etc.)	△ Some functions are different from GOT	○ Same as GOT	○ Same as GOT	○ Same as GOT	—
	Monitoring functions (sequence program monitor, etc.)	× Not supported	× Not supported	○ Same as GOT	× Not supported	—

*1 When using the GOT network interaction function, multiple clients can be connected simultaneously. Note that restrictions exist depending on the connection type between GOT and the connected device.

*2 When a GOT internal device is used as the screen switching device, each client can display a different screen.

*3 For the VNC client software that can be used, please refer to the Technical Bulletin GOT-A-0069 on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa).

Safety precautions

When the GOT Mobile function, the VNC Server function, the SoftGOT-GOT link function, the remote personal computer operation function (Ethernet), or iQ Monozukuri products is used to perform remote control of control equipment, the field operator may not notice the remote control, possibly leading to an accident. In addition, a communication delay or interruption may occur depending on the network environment, and remote control of control equipment cannot be performed normally in some cases. Before using these functions to perform remote control, fully grasp the circumstances of the field site and ensure safety.

■ Use GOT remote functions effectively in your worksites

■ Monitor and operate GOT from multiple remote locations

- ▶ GOT Mobile function 34
- ▶ SoftGOT-GOT link function 38



■ Implement the ANDON system easily

- ▶ GOT Mobile function 34
- ▶ iQ Monozukuri ANDON **Upgraded** 35

■ Check the data in a PC in your office from the worksite

- ▶ Remote personal computer operation function (Ethernet) 39

■ Monitor GOT at high speed

- ▶ GOT Mobile function 34
- ▶ SoftGOT-GOT link function 38



■ Create remote monitoring screens without extra efforts

- ▶ VNC server function 37
- ▶ SoftGOT-GOT link function 38

■ Use various monitoring functions remotely (sequence program monitor, etc.)

- ▶ VNC server function 37

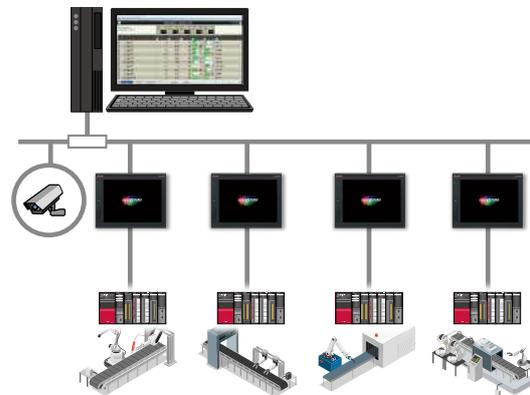
■ Monitor and operate GOT using different screens depending on the information device

- ▶ GOT Mobile function 34



■ Manage information of multiple devices

- ▶ iQ Monozukuri Process Remote Monitoring **NEW** 36



Monitor your worksite from a remote location



GOT Mobile function

Having problems?

Worksite

GOT will solve your problems!

Check the status of the worksite using a web browser.

Outside of the clean room

An error occurred. How do I deal with it?

From a remote location

What is the problem cause?

From your office

Other usage

What's the progress? Any problems?

On a large screen

Up to five operators

Equipment A has an error

Monitor production with one PC

Can I check the equipment status from a remote location?

Check the equipment status using a web browser on tablets from a remote location. Up to five information devices can simultaneously access a single GOT so that you can view and operate a different screen on each device.

* Up to five clients can connect to one GOT at the same time.

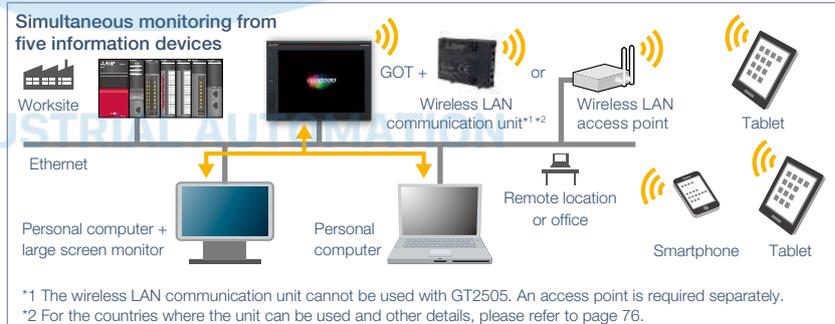
Function features

Via GOT at the worksite, connected devices can be monitored from computers and tablets in a remote location.

* A separate license (GT25-WEBSKEY) is required.

Safe with security and exclusive control

Exclusive control of authorization prevents accidents that might be caused by simultaneous operations in the same network. (GOT network interaction*) Set passwords to control monitoring and operation. *1 For the details, please refer to page 38.



GOT2000 Series
GOT Mobile Function
Application Examples
(L(NA)08464ENG).



Flexibly design screens depending on the device
* Maximum 3000 x 3000 dots

Smartphone size

Tablet size

PC size

Full HD size

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

- **Objects, figures, functions that can be used with the GOT Mobile function** There are some restrictions on the objects, figures, and functions that can be used on information devices such as tablets. For the details, please refer to the relevant product manual.
- **Precautions for the GOT Mobile function** Please refer to the Technical Bulletin No. GOT-A-0090 on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).
- **Peripheral devices** For the VPN connection and the peripheral devices compatible with other Mitsubishi industrial devices, please contact your local sales office.

Recommended industries

- Automotive
- SEMICON, LCD
- Electronics
- F & B
- Pharma
- Plant

Supported GOT types

- GT27
- GT25
- GT23
- GT21
- GS21
- SoftGOT

Supported devices

- PLC
- Servo
- Inverter
- Robot
- CNC

Implement the ANDON system easily



Support system design

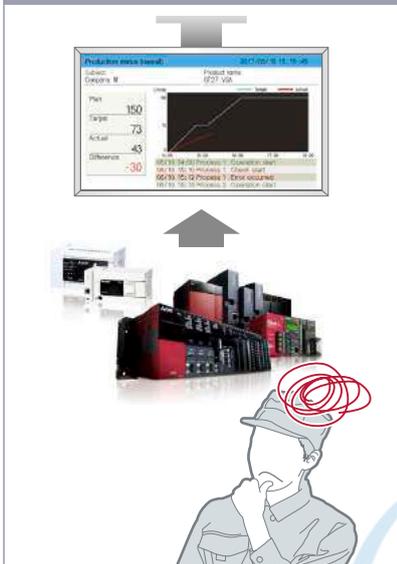


Support system operation

Upgraded

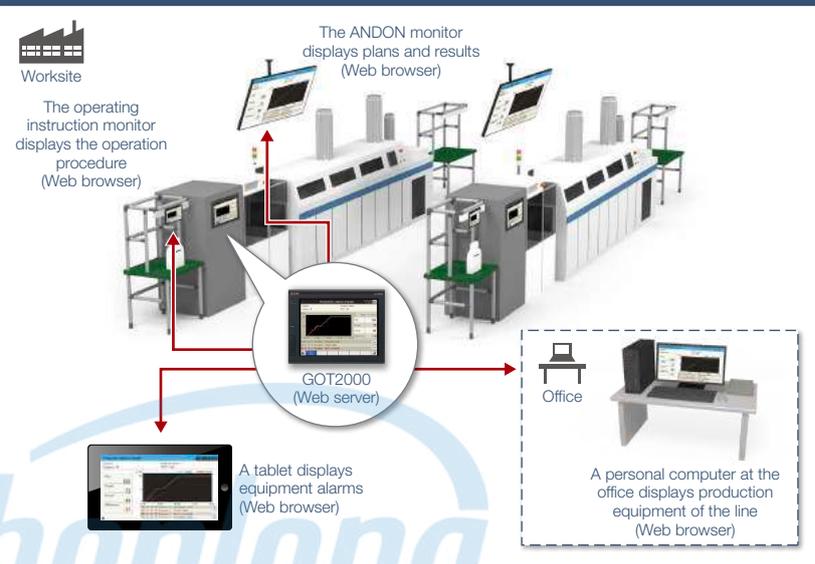
iQ Monozukuri ANDON

Having problems?



Can I implement the ANDON system at low cost and visualize the worksite?

GOT will solve your problems!



iQ Monozukuri ANDON is a simple ANDON* package that easily enables visualization of production sites using GOT2000 and a general-purpose web browser. Information obtained from production equipment is displayed on the monitor for ANDON via GOT2000, allowing sharing of the production site information to enable visualization.

* ANDON system visualizes information (production status, alarms) that is obtained from production equipment, sharing the information among site workers, a manager, and a maintenance personnel.

Function features

If you have equipment that can be connected to GOT2000, an ANDON system can be configured easily. The dedicated setting tool (Contents Publisher) allows you to set/change the display of ANDON screens even without programming knowledge for configuring the ANDON system. * iQ Monozukuri ANDON package is required separately.

Monitoring multiple devices with DB (database) mode **NEW**

The production information of multiple lines is collected in real-time in ANDON DB (database), and displayed on the ANDON monitor by transferring the data via GOT.

Concept movie

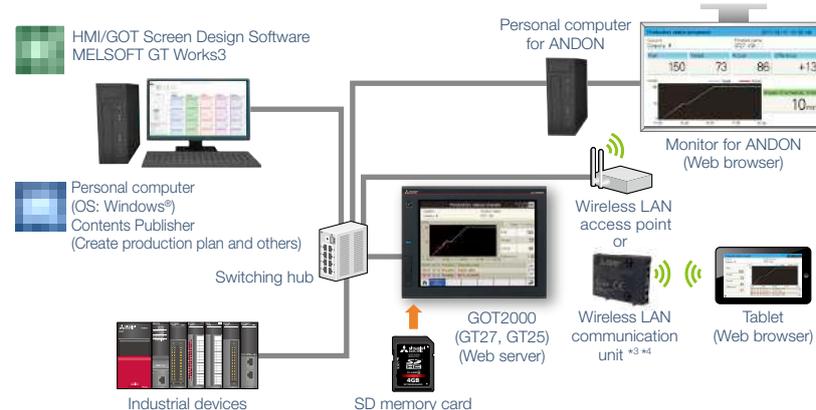


For more details, please refer to the iQ Monozukuri ANDON catalog (L(NA)08487ENG).

System configuration example*1

iQ Monozukuri ANDON package*2

- 1 Contents Publisher
- 2 Project file of the GOT for iQ Monozukuri ANDON (template screens)
- 3 GOT Mobile function license
- 4 License for iQ Monozukuri ANDON



*1 The system configuration of the DB (database) mode differs from this example. For the details, please refer to the catalog on the left.

*2 Used by transferring to a personal computer, GOT2000 or an SD memory card.

*3 The wireless LAN communication unit cannot be used with GT2505. An access point is required separately.

*4 For the countries where the unit can be used and other details, please refer to page 76.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

Easily monitor multiple devices from a remote office

NEW

iQ Monozukuri Process Remote Monitoring

Having problems?

GOT will solve your problems!

How can I effectively use the information separately stored in each device?

Manufacturing process and productivity of the whole production can be improved by analyzing the data aggregated and visualized on GT SoftGOT2000. The operation status of the shop floor and the information such as operation logs and alarms can be collected from each equipment via an on-site GOT.

Function features

IoT technologies can be easily introduced to the shop floor, and the information of multiple equipment can be collected, visualized, and managed collectively. The template project for GT SoftGOT2000 makes it easy to startup systems. In addition, a dedicated setting tool (Process Remote Monitoring setting tool) can be used to collectively manage (read/edit/write) the information of operators registered on on-site GOTs.



For more details, please refer to the iQ Monozukuri Process Remote Monitoring catalog (L(NA)08674ENG).



GT SoftGOT 2000

Collecting information from on-site GOTs

Writing data to on-site GOTs

Up to 50 GOTs*1

*1 Up to five GOTs can be managed for each license. To manage information of 50 GOTs, purchase the product including 10 licenses.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21*	GS21	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

* Supported only by the models equipped with an Ethernet port.

Operate the GOT from a remote PC or tablet



Support system operation

VNC server function

Having problems?

GOT will solve your problems!

A problem occurred at the worksite in a remote location. Can I check the situation without visiting the worksite?

You do not need to visit the worksite. Monitor and operate the GOT from a remote location, and you can take corrective actions quickly.

* One client can connect to one GOT at the same time.

Function features

Remotely view and operate the GOT screen from information devices such as a personal computer and tablet. No dedicated screens are required.

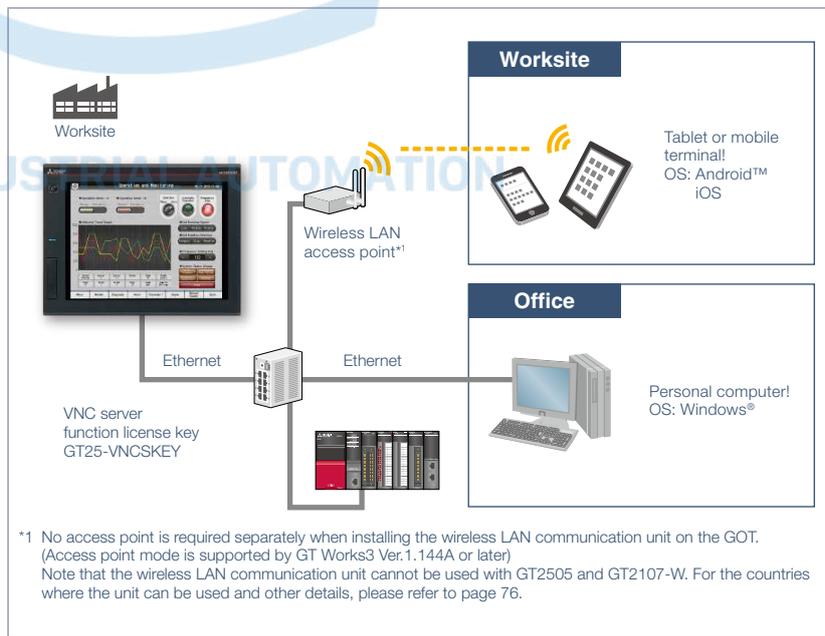
* A separate license (GT25-VNCSKEY) is required.
* Supported by GT2107-W only among GT21 models.

Same operations as GOT

Utility functions including the sequence program monitor and the network monitor are also supported on computers and tablets.

Safe with security and exclusive control

Exclusive control of authorization prevents accidents that might be caused by simultaneous operations in the same network. (GOT network interaction*)
Set passwords to control monitoring and operation. * For the details, please refer to page 38.



Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

● **Applicable VNC client software** Please refer to the Technical Bulletin No. GOT-A-0069 on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

● **Peripheral devices** For the VPN connection and the peripheral devices compatible with other Mitsubishi Electric industrial devices, please contact your local sales office.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21*	GS21	SoftGOT

Supported devices

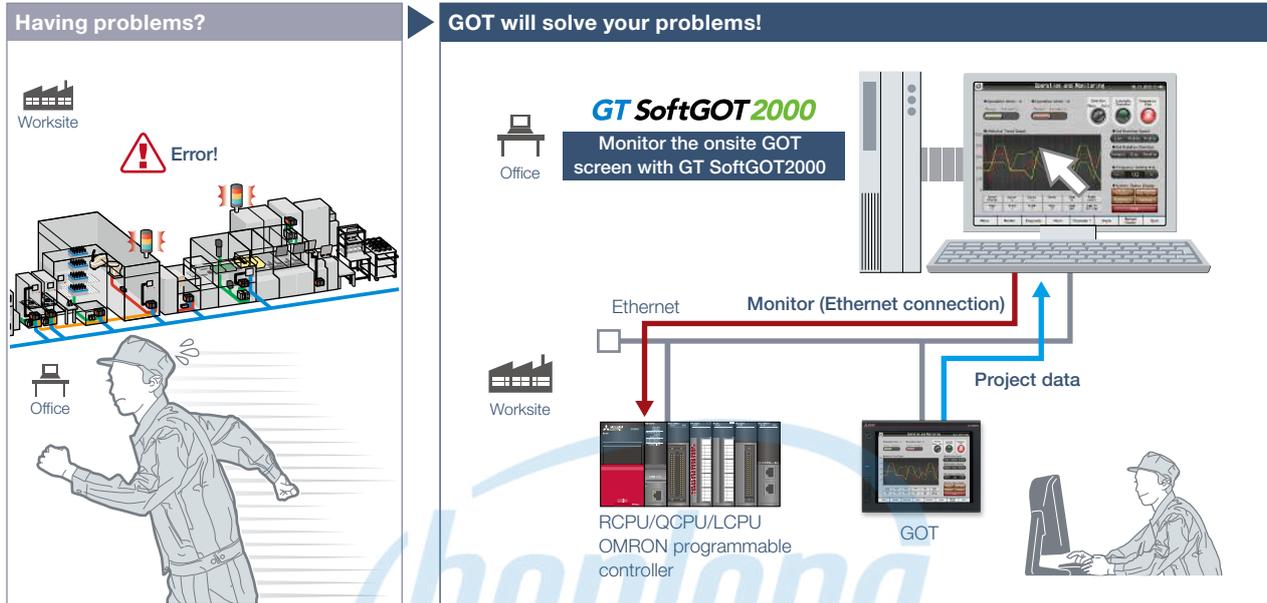
PLC	Servo	Inverter
Robot	CNC	

* GT2107-W only. For the details, refer to the function descriptions above.



Remote monitoring with SoftGOT

SoftGOT-GOT link function



A problem occurred at the worksite. Can I check the situation in my office?

Without creating screens for remote monitoring, check the worksite on GT SoftGOT2000 by reading project data from GOT at the worksite.

Function features

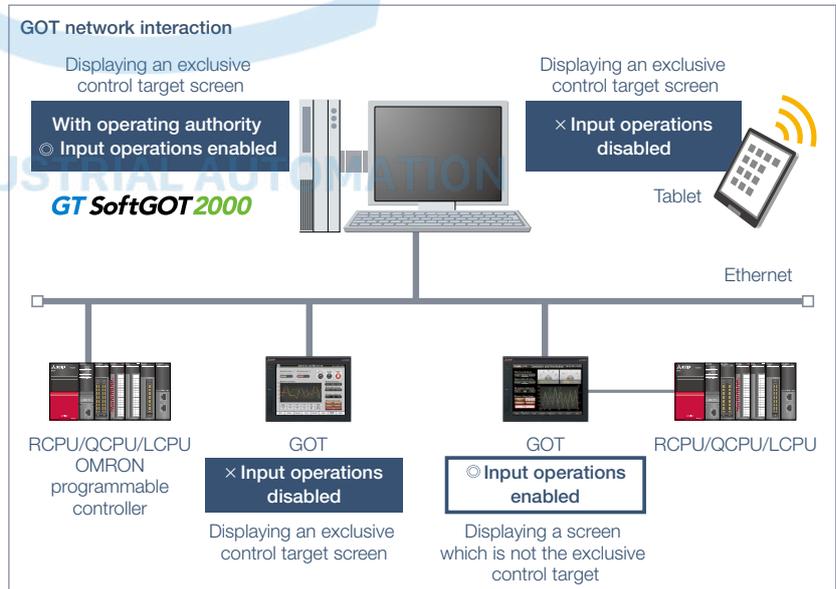
Read project data from the GOT connected to GT SoftGOT2000 via Ethernet, and you can monitor the devices that are connected to the GOT on different screens from the one shown on the GOT.

* A separate license key (GT27-SGTKEY-U) is required.

Safe with security and exclusive control

Exclusive control of authorization prevents accidents that might be caused by simultaneous operations in the same network. The exclusive control can be enabled/disabled for each screen. (GOT network interaction)

Set passwords to the GOT project data and prevent invalid access.



Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

- **Various peripherals** RCPUC, QCPU, LCPU, OMRON programmable controller, MELIPC, CNC C70, robot controller (F Series (CR750-Q, CR751-Q, CR750-D, CR751-D), SQ Series (CRnQ-700 (Q172DRCPU)), SD Series (CRnD-700), FR Series (CR800-Q (Q172DSRCPU)))
- **Functions that can be used in GT SoftGOT2000** In GT SoftGOT2000, some functions available in GOT2000 series cannot be used. For the details, please refer to the relevant product manual.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

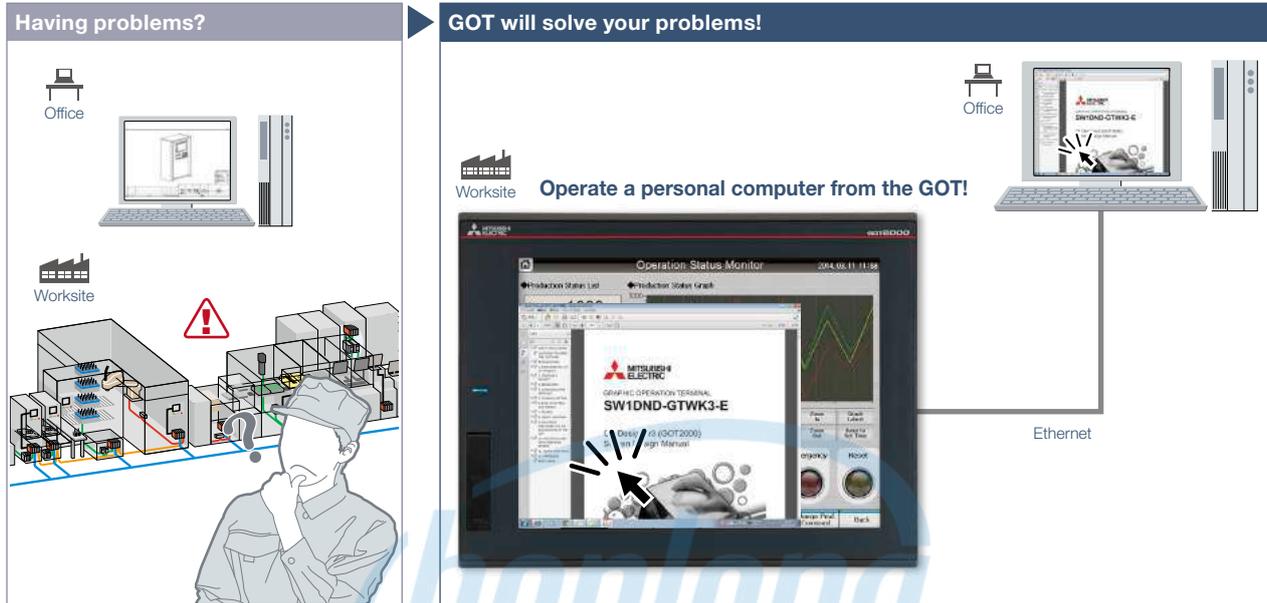
Supported devices

PLC	Servo	Inverter
	Robot	CNC

Operate the PC from a remote GOT



Remote personal computer operation function (Ethernet)



How can I view manuals and drawings in a personal computer in my office from the worksite?

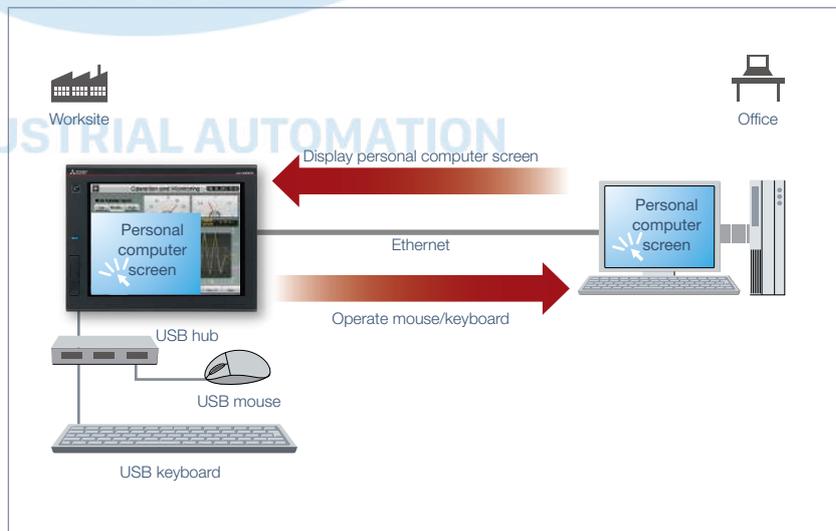
On GOT at the worksite, you can operate a personal computer in a remote location and view manuals and drawings in the computer.

Function features

Connect GOT at the worksite to a personal computer in a remote location via Ethernet. This allows you to remotely operate the personal computer and view manuals and access the web browser on the computer.

* A separate license (GT25-PCRAKEY) is required.

Connecting a USB mouse/keyboard to the front (or rear) USB interface makes it easier to operate the personal computer.



* For the necessary option devices, please refer to the "Function list" (page 148).

Recommended industries

Electronics F & B Plant

Supported GOT types

GT27 GT25 GT23
GT21 GS21 SoftGOT

Supported devices

PLC Servo Inverter
Robot CNC

GOT Easy Drive Control (Servo) Interactive Solutions

MITSUBISHI GRAPHIC OPERATION TERMINAL
GOT2000
MITSUBISHI SERVO AMPLIFIERS & MOTORS
+ MELSERVO-J4

Designed to suit your application and improve maintenance



For the details, please refer to the GOT2000 Drive Control (Servo) Interactive Solutions catalog (L(NA)08335ENG).

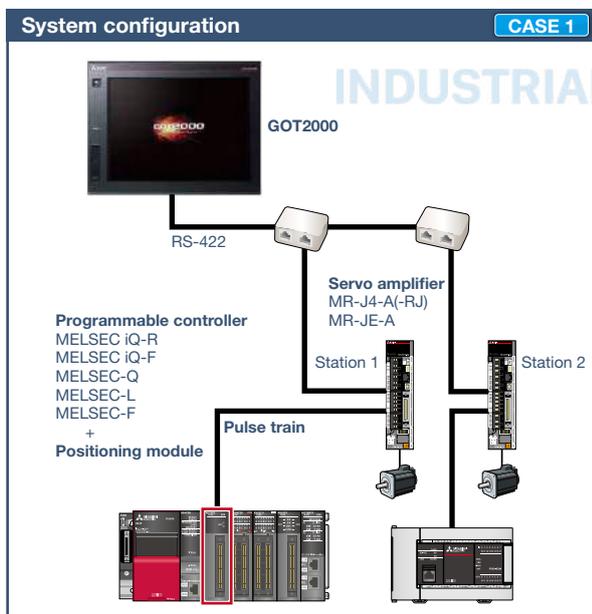
GOT Drive



GOT2000 Series Drive Control Interactive Solutions Movie ▶



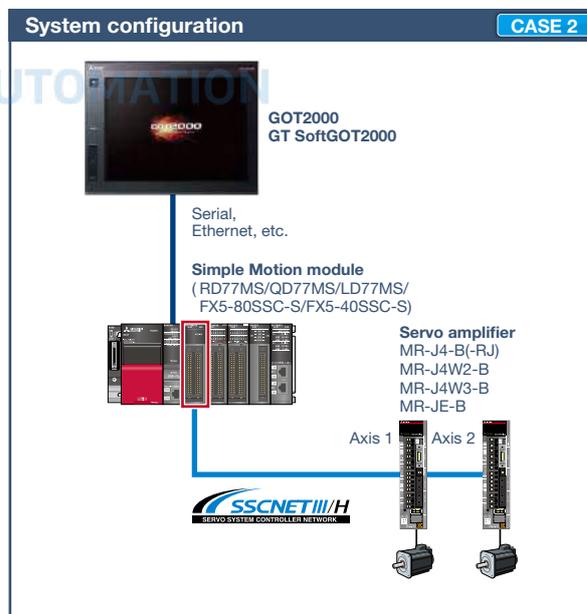
■ GOT and servo system configurations



■ System configuration features

- Command interface: pulse train
- Control mode: positioning control
- Program: sequence program (ladder)
- Max. number of control axes: 1/2/4/8/32 axes

* Cannot be used in the MR-J3 compatible mode.

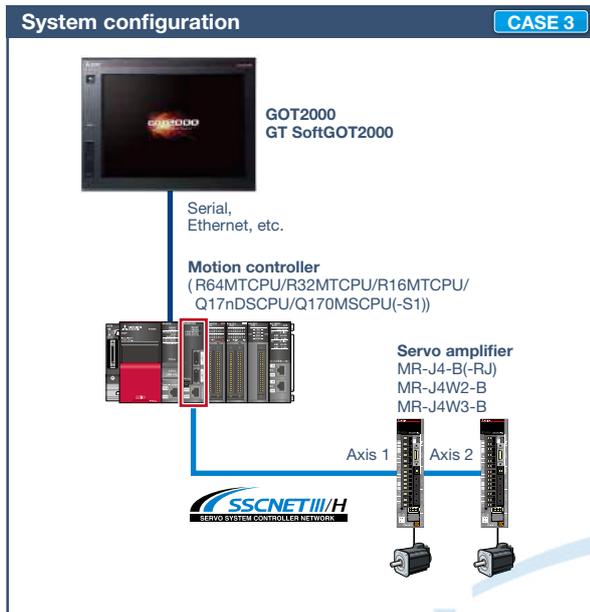


■ System configuration features

- Command interface: SSCNET III/H
- Control mode: positioning control, synchronous control, speed control, torque control, tightening & press-fit control, cam control
- Program: sequence program (ladder)
- Max. number of control axes: 2/4/8/16 axes

* Cannot be used in the MR-J3 compatible mode.

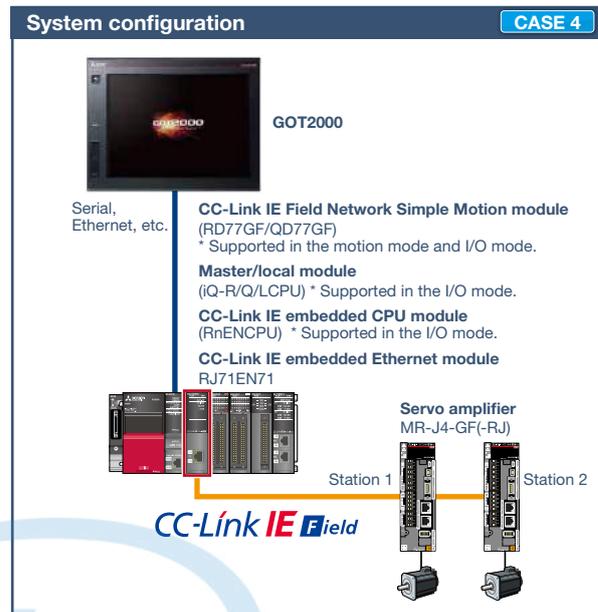
■ GOT and servo system configurations



■ System configuration features

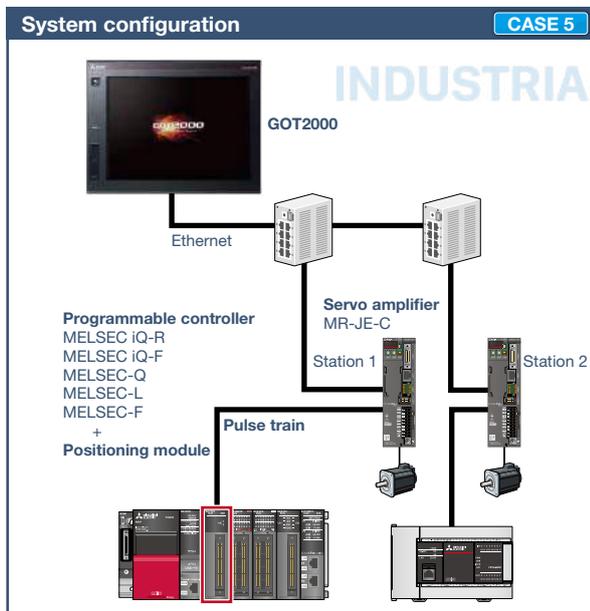
- Command interface: SSCNET III/H
- Control mode: positioning control, synchronous control, speed control, torque control, tightening & press-fit control, cam control
- Program: motion program (SFC)
- Max. number of control axes: 16/32/64 axes

* Cannot be used in the MR-J3 compatible mode.



■ System configuration features

- Command interface: CC-Link IE Field Network
- Control mode: positioning control, synchronous control, speed control, torque control, cam control
- Program: sequence program (ladder)
- Max. number of control axes: 4/8/16/32 axes



■ System configuration features

- Command interface: pulse train
- Control mode: positioning control, speed control, torque control
- Program: sequence program (ladder)
- Max. number of control axes: 1/2/4/8 axes

The GOT2000 provides advanced functionality and improves connectivity with Mitsubishi servo systems. It provides some functions of MR Configurator2 (supporting MR-J4). The GOT Drive enhanced functionality is designed to eliminate need for additional hardware, software and suits customers' applications to speed up system startup, improve maintenance and troubleshooting.



■ Drive control interactive functions and supported models (GT Works3 Ver.1.225K)

Supported drive control interactive functions differ depending on the system configuration. Please refer to the following list.

Function name		Page	GOT supported models					Supported system configuration							
			GT 27	GT 25	GT 23	GT 21/GS 21	GT Soft GOT 2000 ⁷	CASE 1							
								MR-J4-A(-RJ)			MR-JE-A				
			Function available	Sample screen ^{*1,9}	Dedicated screen ^{*2}	Function available	Sample screen ^{*1}	Dedicated screen ^{*2}							
Startup, adjustment	Parameter setting	Basic setting parameters	—	○	○	○	○	○	●	◎ ^{*5}	○	×	×		
		Gain/Filter parameters	—	○	○	○	○	○	○	●	◎ ^{*5}	○	×	×	
		Extension setting 1 parameters	—	○	○	○	○	○	○	●	◎ ^{*5}	○	×	×	
		Extension setting 2 parameters	—	○	○	○	○	○	○	●	◎ ^{*5}	○	×	×	
		Extension setting 3 parameters	—	○	○	○	○	○	○	●	◎ ^{*5}	○	×	×	
		I/O setting parameters	—	○	○	○	○	○	○	●	◎ ^{*5}	○	×	×	
		Linear servo/DD motor setting	—	○	○	○	○	○	○	●	◎ ^{*5}	—	—	—	
	Test operation	JOG operation	—	○	○	○	○	○	○	●	◎ ^{*5}	○	×	×	
		Positioning operation	—	○	○	○	○	○	○	●	◎ ^{*5}	○	×	×	
		Output signal (DO) forced output	—	○	○	○	○	○	○	●	△ ^{*5}	○	×	×	
	Adjustment	One-touch tuning function	P.48	○	○	○	○	○	○	●	—	○	×	—	
		Tuning function	P.48	○	○	○	○	○	○	●	—	○	×	—	
		Servo amplifier graph function	P.45	○	○	×	×	×	×	—	×	×	—	×	
		FA transparent function ^{*4}	—	○	○	○	×	—	—	—	—	—	—	—	
Maintenance	Troubleshooting	System launcher (servo network) function	P.49	○	○	×	×	×	—	—	—	—	—	—	
		Drive recorder function	P.44	○	○	×	×	×	×	—	×	×	—	×	
		Servo amplifier graph function	P.45	○	○	×	×	×	×	—	×	×	—	×	
		Backup/Restoration function	—	○	○	○	×	×	×	—	—	×	—	—	
		Operation monitor	—	○	○	○	○	○	○	○	●	△ ^{*5}	○	×	×
		Power monitor	P.50	○	○	○	○	○	○	○	●	—	○	×	—
		Input/output monitor	—	○	○	○	○	○	○	○	●	△ ^{*5}	○	×	×
		R motion monitor function ^{*4}	P.52	○	○	×	×	×	—	—	—	—	—	—	
		Q motion monitor function ^{*4}	P.52	○	○	×	×	×	—	—	—	—	—	—	
		Motion SFC monitor function ^{*4}	P.53	○	○	×	×	×	—	—	—	—	—	—	
		Motion program editor function	P.54	○	○	×	×	×	—	—	—	—	—	—	
		Servo amplifier monitor function	P.51	○	○	×	△	×	○	●	◎	×	×	×	
		Intelligent module monitor function ^{*4}	P.52	○	○	×	×	×	○ ^{*3}	—	◎	○ ^{*3}	—	◎	
	Alarm display function	P.50	○	○	○	○	○	○	○	●	—	○	×	—	
	Predictive maintenance	Machine diagnosis function	P.46	○	○	○	○	○	○	○	●	—	○	×	—
		Failure prediction function	—	○	○	○	○	×	—	—	—	—	—	—	
		Switching axis numbers (station numbers) of servo amplifiers	—	○	○	○	○	○	○	○	●	—	○	×	—
Servo amplifier life diagnosis function		P.47	○	○	○	○	○	○	○	●	—	○	×	—	
Screen design	Utilizing screen data	—	○	○	○	○	○	○	○	—	—	○	—	—	
GOT Drive Plus (paid template screens)		P.55	○	○	×	×	×	—	—	—	—	—	—		

*1 The sample screen is the project data that is included in GT Works3 (Ver.1.225K). Sample screens are not supported by GT23.
 *2 The dedicated screen is the screen that is provided as the extended function of GOT; therefore there is no need for the users to create the screen.
 *3 In the system configuration of CASE 1 (page 40) and CASE 5 (page 41), the function can be used by adding wiring between GOT and programmable controller.
 *4 The supported version of GT Works3 differs depending on the type of connected device (CPU, intelligent function module).
 *5 Parameters of the function can be monitored by using the servo amplifier monitor function in the dedicated screen.
 *6 Usable when the GOT and the programmable controller (iQ-R only) are connected via Ethernet, and the programmable controller and the servo amplifier are connected via the CC-Link IE Field Network.

●: Sample screens available ◎: Dedicated screens available ○: Function supported △: Partially supported -: Not applicable ×: Not supported

Supported system configuration											
CASE 2/CASE 3			CASE 2			CASE 4 NEW			CASE 5 NEW		
MR-J4-B(-RJ) MR-J4-W2-B MR-J4-W3-B			MR-JE-B			MR-J4-GF(-RJ)			MR-JE-C		
Function available	Sample screen ^{*1*9}	Dedicated screen ^{*2}	Function available	Sample screen ^{*1*10}	Dedicated screen ^{*2}	Function available	Sample screen ^{*1}	Dedicated screen ^{*2}	Function available	Sample screen ^{*1}	Dedicated screen ^{*2}
○	●	-	○	●	-	○	×	-	○	×	-
○	●	-	○	●	-	○	×	-	○	×	-
○	●	-	○	●	-	○	×	-	○	×	-
○	●	-	○	●	-	○	×	-	○	×	-
○	●	-	○	●	-	○	×	-	○	×	-
○	●	-	○	●	-	○	×	-	○	×	-
○	●	-	-	-	-	○	×	-	-	-	-
-	-	-	-	-	-	○	×	-	-	-	-
○	●	-	○	●	-	○	×	-	○	×	-
○	●	-	○	●	-	○	×	-	○	×	-
○	●	-	○	●	-	○	×	-	○	×	-
○	●	-	○	●	-	○	×	-	○	×	-
○	●	-	○	●	-	○	×	-	○	×	-
○	-	◎	○	-	◎	×	-	×	×	-	×
○	-	-	○	-	-	-	-	-	-	-	-
○	-	◎	○	-	◎	-	-	-	-	-	-
○	-	◎	○	-	◎	○	-	◎	×	-	×
○	-	◎	○	-	◎	×	-	×	×	-	×
○ ^{*8}	-	-	×	-	-	○ ^{*6}	-	-	×	-	-
○	●	-	○	●	-	MR-J4-GF only	×	-	○	×	-
○	●	-	○	●	-	○	×	-	○	×	-
○	●	-	○	●	-	○	×	-	○	×	-
○ ^{*8}	-	◎	-	-	-	-	-	-	-	-	-
○ ^{*8}	-	◎	-	-	-	-	-	-	-	-	-
○ ^{*8}	-	◎	-	-	-	-	-	-	-	-	-
○ ^{*8}	-	◎	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
○	-	◎	○	-	◎	○	-	◎	○ ^{*3}	-	◎
○	●	-	○	●	-	○	×	-	○	×	-
○	●	-	○	●	-	○	×	-	○	×	-
-	-	-	-	-	-	○	×	-	-	-	-
○	●	-	○	×	-	○	×	-	○	×	-
○	●	-	○	●	-	○	×	-	○	×	-
○	-	-	○	-	-	○	-	-	○	-	-
○	●	-	-	-	-	-	-	-	-	-	-
○	(Template)	-	-	-	-	-	-	-	-	-	-

*7 Supported by using GT Works3 version 1.160S or later. GT SoftGOT2000 can be used in the system configuration of CASE 2 (page 40) and CASE 3 (page 41).
 *8 The function can be used in the system configuration of CASE 3 (page 41).
 *9 Sample screens are available for GT27**-V (640 × 480) and GT2104-R (480 × 272) only. The data can be used for GOTs with different resolutions by changing the GOT type.
 *10 Sample screens are available for GT27**-V (640 × 480) only. The data can be used for GOTs with different resolutions by changing the GOT type.

Check the servo amplifier data on GOT when an alarm occurs



Support maintenance work

Drive recorder function

Having problems?



GOT will solve your problems!

GOT2000

Drive recorder information list screen

Graph waveform screen

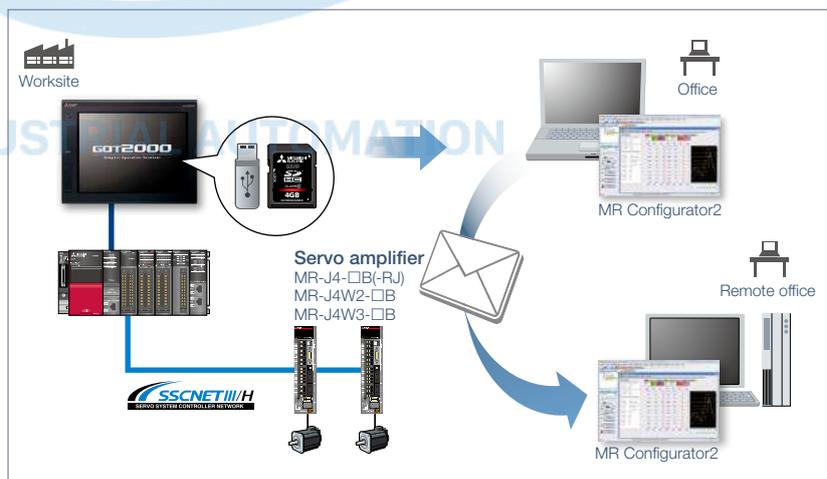
Check graph waveform from the alarm list!

In case of a system failure, is there a simple and quick way to check the problem cause?

Servo data such as motor current and position command before and after the alarm occurrence can be read from the servo amplifier and displayed in a waveform or a list form.

Function features

GOT can be used to display the screen equivalent to the drive recorder of MR Configurator2. Easily check the servo data (motor current, position command, etc.) on GOT without using a personal computer. The servo data can be stored on the GOT's SD memory card or USB memory. After obtaining the servo data, you can send it to an office in a remote location and quickly solve the problem.



Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

- **Target models** MELSERVO-J4 Series (MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B, MR-J4-□GF(-RJ)), MELSERVO-JE Series (MR-JE-□B)
- **Supported connection types***1 Connection via motion controller/Simple Motion module
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
- **How to obtain sample screens** The switch to start the drive recorder function has been added to the sample screen. Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions. MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B: Ver.1.155M or later.

Recommended industries

- Automotive
- Electronics
- F & B
- Pharma

Supported GOT types

- GT27
- GT25
- GT23
- GT21
- GS21
- SoftGOT

Supported devices

- PLC
- Servo
- Inverter
- Robot
- CNC

Support startup and maintenance of servo systems



Support maintenance work

NEW

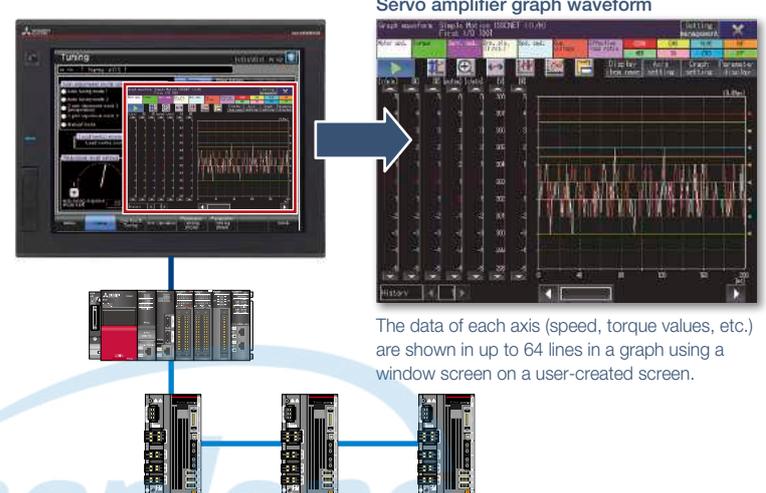
Servo amplifier graph function

Having problems?

If waveform data can be checked and adjusted on GOT, you do not need to bring a PC.



GOT will solve your problems!



Servo amplifier graph waveform

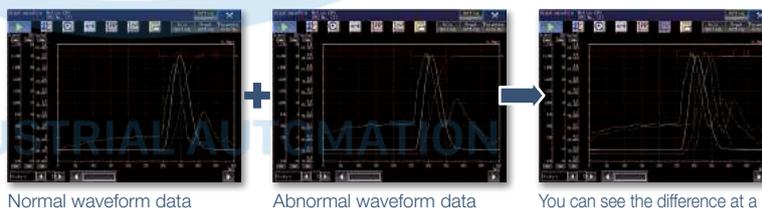
The data of each axis (speed, torque values, etc.) are shown in up to 64 lines in a graph using a window screen on a user-created screen.

Can I adjust gains while checking the waveform data at the worksite?

The servo amplifier graph function visualizes changes in operation of the equipment due to gain adjustment. Without using a personal computer, you can adjust gains and check parameter information efficiently.

Function features

Since gain adjustment and parameters check can be performed without using a personal computer, servo systems can be started up efficiently. Superimposing normal and abnormal waveform data and analyzing them helps in equipment maintenance.



Normal waveform data

Abnormal waveform data

You can see the difference at a glance by superimposing normal and abnormal waveform data

Displaying waveform data item names

By checking item names of waveform data while viewing the graph waveform screen, problems can be identified quickly.

Analyze the waveform data of a servo amplifier

In the servo amplifier graph function, a specific period of time can be set in the collection and trigger setting window. Then the waveform data that occurred within the set period and the parameter information can be buffered in a servo amplifier, and can be read out and displayed on the GOT. By saving a normal waveform data as a history, you can compare it with the data measured in the same conditions by superimposing them; therefore it is useful for equipment maintenance.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

● **Target models** MELSERVO-J4 Series (MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B), MELSERVO-JE Series (MR-JE-□B)

● **Supported connection types***1 Connection via motion CPU/Simple Motion module*2*3

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).

*2 When a programmable controller is connected to a servo amplifier through a Simple Motion module (SSCNET III/H), GOT and a motion CPU (Q Series) or GOT and CR800-Q (Q172DSRCPU) cannot be directly connected via Ethernet.

*3 When a servo amplifier is connected to the GOT through a motion CPU (Q Series), use a connection type other than the CC-Link IE Field Network connection between the CPU and the GOT. When the motion CPU and the GOT are connected by CC-Link connection (intelligent device station), set [MELSEC (compatible)] to the transmission path.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

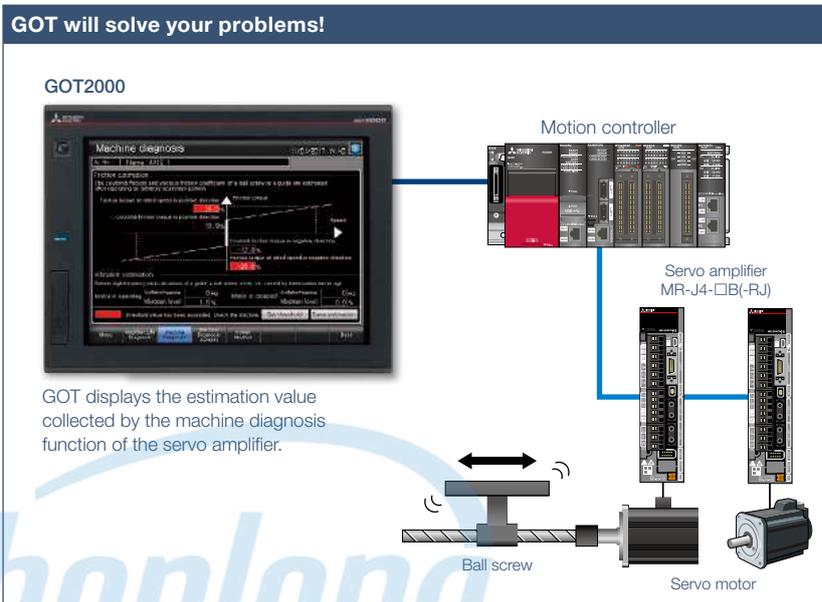
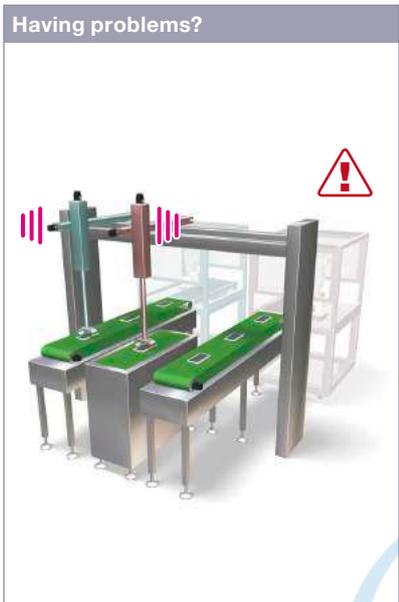
PLC	Servo	Inverter
	Robot	CNC

Support servo system maintenance



Support maintenance work

Machine diagnosis function



How can I predict deterioration of a machine if it has excessive load and is frequently accelerated?

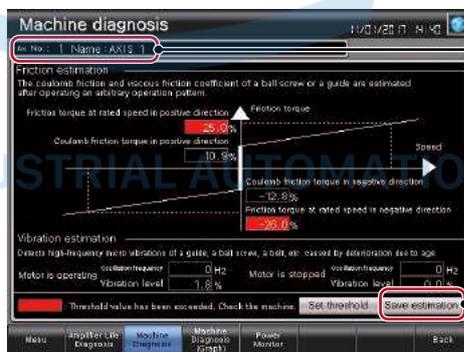
Without using a personal computer, you can predict the deterioration of the machine for easy preventive maintenance.

Function features

GOT displays the machine diagnosis screen that is equivalent to the maintenance functions of MR Configurator2. You can easily check the machine diagnosis information of servo amplifiers on the GOT without a personal computer.

Failure prediction function

When connecting to MR-J4-GF(-RJ), the servo amplifier detects and notifies deterioration of drive components. By grasping the failure prediction information of the production line and performing maintenance at appropriate time, operation rate of the whole production line can be increased.



By switching the axis number, multiple axes can be maintained on the same screen.

Save estimation values to a file and compare the values to check the deterioration of the machine.

Machine diagnosis screen*1

GOT displays estimation values (machine friction, torque vibration, etc.) that are collected by the machine diagnosis function of the servo amplifier. When any of the estimation values exceed the threshold values that are set on the GOT, the numerical value display area turns red.

*1 Ready to use sample screens (VGA) are available.

Specification details and restrictions

- **Target models** MELSERVO-J4 Series (MR-J4-□A(-RJ), MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B, MR-J4-□GF(-RJ)), MELSERVO-JE Series (MR-JE-□A, MR-JE-□B)
 - **Supported connection types*1** Direct connection with a servo amplifier, connection via motion controller/Simple Motion module, connection via CC-Link IE Field Network Simple Motion module/master or local station module
 - *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
 - **Machine diagnosis** Friction estimation requires acceleration and deceleration of machine operation speed. When performing speed control or torque control, the speed is always kept constant so that friction estimation may not be performed. For the details, please refer to the GOT2000 Drive Control (Servo) Interactive Solutions catalog (L(NA)08335ENG).
 - **How to obtain sample screens** Sample screens are included in GT Works3. For the details, please contact your local sales office.
- The sample screens are supported by the following GT Works3 versions.
 MR-J4-□A(-RJ): Ver.1.126G or later, MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B: Ver.1.155M or later, MR-JE-□B: Ver.1.150G or later.

Recommended industries

- Automotive
- Electronics
- F & B
- Pharma

Supported GOT types

- GT27
- GT25
- GT23
- GT21
- GS21
- SoftGOT

Supported devices

- PLC
- Servo
- Inverter
- Robot
- CNC

Support servo system maintenance



Support maintenance work

Servo amplifier life diagnosis function

Having problems?

GOT will solve your problems!

Periodic check

Check the smoothing capacitor energization time or the inrush relay on/off times at a glance

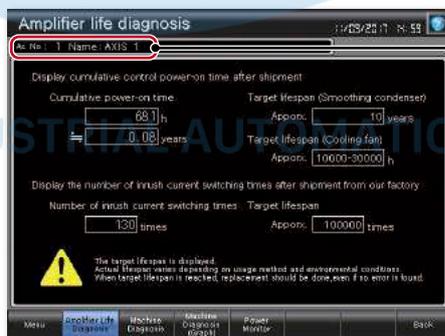
A problem occurred at the worksite. Can I check the situation in my office?

Without creating screens for remote monitoring, check the worksite on GT SoftGOT2000 by reading project data from GOT at the worksite.

Function features

GOT displays the amplifier life diagnosis screen that is equivalent to the maintenance functions of MR Configurator2.

You can easily check the internal data of servo amplifiers on the GOT without a personal computer.



By switching the axis number, multiple axes can be maintained on the same screen.

Amplifier life diagnosis screen*1

Check cumulative operation time, on/off counts of inrush relay on GOT. In addition, replacement timing of servo amplifier components (capacitor, relay) can be displayed on the GOT.

*1 Ready to use sample screens (VGA) are available.

Specification details and restrictions

- **Target models** MELSERVO-J4 Series (MR-J4-□A(-RJ), MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B, MR-J4-□GF(-RJ)), MELSERVO-JE Series (MR-JE-□A, MR-JE-□B)
- **Supported connection types*1** Direct connection with a servo amplifier, connection via motion controller/Simple Motion module, connection via CC-Link IE Field Network Simple Motion module/master or local station module

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).

- **How to obtain sample screens** Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions.

MR-J4-□A(-RJ): Ver.1.126G or later, MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B: Ver.1.155M or later, MR-JE-□B: Ver.1.150G or later.

Recommended industries

- Automotive
- Electronics
- F & B
- Pharma

Supported GOT types

- GT27
- GT25
- GT23
- GT21
- GS21
- SoftGOT

Supported devices

- PLC
- Servo
- Inverter
- Robot
- CNC

Support startup and adjustment of servo systems



Support system startup/adjustment

■ One-touch tuning function/Tuning function

Having problems?

GOT will solve your problems!

GOT2000

By switching the axis number, multiple axes can be adjusted on the same screen.

Simple Motion module

Servo amplifier MR-J4-□B(-RJ)

It's difficult to determine an optimum gain when setting up the device. It's bothersome to connect a personal computer every time I adjust a gain.

GOT can be used to adjust gains of servo amplifiers. Since the adjustment can be performed in parallel with other setup work, you can efficiently set up the system.

Function features

GOT displays the tuning screens that are equivalent to the adjustment functions of MR Configurator2.

You can easily adjust gain parameters of servo amplifiers on the GOT without a personal computer.



One-touch tuning screen*1

Just a single touch on the switch on the GOT screen. You can check tuning results such as settling time and overshoot amount.



Tuning screen*1

To obtain higher performance, you can perform fine tuning of gain parameters in the tuning screen.

*1 Ready to use sample screens (VGA) are available.

Specification details and restrictions

- **Target models** MELSERVO-J4 Series (MR-J4-□A(-RJ), MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B, MR-J4-□GF(-RJ)), MELSERVO-JE Series (MR-JE-□A, MR-JE-□B)
- **Supported connection types*1** Direct connection with a servo amplifier, connection via motion controller/Simple Motion module, connection via CC-Link IE Field Network Simple Motion module/master or local station module

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).

- **How to obtain sample screens** Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions.

MR-J4-□A(-RJ): Ver.1.126G or later, MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B: Ver.1.155M or later, MR-JE-□B: Ver.1.150G or later.

Recommended industries

- Automotive
- Electronics
- F & B
- Pharma

Supported GOT types

- GT27
- GT25
- GT23
- GT21
- GS21
- SoftGOT

Supported devices

- PLC
- Servo
- Inverter
- Robot
- CNC

Graphically monitor servo systems



Support maintenance work

System launcher (servo network) function

Having problems?

GOT will solve your problems!

System configuration diagram

Select system launcher (servo network) from the function list

Servo network configuration diagram

Select motion CPU or Simple Motion module

Output the servo system network configuration to a text/CSV file

How can I check the status of servo systems on GOT?

A graphical configuration diagram indicates the status of servo amplifier.

Function features

GOT generates the servo network configuration diagram for the number of used axes so that the servo system can be checked in a graphical screen. By starting the drive recorder from the servo network configuration diagram, you can quickly identify the error cause and solve the problem.

Start various functions from the system launcher (servo network diagram)

Select servo amplifier

Where the error occurred is visible and easy to check

Select a function from the context menu

System configuration display

Displays the model name and the serial number of servo amplifiers or motors.

Alarm display

Displays currently occurring errors in the servo amplifier.

Drive recorder graph waveform

Waveforms can be analyzed from the drive recorder information list screen.

Specification details and restrictions

- **Target models** MELSERVO-J4 Series (MR-J4-□B-(R)J), MR-J4W2-□B, MR-J4W3-□B)
- **Supported connection types*** Connection via motion controller/Simple Motion module
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
- **Extended functions that can be started from the system launcher (servo network)** System launcher, drive recorder, servo amplifier graph

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

Support startup, maintenance, and cost reduction



Support maintenance work

Power monitor

Having problems?

I just need to check power consumption. It's bothersome to connect a personal computer.

GOT will solve your problems!

Calculation data

Servo amplifier MR-J4-□B(-RJ)

Servo motor

Calculate power consumption on servo amplifier

Driving power energy

Regenerative energy

Power supply

Display power consumption and total power consumption on HMI

To manage specific consumption and observe demand, power consumption should be checked easily.

GOT can be used to check (visualize) power consumption and total power consumption without using measuring equipment such as a power meter or a personal computer.

Specification details and restrictions

- **Target models** MELSERVO-J4 Series (MR-J4-□A(-RJ), MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B, MR-J4-□GF(-RJ)), MELSERVO-JE Series (MR-JE-□A, MR-JE-□B)
- **Supported connection types***1 Direct connection with a servo amplifier, connection via motion controller/Simple Motion module, connection via CC-Link IE Field Network Simple Motion module/master or local station module
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
- **How to obtain sample screens** Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions.
MR-J4-□A(-RJ): Ver.1.126G or later, MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B: Ver.1.155M or later, MR-JE-□B: Ver.1.150G or later.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

Alarm display function

Having problems?

What this alarm number indicates?

GOT will solve your problems!

Alarm display

Document display * Not supported by GT23, GT21, and GS21.

Touch here to display the detail information

Check the details of the alarm

How can I easily identify the problem cause when an alarm occurs on a servo amplifier?

Without opening a cabinet, current alarms, alarm history, and the detail information can be checked on GOT. Use the document display function* to display the servo amplifier user's manual and quickly check troubleshooting procedures on the GOT.

* Not supported by GT23, GT21, and GS21.

Specification details and restrictions

- **Target models** MELSERVO-J4 Series (MR-J4-□A(-RJ), MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B, MR-J4-□GF(-RJ)), MELSERVO-J3 Series, MELSERVO-JE Series (MR-JE-□A, MR-JE-□B)
- **Supported connection types***1 Direct connection with a servo amplifier, connection via motion controller/Simple Motion module, connection via CC-Link IE Field Network Simple Motion module/master or local station module
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
- **How to obtain sample screens** Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions.
MR-J4-□A(-RJ): Ver.1.126G or later, MR-J4-□B(-RJ), MR-J4W2-□B, MR-J4W3-□B: Ver.1.155M or later, MR-J3-□A: Ver.1.128J or later, MR-JE-□B: Ver.1.150G or later.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

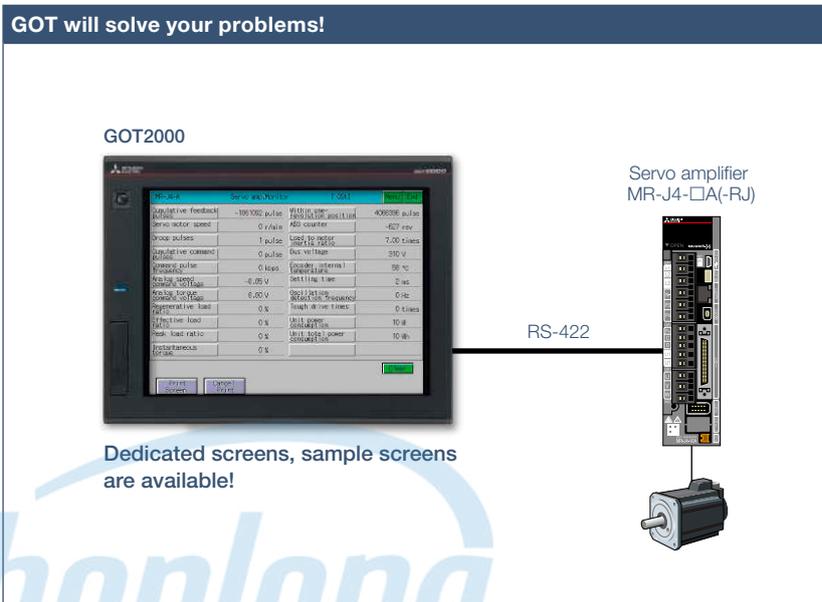
PLC	Servo	Inverter
	Robot	CNC

Support startup and adjustment of servo systems



Support system
startup/
adjustment

■ Servo amplifier monitor function



How can I check the status of servo amplifier easily?

In a system which outputs pulse trains, the GOT can be connected to a servo amplifier in a serial connection to perform the following operations: set up, monitoring, alarm display, diagnosis, parameter setting, and test operations.

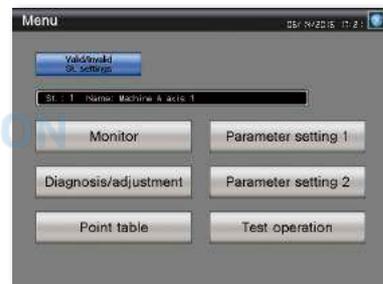
Function features

Various monitoring functions, changes to the parameter settings, and test operations can be performed on the servo amplifier connected to the GOT.

Parameter	Value	Unit	Limit
Cumulative feedback pulses	-105 000	pulse	
Servo factor speed	0 r/min	r/min	
Zero pulses	1	pulse	
Cumulative command pulses	0	pulse	
Encoder pulse frequency	0	kips	
Encoder internal temperature	0.05	V	
Encoder speed common setting	0.00	V	
Regenerative load ratio	0%	%	
Effective load ratio	0%	%	
Peak load ratio	0%	%	
Instantaneous torque	0%	%	
With in speed	400000	pulse	
ABZ counter	-627	rev	
Load to motor	7.00	times	
Bus voltage	310	V	
Encoder internal temperature	55	°C	
Setting time	2	ms	
Operation frequency	0	Hz	
Tough drive times	0	times	
Unit power consumption	10	W	
Unit total power consumption	10	Wh	

Dedicated screens

Without creating screens, parameters can be monitored and written from dedicated screens.



Sample screens (VGA)

Various sample screens such as monitoring, parameter settings, test operations are available and they are all customizable.

Specification details and restrictions

● **Target models** MELSERVO-J4 Series (MR-J4-□A(-RJ)), MELSERVO-J3 Series (MR-J3-□A), MELSERVO-J2-Super Series (MR-J2S-□A, MR-J2S-□CP), MELSERVO-J2M Series (MR-J2M-P8A)

* Supported functions of the servo amplifier monitor vary depending on the servo amplifier model.

● **Supported connection types** Direct connection with a servo amplifier

● **How to obtain sample screens** Sample screens are included in GT Works3. For the details, please contact your local sales office.

The sample screens are supported by the following GT Works3 versions.

MR-J4-□A(-RJ): Ver.1.126G or later, MR-J3-□A: Ver.1.128J or later.

Recommended industries

- Automotive
- Electronics
- F & B
- Pharma

Supported GOT types

- GT27
- GT25
- GT23
- GT21
- GS21
- SoftGOT

Supported devices

- PLC
- Servo
- Inverter
- Robot
- CNC

Support startup and maintenance of servo systems



Intelligent module monitor function

Having problems?

Can I check the programs and the status of a positioning module at the same time?

GOT will solve your problems!

Intelligent module monitor
RD75D4 monitor screen (example)

GX Works3
ladder monitor screen
(example)

USB connection

Operation panel

How can I debug positioning systems efficiently?

You can debug positioning systems efficiently by displaying the data such as the status, parameters, and the I/O information of positioning module axes on GOT while monitoring positioning sequence programs on a personal computer simultaneously.

* For the details of supported devices and connection types, please refer to the relevant product manual.

Recommended industries

- Automotive
- SEMICON, LCD
- Electronics
- F & B
- Pharma

Supported GOT types

- GT27
- GT25
- GT23
- GT21
- GS21
- SoftGOT

Supported devices

- PLC
- Servo
- Inverter
- Robot
- CNC

R motion monitor function/Q motion monitor function

Having problems?

Can I check and change servo parameters of a motion controller easily?

GOT will solve your problems!

R motion monitor screen

Q motion monitor screen

Can I check and change servo parameters of a motion controller easily?

In a dedicated screen on GOT, it is possible to monitor and set parameters of motion controllers that are installed on the same base unit.

* For the details of supported devices and connection types, please refer to the relevant product manual.

Recommended industries

- Automotive
- SEMICON, LCD
- Electronics
- F & B
- Pharma

Supported GOT types

- GT27
- GT25
- GT23
- GT21
- GS21
- SoftGOT

Supported devices

- PLC
- Servo
- Inverter
- Robot
- CNC

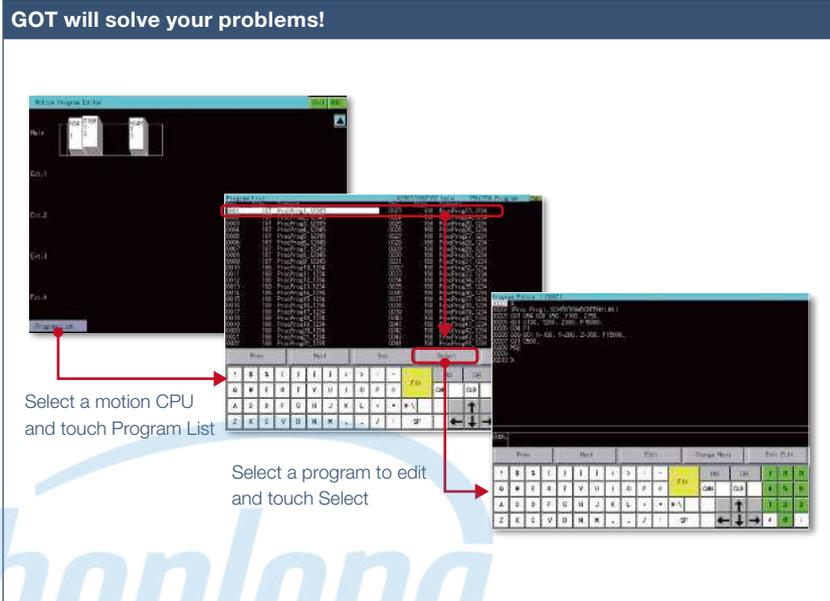
Support startup and maintenance of servo systems



Support maintenance work

NEW

Motion program editor function



An error occurred during production. Can I edit the motion programs (G-code programs) at the worksite?

GOT can be used to edit motion programs (G-code programs). You can edit the necessary motion program by selecting it from the program list.

Function features

Motion programs (G-code programs) can be edited in the dedicated screen of the motion program editor function of the GOT.

- * Supported by GOTs with a resolution of SVGA or higher.
- * To use G-code control, the G-code add-on library (paid) must be installed.



Program List screen

GOT lists the G-code programs stored in the connected motion CPU (MELSEC iQ-R Series).



Program Editor screen

G-code programs listed on the GOT can be edited in the line editor format.

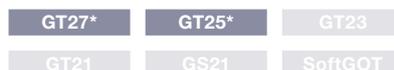
Specification details and restrictions

- **Target models**** R64MTCPU/R32MTCPU/R16MTCPU (valid when the G-code add-on library is used)
- *1 When all the following conditions are satisfied, the motion program editor is available.
 - The operating system software is SW10DNC-RMTFW Ver.14 or later.
 - The add-on library is Gcode_Ctrl.adm Ver.0102 or later.
 - Any item other than [Not Used] is set in the G-code control setting in the basic setting.
- **Supported connection types** Ethernet connection

Recommended industries



Supported GOT types



Supported devices



* Excluding some models. For the details, refer to the function descriptions above.

Compilation of interactive functions with servos



Support maintenance work



Support system startup/adjustment



Support system operation

NEW

GOT Drive Plus (paid template screens)

Having problems?

In free-version sample screens, only one axis can be checked on a single screen...

The resolution must be changed to fit the GOT.

GOT will solve your problems!

Information of multiple axes

The detailed graph can be displayed from the list screen

Is there an easier way to visualize multi-axes servo systems?

With GOT Drive Plus, data of 16 axes can be displayed on one screen without changing the resolution setting of the GOT project data. By monitoring multiple servo amplifiers in the equipment on one screen, you can comprehensively check the servo system.

Function features

GOT Drive Plus is the paid GOT project data that can visualize servo systems. The data is available for all resolutions of GT27 and GT25 models. Since the template screens for the GOT Mobile function are provided, you can promptly start the remote monitoring of servo systems. The template project can be used as is depending on the system configuration, thus reducing time for screen creation.

Quick remote monitoring with the GOT Mobile function template screens



Features comparison

○: Reduced screen design/working man-hours ×: Increased screen design/working man-hours

Item	GOT Drive Plus NEW		GOT Drive	
	GT Works3 Add-on License for GOT2000 Enhanced Drive Control (Servo) Project Data (SW1DND-GTSV-MZ)	Sample screens included in GT Works3		
Screen design man-hours	○ Screens are designed for every resolution of GT27 and GT25 and can be used to connect to Motion controllers and Simple Motion modules. The screens can be used as it is.	×	×	Sample screens are available only for VGA to connect to Simple Motion modules. The layout must be adjusted according to the resolution of GOT to be used as well as the system configuration.
Multi-axis monitor	○ Up to 16 axes can be monitored at the same time on one screen. [Applicable screens] • Machine diagnosis • Effective load factor • Alarm history * On the screens other than the above, only one axis can be monitored on one screen.	×	×	Only one axis can be monitored on one screen.
Remote monitoring	○ Screens for the GOT Mobile function are provided as standard for remote monitoring on tablets and smartphones.	×	×	Screens for the GOT Mobile function are not available. The users must create the mobile screens.

For the details, please refer to the GOT2000 Drive Control (Servo) Interactive Solutions GOT Drive Plus catalog (L(NA)08594ENG).



Specification details and restrictions

- **Target models** MELSERVO-J4 Series (MR-J4-□B(-RJ), MR-J4-W2-□B, MR-J4W3-□B)
- **Supported connection types*** Connection via motion controller/Simple Motion module
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
- **Lineup of project data** • WXGA (1280 × 800) • WVGA (800 × 480) • XGA (1024 × 768) • VGA (640 × 480) • SVGA (800 × 600) • 5.7" VGA (640 × 480)

Recommended industries

- Automotive
- SEMICON, LCD
- Electronics
- F & B
- Pharma
- Plant

Supported GOT types

- GT27
- GT25
- GT23
- GT21
- GS21
- SoftGOT

Supported devices

- PLC
- Servo
- Inverter
- Robot
- CNC

GOT Easy Drive Control (Inverter) Interactive Solutions NEW



MITSUBISHI GRAPHIC OPERATION TERMINAL

GOT2000 + INVERTER

GOT Drive

Challenges that cannot be resolved just with the inverter can now be resolved with GOT2000 and inverter interactive functions.



For the details, please refer to the GOT2000 Series Drive Control (Inverter) Interactive Solutions catalog (L(NA)08572ENG).

The GOT2000 provides advanced functionality and improves connectivity with Mitsubishi Electric inverter systems. It provides some functions of FR Configurator2. The GOT Drive enhanced functionality is designed to realize central monitoring, speed up system startup, improve predictive maintenance and troubleshooting.

■ Drive control interactive functions and supported inverter models

○: Supported ×: Not supported △: Only monitorable parameters are supported —: Not applicable ●: Sample screens available

Function	CASE 1						CASE 2	
	FR-A800-E/ FR-F800-E		FR-A800-E-CRN/ FR-A800-E-R2R		FR-E700-NE		FR-A800-GF/ FR-A800 + FR-A8NCE/ FR-F800 + FR-A8NCE	
	Function available	Sample screen ^{1*3}	Function available	Sample screen ^{1*3}	Function available	Sample screen ^{1*3}	Function available	Sample screen ^{1*3}
Parameter setting (simple mode)	○	●	○	×	○	×	○	● ^{*2}
Parameter recipe (simple backup/restoration)	○	●	○	×	○	×	○	● ^{*2}
Batch monitor	○	●	○	×	○	×	○	● ^{*2}
Operation command	○	●	○	×	○	×	○	● ^{*2,5}
Machine diagnosis (load characteristics measurement)	○	●	○	×	×	×	○	● ^{*2,5}
Inverter life diagnosis	○	●	○	×	○	×	○	● ^{*2}
FA transparent	○	—	○	—	○	—	○	—

Function	CASE 3						CASE 4					
	FR-A800-E/ FR-F800-E		FR-A800-E-CRN/ FR-A800-E-R2R		FR-E700-NE		FR-A800/ FR-F800		FR-A800-CRN/ FR-A800-R2R		FR-E700/ FR-D700	
	Function available	Sample screen ^{1*3}	Function available	Sample screen ^{1*3}	Function available	Sample screen ^{1*3}	Function available	Sample screen ^{1*3}	Function available	Sample screen ^{1*3}	Function available	Sample screen ^{1*3}
Parameter setting (simple mode)	○	● ^{*2}	○	×	○	×	○	●	○	×	○	●
Parameter recipe (simple backup/restoration)	○	● ^{*2}	○	×	○	×	○	×	○	×	○	×
Batch monitor	○	● ^{*2}	○	×	○	×	○	●	○	×	△	●
Operation command	○	● ^{*2}	○	×	○	×	○	●	○	×	○	●
Machine diagnosis (load characteristics measurement)	○	● ^{*2}	○	×	×	×	○	×	○	×	×	×
Inverter life diagnosis	○	● ^{*2}	○	×	○	×	○	●	○	×	△	●
FA transparent	○	—	○	—	○	—	○ ^{*4}	—	○ ^{*4}	—	○ ^{*4}	—

*1 The sample screen is the project data that is included in GT Works3 (Ver.1.225K). Sample screens are not supported by GT23, GT21, and GS21.

*2 The sample screen for CASE 1 can be used by changing the controller setting into the one for the system configuration to be used.

*3 If the sample screen of the required inverter is not available, monitoring is possible by creating a project and setting the inverter parameters and devices in the numerical displays and lamps on the user's screen.

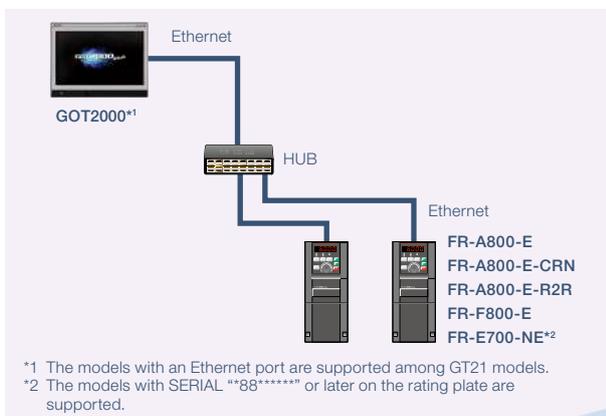
*4 The function can be used when GOT and personal computer are connected with USB.

*5 Settings need to be changed so that the CPU devices assigned to RY link devices can be controlled directly from GOT.

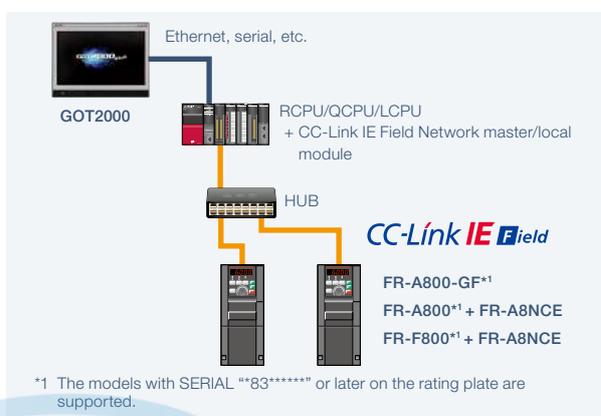
GOT and inverter system configurations

Select the required connection type to match your system configuration. Multiple inverters can be monitored with one GOT by switching the target station number.

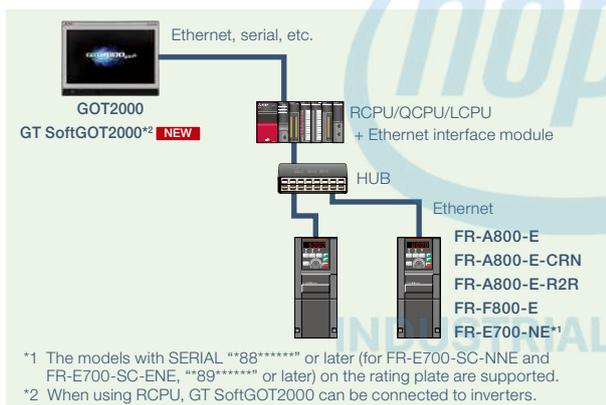
CASE 1 Direct connection with Ethernet



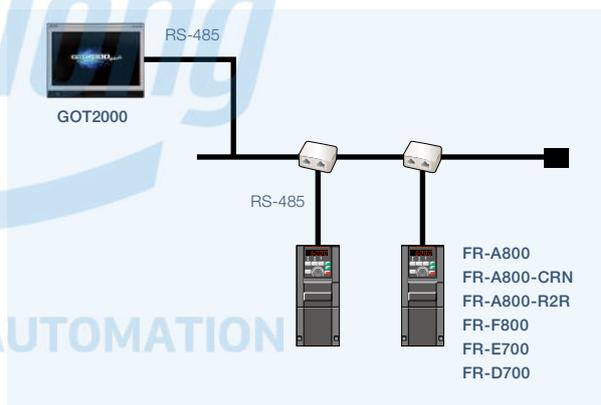
CASE 2 CC-Link IE Field Network connection via programmable controller



CASE 3 Ethernet connection via programmable controller



CASE 4 Direct connection with RS-485



Three-step simple startup

There are various sample screens that can be used with the GOT2000 for inverter parameter setting, batch monitoring, and machine diagnosis (load characteristics measurement), etc. Use the sample screens for easy system startup.

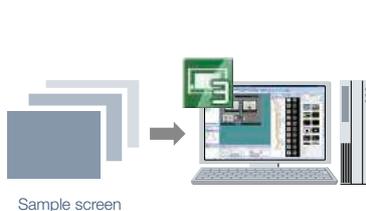
STEP 1 >>>

Select and connect the GOT and inverter.



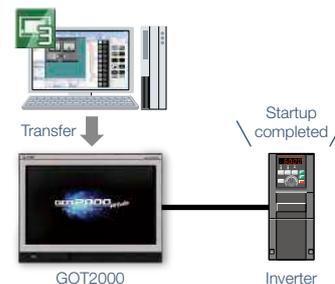
STEP 2 >>>

Sample screens*1*2 matching the connection type can be used for the user's project data.



STEP 3 >>>

Transfer the project data to the GOT.



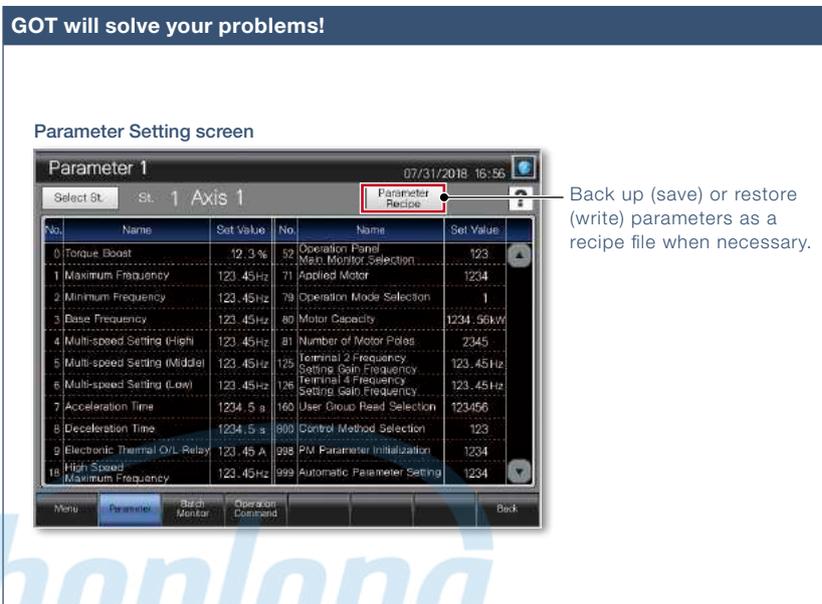
*1 Sample screens are included in GT Works3 (Ver.1.205P or later). For the details, please contact your local sales office.
*2 Sample screens are available for the GOT type GT27**V (640 x 480) only. The GOT type can be changed, and used for a GOT with different resolution. Sample screens are not supported by GT23, GT21, and GS21.

Support startup and adjustment of inverters



Support system
startup/
adjustment

Parameter settings (simple mode)/Parameter recipe (simple backup/restoration)



We want to set the parameters without opening the control panel!

Use GOT to adjust the inverter's simple mode parameters. Since there is no need to open the control panel, the adjustment work efficiency can be increased.

Function features

GOT can be used to adjust parameters of inverters easily. Since the pre-adjustment parameters can be backed up or restored with the GOT, systems can be started up efficiently.

Parameter settings (simple mode)

Use GOT to adjust the inverter's simple mode parameters. The parameter names can be confirmed on a list, so the required parameters can be easily found and adjusted.



Parameter Setting screen

▶ How to return parameters to pre-adjustment values

- 1 Back up the current parameters as a recipe file before adjustment
- 2 Restore parameters that were previously backed up

Parameter recipe (simple backup/restoration)

The current inverter parameters can be backed up (saved) as a recipe file using the GOT. To return the parameters to the pre-adjustment state while starting up and adjusting the inverter, just restore (write) the parameters that were previously backed up (saved).

* Ready to use sample screens (VGA) are available.

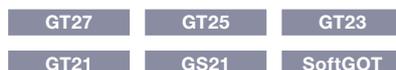
Specification details and restrictions

- **Target models** FR-A800(-E), FR-A800(-E)-CRN, FR-A800(-E)-R2R, FR-F800(-E), FR-A800-GF, FR-E700(-NE), FR-D700
- **Supported connection types*** Direct connection with an inverter, connection via a programmable controller, connection via CC-Link IE Field Network master or local station module
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
- **How to obtain sample screens** Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions. FR-F800(-E): Ver.1.205P or later, FR-A800(-E), FR-A800-GF, FR-E700(-NE), FR-D700: Ver.1.200J or later.

Recommended industries



Supported GOT types



Supported devices

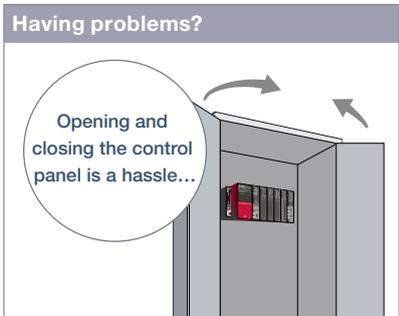


Support startup and adjustment of inverters

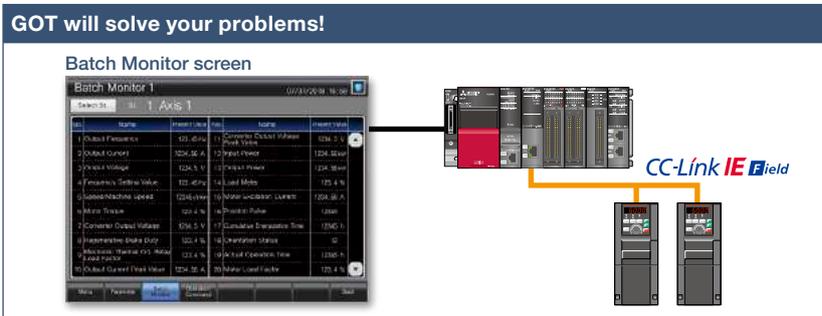


Support system
startup/
adjustment

Batch monitor



We want to monitor the inverter status without opening the control panel!



The inverter's current values such as the output frequency, output current, and output voltage can be monitored with the GOT without preparing the personal computer or directly confirming the inverter.

Specification details and restrictions

- **Target models** FR-A800(-E), FR-A800(-E)-CRN, FR-A800(-E)-R2R, FR-F800(-E), FR-A800-GF, FR-E700(-NE), FR-D700
- **Supported connection types*1** Direct connection with an inverter, connection via a programmable controller, connection via CC-Link IE Field Network master or local station module
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
- **How to obtain sample screens** Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions. FR-F800(-E): Ver.1.205P or later, FR-A800(-E), FR-A800-GF, FR-E700(-NE), FR-D700: Ver.1.200J or later.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

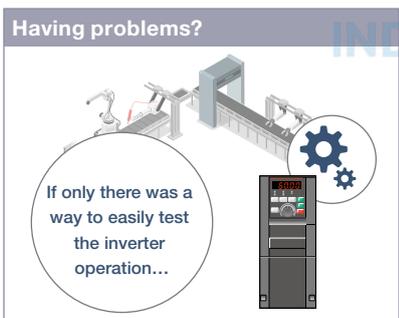
Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

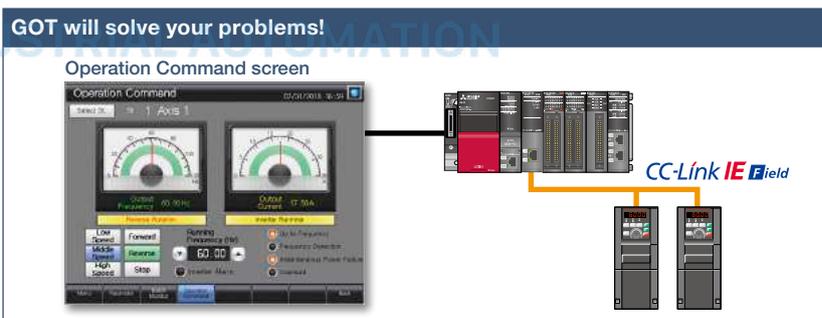
Supported devices

PLC	Servo	Inverter
	Robot	CNC

Operation command



We want to start up the system while confirming the inverter's operation!



The inverter operation commands can be issued from the GOT. Since the system operation can be confirmed while monitoring the inverter's output frequency and output current values, the startup work efficiency can be increased.

Specification details and restrictions

- **Target models** FR-A800(-E), FR-A800(-E)-CRN, FR-A800(-E)-R2R, FR-F800(-E), FR-A800-GF, FR-E700(-NE), FR-D700
- **Supported connection types*1** Direct connection with an inverter, connection via a programmable controller, connection via CC-Link IE Field Network master or local station module
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
- **How to obtain sample screens** Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions. FR-F800(-E): Ver.1.205P or later, FR-A800(-E), FR-A800-GF, FR-E700(-NE), FR-D700: Ver.1.200J or later.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

Support maintenance of inverters

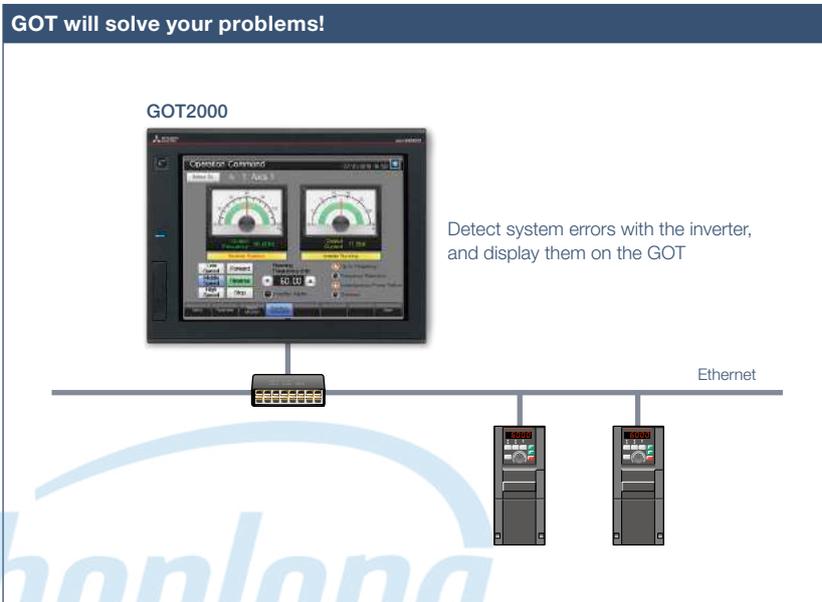


Support maintenance work

Machine diagnosis (load characteristics measurement)



We want to detect clogged filters and clogged pipes!



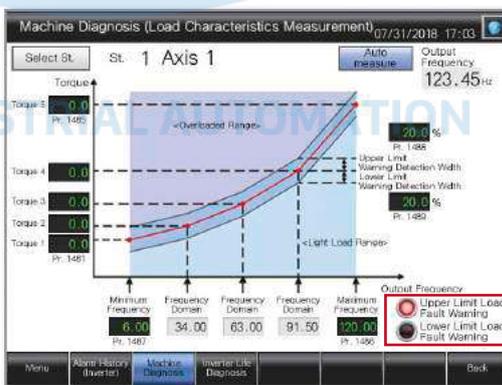
The relation of output frequency and torque in the normal state can be saved in the inverter, and used to check whether the operation is taking place with a normal load. If the result is out of the normal range, an error or warning is output so that it is useful to detect system errors and perform maintenance work.

Function features

Detect system errors with the inverter, and display them on the GOT. If the load is out of the normal range, an error indicator lamp lights up so that it is useful to perform quick troubleshooting.

<Possible error causes>

- In overload range: clogged filter, clogged pipe, etc.
- In light load range: broken belt, broken blade, idle run, etc.



The lamp lights up while the load characteristics value is out of the range between the set upper and lower limit alarm detection width values.

Machine Diagnosis (Load Characteristics Measurement) screen

Set the range of frequency to detect load characteristics error and calculate the load characteristics reference value. Set the upper and lower limit warning detection width (threshold value) against the calculated reference value.

Specification details and restrictions

- **Target models** FR-A800(-E), FR-A800(-E)-CRN, FR-A800(-E)-R2R, FR-F800(-E), FR-A800-GF
- **Supported connection types*1** Direct connection with an inverter, connection via a programmable controller, connection via CC-Link IE Field Network master or local station module
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
- **How to obtain sample screens** Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions. FR-F800(-E): Ver.1.205P or later, FR-A800(-E), FR-A800-GF: Ver.1.200J or later.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

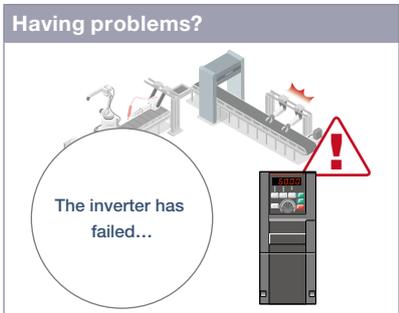
PLC	Servo	Inverter
Robot	CNC	

Support maintenance of inverters

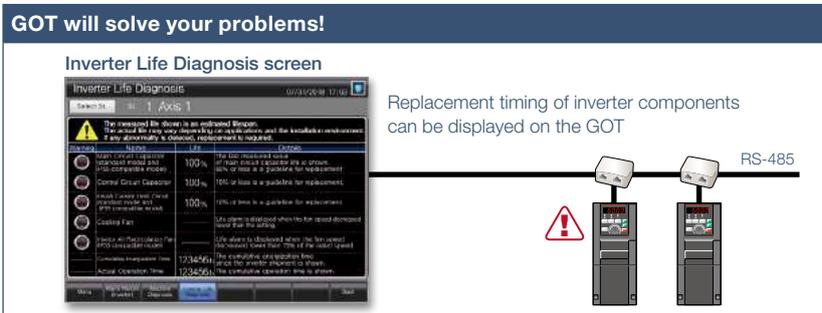


Support maintenance work

■ Inverter life diagnosis



We want to know the inverter replacement timing!



GOT can be used to monitor the operation status of the inverter's components (main circuit capacitor, control circuit capacitor, cooling fan, etc.) and confirm the replacement timing. Perform predictive maintenance by replacing parts before the inverter fails.

Specification details and restrictions

- **Target models** FR-A800(-E), FR-A800(-E)-CRN, FR-A800(-E)-R2R, FR-F800(-E), FR-A800-GF, FR-E700(-NE), FR-D700
- **Supported connection types*1** Direct connection with an inverter, connection via a programmable controller, connection via CC-Link IE Field Network master or local station module
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
- **How to obtain sample screens** Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions: FR-F800(-E): Ver.1.205P or later, FR-A800(-E), FR-A800-GF, FR-E700(-NE), FR-D700: Ver.1.200J or later.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

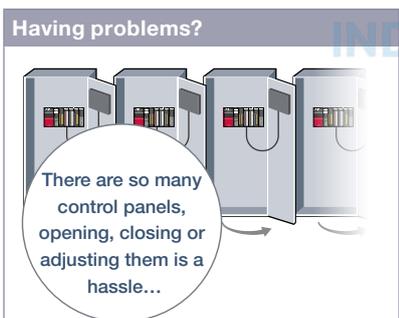
Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

■ FA transparent



We want to perform debugging smoothly!



By connecting a personal computer with the GOT's USB interface, the inverter can be programmed, started up, and adjusted via GOT. There is no need to open the control panel and change the cable.

- *1 Some system configurations are not supported. For the details, please refer to the connection manual.
- *2 Installation of the wireless LAN communication unit (GT25-WLAN) is required on the GOT. The unit cannot be used with GT2505, GT25 handy, GT23, GT21, and GS21 models. For the countries where the wireless LAN communication unit can be used and other details, please refer to the "Product list" (page 172).

Specification details and restrictions

- **Target models** FR-A800(-E), FR-A800(-E)-CRN, FR-A800(-E)-R2R, FR-F800(-E), FR-A800-GF, FR-E700(-NE), FR-D700
- **Supported connection types*1** Connection via a programmable controller, connection via CC-Link IE Field Network master or local station module
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25*	GT23*
GT21*	GS21*	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

* Restrictions apply to some functions. For the details, refer to the function descriptions above.

GOT Easy Drive Control (Robot) **GOT Drive** Interactive Solutions

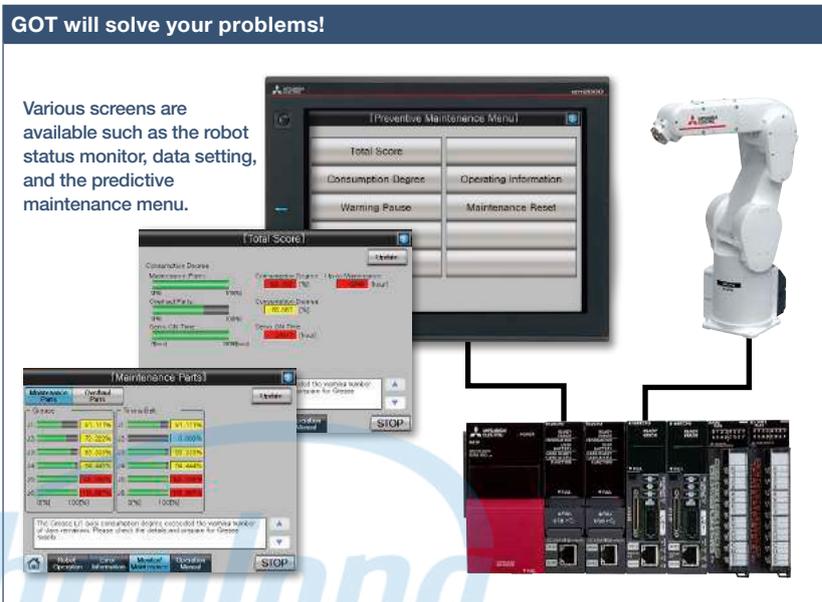


Support system
startup/
adjustment

Interactive functions to support startup and maintenance of robots



How can I startup and adjust robots easily?



Use GOT to operate or monitor the status of a robot. The robot can be started and stopped, and the error information can be monitored easily from the GOT.
* For the details of connectable models, please refer to the "Connectable model list" (page 152).

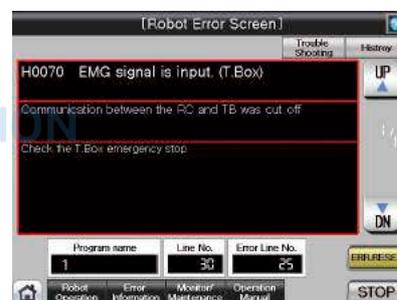
Function features

GOT can be used for simple adjustment of robots. The robot error information can also be checked; therefore, it is useful for troubleshooting.



Position edit screen*1

Position variables of robots can be edited.



Robot error screen*1

The details of errors on robots can be checked.

*1 Ready to use sample screens (VGA) are available. Sample screens are not supported by GT23, GT21, and GS21.

Specification details and restrictions

● **Target models** FR Series (CR800-R (R16RTCPU), CR800-Q (Q172DSRCPU), CR800-D)*1, F Series (CR750-Q (Q172DRCPU), CR751-Q (Q172DRCPU), CR750-D*1, CR751-D*1), SQ Series CRnQ-700 (Q172DRCPU), SD Series CRnD-700

*1 Sample screens are available. Sample screens are not supported by GT23, GT21, and GS21.

● **Supported connection types*1** Ethernet connection, direct CPU connection, serial communication connection, CC-Link IE Controller Network connection, CC-Link IE Field Network connection, CC-Link connection, bus connection, MELSECNET connection

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).

● **How to obtain sample screens** For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions. FR Series (CR800-R (R16RTCPU), CR800-Q (Q172DSRCPU), CR800-D): Ver.1.205P or later, F Series (CR750-D, CR751-D): Ver.1.153K or later.

Recommended industries

Electronics F & B

Supported GOT types

GT27 GT25 GT23
GT21 GS21 SoftGOT

Supported devices

PLC Servo Inverter
Robot CNC

Support debug of SFC programs



Support maintenance work

Sequence program monitor (SFC) function

Having problems?

GOT will solve your problems!

Block tabs
Touch a tab to display the block.

Displayed by steps
The active step is highlighted. Touch the step to display the zoom window or SFC diagram of the relevant block. The SFC diagram scrolls automatically along with the progress of active steps.

Transition condition
Touching a transition condition displays a window for turning on or off a bit device.

How can I debug SFC programs without a personal computer?

GOT can monitor SFC programs of the PLC CPU and display the programs in the SFC diagram format (MELSAP3 or MELSAP-L format).

Function features

With the sequence program monitor (SFC), the GOT can monitor SFC programs of controllers, and changing device values of the programs is available. The function can be used to solve problems and maintain programmable controller systems that use SFC programs.

Step List Block No.0

Nb.	Step	Comment
0	Operation permission wait	
1	Work carrier detection wait	
2	Buzzer output	
3		
4	Product counter reset	
5	Product counter reset	
6	Conveyor operation	

Active Step List Block No.0

Nb.	Step	Comment
0	Operation permission wait	

Step list

GOT displays steps in the displayed block.

Active step list

GOT displays active steps in the displayed block.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

● **Target models** QCPU (Q mode), LCPU

● **Supported connection types***1 Ethernet connection*2, direct CPU connection*3, serial communication connection, CC-Link IE Controller Network connection, CC-Link IE Field Network connection, CC-Link connection, bus connection, MELSECNET connection

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).

*2 When the CC-Link IE Field Network Ethernet adapter module is used, the sequence program monitor (SFC) function cannot be used.

*3 When the Q12PRHCPU or Q25PRHCPU is used, the sequence program monitor (SFC) function cannot be used.

Recommended industries

Automotive Plant

Supported GOT types

GT27 GT25 GT23
GT21 GS21 SoftGOT

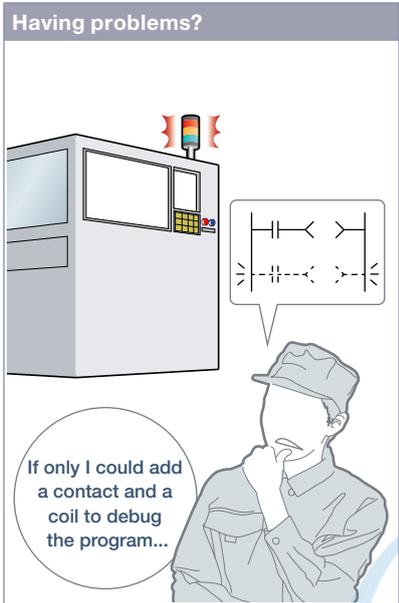
Supported devices

PLC Servo Inverter
Robot CNC

Support RCPU, QCPU, and LCPU maintenance



■ Sequence program monitor (Ladder)/Sequence program monitor (iQ-R ladder) function



How can I debug and edit ladder programs without a personal computer?

GOT will solve your problems!



When an error occurs, monitor the ladder program and identify the cause of error. There is no need for a personal computer on the production floor. Just touch the GOT screen and easily edit the ladder program to make simple changes.

Function features

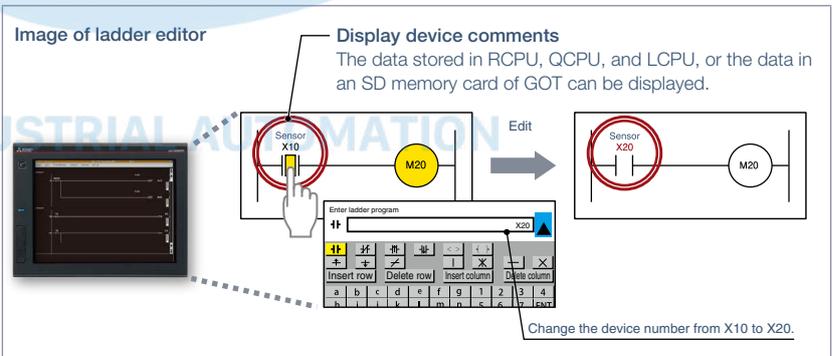
GOT can monitor and edit a sequence program in a controller in the ladder format, and also can change current values of devices.

Sequence program monitor (Ladder monitor)

Sequence programs of RCPU, QCPU, and LCPU can be monitored in the ladder format.

Ladder editor

Sequence programs of RCPU, QCPU, and LCPU can be edited in the ladder format. Just touch the position where you want to edit (contact, vertical line, etc.) and enter, change, or delete the ladder symbol or device. Vertical lines, horizontal lines, columns, and rows can be inserted or deleted.



Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

● **Target models** RCPU*1, QCPU (Q mode)*2, LCPU, motion CPU (Q Series)*3, CNC (C80, C70)

*1 R08PCPU, R16PCPU, R32PCPU, and R120PCPU can be monitored only when the operation mode is the process mode. R08SFPCPU, R16SFPCPU, R32SFPCPU, and R120SFPCPU are not supported by the safety program edit and the device test of programmable controller CPUs.

*2 Excluding the Q02PHCPU, Q06PHCPU, Q12PHCPU, Q25PHCPU, Q12PRHCPU, Q25PRHCPU.

*3 Only the PLC CPU area (CPU No.1) in the Q170MCPUCPU(-S1), Q170MSCPU(-S1) can be monitored.

● **Supported connection types*1** Ethernet connection*2, direct CPU connection, serial communication connection, CC-Link IE Controller Network connection, CC-Link IE Field Network connection, CC-Link connection, bus connection, MELSECNET connection

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).

*2 When the CC-Link IE Field Network Ethernet adapter module is used, the ladder editor cannot be used.

Recommended industries

Automotive Electronics Plant

Supported GOT types

GT27 GT25 GT23
GT21 GS21 SoftGOT

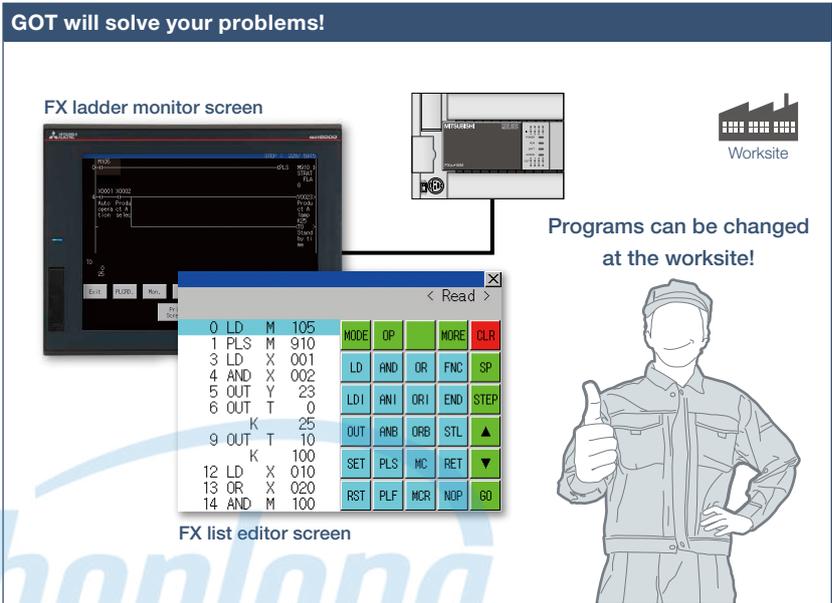
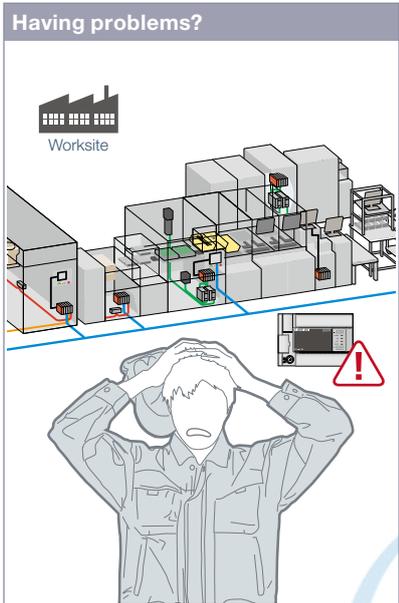
Supported devices

PLC Servo Inverter
Robot CNC

Support FXCPU maintenance



FX list editor function & FX ladder monitor function



The system has been changed at the worksite. I need to change sequence programs of the MELSEC-F Series programmable controller.

Sequence programs of the MELSEC-F Series programmable controllers can be edited in the list (command) format. Minor program changes can be applied even without a personal computer or a peripheral device.

Function features

You can easily edit and monitor sequence programs without preparing any peripheral devices other than the GOT.

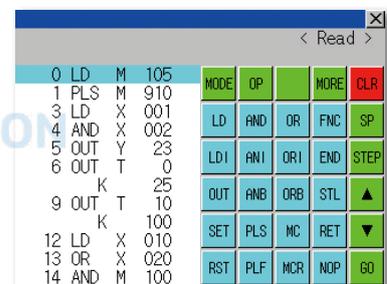
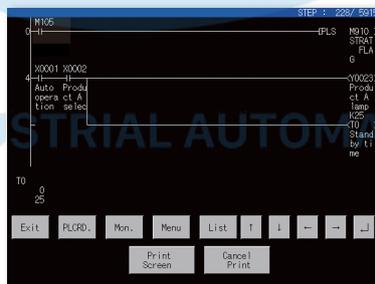
FX list editor

Just by simple key operations you can check, partially correct, change, or add parameters or sequence programs of an FXCPU.

* Supported by GT2107-W and GT2104-R among GT21.
* Not supported by GT25 wide models.

Example of changing sequence program commands

LD	X000	Change	LD	X000
OUT	Y020	→	OUT	Y030
LD	X001		LD	X001



FX ladder monitor

The MELSEC-FX list editor can be opened from the FX ladder monitor screen with a single touch operation. You can edit sequence programs while checking the ladder diagram. You can also display the list screen from the step line displayed in the ladder monitor.

* Not supported by GT23, GT21, and GS21.

Specification details and restrictions

<FX list editor>

- **Target models** FXCPU (excluding FX5CPU)
- **Supported connection types***1 Ethernet connection*2, direct CPU connection
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
- *2 When the CC-Link IE Field Network Ethernet adapter module is used, the FX list editor cannot be used.
- **Functions** Writing sequence programs, setting parameters, PLC diagnostics, registering keywords, etc.

Recommended industries

Electronics F & B

<FX ladder monitor>

- **Target models** FXCPU (excluding FX5CPU)
- **Supported connection types***1 Ethernet connection, direct CPU connection
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
- **Functions** Search operation, display switching, test operation*2*3, hard copy
- *2 Present values of V and Z cannot be changed.
- *3 Set values of T and C cannot be changed.

Supported GOT types

GT27 GT25* GT23*
GT21* GS21* SoftGOT

Supported devices

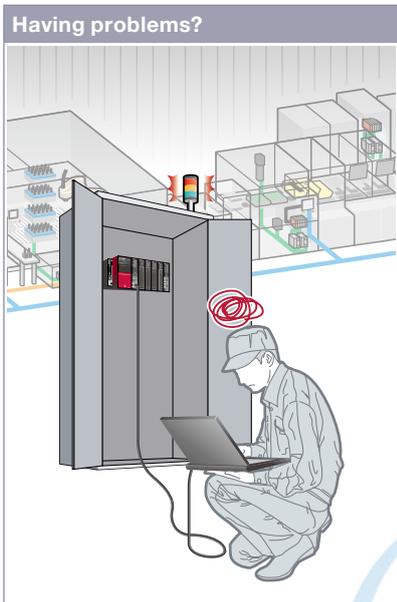
PLC Servo Inverter
Robot CNC

* Excluding some models or restrictions apply to some functions. For the details, refer to the function descriptions above.

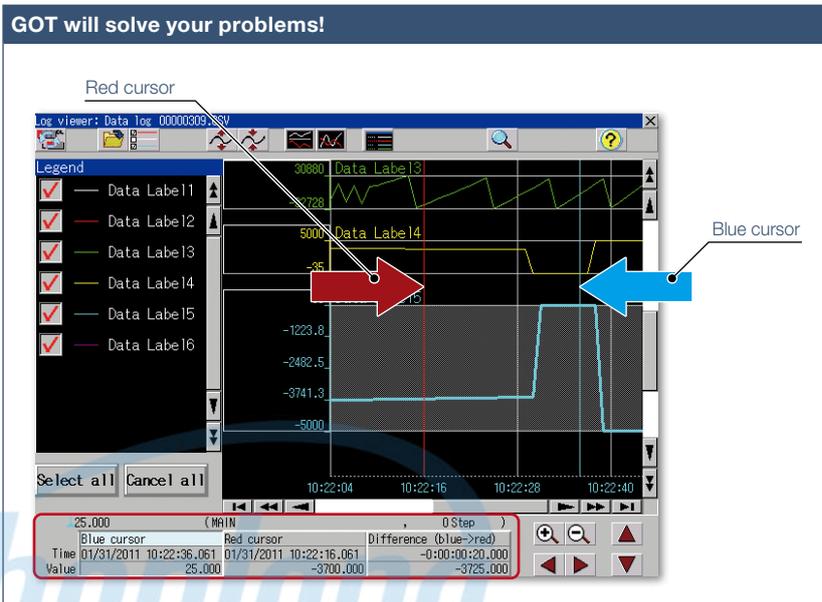


Visually check logging data

Log viewer function



How can I check the logging data collected by programmable controllers without opening a cabinet?



GOT displays the logging data, which achieves quick troubleshooting without using a personal computer at the worksite.

Function features

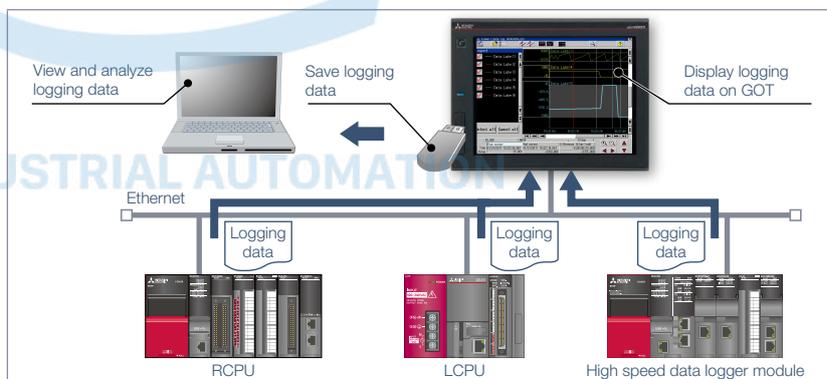
GOT displays the logging data collected by the data logging function of programmable controller CPUs or other modules.

Quick check of data by multiple cursors

Multiple cursors make it easier to visually check how the data has changed. You can search for the data by specifying the time and index No.

Logging data can be easily changed

FA transparent function (page 70) enables you to view the logging data with GX LogViewer on a personal computer and to change logging settings with CPU Module Logging Configuration Tool.



Logging data can be obtained without opening a cabinet

The logging data can be copied to a USB memory device attached to a USB interface on the front (or the backside) of the GOT. It reduces the need to remove a memory card from a CPU or high speed data logger module to retrieve the logging data.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

● **Target models** RCPUs*1, QCPUs*2, LCPUs*3, FX5CPUs*4, high speed data logger module (MELSEC iQ-R Series/Q Series), BOX data logger, CNC (C80, C70)

*1 Supported by R01CPU, R02CPU, R04CPU, R08CPU, R16CPU, R32CPU, R120CPU, R04ENCPU, R08ENCPU, R16ENCPU, R32ENCPU, R120ENCPU only.

*2 Supported by Q03UDVCPUs, Q04UDVCPUs, Q06UDVCPUs, Q13UDVCPUs, Q26UDVCPUs only.

*3 Excluding L02SCPU, L02SCPU-P. *4 Restrictions apply to the CPUs. For the details, please refer to the relevant product manual.

● **Supported connection types***1 Ethernet connection*2

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).

*2 R01CPU, R02CPU, R04CPU, R08CPU, R16CPU, R32CPU, R120CPU, QCPU, and LCPU are supported via the built-in Ethernet port; R04ENCPU, R08ENCPU, R16ENCPU, R32ENCPU, and R120ENCPU are supported via the port CPU P1.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

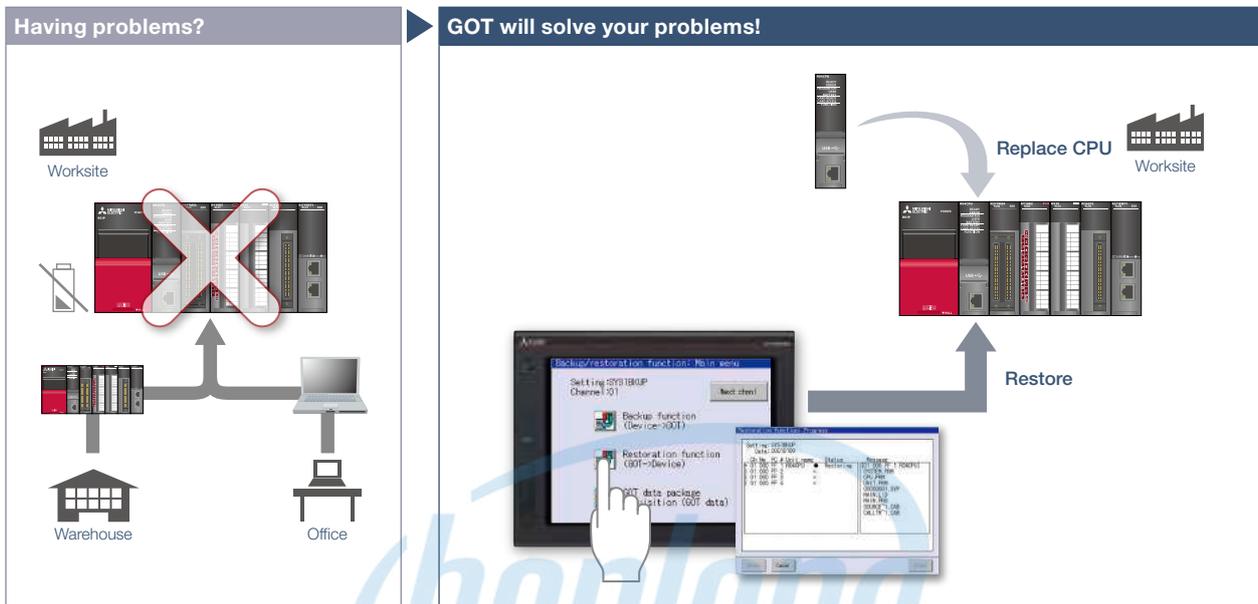
PLC	Servo	Inverter
Robot	CNC	

In case of PLC error



Support maintenance work

Backup/Restoration function



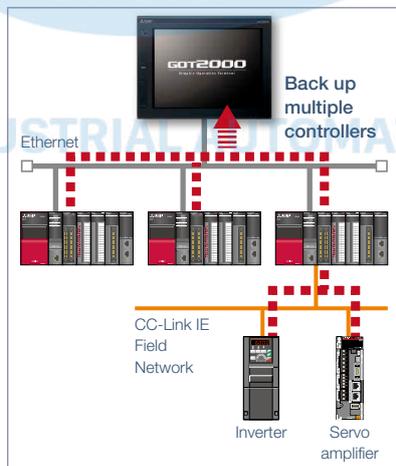
Programmable controller error! The battery is dead! I need to go to the warehouse to get another device and a personal computer to write programs.

There is no need for a personal computer on the production floor. Simply use the GOT to write sequence programs to the controller and you can quickly recover the problem.

Function features

Backup or restore the programs and parameters of programmable controller CPUs or other devices to or from the GOT's SD memory card or USB memory. With a backup of data in the GOT, there's no need to use a personal computer when replacing the industrial devices such as the programmable controller CPU. All replacement and restoration can be completed with just the GOT.

* Excluding GT2103-PMBLS



Back up multiple controllers/ Automatic backup

Besides making backup of multiple controllers connected on Ethernet, you can specify a trigger device, a day of the week, and time for automatic backup to reduce the time needed to back up each controller separately.

* Not supported by GT21 and GS21.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

● **Target models** RCPUCPU*, QCPU (Q mode) (excluding Q12PRHCPU, Q25PRHCPU), LCPUCPU, FX5CPU, FXCPU, motion CPU (MELSEC iQ-R Series/Q Series (SV13/SV22 only))*1, robot controller (FR Series (CR800-R (R16RTCPU), CR800-D), F Series (CR750-Q (Q172DRCPU), CR751-Q (Q172DRCPU), CR750-D, CR751-D), SQ Series CRnQ-700 (Q172DRCPU), SD Series CRnD-700)*1, CNC (C80, C70)*1, inverter (FREQROL-A800/A800Plus/F800 Series)*1*2, servo amplifier (MR-J4-□GF)*1*2

*1 Excluding R08SFPCPU, R16SFPCPU, R32SFPCPU, R120SFPCPU, R08PSFPCPU, R16PSFPCPU, R32PSFPCPU, R120PSFPCPU. Not supported by GT21 and GS21.

*2 Supported only when the GOT and the programmable controller (RCPUCPU, QCPU, LCPUCPU) are connected via Ethernet and the programmable controller (RCPUCPU, QCPU, LCPUCPU) and the inverter/servo amplifier are connected via the CC-Link IE Field Network.

● **Supported connection types***1 Ethernet connection*2, direct CPU connection, CC-Link IE Field Network connection*3, serial communication connection, bus connection

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).

*2 When the CC-Link IE Field Network Ethernet adapter module is used, the Backup/Restoration function cannot be used.

*3 The connection type between the programmable controller and the inverter/servo amplifier.

● **Target data** Programs, parameters, device comments, device initial values, file registers, etc.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21*	GS21*	SoftGOT

Supported devices

PLC	Servo	Inverter
Robot	CNC	

* Excluding some models or restrictions apply to some functions. For the details, refer to the function descriptions above.

Check the PLC module status

Upgraded

System launcher function



GOT will solve your problems!

System configuration diagram

Icons show the module status. You can check the module with an error at a glance.

Extended function list screen

You can start the extended functions that are supported by the module.

Select module

Programmable controller CPU

00R0HCPU

- PLC diagnostics
- Device monitor
- Sequence program monitor (Ladder)
- Sequence program monitor (SFC)
- Backup/Restore
- iQSS utility

Motion controller

R64MTCPU

- R motion monitor
- R motion monitor (parameter setting)
- Drive recorder
- System launcher (servo network)**

* See details on page 49

Can I check the status of the programmable controller system without a personal computer?

A graphical configuration diagram indicates module statuses. When you touch a module the extended function list is shown and you can carry out maintenance work efficiently.

Function features

The programmable controller system can easily be checked on GOT without a personal computer at the worksite.

Checking module product information NEW

The product information such as production number obtained from modules can be checked in a list.

Starting extended function quickly

When you touch a module in the system configuration diagram, the list of extended functions available to the module is shown.

Example of system launcher (servo network)

* See details on page 49



Model name	Mar	Production information
Power PCP		000240102910291
CPU R120CPU	13	1307292540410011
NC20C-TMS		1008011621000308
GPU R20GPU	25	2507011900310001
GPU R10GPU	35	1307292540210161
GPU R04GPU	36	8302929200000000
S R04S24		0000442700210031
R04M2P		0000741111510091
R04A24		00001161110210171
R04AP2H		00001311610510251
E Empty		
I Empty		
Q Empty		
T Empty		

Online module change function

GOT can direct a programmable controller to execute the online module change. (The applicable modules are listed below in this page.)

Specification details and restrictions

- **Target models** R CPU, Q CPU (Q mode), L CPU, motion CPU (MELSEC iQ-R Series/Q Series), CNC (C80, C70), robot controller (FR Series (CR800-R (R16RTCPU), CR800-Q (Q172DSRCPU)), F Series (CR750-Q (Q172DRCPU), CR751-Q (Q172DRCPU)), SQ Series CRnQ-700 (Q172DRCPU))
- **Supported connection types*** Ethernet connection*, direct CPU connection, serial communication connection, CC-Link IE Controller Network connection, CC-Link IE Field Network connection, CC-Link connection, bus connection, MELSECNET connection
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
- *2 When the CC-Link IE Field Network Ethernet adapter module is used, the system launcher function cannot be used.
- **Extended functions that can be started from the system launcher** Device monitor, sequence program monitor (iQ-R ladder/Ladder), sequence program monitor (SFC), network monitor, R motion monitor, Q motion monitor, intelligent module monitor, backup/restoration*1, motion SFC monitor, CNC monitor 2, CNC monitor, CNC data I/O, CNC machining program edit, iQSS utility, CC-Link IE Field Network diagnostics, drive recorder, system launcher (servo network), servo amplifier graph
- *1 The CPU number setting is not transferred. Only the channel of the connected controller is in its selected state.
- **Modules applicable to online module change** Q CPU (Q mode) input/output/I/O module, analog input/output module, temperature input/temperature control module, loop control module, pulse input module

Recommended industries

- Automotive
- SEMICON, LCD
- Electronics
- F & B
- Pharma
- Plant

Supported GOT types

- GT27
- GT25
- GT23
- GT21
- GS21
- SoftGOT

Supported devices

- PLC
- Servo
- Inverter
- Robot
- CNC

Graphically monitor the network status



Support maintenance work

■ CC-Link IE Field Network diagnostics

Having problems?

GOT will solve your problems!

Where the error occurred is visible and easy to check

A problem occurred but it might take time to solve it in the large scale system.

Even in a large scale system that has a complex network configuration, the network status can be checked graphically so that line troubles and module errors can be identified quickly.

Function features

GOT can be used to check the devices in the CC-Link IE Field Network and identify the error in the network at a glance. If a problem occurs, you can quickly check where the error occurs and reduce downtime.

Checking event history

This window displays the history of network events and the event details. The event history can be output to a CSV file and used for trouble analysis in your office.

* Not available when the connection destination is an RCPU or FX5CPU.



Network event history window

Checking communication status of modules

The communication status can be checked for modules that are selected in the CC-Link IE Field Diagnostics screen. MAC address and IP address can also be checked.



Communication status monitor window

Specification details and restrictions

- **Target models** RCPU, QCPU (Q mode), LCP, FX5CPU, C Controller (MELSEC iQ-R Series/Q Series)
 - **Supported connection types***1 Ethernet connection*2, direct CPU connection*3, serial communication connection*4
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
 *2 Connection to the Ethernet interface module of a programmable controller is not supported.
 *3 RCPU and FX5CPU do not support direct CPU connection.
 *4 FX5CPU does not support serial communication connection.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

Easy debugging



Support system
startup/
adjustment

■ FA transparent function



Having problems?
It's bothersome to open the cabinet every time I setup or adjust the device. For the safety reason, I don't want to open the cabinet and change cable connections.



GOT will solve your problems!
Without opening the cabinet and by only connecting a personal computer to the front USB interface on the GOT, you can use the GOT as a transparent gateway to enable programming, startup, and adjustment of industrial devices.

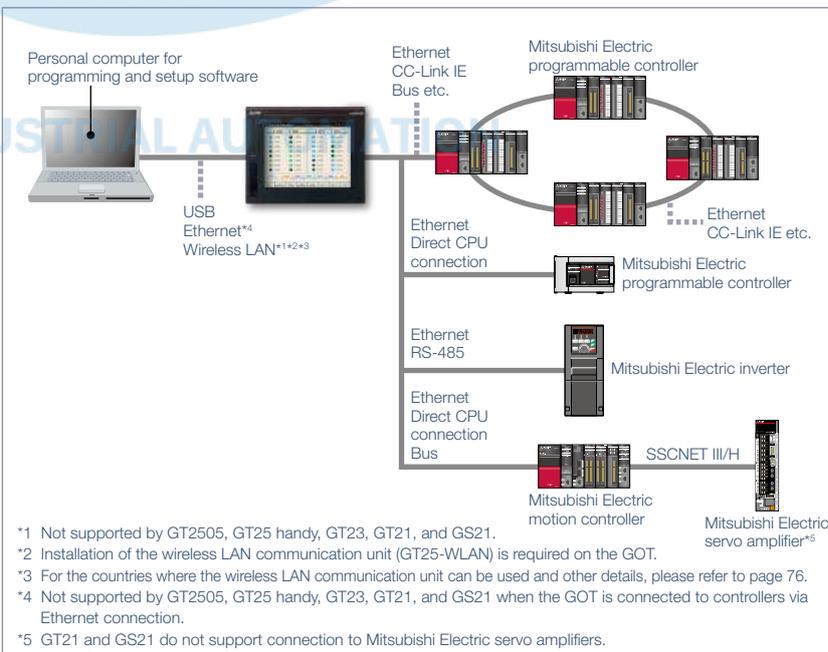
Function features

By connecting a personal computer to the front USB interface on the GOT, you can use the GOT as a transparent gateway to enable programming, startup, and adjustment of industrial devices. Users do not have to bother with opening the electrical cabinet or changing cable connections.

Transferring data via a programmable controller

Transfer data from a personal computer to the GOT2000 with a programmable controller acting as a gateway. Changing project data during startup or maintenance is now easier than ever.

* Not supported by GT21 and GS21.



*1 Not supported by GT2505, GT25 handy, GT23, GT21, and GS21.
*2 Installation of the wireless LAN communication unit (GT25-WLAN) is required on the GOT.
*3 For the countries where the wireless LAN communication unit can be used and other details, please refer to page 76.
*4 Not supported by GT2505, GT25 handy, GT23, GT21, and GS21 when the GOT is connected to controllers via Ethernet connection.
*5 GT21 and GS21 do not support connection to Mitsubishi Electric servo amplifiers.

Specification details and restrictions

● Supported devices, connection types, and compatible software For the details, please refer to the relevant product manual.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25*	GT23*
GT21*	GS21*	SoftGOT

Supported devices

PLC	Servo	Inverter
Robot	CNC	

* Restrictions apply to some functions. For the details, refer to the function descriptions above.

Check status of industrial devices



Support maintenance work

Device monitor function

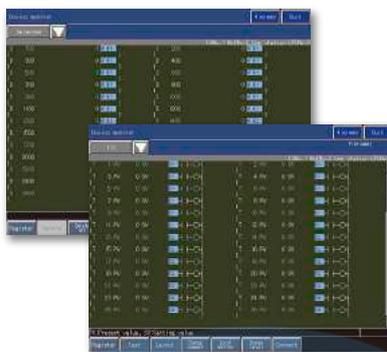
Having problems?



How can I check the status of industrial devices without a personal computer?

GOT will solve your problems!

Entry monitor



T/C (timer, counter) monitor

Batch monitor



BM (buffer memory) monitor

GOT can be used to monitor or change device values of programmable controllers, motion controllers, robot controllers, or CNCs. The function is useful for starting up devices.

* For the details of supported devices and connection types, please refer to the relevant product manual.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

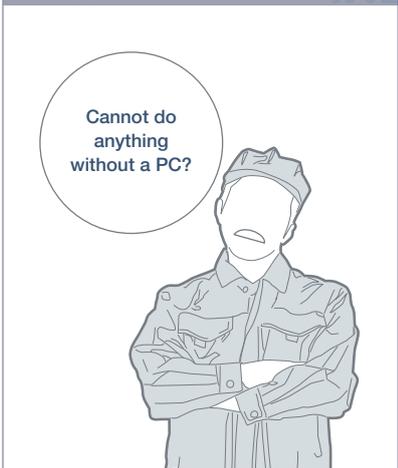
GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

Network monitor function

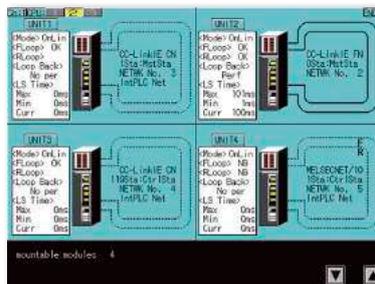
Having problems?



Can I check the network status without a personal computer?

GOT will solve your problems!

Network monitor



Communication status monitor



The network monitor function enables the GOT to monitor and display the status of the CC-Link IE Controller Network, CC-Link IE Field Network, MELSECNET/H network, and MELSECNET/10 network.

* For the details of supported devices and connection types, please refer to the relevant product manual.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

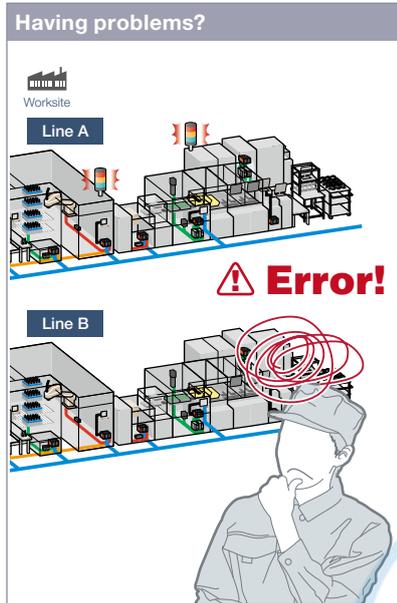
Supported devices

PLC	Servo	Inverter
	Robot	CNC

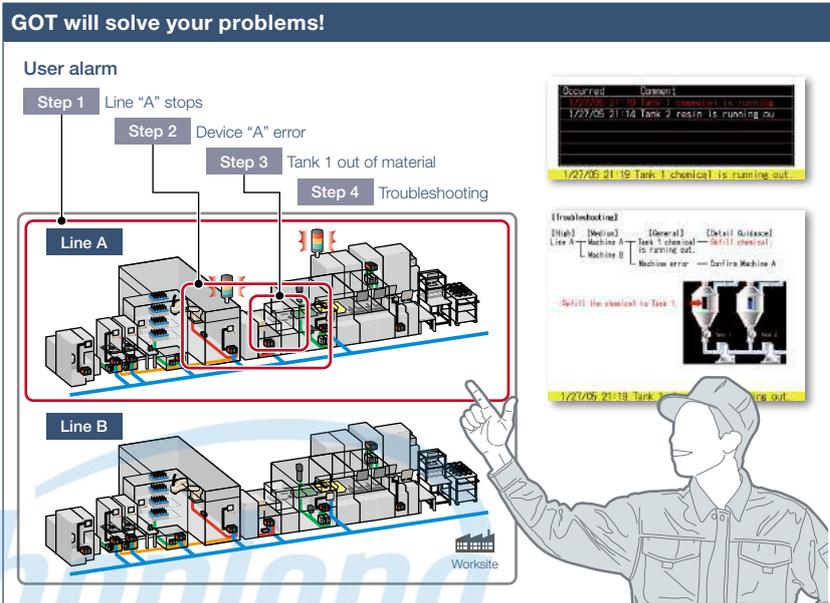
Easily identify the cause of alarms



Alarm function



An error occurred! How can I identify the location and quickly recover the problem?



Alarms are displayed with a station No. and CPU No. in the list grouped by system or level. It helps you to identify the location where the error occurred in a large system, leading to quick troubleshooting.

Function features

GOT displays communication errors (system alarms) of controllers and user-created alarms (user alarms).

Backup of alarm logs during power failure [System alarm/User alarm]

Alarm log data can be saved to a built-in SRAM even when the power supply has failed.
* Not supported by GT21 and GS21.

Interaction with other functions [User alarm]

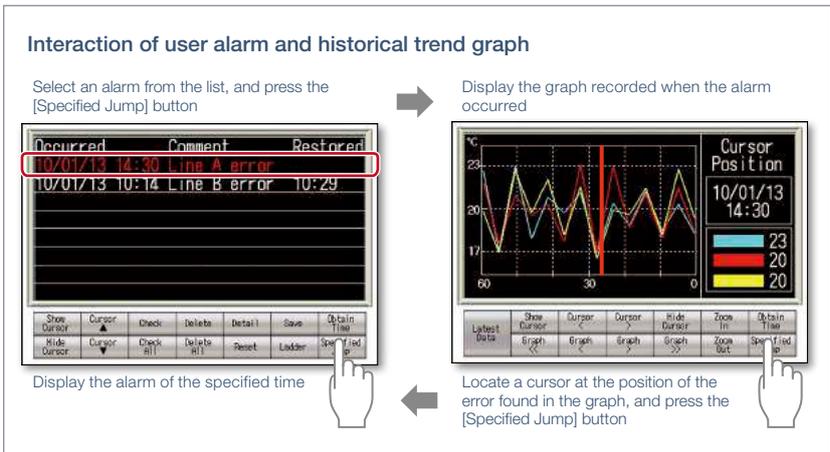
Use of the alarm function combined with the logging and graph helps you to check the status when the alarm occurred and the status of the error found in the graph.

Easily identify the cause of alarms [System alarm]

System alarms are displayed with additional information such as channel No., network No., station No., CPU No., screen No., and object ID. It helps you to identify the controller in which the error occurred and the cause of the alarm.
* Not supported by GT21 and GS21.

Alarms grouped by system or level [User alarm]

Alarms are displayed in the list grouped by system or level or all alarms are displayed in one list. You can easily check the detailed information of multiple alarms even in a large system, leading to quick troubleshooting.



* For the necessary option devices, please refer to the "Function list" (page 148).

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21*	GS21*	SoftGOT

Supported devices

PLC	Servo	Inverter
Robot	CNC	

* Restrictions apply to some functions. For the details, refer to the function descriptions above.

Quick troubleshooting at worksite



Support maintenance work

Upgraded

Document display function

Having problems?

How can I recover from errors?

GOT will solve your problems!

Save manuals, check sheets, etc. in SD memory card

Insert SD memory card to GOT

GOT displays manuals or check sheets with instructions on how to restore the system, which reduces the downtime.

Function features

GOT displays various kinds of documents such as manuals. You can switch between pages, scroll, and zoom in/out a page for smooth viewing. Entering a page number easily displays the specified page among multiple pages in the manual.

Indirect specification of document ID or page number

You can switch displayed documents on one screen just by changing the document ID or the page number with objects such as touch switch or numerical input.

Viewing PDF files directly

PDF files can be viewed directly on GOT. With bookmark display and keyword searches, you can instantly check the information you want.

Bookmark display and keyword searches of PDF files

Document display screen

Bookmark display
Display the "Bookmark" window and move to the page you want to display from "Bookmark"

Keyword search
Display the search window and enter a keyword to move to a page containing the keyword

Specifying initial display page with keyword NEW

By specifying the initial display page with a keyword, the specified page automatically appears when using the document display function.

Supporting network drive NEW

The network drive can be used as the save destination for the document files to display. Data can be saved without considering the capacity limit.

* For the details, please refer to page 86.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

● **Supported file formats** PDF file, DocumentConverter output file*1 (doc, xls, ppt, pdf, jpg, bmp)

*1 Documents should be converted using DocumentConverter that is included in GT Works3.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

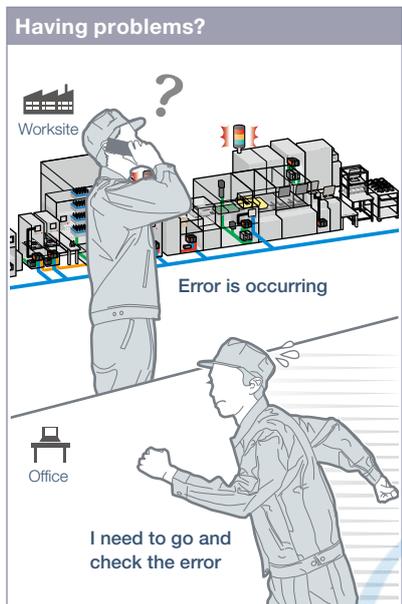
PLC	Servo	Inverter
	Robot	CNC

Quick troubleshooting from your office



Support maintenance work

GOT diagnostics function



An error occurred at the worksite. I need to go and check the error quickly.

You do not need to visit the worksite. The status of GOT and CPU can be monitored using GT Works3 at your office. Check the error cause and corrective actions in detail, and you can solve the problem quickly.

Function features

Without having manuals, you can use GT Works3 and check the cause and corrective actions of system alarms* and script errors.

* Not supported by GT21 and GS21.

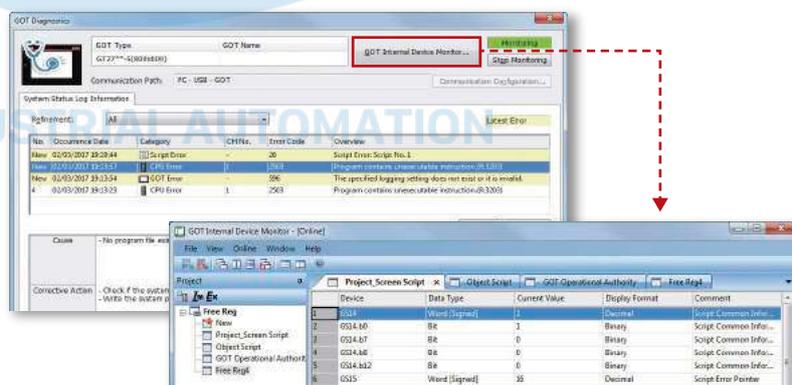
Checking system alarms*

GOT errors, CPU errors, net work errors, and corrective actions can be checked. Without using GX Works3/GX Works2, quickly check errors using GT Works3.

* Not supported by GT21 and GS21.

Checking script errors

The error cause and corrective actions of GOT script programs can also be checked, thus enabling efficient work of program fix and machine setup.



GOT internal device monitor

On GT Works3, you can monitor the GOT internal devices and change the device values as necessary.

Specification details and restrictions

● **Display contents** System alarms*1 (GOT errors, CPU errors, network errors), script errors (project script, screen script, object script)

*1 Not supported by GT21 and GS21.

Recommended industries

- Automotive
- SEMICON, LCD
- Electronics
- F & B
- Pharma
- Plant

Supported GOT types

- GT27
- GT25
- GT23
- GT21*
- GS21*
- SoftGOT

Supported devices

- PLC
- Servo
- Inverter
- Robot
- CNC

* Restrictions apply to some functions. For the details, refer to the function descriptions above.

Support various international standards



Compatible with environmental standards

Having problems?

GOT will solve your problems!

I want to use an HMI which is designed to be safely used in hazardous locations.

GOT has been approved as the environmentally-resistant equipment, which means that the GOT can be used in various locations.

Function features

GOT is acceptable for use in hazardous locations classified by various safety standards (Class I, Division 2 [the United States, Canada], ATEX [Europe], KCs [Korea]).

Since GOT conforms to water, dust, and oil-proof IP67F standard, it is acceptable for use in areas where water or oil are present.

* GT25 rugged model conforms to IP66F.



Approved use in hazardous locations

GOT complies with safety standards of the United States, Canada, Europe, and Korea. (White model only)



Water, dust, and oil-proof

IP67F for the front surface. GOT is acceptable for use in areas where water or oil are present.

* GT25 rugged model conforms to IP66F.

Approval standards list (as of December 2019)

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

O: Supported x: Not supported

Approval standards			Standard model (panel color: black)	White model (panel color: white)		GT25 open frame model	GT25 wide model GT25 rugged model GT21 wide model
Mark	Overview	Country/ Region	GT27/GT25 GT23/GT21/GS21	GT27□□-□TWA GT25□□-□TWA	GT27□□-□TWD GT25□□-□TWD	GT25□□F-□TNA GT25□□F-□TND	GT2510-WXT□D GT2507-WT□D GT2507T-WTBD GT2107-WT□D
CE	EMC Directive harmonized standards, Low Voltage Directive harmonized standards, RoHS Directive harmonized standards	Europe	○	○	○	○	○
Ex	ATEX Directive harmonized standards*1	Europe	x	x	○	x	x
UL	Safety standards Class I, Division 2	United States	○	○	○	○	○
cUL	Safety standards Class I, Division 2	Canada	x	○	○	x	x
KC	EMC standards	Korea	○	○	○	○	○
KCs	Safety standards*1	Korea	x	x	○	x	x

*1 To comply with ATEX directive and KCs regulation, there are some restrictions. Please refer to the specification details and restrictions below.

Specification details and restrictions

- **Class I, Division 2** This classification means that the equipment has been approved for use in Class I, Division 2 hazardous locations.
- **ATEX directive and KCs regulation** GOT is acceptable for use in hazardous locations classified by these safety standards. To comply with the ATEX directive and KCs regulation, protective sheet and special fitting in the "Product list" are required separately. (Only protective sheet is required for GT2508-VTWD.) Communication units and option units cannot be used. When using these units, GOT does not comply with the standards. For the details, please refer to the Technical Bulletin "GOT2000 Series in Compliance with the ATEX Directive and KCs Certification Requirements" (No. GOT-A-0101) on the Mitsubishi Electric Factory Automation Global website.
- **IP67F** To conform to IP67F, close the USB environmental protection cover by pushing in the [PUSH] mark or [PULL] mark firmly to lock the cover*1. 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.

*1 Open frame models conform to IP67F with the environmental protection sheet attached.

Wireless communication between GOT and PC



Support system design

Wireless LAN communication unit

Having problems?

No cables to connect GOT and a personal computer...

GOT will solve your problems!

Mitsubishi Electric programmable controller

Wireless LAN access point*3

Install the wireless LAN communication unit (GT25-WLAN) on the GOT

How do I connect GOT and a personal computer without using a cable?

The wireless LAN connection between GOT and a personal computer is supported. Project data transfer, FA transparent function, GOT Mobile function, and other functions can be used.

*1 Installation of the wireless LAN communication unit (GT25-WLAN) is required on the GOT.

*2 Not supported by GT2505, GT23, GT21, and GS21 because the wireless LAN communication unit cannot be installed on these models.

*3 Access point mode is supported by GT Works3 Ver.1.144A or later. No access point is required separately for direct communication between GOT and mobile devices.

Specification details and restrictions

● **Use in wireless LAN connection** Data transfer in the wireless LAN communication may not be as stable as that in the cable communication. A packet loss may occur depending on the surrounding environment and installation location. Make sure to check that it operates properly before using.

● **Country applicable to wireless LAN communication unit** The wireless LAN communication unit with hardware version A can be used only in Japan.

The unit with hardware version B or later can be used in Japan (Japan Radio Law), the United States (FCC standards), the EU member states, Switzerland, Norway, Iceland, and Liechtenstein (RE Directive). The unit with hardware version D or later can be used in Japan, the United States, the EU member states, Switzerland, Norway, Iceland, Liechtenstein, China (excluding Hong Kong, Macau, Taiwan), and Korea.

Recommended industries

- Automotive
- SEMICON, LCD
- Electronics
- F & B

Supported GOT types

- GT27
- GT25*
- GT23
- GT21
- GS21
- SoftGOT

* Excluding GT2505. For the details, refer to the function descriptions above.

* For the necessary option devices, please refer to the "Function list" (page 148).

Design secure network configuration



Support system design

Ethernet communication unit

Having problems?

Worksite Office

HUB

GOT will solve your problems!

Information system network

Office

Control system network

Worksite

Communication continues

Ethernet

I want to separate the network for security reason.

Two Ethernet ports physically separate the information system network in the office from the control system network at the production site; therefore the network architecture is more reliable and secure.

* Installation of the Ethernet communication unit (GT25-J71E71-100) is required on the GOT.

* GT25 wide models have two Ethernet ports as standard so that the Ethernet communication unit is not required.

* Not supported by GT2505, GT23, GT21, and GS21 because the Ethernet communication unit cannot be installed on these models.

Specification details and restrictions

● **To use Ethernet communication unit** To use the Ethernet communication unit, the BootOS version Z or later is required. Because the unit cannot be used depending on the connection destination, please refer to the GOT2000 Series Connection Manual.

Recommended industries

- Automotive
- SEMICON, LCD
- Electronics
- F & B
- Pharma
- Plant

Supported GOT types

- GT27
- GT25*
- GT23
- GT21
- GS21
- SoftGOT

* Excluding GT2505. For the details, refer to the function descriptions above.

* For the necessary option devices, please refer to the "Function list" (page 148).

Implement the sound notification system easily



Support system design

■ Sound output function

Having problems?

I didn't notice that it stopped working.

GOT will solve your problems!

Time to replace the part.

Workpiece is stuck. Please remove the workpiece.

How can I check the equipment status from a remote location?

GOT can be used to output sound data. Outputting a notification sound can reliably convey the information to the operators who are working away from the GOT. It is also usable while screen saver is active.

Function features

The sound can be output* from the audio equipment such as a speaker that is connected to GOT. The sound can be played when the trigger action or time action conditions are satisfied or touch switches are touched.

* GT25 wide models have a built-in sound output interface so that the sound output unit (GT15-SOUT) is not required. The unit is required for other models.

* Not supported by GT2505.

* To output sound, it is required to create sound files.

Sound files can be created easily (See page 118)

There are three types of sound files: messages, sound effects, and melodies. Messages can easily be created by using the speech synthesis function* (page 118). Sound effects and melodies are included in GT Works3 so that you can reduce time for system design.

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

Sound files

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

Cancel or mute the sound while it is being played back

After checking the situation, you can stop or mute the sound while it is being played back so that you do not need to worry about annoying other operators.

An error occurred. Please check workpiece in process A...

Checked, OK!

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

- **Unit installation** GT25 wide models have a built-in sound output interface so that the sound output unit (GT15-SOUT) is not required. The unit is required for other models.
- **Sound file specifications** Sound file format: WAV format, sampling frequency: 8.000 kHz/16.000 kHz, channel number: 1 channel (monaural)
- **Applicable plug** φ3.5 stereo mini-plug (3-prong)

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

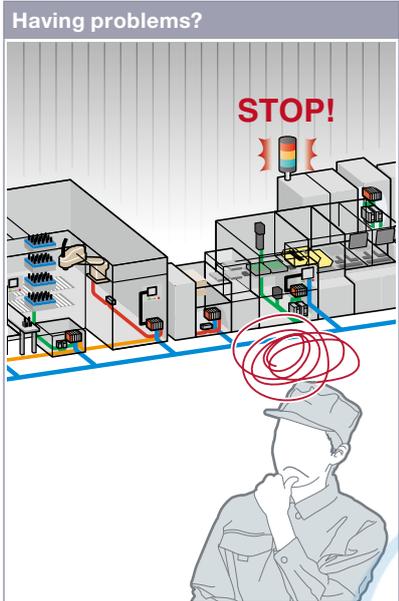
GT27	GT25*	GT23
GT21	GS21	SoftGOT

* Excluding GT2505. For the details, refer to the function descriptions above.

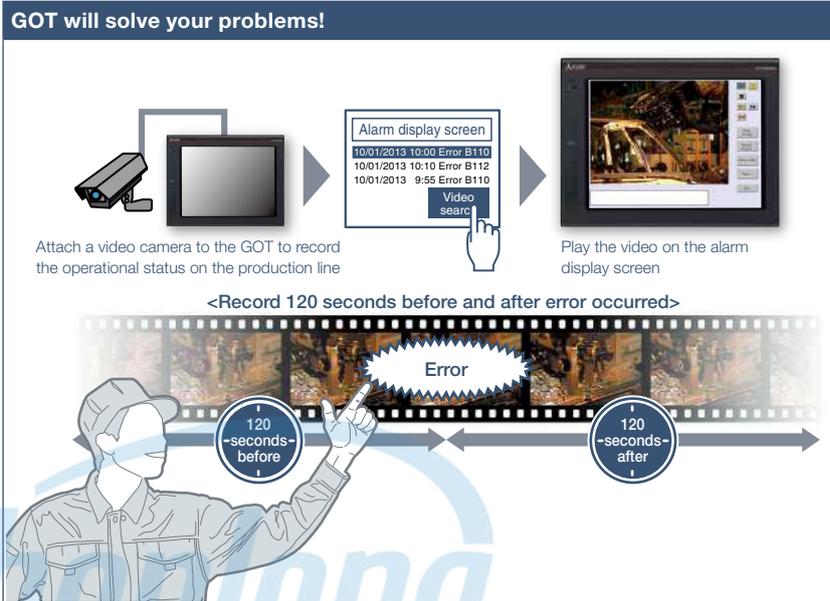
Record/Playback videos to see what happened at worksite



Multimedia function



Production line has stopped due to machine errors! It's difficult to identify the cause of the error on the unattended line.



GOT records the operational status on the production line and plays back the recorded video image. Visual clarity of the image helps you to analyze the cause of the error.

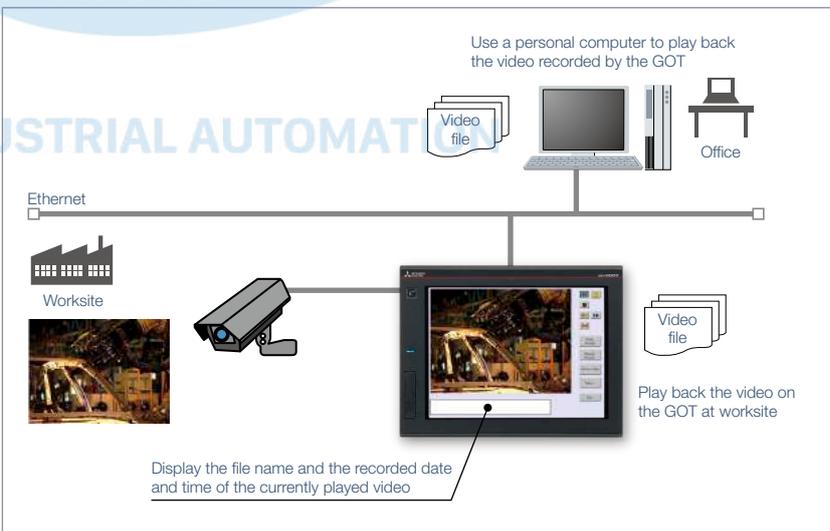
Function features

GOT displays and records the image taken by a video camera connected to the multimedia unit and plays back the saved video image.

To set the timing of recording, you can use a device of a controller as a trigger.

* Excluding GT2705.

* Multimedia unit (GT27-MMR-Z) and CF card are required.



Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

Recording specifications

Before-after event recording This allows the recording of a total of 240 seconds of images, including 120 seconds before and after a system error occurs. (When event trigger device turns on).

Standard mode This allows two types of recording modes: Recording size VGA (640 × 480), frame rate maximum 15fps; Recording size QVGA (320 × 240), frame rate maximum 30fps.

Long-time mode This allows the recording for long hours of approximately two days. Recording size QVGA (320 × 240), frame rate 15fps.

Unit installation One of the following units can be installed: multimedia unit, video input unit, digital video output unit, RGB input unit, video/RGB input unit, or RGB output unit.

Recommended industries

- Automotive
- SEMICON, LCD
- Electronics
- F & B
- Pharma

Supported GOT types

- GT27*
- GT25
- GT23
- GT21
- GS21
- SoftGOT

Supported devices

- PLC
- Servo
- Inverter
- Robot
- CNC

* Excluding GT2705. For the details, refer to the function descriptions above.

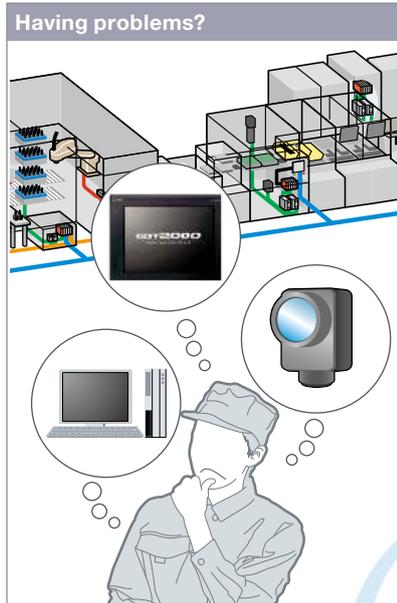
Monitor worksite using video images



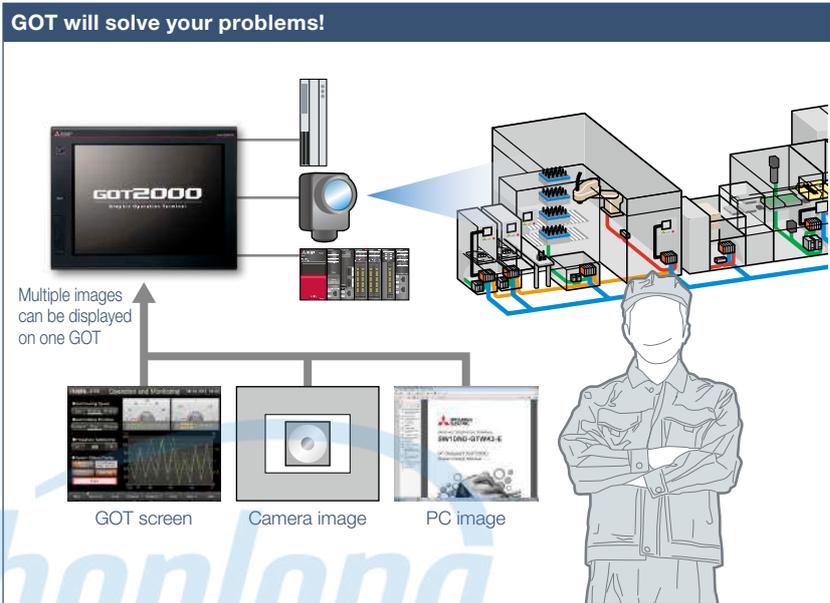
Support system design

Upgraded

Video display/RGB display/Video output function



There is not enough space for multiple monitors at the worksite.



GOT acts as a monitor to display images which are recorded by a video camera or saved in a personal computer, and thus there is no need to have additional monitors.

Function features

GOT acts as a monitor to display images which are recorded by a video camera or saved in a personal computer.

* Excluding GT2705.

Video input

Input images of up to 4 video cameras can be simultaneously displayed on the GOT. You can zoom in or zoom out the images and save the GOT images (hard copy images).

* Video input unit (GT27-V4-Z) or video/RGB input unit (GT27-V4R1-Z) is required.

RGB input*1

RGB images can be displayed on the GOT. Simultaneous display of two screens is also possible*2. You can use various effects for the images such as rotation, and gesture operations can be used for zooming in/out (400%) and scrolling objects*2.

*1 RGB input unit (GT27-R2) or video/RGB input unit (GT27-V4R1-Z) is required.

*2 Supported by GT27-R2 only.

RGB output

The GOT screen can be displayed on a commercially available large display even when the backlight of the GOT is off.

* RGB output unit (GT27-ROUT) is required.

HDMI output **NEW**

Connect an HDMI compatible monitor and display GOT screens on the large monitor. Since the GOT screen can be displayed on a large monitor, it is recommended for ANDON applications.

* Digital video output unit (GT27-VHOUT) is required.



By creating a base screen larger than the resolution of GOT, high resolution screen that fits the external monitor can be displayed. (For the details, see page 88)

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

- **Unit installation** One of the following units can be installed: multimedia unit, video input unit, digital video output unit, RGB input unit, video/RGB input unit, RGB output unit
- **Applicable peripheral devices** For the details, please refer to the Technical Bulletin No. GOT-A-0064 on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27*	GT25	GT23
GT21	GS21	SoftGOT

* Excluding GT2705. For the details, refer to the function descriptions above.

Supported devices

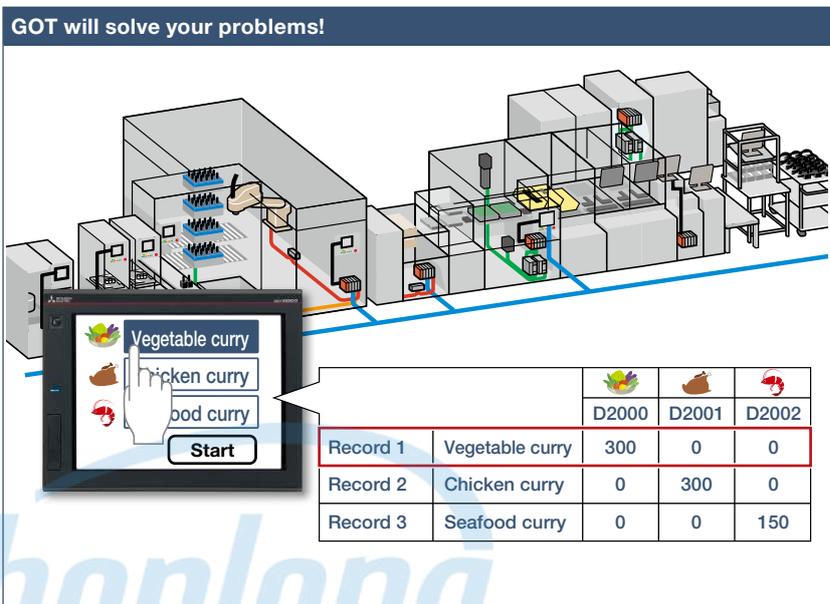
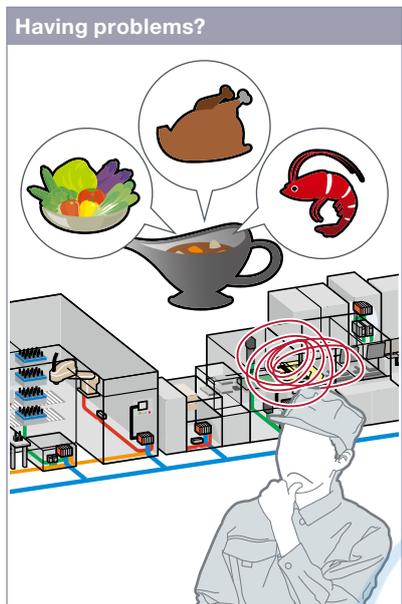
PLC	Servo	Inverter
	Robot	CNC



Quick changeover

Upgraded

Recipe function



		D2000	D2001	D2002
Record 1	Vegetable curry	300	0	0
Record 2	Chicken curry	0	300	0
Record 3	Seafood curry	0	0	150

How can I change the recipe information such as material blend and machine conditions?

GOT saves recipe information for individual product. You can select a recipe to be written to the programmable controller, which achieves the quick changeover for the production line.

Function features

GOT saves the recipe information (device values) such as material blend and machine conditions. You can change the recipe on the GOT and write it to a programmable controller to quickly perform the changeover.

Easy changeover

Changing recipes (changeover) is easy on a user-created screen*1 or on the utility screen.

Checking record values before recipe change

Without writing records to programmable controllers, record values can be checked and changed. By overwriting a recipe file with the changes, the changed values can be written to devices in programmable controllers. (Recipe special control)
* Not supported by GT21 and GS21.

Change recipes in the utility screen	Change recipes from user-created screens*1						
	<table border="1"> <thead> <tr> <th>Recipe operation window</th> <th>Recipe display (record list)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td>Secured by setting passwords to activate the utility screen.</td> <td>Record selection screen can be created by the users. Various functions and designs are available.</td> </tr> </tbody> </table>	Recipe operation window	Recipe display (record list)			Secured by setting passwords to activate the utility screen.	Record selection screen can be created by the users. Various functions and designs are available.
Recipe operation window	Recipe display (record list)						
Secured by setting passwords to activate the utility screen.	Record selection screen can be created by the users. Various functions and designs are available.						

Recipe function can be used without data storage **NEW**

Data storage or SRAM user area can be specified as the save destination of recipe data.

*1 Changing recipes on a user-created screen is not supported by GT21 and GS21.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

- Supported device formats Bit, BIN, BCD, Real, String
- Supported formats of recipe file conversion CSV file, Unicode® text file

Recommended industries

- Automotive
- SEMICON, LCD
- Electronics
- F & B
- Pharma
- Plant

Supported GOT types

- GT27
- GT25
- GT23
- GT21*
- GS21*
- SoftGOT

Supported devices

- PLC
- Servo
- Inverter
- Robot
- CNC

* Restrictions apply to some functions. For the details, refer to the function descriptions above.

Support recipe setting (record) selection



Support system operation

■ Recipe display (record list)

Having problems?

Can I select a recipe from the list?

I want to select recipe by name, not by number.

GOT will solve your problems!

GT Works3

Create the list from the recipe setting dialog

Select your favorite style from the preset list and easily create appropriate screen!

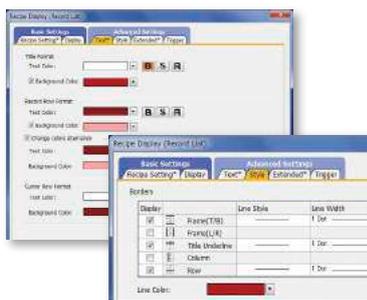
Easy to view recipe display

How can I change recipes easily on a user-created screen?

Recipe names (record names) are displayed in a list format on GOT. Sort or narrow down the list and easily change recipes on GOT.

Function features

Create the recipe display (record list) easily just by selecting required items in GT Works3. Colors, line styles, and borders can be changed as you need.



Colors, line styles, and borders can be changed as you need!

Read and write records

Just select a record and touch a switch on GOT and you can easily read or write records.



Touch switches for various recipe operations

Change display order of records

Records can be sorted by record number or record name by touching the column header.

Change or delete record names

Change record names or delete records by specifying the record name using numerical input.

Touch and sort records

Scroll the list by gesture operation

Specification details and restrictions

- **Customizable settings** Text color, background color, cursor color, ruled line color, line type, line width, show/hide scrollbar, etc.
- **Functions that can be used with recipe display (record list) object** Read/write records, delete records, verify records, change/sort/filter record names, export/import recipe data
- **How to obtain sample screens** Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions: Ver.1.155M or later.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

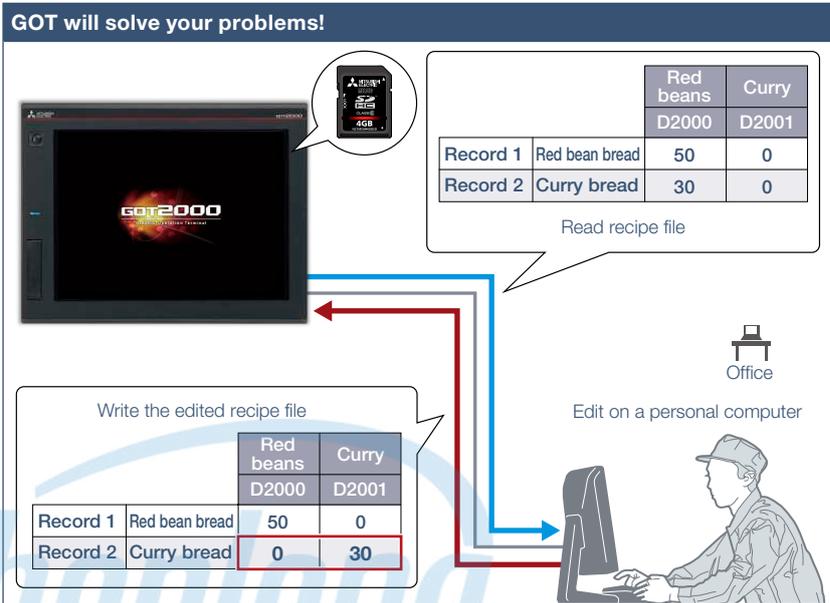
Increase efficiency of maintenance work



■ Writing resource data



How can I correct recipe files in GOT without visiting the worksite?



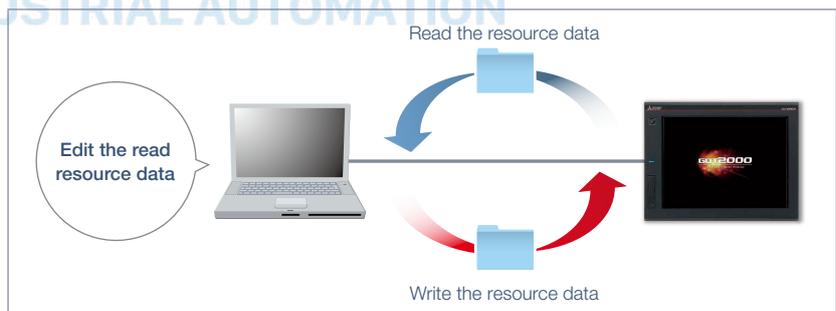
Recipe files read from GOT can be edited and written back to an SD memory card in the GOT. Without ejecting the SD memory card, you can read, edit, and write recipe files in your office.

Function features

Resource data (alarm log file, recipe file, logging file, operation log file, image file, and so on) can be written to GOT. There is no need to eject and insert an SD memory card.

Easy to edit the public folder of the GOT Mobile function

PDF and other files can be directly written to the public folder of the GOT Mobile function. Updating the public folder is easy as well.



Specification details and restrictions

● **Transferable resource data** The data that can be transferred differ depending on the GOT model. In addition, the resource data cannot be written depending on the data type. For the details, please refer to the GT Designer3 (GOT2000) Screen Design Manual.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

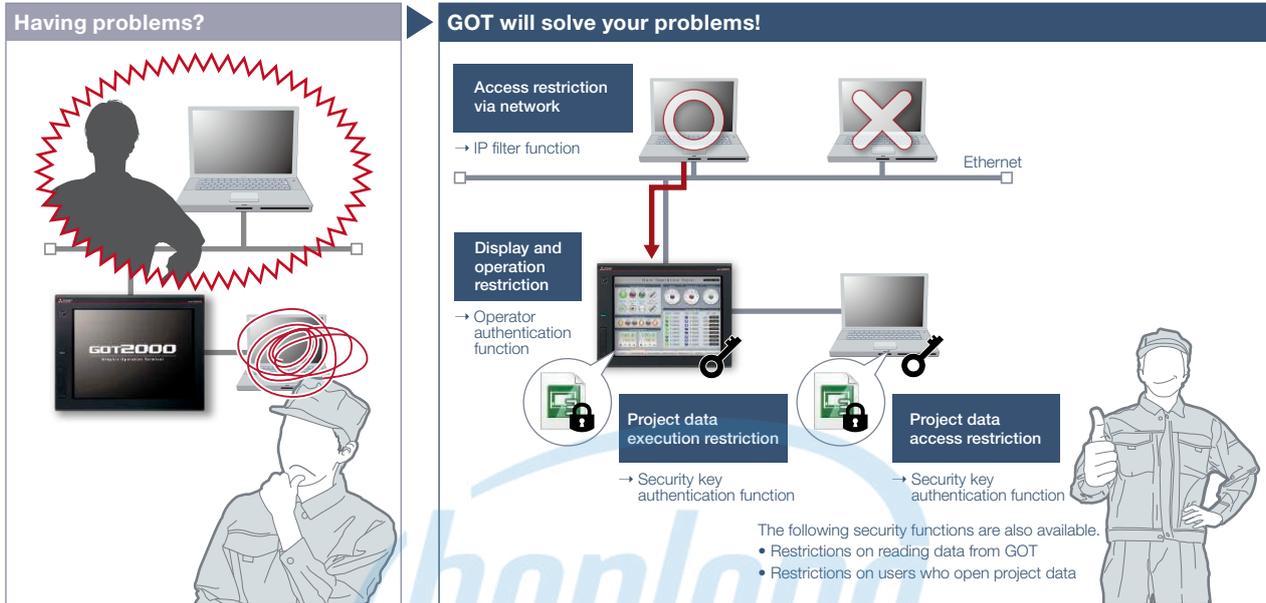
Supported devices

PLC	Servo	Inverter
	Robot	CNC



Protect valuable assets

Various security functions



I know the importance of security functions to protect valuable assets, but how can I do...?

To protect customers' assets, GOT offers enhanced security functions such as access restriction on project data and access restriction via network.

Function features

Security key authentication function and IP filter function offer enhanced security.

Prevent data alteration and duplication [Security key authentication function]

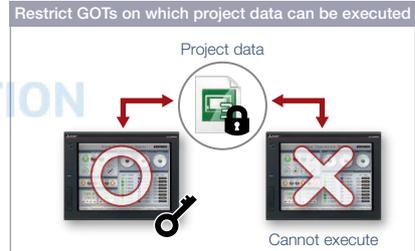
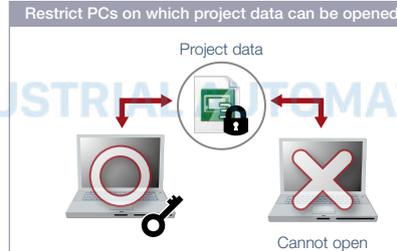
On the GOTs and personal computers without registered security keys, the project data cannot be opened and executed, which protects your techniques (know-how) from information leaks.

* Not supported by GT21 and GS21.

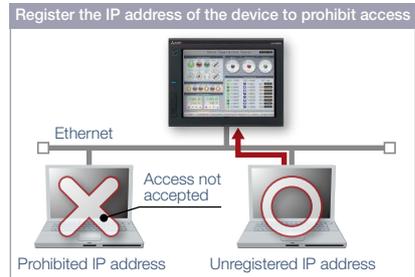
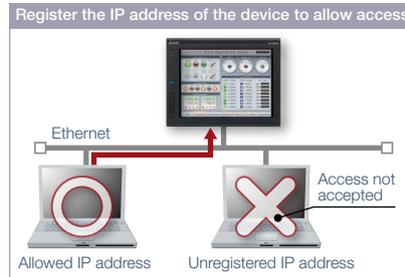
Reduce risk of unauthorized access through network [IP filter function]

Registering the IP address of the device which can access the GOT restricts the access from unauthorized devices.

Security key authentication function



IP filter function



Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21*	GS21*	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

* Restrictions apply to some functions. For the details, refer to the function descriptions above.

Identify error cause based on history information



Upgraded

Operation log function

Having problems?

An error occurred due to improper operations, but I do not exactly know why the error occurred...

GOT will solve your problems!

Operation log list

Check the brief information of the log

Detailed information

Check the detailed information of the log

for more details...

An error occurred due to improper operations, but I do not exactly know why the error occurred...

GOT records all the operations performed by operators. Checking the recorded operation history helps you to identify and analyze the cause of the error occurred due to improper operations, leading to making improvements, preventing reoccurrence, and enhancing traceability.

Function features

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

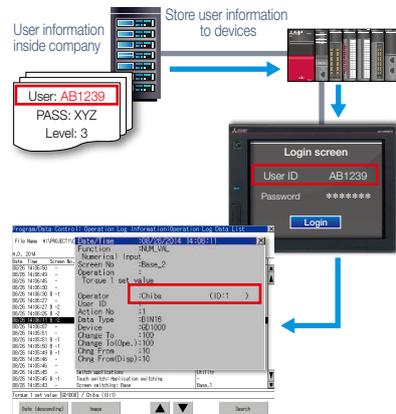
Use of the operation log function combined with the operator authentication function (page 85) records additional information of “who” performed the operation.

Easy management for operation log file

You can copy and delete an operation log file created by the operation log function and change a file name on GOT without using a personal computer. The operation log file can be converted into a CSV file or Unicode® text file so that the file can be checked on the personal computer.

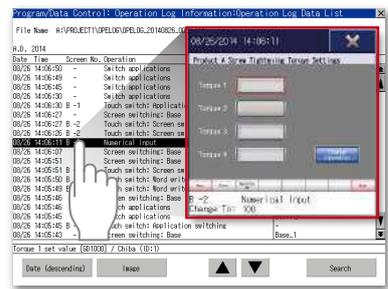
Coordination with user-created management systems NEW

The operation log records not only the operator names that are used in the operator authentication function but also the character strings stored in an external device. It is easy to coordinate your own user management system and the GOT's operation log.



Quick check of operation log file

You can select a log from the operation log list and check the detailed information. Screen images also help you to identify the improper operation.



* For the necessary option devices, please refer to the “Function list” (page 148).

Recommended industries

- Automotive
- SEMICON, LCD
- Electronics
- F & B
- Pharma
- Plant

Supported GOT types

- GT27
- GT25
- GT23
- GT21
- GS21
- SoftGOT

Supported devices

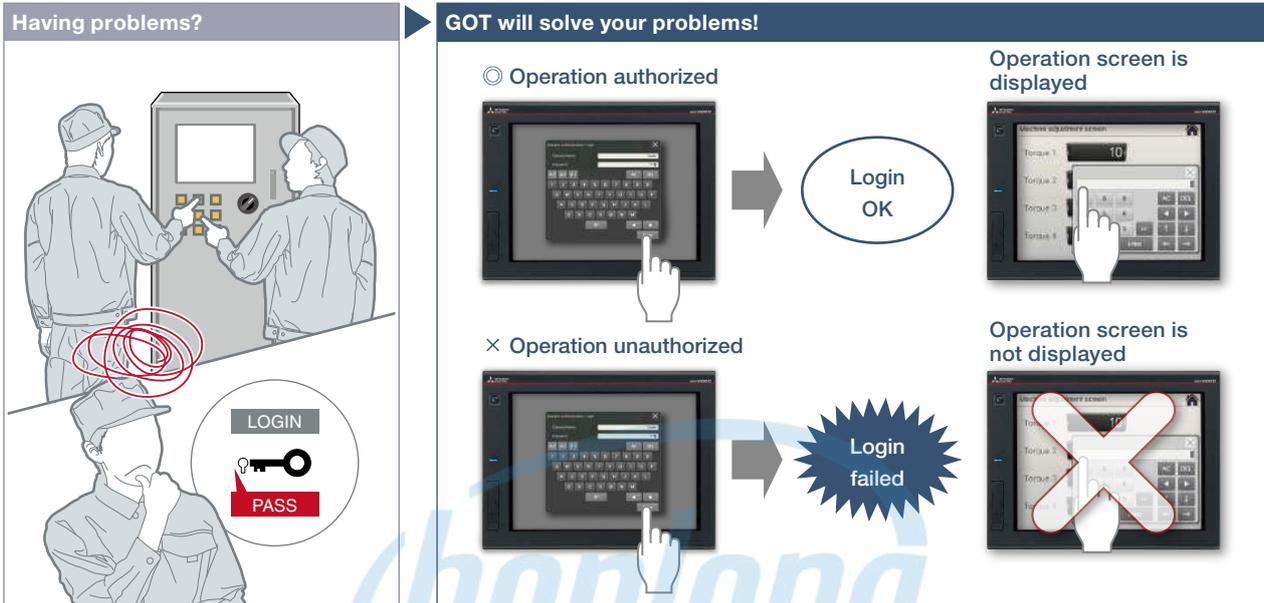
- PLC
- Servo
- Inverter
- Robot
- CNC

Security with password management



Support system operation

Operator authentication function



How can I restrict the unauthorized operators?

Operator name and password enable the secure login management in a large-scale worksite, providing the flexibility of setting the operation authority per worksite or operator. In addition, the login management can be performed by an external authentication device such as RFID.

Function features

Setting the operation authority and the viewing authority achieves “enhanced security” and allows “access management per operator”. Use of the operator authentication function combined with the operation log function (page 84) enables you to check the “who, what, when, and how” of an operation performed.

Enhanced password security

By setting password requirements (the minimum number of characters and the character types), you can set more advanced passwords. It is possible to prompt a password change at the initial login or notify the password expiration date in advance (1 day to 30 days).

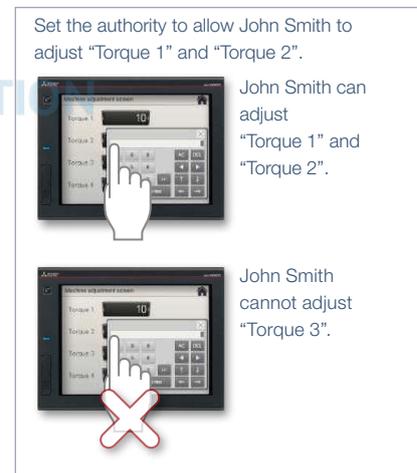
* Not supported by GT21 and GS21.

How to authenticate the operator



Use of method ① combined with method ② is acceptable. Secure login management is achieved even when an external authentication device has failed.

Settings for operation authority



* For the necessary option devices, please refer to the “Function list” (page 148).

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21*	GS21*	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

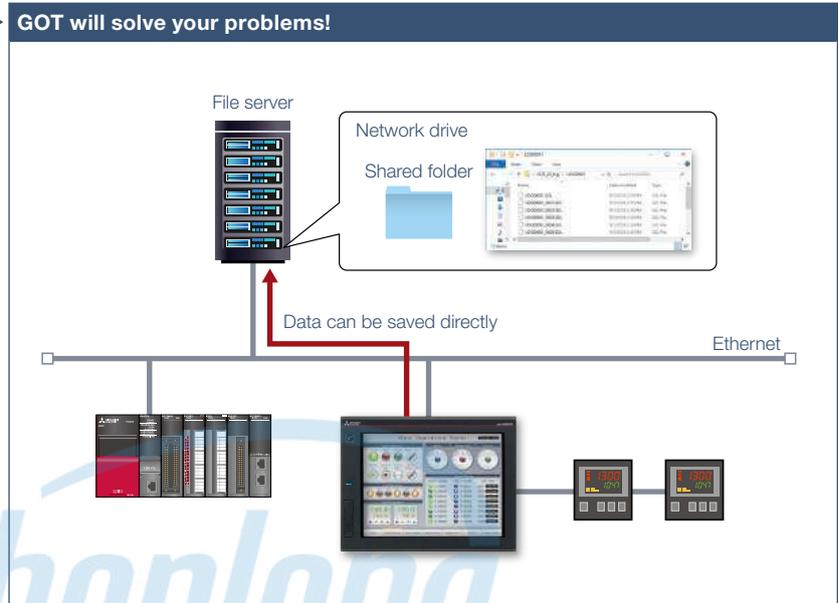
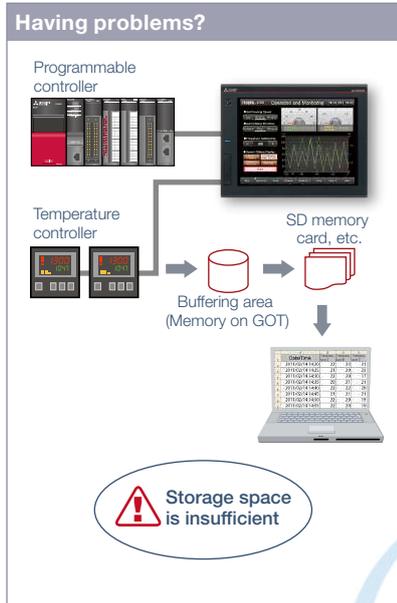
* Restrictions apply to some functions. For the details, refer to the function descriptions above.



Saving files in network drive

NEW

Network drive



As the size of the logging files and other data saved in the GOT increases, the memory capacity soon becomes insufficient.

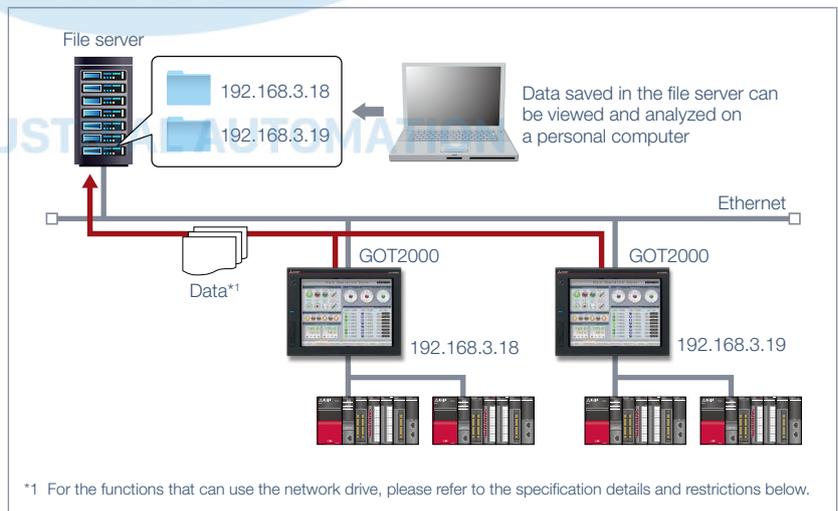
Since GOT files can be saved directly to the shared folder on the file server (personal computer) connected by Ethernet, data can be accumulated without considering the capacity limit.

Function features

The network drive can be used as the save destination for the GOT files. By setting the shared folder on the file server (personal computer) connected by Ethernet as the network drive, the files can be saved directly to the shared folder from the GOT. Use the external storage to accumulate data without considering the capacity limit.

Saving all data to file server

Since files can be saved directly to the file server from multiple GOTs, you can view necessary data just by accessing the server.



Specification details and restrictions

- **File server** File servers must support the file sharing function (SMB or CIFS). For recommended file servers, please refer to the relevant product manual.
- **Functions that can use network drive** Document display, logging, hard copy, file printing, report, file transfer function (FTP transfer), file transfer function (GOT internal transfer), file management function
- **Using network drive on multiple GOTs** When the file save destination setting is common to multiple GOTs, select [Separate destinations for each GOT] in the setting dialog for the function using the network drive. A folder named as the GOT's IP address is created automatically and the files can be prevented from being overwritten.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC



Printing stored data all at once

Upgraded

■ Printing hard copies and reports

Having problems?

The ink has run out.

The ink has run out and hard copy and report data have not been printed.

GOT will solve your problems!

The ink has been replaced. Paper stock is ready.

Print all reports at the end of the day.

How can I make the printer ready and then print data all at once?

Files created in the hard copy function or report function can be printed on a printer. When printing reports, the data can be temporarily stored in an SD memory card or other data storage and printed all at once.

Function features

The hard copy data captured while running GOT or the collected report data can be printed.

Supported printer*1

- Serial printer
- PictBridge-compatible printer*2
- Ethernet printer*3 **NEW**

*1 For the supported printer models, please refer to the Technical Bulletin No. GOT-A-0064 on the Mitsubishi Electric Factory Automation Global website.

*2 Not supported by GT2505, GT25 wide, GT25 handy, GT25 rugged, GT23, GT21, and GS21.

*3 Supported by GT2104-R and GT2103-PMBD among GT21.

Printing reports at an arbitrary timing

The timing to output reports is as follows. Triggers to output data can be set for each report screen.

GT27 model, GT25 model, GT23 model

- When trigger condition is satisfied **NEW**
Stores the collected data into a temporary file, and collectively outputs the data to a report when the output trigger condition is satisfied.
- At the time of data collection (only when using a serial printer)
Outputs the collected data to a report simultaneously with data collection.

GT21 model, GS21 model

- At the time of data collection (only when using a serial printer)
- When one page's worth of data is collected (only when using an Ethernet printer)

SoftGOT

- When trigger condition is satisfied **NEW**

* For the necessary option devices, please refer to the "Function list" (page 148).

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25*	GT23*
GT21*	GS21*	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

* Restrictions apply to some functions. For the details, refer to the function descriptions above.

More information on a single screen



NEW

Base screen size expansion

Having problems?



I want to check the information on another screen at the same time.



GOT will solve your problems!



Scroll the screen and view other parts of the screen



Can I check all necessary information on one screen without switching screens?

A base screen that is larger than the resolution of GOT can be created and displayed. By displaying the information that used to be separated in multiple base screens, operation can be performed while viewing the whole image.

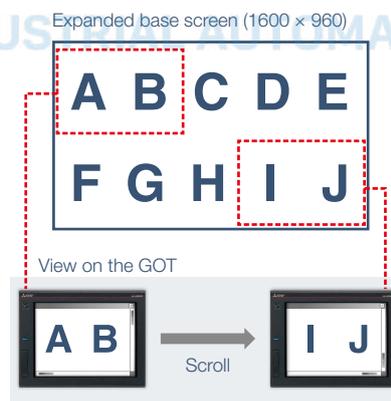
Function features

A base screen that is larger than the resolution of GOT can be created and displayed. The screen of expanded size can easily be scrolled by using swipe gestures or the scroll bars.

* Supported by SoftGOT only when using the SoftGOT-GOT link function.

Example)

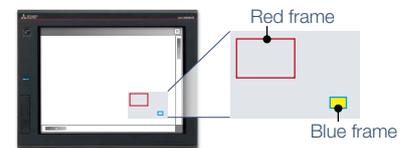
Displaying an expanded base screen (1600 × 960) on GT27-V (640 × 480)



Operation while viewing the whole image

The navigation window can be displayed on GOT to indicate the current position on the base screen. The window is semi-transparent and displayed in small size to help you view the whole image during operation.

The window display can be changed depending on the setting (always display, do not display, or display while swiping/ touching the screen).



Red frame: Indicates the area currently displayed on the GOT.
 Blue frame: Indicates the position of the object where the cursor is located. The frame appears when the cursor moves to any object that is hidden from view. The area enclosed in the frame blinks in yellow.

Specification details and restrictions

- **Graphics setting** GOT Graphic Ver.2 must be selected.
- **Restrictions of other functions** This function cannot be used with the screen gesture function.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT*

Supported devices

PLC	Servo	Inverter
	Robot	CNC

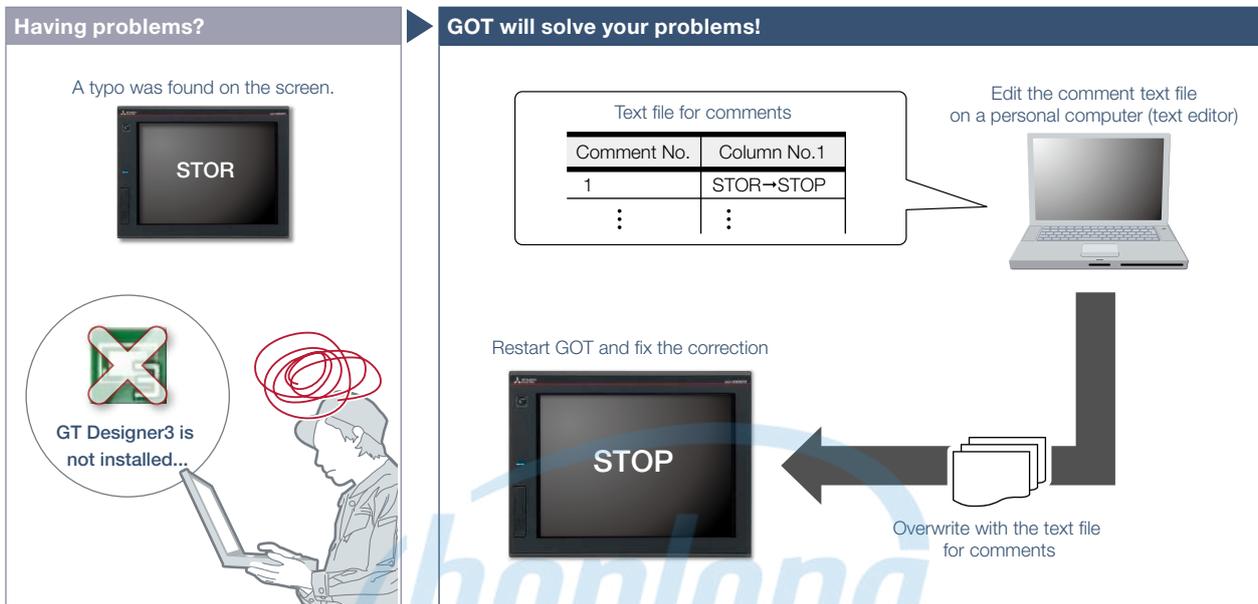
* Restrictions apply to some functions. For the details, refer to the function descriptions above.



Quickly change comments

NEW

Changing comments without using GT Designer3



After starting operation, a typo was found on the screen. I need to correct it but there is no personal computer here that has GT Designer3 installed.

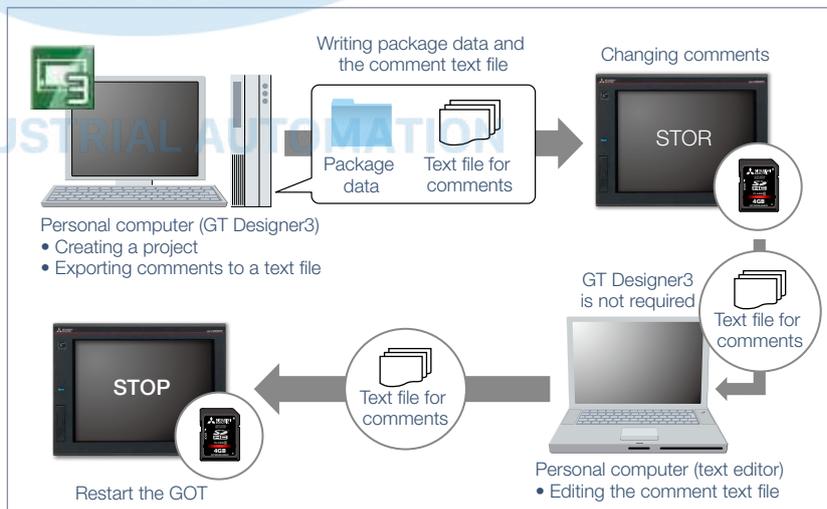
Even if GT Designer3 is not installed on the personal computer, comments can be edited and the changes can be reflected to GOT immediately. It helps to apply minor changes to comments without editing the project data.

Function features

The GOT can display comments by reading a comment text file from the installed data storage. After changing a comment, overwrite the comment text file in the data storage and restart the GOT to display the new comment.

* To display comments from a text file, configure the relevant settings in the project data. For the details, please refer to the GT Designer3 (GOT2000) Screen Design Manual.

* USB memory or SD memory card is required.



Specification details and restrictions

● **Influence on the GOT startup time** When this function is used, the GOT reads a comment text file at startup, resulting in a longer startup time. To minimize the increase of the startup time, enable this function only for the comment group in which comments may be changed.

● **Font restrictions** Windows® fonts and HQ fonts are not usable to display the comments of a text file. Even if a Windows® font or HQ font is specified in the object setting dialog, the GOT displays the comments in a standard font.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

Support FDA 21 CFR Part 11



■ Regarding FDA 21 CFR Part 11 support

Having problems?

Is there any way to support FDA 21 CFR Part 11...

GOT will solve your problems!

Operator authentication screen

Operation screen

Login

How can I support FDA 21 CFR Part 11 easily?

GOT can be used to make your system meet the requirements of FDA 21 CFR Part 11.

* The users must construct an appropriate system for the compliance with the FDA 21 CFR Part 11. For the details, please refer to the Technical Bulletin No. GOT-A-0077 on the Mitsubishi Electric Factory Automation Global website.

Function features

GOT can be used to support FDA 21 CFR Part 11, the standards about electronic data recording of the traceability information, which is required in the food and pharmaceutical industries. Sample screens are available for helping you configure systems.

GOT functions related to FDA 21 CFR Part 11

- (1) **Managing users who access the GOT**
Operator authentication and security level setting
- (2) **Managing screen data**
User management, access control
- (3) **Completeness of data**
Network drive, FTP client, FTP server
- (4) **Security and viewing of data**
Operation log, alarm, logging, recipe
- (5) **Audit trail**
Operation log
- (6) **Validation of data and operations**
Verification (GT Designer3 function)
- (7) **System development, operation, and management**
Security level setting

Access management per operator

The operator authentication function enables management of users who can login to GOT. (For details, see page 85.)

To prevent impersonations, user accounts should be managed thoroughly by the users.

Operator authentication screen



Input an operator name and password for login

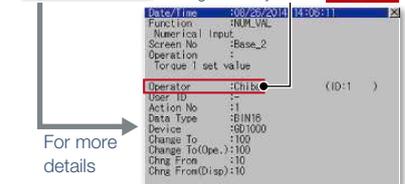
Recording audit trails (histories for the follow-up survey later)

Audit trails can be recorded and operated by setting the operation log appropriately. (For details, see page 84.)

- <Information required to be recorded>
- Time stamp
 - User name of the logged-in operator
 - Description and details of the operation performed by the operator (logs before and after the data change)

Operation log list

Operator names stored in programmable controller devices can be used, thus enabling interaction with user management systems.



For more details

Specification details and restrictions

- **Range of supporting FDA 21 CFR Part 11** The range that GOT can support the regulation is limited. For the details, please refer to the Technical Bulletin No. GOT-A-0077 on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).
- **How to obtain sample screens** Sample screens are included in GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions: Ver.1.152J or later.

Recommended industries

- F & B
- Pharma

Supported GOT types

- GT27
- GT25
- GT23
- GT21
- GS21
- SoftGOT

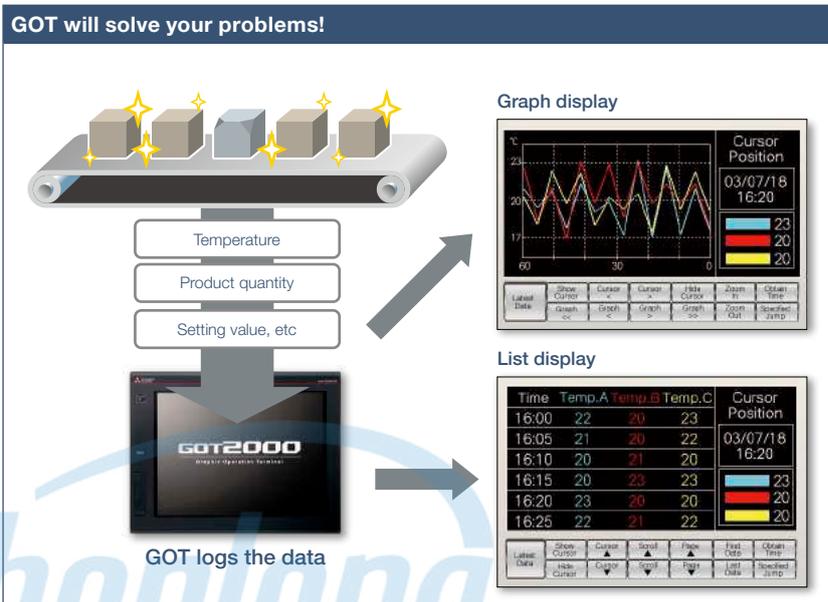
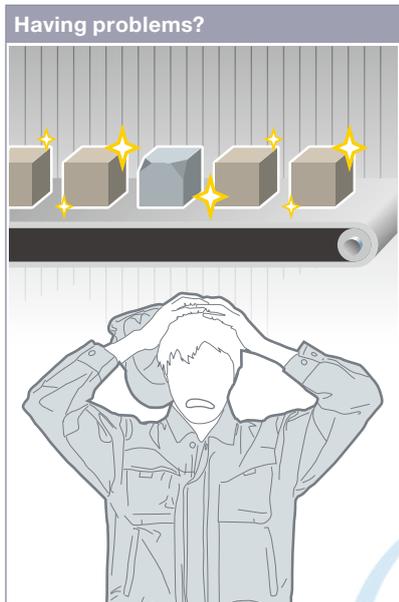


Support system operation

Easy data collection

Upgraded

Logging & Graph/List



Defective product... I need to quickly identify the cause of errors.

GOT collects the data from programmable controllers and temperature controllers (logging*) and displays the collected data in a graph and list. You can check the data which was collected when an error occurred to identify and analyze the cause of the error.

* Excluding GT2103-PMBLS.

Function features

GOT collects the data from programmable controllers and temperature controllers and displays the collected data in a graph and list. The logging data can be saved in a built-in SRAM* even when the power supply has failed.

* Not supported by GT21 and GS21.

Analyze data on personal computer

The logging data can be converted into a CSV file or Unicode® text file and saved to an SD memory card or USB memory so that the data can be displayed on a personal computer.

Historical trend graph

The data collected by the logging function is displayed in a graph in chronological order. Scrolling the graph and specifying the time make it easier to check the necessary data.

Historical data list

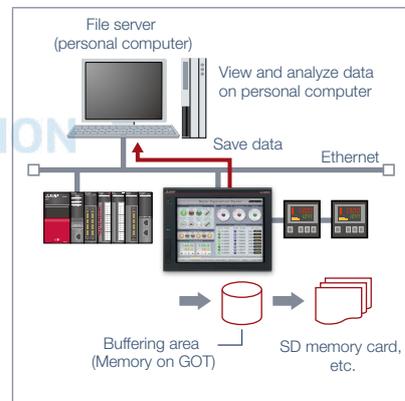
The data collected by the logging function is displayed in a list. Specifying the time in the list displays the historical trend graph of the specified time.

Supporting network drive NEW

The network drive can be used as the save destination for logging files. Data can be saved without considering the capacity limit.

* Not supported by GT23, GT21, and GS21.

* For the details, please refer to page 86.



Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

- Supported device formats Bit, BIN, BCD, Real, String

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21*	GS21*	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

* Restrictions apply to some functions. For the details, refer to the function descriptions above.



Simple touch operations

Gesture function

Having problems?

GOT will solve your problems!

Easier operation on a magnified screen

It's hard to touch small parts on the screen!

Zoom in to easily operate small and hard to reach switches. After zooming in, scroll the display to show the area you want to operate.

Function features

In addition to touch operations, gesture operations are now available on the GOT in the same way as on tablet or mobile terminals.



Object gesture

Specify an object to be enlarged, scrolled or flicked.



2-point press operation

To prevent accidental operations, press 2 points simultaneously and enable the touch operation.

Specification details and restrictions

● **Objects applicable to the object gesture function** Historical data list display, alarm display (user), alarm display (system), simple alarm display, historical trend graph, document display, video/RGB display object*

*1 Not supported by GT2705.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27*	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

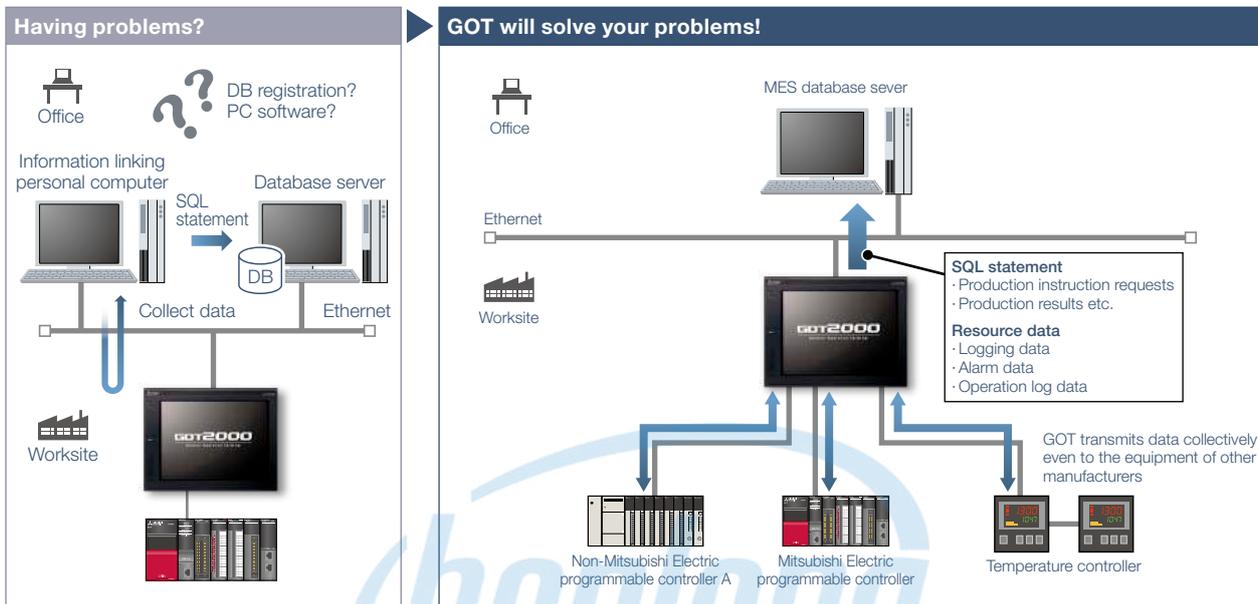
* Restrictions apply to some functions. For the details, refer to the function descriptions above.



Support system design

Easy interaction with database

MES interface function



How can I analyze the production site information and increase production efficiency? Does it take time to construct the system?

GOT communicates with the MES database server without a personal computer and programs and sends the data such as production instruction requests and production results. Storing the resource data such as alarm history and logging data to a database enhances traceability.

Function features

The GOT uses SQL statements*1 to transmit data from the connected industrial devices to a database server.*2

*1 Communication actions can be selected from SELECT, Multi-SELECT, UPDATE, INSERT, or DELETE.

*2 A separate license (GT25-MESIFKEY) is required.

Transferring data of various devices collectively

GOT transmits data collectively to an MES database server by collecting data from various devices of different types and manufacturers. Collecting data in the GOT makes it easy to transmit data to the database.

Resource data send function

The resource data collected in the GOT buffering area or an SD memory card can be sent to a database. The alarm information of GOT can be stored and managed in the database.

Easy communication without programming

Communication with databases is configured in GT Works3 without any programming.

Unicode® support for tag data type

Unicode® character strings can be used as the data type of collected data (device data). Multiple languages including Chinese are supported and there is no need to worry about character codes.



<MES (Manufacturing Execution System)>

The manufacturing execution system (MES) is a system that controls and manages production processes at a worksite in order to optimize quality, productivity, delivery date, and cost.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 148).

- **Function list** · DB interface function (resource data send function / tag function / trigger buffering function / trigger monitoring function / SQL text transmission function / arithmetic processing function / program execution function / DB buffering function) · Diagnosis function · DB server function (ODBC connection function / connection setting function / log output function)
- **Usable databases** Please refer to the GOT2000 Series MES Interface Function Manual.

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

Support management of on-site data



Support system operation

Upgraded

File manager function

Having problems?

17:00

Alarm logs, logging data, hard copies, etc.

Back up

GOT will solve your problems!

GOT back side

GOT front side

Select copy destination

Copy alarm logs, logging and other data at the same time

Select data to copy

How can I make backup of alarm and logging data? It's bothersome to back up data separately.

Folders and files are shown in a list on a graphical screen so that it is easy to copy them as needed.

Function features

Check the folders and files that are stored on the GOT's SD memory card or USB memory, and copy or delete them in the list.

Graphical list display

File types can be identified with icons at a glance.

Supporting network drive NEW

Since the GOT files can be directly copied or moved to the network drive, data can be backed up easily.

* Supported by GT27, GT25.
* For the details, please refer to page 86.

Various file operations

Copy, delete, move, rename, or create files and folders. Multiple selection of files and folders is also possible. Files can be operated also in mobile screens using the GOT Mobile function

NEW

Checking available space in drives

Easily check available space in the drives. It is useful when saving cumulative data such as logging and hard copies.

Select data

Sort data

Available space is displayed

Manage files with simple operations

* For the necessary option devices, please refer to the "Function list" (page 148)

Recommended industries

- Automotive
- SEMICON, LCD
- Electronics
- F & B
- Pharma

Supported GOT types

- GT27
- GT25
- GT23*
- GT21
- GS21
- SoftGOT

* Restrictions apply to some functions. For the details, refer to the function descriptions above.

Supported devices

- PLC
- Servo
- Inverter
- Robot
- CNC

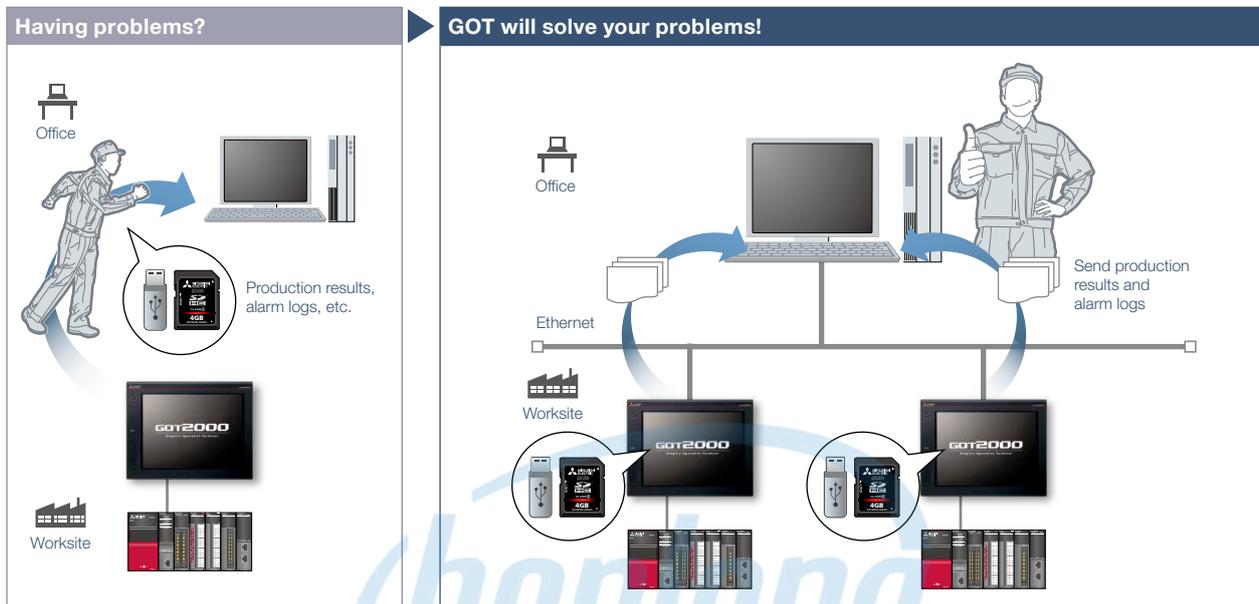
Send and retrieve files between GOT and PC

Upgraded

File transfer function



Support system operation



How can I check daily production results?

By using GOT, production results can be stored on the GOT's SD memory card or USB memory and sent to a personal computer or the USB memory on the front face of GOT. The GOT can also receive production instructions from the personal computer.

Function features

Files stored on the GOT's SD memory card or USB memory can be transferred easily. Network drive can be used as the transfer destination **NEW**.

FTP transfer

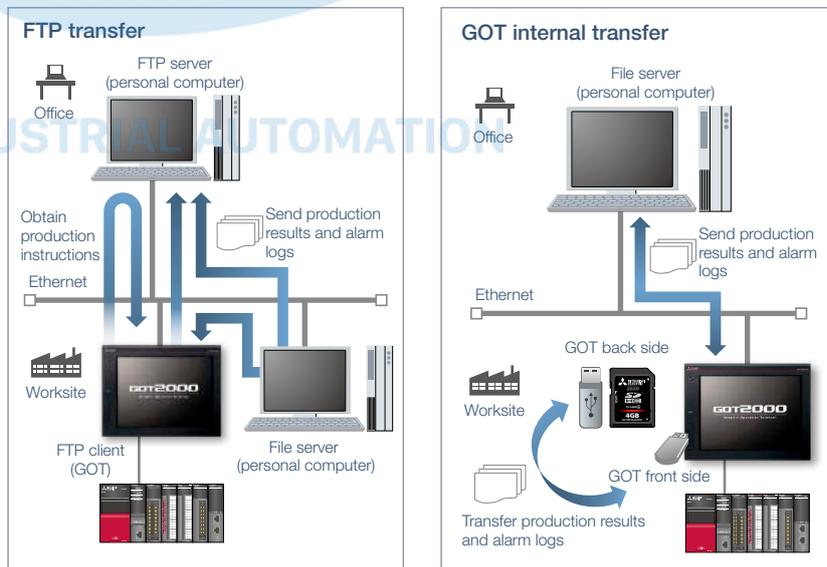
By using GOT, files stored on the GOT's SD memory card or USB memory can be sent to or received from an FTP server (personal computer). File transfer triggers (sampling, bit rise, etc.) can be used to set file transfer timing.

* Supported by GT2107-W, GT2104-R, and GT2103-PMBD among GT21 models.

GOT internal transfer

Files stored on the SD memory card or USB memory connected to the back side of GOT can be transferred to the USB memory on the front face of the GOT so that data can be obtained easily.

* Not supported by GT21 and GS21.



File transfer using a network drive **NEW**

The GOT data stored in a file server (personal computer) connected by Ethernet can be transferred to an FTP server (personal computer), or the data can be directly transferred between the GOT and the file server (personal computer).

* Not supported by GT23, GT21, and GS21. For the details, see page 86.

* For the necessary option devices, please refer to the "Function list" (page 148)

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23*
GT21*	GS21*	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

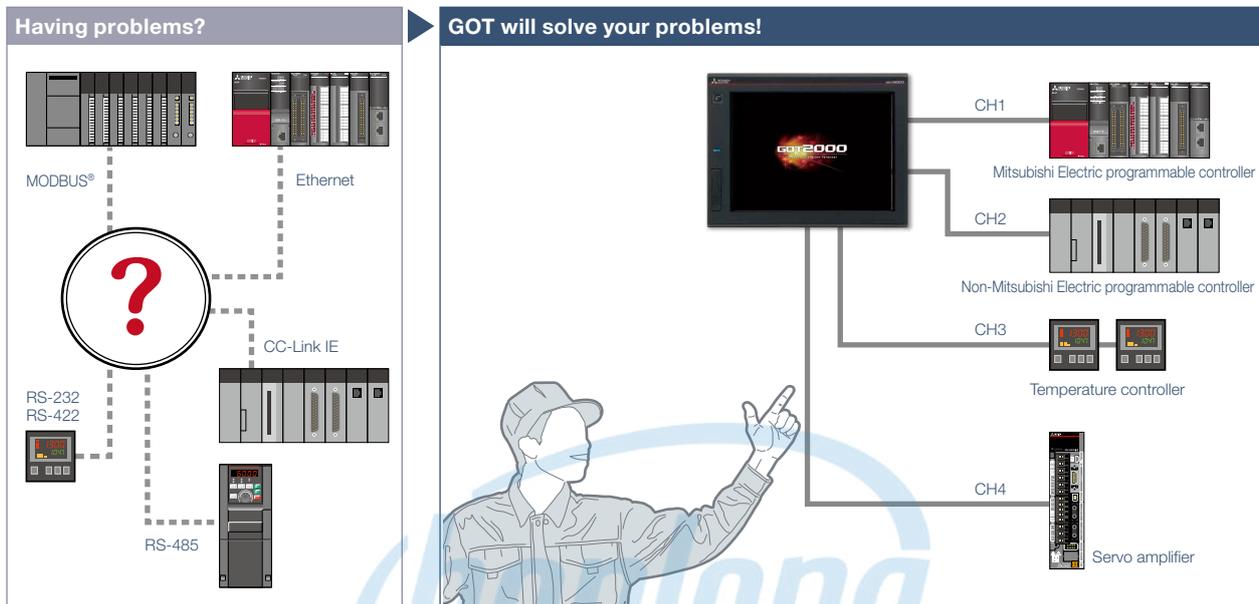
* Excluding some models or restrictions apply to some functions. For the details, refer to the function descriptions above.

Various controllers and connection types



Support system design

Multi-channel function/Device data transfer function



How can I connect various industrial devices in various connection types?

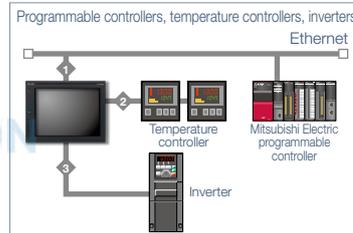
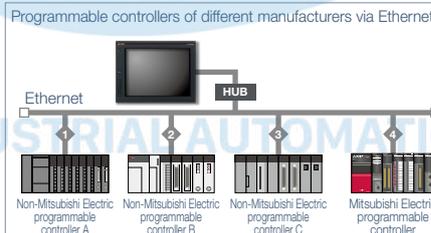
GOT supports various industrial devices and connection types. With the multi-channel function, four channels of industrial devices can be monitored on a single GOT.

Function features

GOT supports various industrial devices and connection types. With the multi-channel function and the device data transfer function, multiple types of industrial devices of different manufacturers can be monitored.

* Excluding GT2103-PMBLS

<Typical applications>



<Supported connection types>

Ethernet, RS-232, RS-422/485, CC-Link IE Controller Network, CC-Link IE Field Network, CC-Link, Bus, MELSECNET/H*, MODBUS®

* Including MELSECNET/10 mode.

Multi-channel function

Up to four channels* of industrial devices (programmable controller, servo, inverter, temperature controller, etc.) can be monitored with one GOT.

* Up to 2 channels on GT23, GT21, and GS21.

Device data transfer function

Using GT Works3, simply set source devices, destination devices, and triggers and you can transfer devices between industrial devices.



Specification details and restrictions

- **Various peripherals** External devices (operation panels, switches, lamps, etc.), two-dimensional code readers, barcode readers, RFID readers, IC card readers, speakers, video cameras, displays (RGB output), personal computers (RGB input), serial printers, PictBridge compatible printers
- **Multi-channel function** Supported connection types, channel numbers, and functions vary depending on the GOT type. For the details, please refer to the relevant product manual or the "Connectable model list" (page 152).

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23*
GT21*	GS21*	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

* Excluding some models or restrictions apply to some functions. For the details, refer to the function descriptions above.

Support CNC maintenance



Interaction function with CNCs

Having problems?

GOT will solve your problems!

Alarm screen
(CNC monitor 2)

Monitor screen
(CNC monitor 2)

Edit screen
(CNC monitor 2)

Input/Output screen
(CNC monitor 2)

“NC alarm” occurred on a GOT!
How can I maintain the system quickly?

Use a GOT to monitor or check alarms of a CNC. When an NC alarm occurs, there’s no need to use a personal computer when modifying programs and you can quickly recover the system.

Function features

A GOT can be used to display various monitors and make settings of a CNC connected to the GOT.

* CNC monitor/CNC machining program edit/CNC data I/O functions are supported by GOTs with a resolution of SVGA or higher.

* Not supported by GT25 wide models.

CNC monitor 2 function (CNC C80)

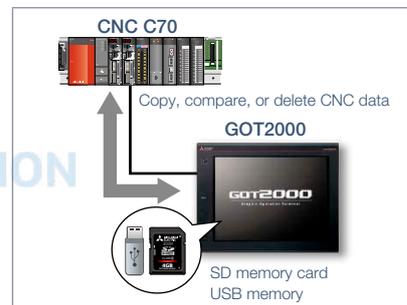
The function enables monitoring and operation of the standard screens (monitor, setup, edit, diagnosis, and maintenance) of the C80 Series CNC connected to the GOT. You can also use this function to input/output data or edit machining program of the CNC C80.

CNC monitor function (CNC C70)

The function enables the alarm diagnosis, position display monitor, tool compensation/parameter setting, or program monitor of a CNC C70 connected to the GOT.

CNC machining program edit function (CNC C70)

Machining programs and MDI programs of a CNC C70 connected with the GOT can be edited.



CNC data I/O function (CNC C70)

Machining programs and parameters can be copied, compared, or deleted in a CNC C70 connected with the GOT.

Specification details and restrictions

* For the necessary option devices, please refer to the “Function list” (page 148).

● **Target models** CNC (C80, C70)

● **Supported connection types** Ethernet connection (DISPLAY I/F connection only)*1, bus connection*2

*1 The CNC data I/O function cannot be used with CNC C70 when CC-Link IE Field Network Ethernet adapter module is used.

*2 Supported by CNC C70 only.

● **Target data**

CNC monitor 2 function The target data is the same as that of the CNC monitor function, the CNC machining program edit function, and the CNC data I/O function.

CNC monitor function Alarm diagnosis, position display, tool compensation/parameter setting, program

CNC machining program edit function Machining program, MDI program

CNC data I/O function Machining program, parameter, tool offset data, workpiece offset data, common variable, maintenance data, cycle monitor data

Recommended industries

Automotive Electronics

Supported GOT types

GT27* GT25* GT23
GT21 GS21 SoftGOT

Supported devices

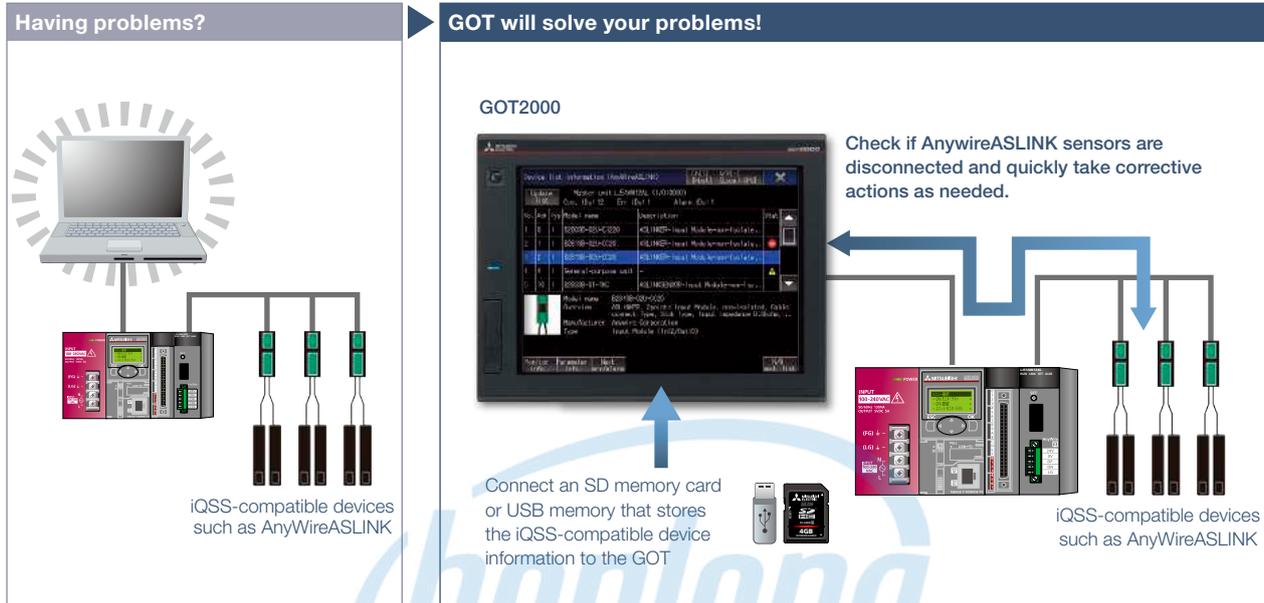
PLC Servo Inverter
Robot CNC

* Excluding some models. For the details, refer to the function descriptions above.

Support iQSS-compatible devices



iQSS utility function

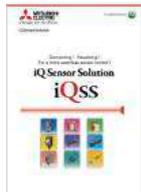


How can I check the status of AnyWireASLINK without a personal computer?

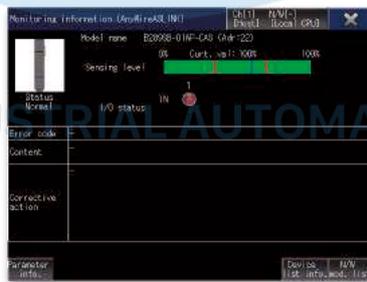
Check the status of iQSS-compatible devices such as AnyWireASLINK and the parameter information on the GOT without a personal computer.

Function features

Just enable the iQSS utility function to automatically generate monitoring screens. There is no need to create monitoring screens for every sensor and thus you can reduce time for startup, operation, and maintenance of the sensor system.



For the details, please refer to the iQ Sensor Solution catalog (L(NA)16029ENG).



Monitoring information screen

The status, sensing level, I/O status of the device being monitored can be checked in this screen.



Parameter information screen

The list of parameters and the details of the device being monitored can be displayed. Parameters can be changed in this screen.

Specification details and restrictions

- **Target models** RCPUCPU, QCPU (Q mode), LCPUCPU
- **Supported connection types*** Ethernet connection², direct CPU connection³, serial communication connection, CC-Link IE Controller Network connection⁵, CC-Link IE Field Network connection⁴, CC-Link connection, bus connection⁵, MELSECNET connection⁵
- *1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 152).
- *2 L02SCCPU or L02SCCPU-P cannot be used.
- *3 When connecting the GOT with the LCPUCPU, use L6ADP-R2.
- *4 Cannot be used to connect a Q00JCPU, Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU or Q25HCPU.
- *5 RCPUCPU and LCPUCPU are not supported.

* For the necessary option devices, please refer to the "Function list" (page 148).

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

Supported devices

PLC	Servo	Inverter
	Robot	CNC

Easy IoT application to the equipment

NEW

e-F@ctory Starter Package (free of charge sample project)



Support maintenance work



Support system startup/adjustment



Support system operation

Having problems?

How can I use the collected data?

What should we do to add IoT functions?

GOT will solve your problems!

Sample project

MELSEC iQ-R Series

Simple analysis from collected equipment information

GOT2000
Graphic Operation Terminal

Clear graphic display of analysis results

GT SoftGOT2000

Remote monitoring with GT SoftGOT2000

To add IoT functions to the shop floor, what do we have to do in the first place?

By adding a programmable controller (MELSEC iQ-R Series) and GOT to the existing equipment, IoT function systems can be easily developed.

Function features

e-F@ctory Starter Package is a sample project for the MELSEC iQ-R Series programmable controllers and GOT2000 that realizes “visualization” and “simple analysis” on the shop floor.

It is possible to add IoT functions to the equipment just by making basic settings such as device assignment and parameter setting.



For the details, please refer to the e-F@ctory Starter Package leaflet (E001ENG).

Low-cost installation

Installation cost can be reduced because it is not necessary to create sequence program and screen data from scratch.

A large lineup of functions that focus on management, maintenance, and improvement of equipment are available.

Management function screen



Improvement function screen



* Screen images are subject to change without notice.

Specification details and restrictions

- **Target models** MELSEC iQ-R Series, MELSEC iQ-F Series*, GOT2000 Series, GT SoftGOT2000 *1 Some functions are not supported.
- **Lineup of project data** MELSEC iQ-R Series project data, GOT2000 Series SVGA (800 × 600) project data (By changing the GOT type, data can be used for other models.)
- **Lineup of provided functions** Equipment operation monitoring solution (dashboard, production counting, process capability index (histogram), operational status monitor, cylinder & cycle time measurement monitor, error sign inspection, error stop action, equipment trouble Pareto chart, control chart (Xbar-R), loss time analysis, intensity management)

Recommended industries

Automotive	SEMICON, LCD	Electronics
F & B	Pharma	Plant

Supported GOT types

GT27	GT25	GT23
GT21	GS21	SoftGOT

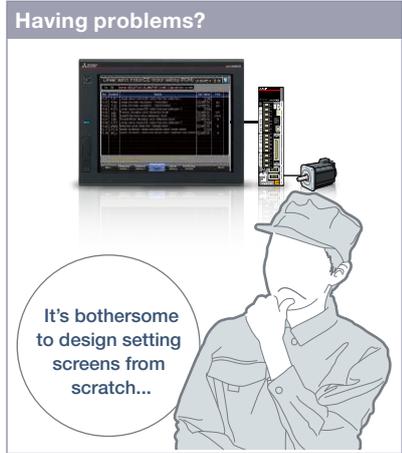
Supported devices

PLC	Servo	Inverter
	Robot	CNC

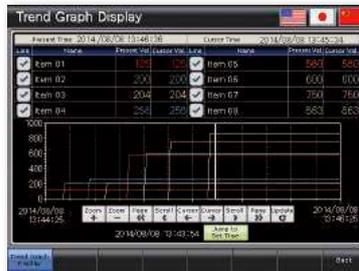


Support screen design

Standard screen samples



GOT will solve your problems!



Trend graph display (7 patterns)

Displays the data collected with the logging function in a trend graph



Counter display (4 patterns)

Monitors or resets counters for the data such as production volume and tool use

Now we have HMIs but it's hard to design screens from scratch.

Standard screens are grouped into 17 categories by purpose. Frequently used screens are available as sample screens.



Parameter setting (3 patterns)

Displays set items and enables input of set values for various parameters



Manual operation (6 patterns)

Executes ON/OFF operations of signals (bit devices)



Alarm history (2 patterns)

Displays alarms in the history format and enables checking of the details and recovery methods of a selected alarm

Function samples

These are sample screens that you can feel GOT2000 recommended functions.



Recipe

Provides samples to use the recipe function easily



Screen bookmark

Provides the list to bookmark screens. You can register frequently-used screens and switch between the screens in the list.



CC-Link network monitor

Displays the CC-Link network status (host station, other stations, errors, etc.)

Specification details and restrictions

- **Other standard screen samples** I/O signal display, numerical data display, start-up condition display, operation ready signal display, interlock display, interlock setting, machine selection setting, alarm frequency display, alarm status display, current alarm display, home position return, cycle time display
- **Other function samples** GOT Mobile function (Andon, remote controller), alarm function (level, sort), alarm function (hierarchy), device monitor function, Kana-Kanji conversion function, AnyWireASLINK network monitor function, how to comply with FDA 21 CFR Part 11, PDF search external control function, etc.
- **How to obtain sample screens** Sample screens are included in GT Works3. For the details, please contact your local sales office.
- **Supported language** English, Japanese, Chinese (Simplified)

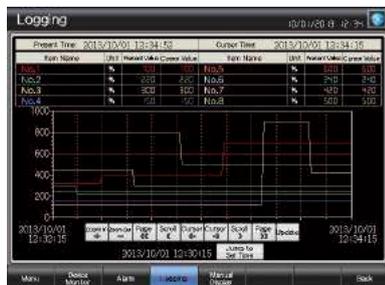
Support connection with industrial devices



Support system design

Connection samples

The lineup of samples for non-Mitsubishi industrial devices has been expanded! These are sample screens for monitoring current values of connected devices, setting parameters, etc.



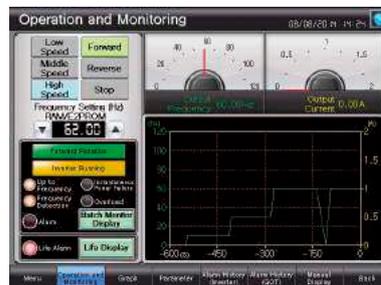
Mitsubishi Electric programmable controller

- MELSEC IQ-R Series R08CPU
- MELSEC IQ-F Series FX5U-32MCPU
- MELSEC-L Series L06CPU
- MELSEC-Q Series Q06UDEHCPU
- MELSEC-F Series FX3U-16MCPU



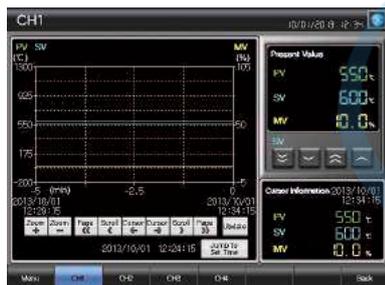
Mitsubishi Electric servo amplifier GOT Drive

- MELSERVO-J4 Series MR-J4-A(-RJ)
- MELSERVO-J4 Series MR-J4-B(-RJ)
- MELSERVO-J4 Series MR-J4W2-B
- MELSERVO-J4 Series MR-J4W3-B
- MELSERVO-J3 Series MR-J3-A
- MELSERVO-JE Series MR-JE-B



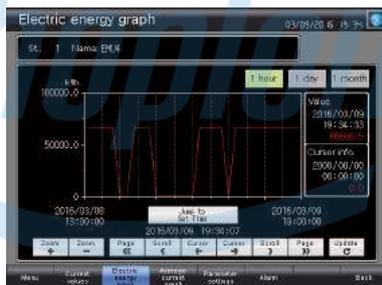
Mitsubishi Electric inverter GOT Drive

- FREQROL-A800 Series FR-A820-15K
- FR-A820-0.4K-E1
- FR-A820-0.4K-GF
- FR-F820-15K
- FR-F820-0.75K-E1
- FREQROL-F700P Series FR-F720P-0.75K
- FREQROL-E700 Series FR-E710W-0.1K
- FREQROL-D700 Series FR-D710W-0.1K



Mitsubishi Electric temperature controller

- MELSEC-Q Series Q64TCTTN
- MELSEC-L Series L60TCTT



Mitsubishi Electric other devices GOT Drive

- Motion controller
- Simple Motion module
- Industrial robot
- Energy measuring unit EcoMonitorLight/ Electric multi-measuring instrument etc.



Non-Mitsubishi Electric industrial devices

- Robot controller
- Stepping motor
- Network signal tower
- Temperature controller etc.

iQSS related samples

These are sample screens to connect to iQSS-compatible devices.



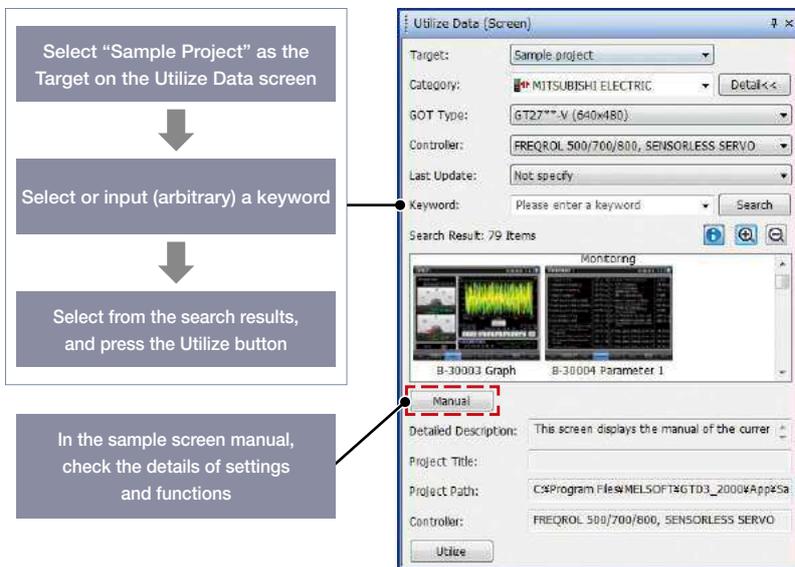
AnyWireASLINK network monitor function



iQSS backup/restoration (PLC↔sensor) function

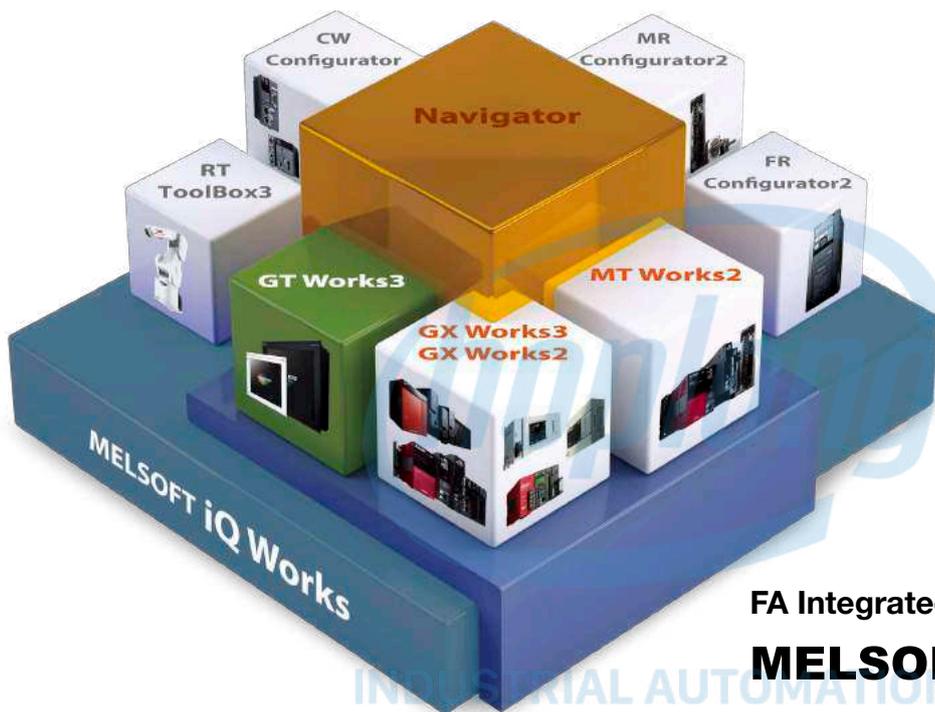
Using sample screens

In the GT Works3 menu, select [Screen] → [New] → [Utilize Data].



FA Integrated Engineering Software MELSOFT iQ Works

MELSOFT iQ Works is an integrated software suite consisting of GX Works3, MT Works2, GT Works3, RT ToolBox3*1 and FR Configurator2, which are programming software for each respective product. Integration is further enhanced with MELSOFT Navigator as the central system configuration incorporating an easy-to-use, graphical user interface with additional project-sharing features such as system labels and parameters. The advantages of this powerful integrated software suite are that system design is made much easier with a substantial reduction in repetitious tasks, cutting down on errors while helping to reduce the overall TCO.



FA Integrated Engineering Software MELSOFT iQ Works

System management software

MELSOFT Navigator

System level graphic-based configuration tool that simplifies the system design by providing a visual representation of the system. System management features such as system-wide parameterization, labels and block reading of project data are also included.

Programmable controller engineering software

MELSOFT GX Works3

GX Works3 is the latest generation of programming and maintenance software offered by Mitsubishi Electric specifically designed for the MELSEC iQ-R Series control system. It includes many new features such as graphic-based system configuration, integrated motion control setup, multiple language support, providing an intuitive engineering environment solution.

HMI/GOT screen design software

MELSOFT GT Works3

This integrated software is used to create professional screen designs for GOTs. Developed with the concepts of simplicity, sleekness, and user-friendliness in mind, this is a powerful tool that pushes boundaries and delivers endless design possibilities.

Motion controller engineering software

MELSOFT MT Works2

This motion control design and maintenance software includes intuitive graphic-based programming together with a digital oscilloscope simulator.

Robot engineering software

MELSOFT RT ToolBox3*1

Inverter setup software

MELSOFT FR Configurator2

C Controller setting and monitoring tool

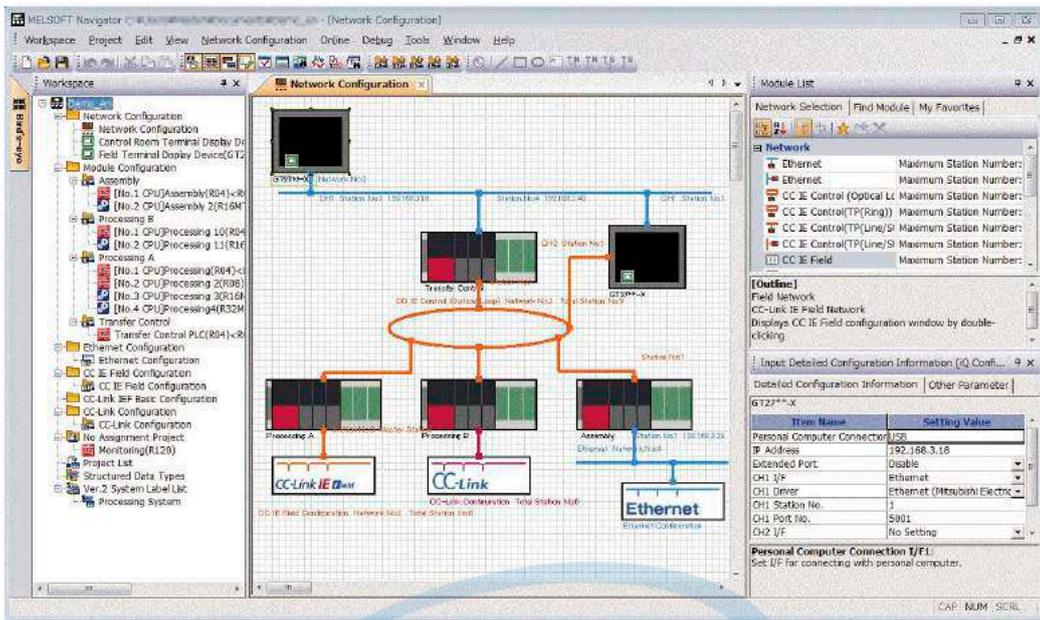
MELSOFT CW Configurator

Servo setup software

MELSOFT MR Configurator2

*1 RT ToolBox3 mini (simplified version) will be installed if iQ Works product ID is used. When RT ToolBox3 (with simulation function) is required, please purchase RT ToolBox3.

MELSOFT Navigator



■ MELSOFT Navigator enables interaction with iQ Works

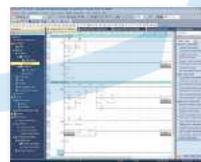
Share labels among projects

Labels can be shared among GX Works3, MT Works2, and GT Works3 so that if the device assignment is changed in one project, the changes are automatically applied to other projects.

No need to set parameters for each tool*2

The information set in the system configuration diagram can be applied in a batch to each program in GX Works3, GX Works2, MT Works2, and GT Works3. There is no more need to start up each software and check the consistency.

*2 Detailed parameters must be set with each tool.



Programmable Controller Engineering Software MELSOFT GX Works3



Programmable Controller Engineering Software MELSOFT GX Works2



Motion Controller Engineering Software MELSOFT MT Works2



HMI/GOT Screen Design Software MELSOFT GT Works3



Robot Engineering Software MELSOFT RT ToolBox3*1



Inverter Setup Software MELSOFT FR Configurator2



C Controller Setting and Monitoring Tool MELSOFT CW Configurator



Servo Setup Software MELSOFT MR Configurator2

*1 RT ToolBox3 mini (simplified version) will be installed if iQ Works product ID is used. When RT ToolBox3 (with simulation function) is required, please purchase RT ToolBox3.

HMI/GOT Screen Design Software

MELSOFT GT Works3

Easily create professional screens!



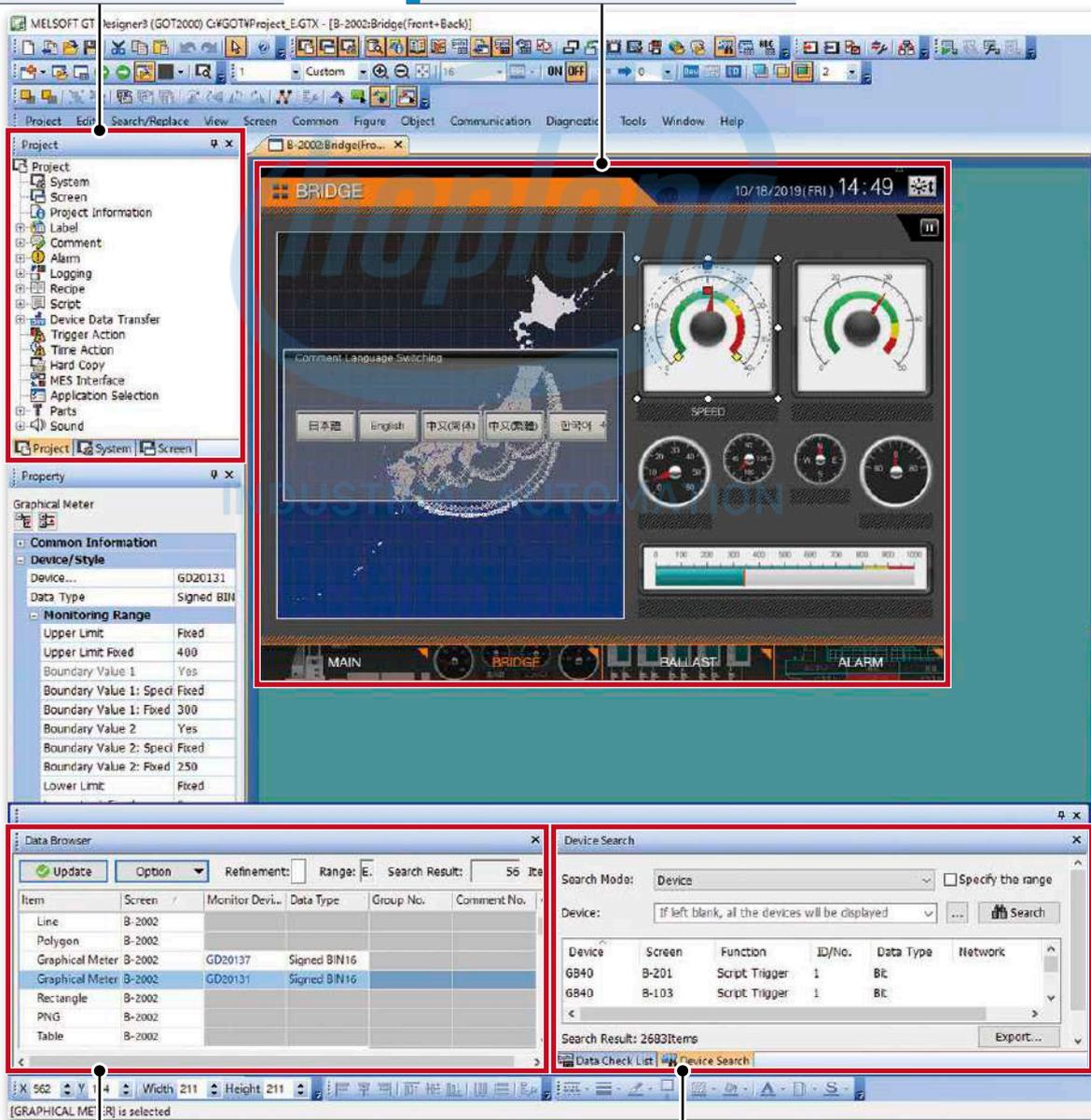
Easily manage project data

Work tree

Easily create stylish screens

GOT Graphic Ver.2 **NEW** P.108

6 MELSOFT GT Works3



Easily check the settings

Data browser

P.111

Quickly search devices and labels

Device search **NEW**

P.112

■ Reduce screen creation time

- Utilize data (Screens) **Upgraded** 106
- Utilize data (Projects) 107
- Automatic scaling when changing GOT type **Upgraded** 107
- Script parts **NEW** 107

■ Support screen creation

- GOT Graphic Ver.2 **NEW** 108
- Label/Global label **Upgraded** 110
- Data browser 111
- Screen image list (thumbnail display) **Upgraded** 111
- Alarm display (user/system) **Upgraded** 112
- Device search **NEW** 112
- Reflecting [Comment Group No.],
[Comment No.], [Part No.] to objects **NEW** 113
- Template 113
- e-Manual 114

■ Easily create stylish screens

- Align 115
- Graphical meter **Upgraded** 115
- Logo text **Upgraded** 115

■ Support debugging

- Simulator 116
- Data verification 116
- Data check list 117

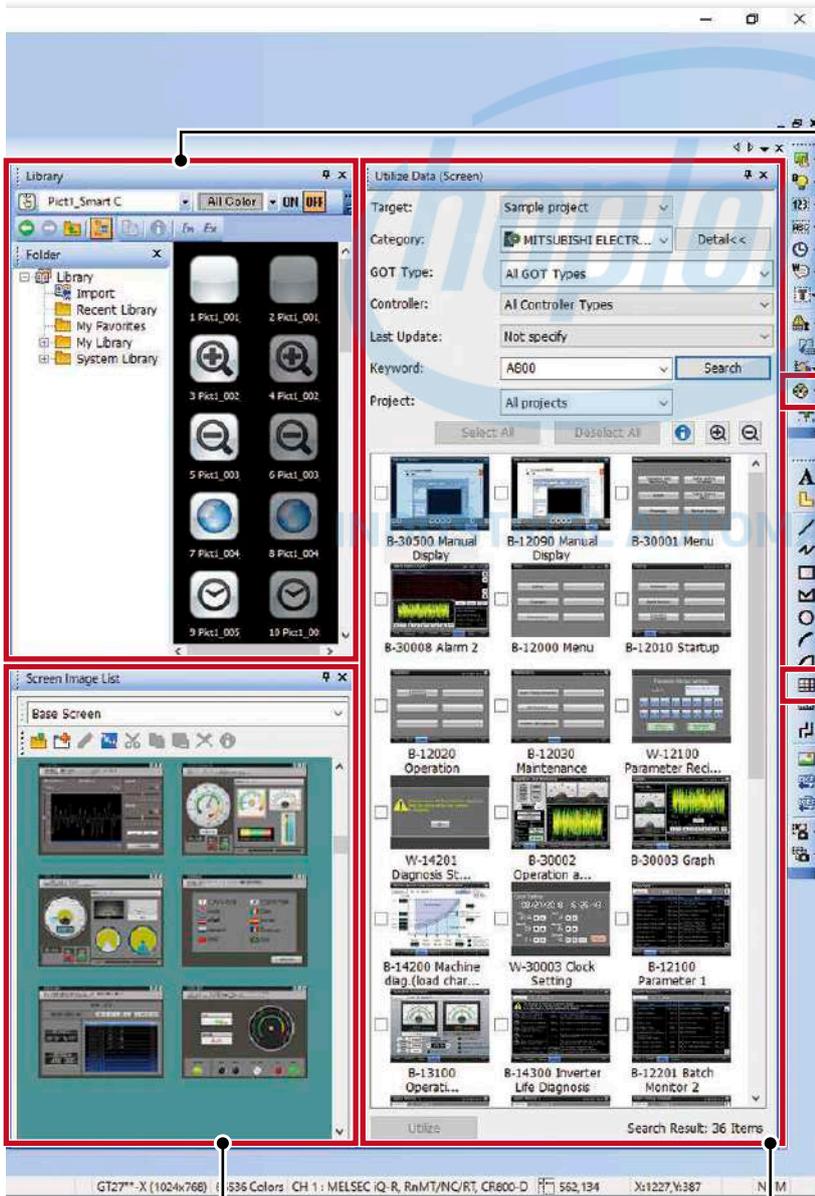
■ Support startup work

- Data transfer (batch write to multiple GOTs) **Upgraded** 117

■ Support globalization

- Speech synthesis function 118
- Language switching 118
- FA Term Translation Tool 119

Screen design tips movie (Japanese) ▶



Easily create stylish screens
Library

Create stylish, clear meters
Graphical meter P.115

Easily create tables
Table

Quickly display screen thumbnails
Screen image list Upgraded P.111

Search by keywords and effectively use data
Utilize data (Screens) Upgraded P.106

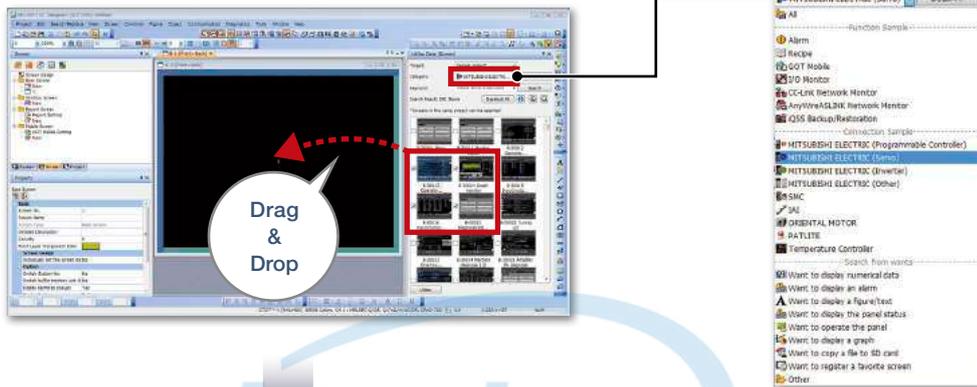
Reduce screen creation time

Upgraded

Utilize data (Screens)

Individual screens can be utilized from past projects and sample projects. Select screens to utilize, then drag and drop to launch the utilization wizard. Just by following simple step, screen data can easily be utilized.

Easy searches from category lists

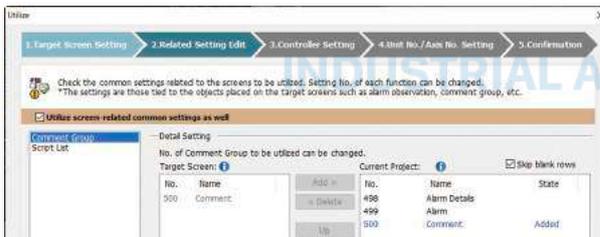


Utilization wizard

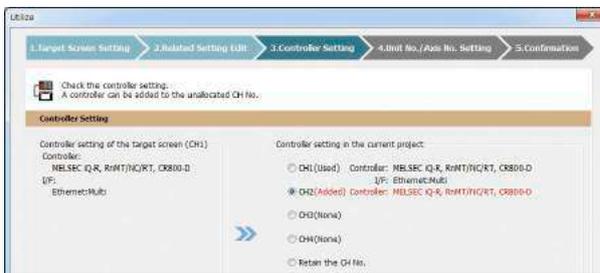


Simple step navigation

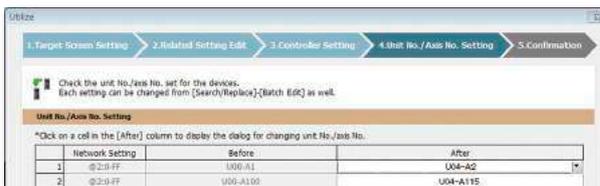
1. Target screen setting
The screen number is displayed in red if it is used in the project being edited.



2. Editing related settings
Comment groups and scripts related to the target screen can also be utilized at the same time.



3. Controller setting
Target screen controller settings can be assigned to an empty channel in the currently editing project.



4. Unit No./Axis No. setting
When utilizing screens whose system configuration is different, you can easily change the unit No. and the axis No. of the target screen.

5. Checking setting contents

Utilize data (Projects)

When creating a new project, search through the existing projects to find any existing projects that may be reused. Keyword search helps narrow down the search.

Specify search range
Select "Sample Project" to reuse a sample project.

Select or input a keyword
Select a prepared keyword or input an arbitrary keyword.

Search results are displayed

Choose the applicable project from the search result

Procedure: [Project] → [Utilize Data]

Upgraded

Automatic scaling when changing GOT type

More objects are automatically scaled when changing to GOT types with different resolutions. It is now easier than ever to utilize screens of different resolutions, making the work process more efficient.

Target objects: Alarm display, simple alarm display, system alarm display, historical data list display, data list display, recipe display (record list)

When changing the GOT type resolution from VGA to SVGA

Previously

NEW

Increased usability

Before change (VGA)

After change (SVGA)

After change (SVGA)

The alarm display and historical data list display are also automatically enlarged. No need for size adjustments!

Procedure: [Common] → [GOT Type Setting] → [Perform Automatic Scaling on the positions/sizes of figures and objects] → [Option]

NEW

Script parts

Make scripts into objects and use them as script parts. The following operations are available, improving operability.

- Copying and pasting to another screen, grouping, registering to the library, adding to a template

Support screen creation

NEW

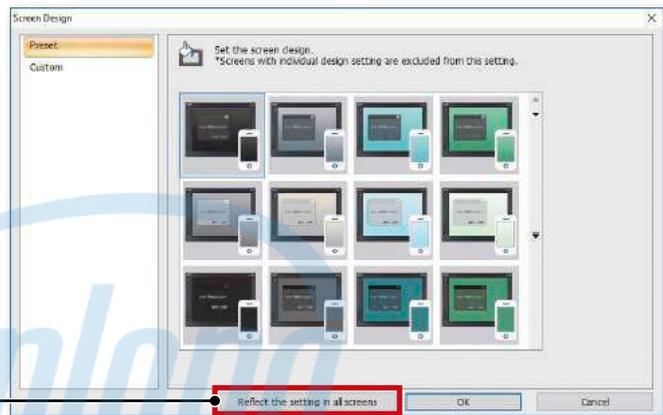
■ GOT Graphic Ver.2

Screen design

Screen design can be selected from various designs by theme. Simply select your favorite design from presets to change all screen backgrounds at once. You can keep screen design consistent across the entire project and reduce steps in the process. In addition, the screen design can be customized to create favorite design.

Pre-installed screen designs

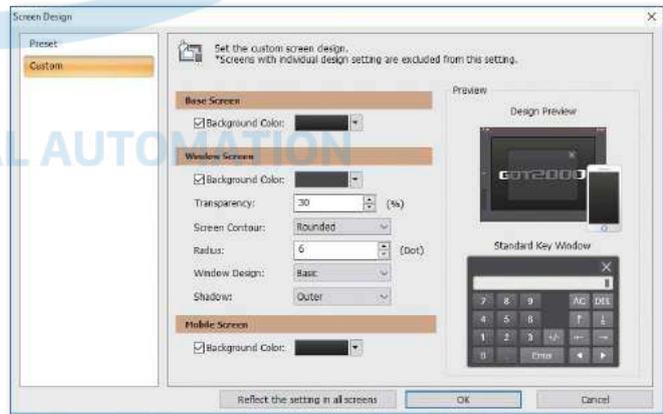
Select one of the screen designs pre-installed in GT Designer3. You can easily set a screen design without paying attention to the setting items. Each screen can be customized individually.



Change the design for all screens at once

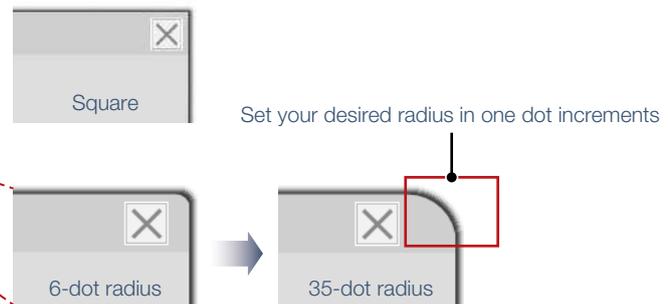
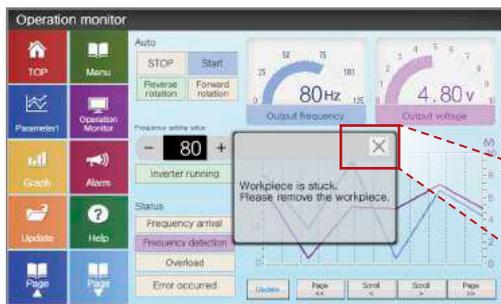
Customized screen designs

Customize a screen design. You can customize the background color, design of window screens, and other settings of a screen design selected from the pre-installed screen designs.



Contour shapes of window screens

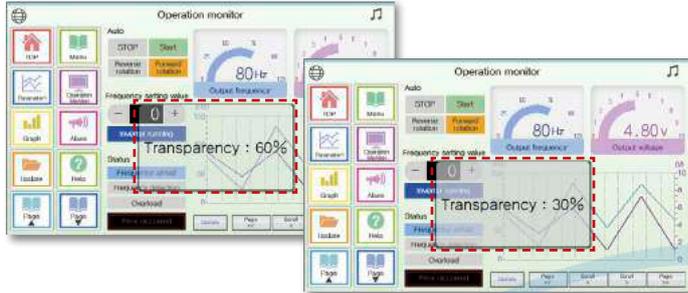
Both square and rounded contours are available for window screens. The radius can be adjusted for rounded contours.



Transparent window screen and alarm popup display

The background color transparency can be changed in window screens. You can check and control the window screen while viewing the overall image of the base screen. Alarm popups turn transparent as well so that they do not block the base screen underneath.

Configure the transparency of the window screen



Transparent alarm popup display



Alarm popup

Stylish system key window

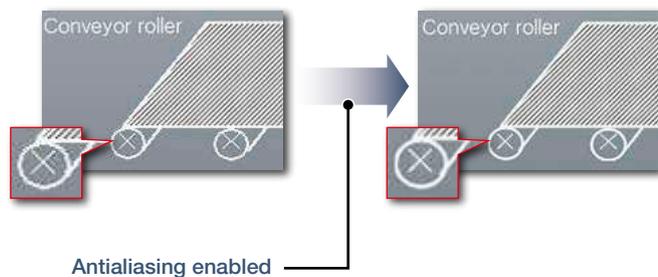
Multiple system key windows are available for your screen design. Select a preset that fits your screen design to use a matching numeric keypad. The key window is made transparent when moved so that you can check the screen underneath.

* Not supported by GT21 and GS21.



Figure antialiasing

Antialiasing is available for figure contours in addition to on-screen text. Overall screen display is smoother for stress-free, stylish screen design.



Antialiasing enabled

Procedure: [Common] → [GOT Type Setting] → Graphics Setting [GOT Graphic Ver.2]

Support screen creation

Upgraded

Label/Global label

Label

Instead of using devices, use label names to create easy-to-understand project data efficiently. Not only Mitsubishi Electric programmable controller devices, but also non-Mitsubishi Electric controller devices and GOT internal devices can be assigned to labels. Labels can be used in GT Works3. In addition, labels can be imported from GX Works3, GX Works2, and MT Developer2.



1 Set label names and assign devices

2 Select a label name when setting objects (Direct input is also possible.)

Select a type

Procedure: [Common] → [Label] → [New Label Group]

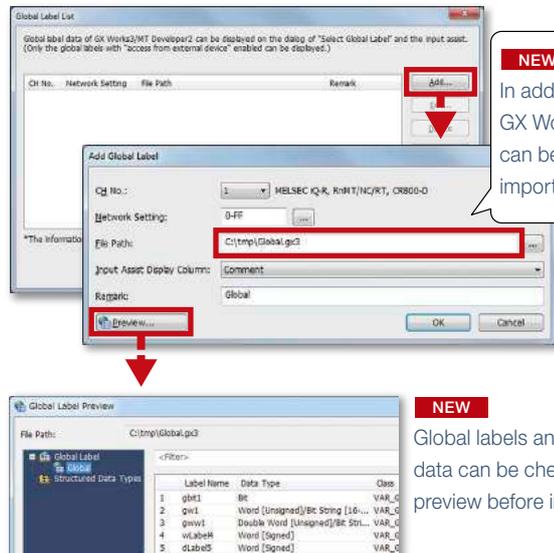
Global label

Global labels are used for connection to RCPUs or motion CPUs (MELSEC iQ-R Series) only. By using global labels, you can create the project data without paying attention to the actual devices. To use global labels of GX Works3 and MT Developer2, import them to GT Designer3.

Global labels for RCPUs (GX Works3) are useful since they can be imported from the project data at a time.

Global labels for motion CPUs (MT Developer2) are imported from CSV files.

* Not supported by GT21 and GS21.



NEW
In addition to CSV files, GX Works3 project data can be specified to import global labels.

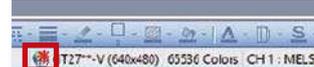
NEW
Global labels and structure data can be checked with preview before importing.

Procedure: [Project] → [Import Other Data] → [Global Label]

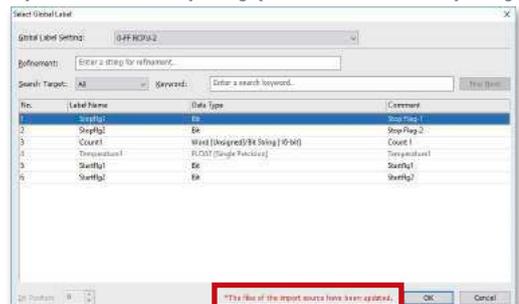
Notifying change of global labels **NEW**

Check if there is a change in the GX Works3 project or CSV file specified when global labels are imported with the following methods.

- Notification icon in the status bar

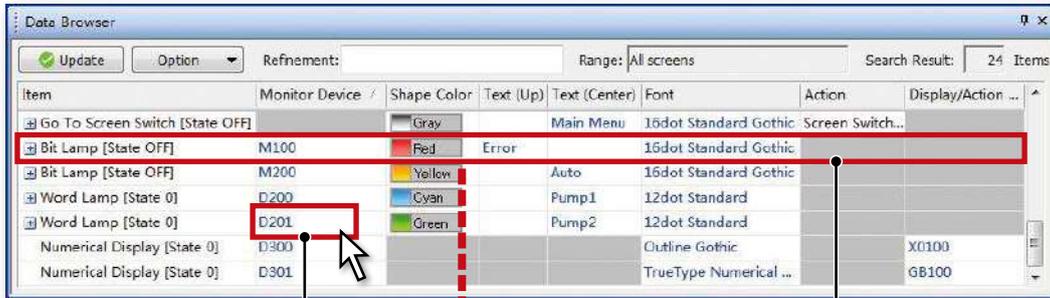


- [Select Global Label] dialog, [Global Label Reference] dialog



Data browser

The data browser shows a list of objects used in the project. The settings can be edited directly on the browser or by opening the setting dialog. You can easily identify any duplicate data and no longer have to open multiple screens.



Directly edit on the list, or edit from the setting dialog.

Double-click

After selecting a line, the tree can be expanded with Shift + [+] key.



- **Display targets**
Figures, objects, screen scripts, screen trigger actions
- **Editable details**
Directly edit devices and text, etc.
Change devices, text, colors, and figures in a batch
Change action settings, fonts, and figures
Change range settings of numerical displays and other objects
Copy/paste multiple cells
Sort and narrow down items by using devices/keywords
Interchange columns with drag & drop

Procedure: [View] → [Docking Window] → [Data Browser]
Shortcut key: Ctrl + E

Upgraded

Screen image list (thumbnail display)

Created screens can be displayed and checked in the screen image list window as thumbnails. By viewing the screen image list, it is easy to look for the screen you need. It is convenient to copy or delete screens on the window.



Greatly improved speed to display screen images **NEW**

* Settings are required to speed up the display. For the details, please refer to the relevant product manual.

Double-click a screen on the window and display it on the screen editor

Copy or delete the screen on the window

Procedure: [Display] → [Docking Window] → [Screen Image List]

Support screen creation

Upgraded

Alarm display (user/system)

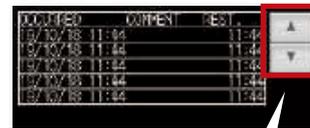
The alarm display lists the collected user alarms or system alarms*1. When placing an alarm display, operation switches are arranged at the same time. There is no need to select operation switches for the alarm display separately, thus reducing time for screen design.

*1 GT21 and GS21 do not support the system alarm function.

GT27/GT25/GT23/GT2107-W/
GT2104-R/GS21



GT2103-P



Operation switches are arranged at the same time

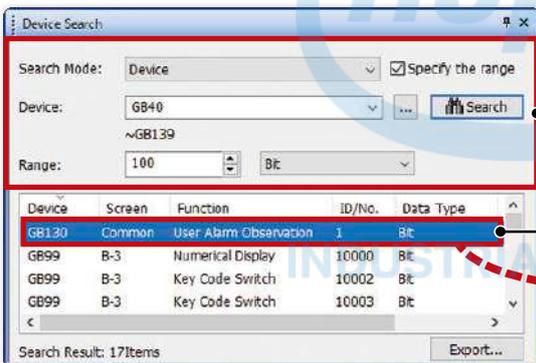
Procedure: [Object] → [Alarm Display] → [Alarm Display (User)/Alarm Display (System)]

NEW

Device search

Search the current project for devices, labels, or tags. By quickly checking the device use status, you can identify which functions use the found devices, and change the related settings. Keyword search narrows down the search results.

Search by device



Set details of search conditions

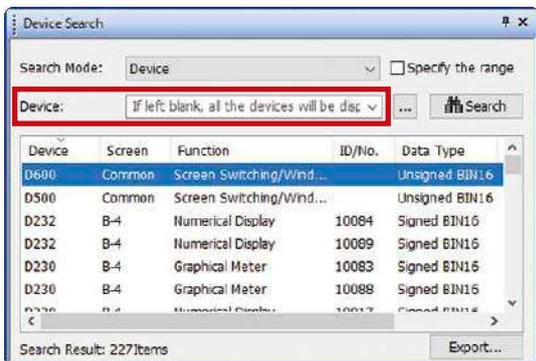
Double-click to jump to the device setting (jump to Common Settings is also possible)



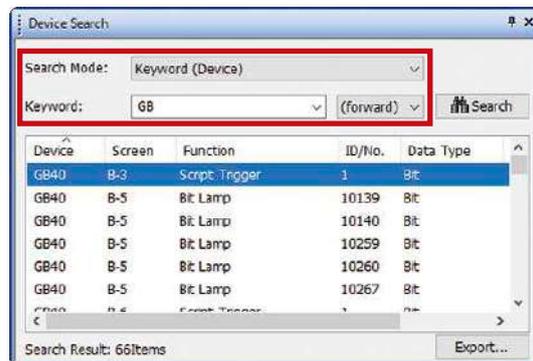
Quickly display the search results.

Search without worrying about device type and data length.

Search all devices when the [Device] field is empty



Search by keyword is also available



Procedure: [Search/Replace] → [Device Search]
Shortcut key: Ctrl + F

NEW

Reflecting [Comment Group No.], [Comment No.], [Part No.] to objects

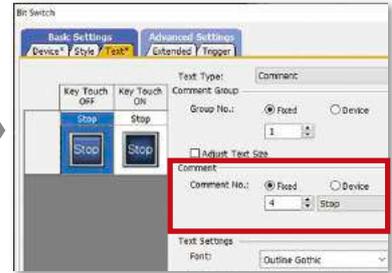
When changing comment group No., comment No., or part No., the number being set to objects are changed accordingly.

In the [Option] dialog, select whether or not to reflect the change to the object settings when changing the numbers.

Changing comment No.



Display the confirmation message whether to reflect the change.
(Settings are made in the [Option] dialog)

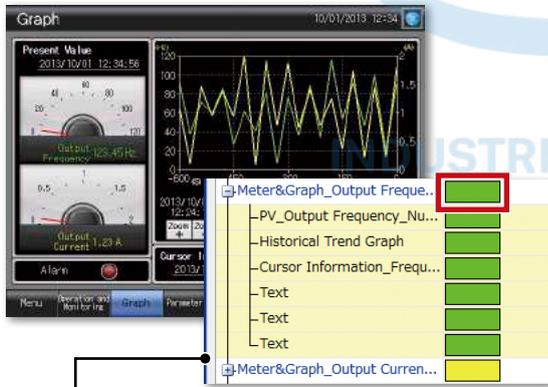


Reflect the change to the object where the comment is used.

Template

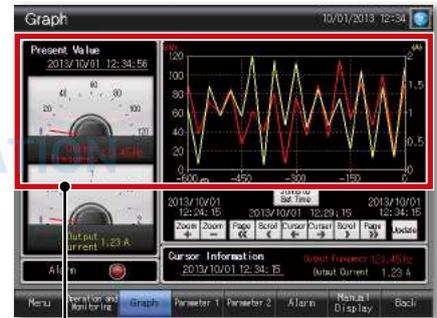
Customize each template to the desired look-and-feel, ranging from color options to device selection. Attributes such as devices and colors can be set for each template.

You can easily change devices and colors by associating each object with the template's attribute.



Make batch changes with simple settings

Change color from green to red



Colors and devices are changed in a batch

Template attributes (color)

- Historical trend graph line color
- Text color
- Numerical display value color

Items that can be registered in templates

Figures, Objects

Attributes that can be registered and changed in templates

Device (Bit, Word), Numerical value, Text, Color, Figure, Font, Text size

Selecting from library

Procedure: [View] → [Docking Window] → [Library List (Template)]

Shortcut key: Alt + F9

Creating template

Procedure: Select object → Right-click → [Template Registration] → [Register to Template]

Support screen creation

e-Manual

e-Manual is the Mitsubishi Electric FA Electrical Document Manual with a dedicated viewer (e-Manual Viewer). Useful functions are included such as keyword search of multiple manuals, saving your favorites, saving memos, and others.

Concept movie

Windows® version

Tablet version



1 Install e-Manual Viewer



2 Always download the latest manuals. Easy to update with just one click!



3 Increase your screen design efficiently

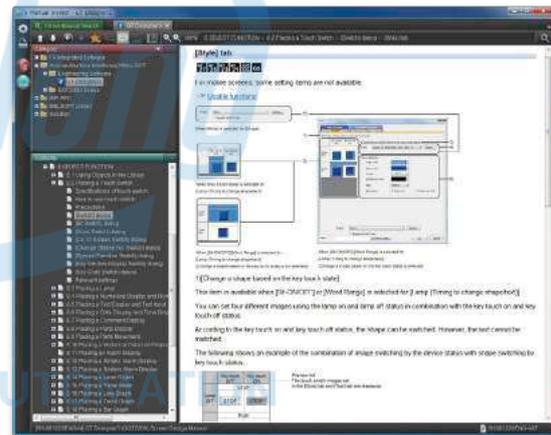
Quickly confirm with F1 key

Press the F1 key in GT Works3 and jump to e-Manual for the dialog being edited! Quickly check setting methods and other information!

GT Works3



e-Manual



Easy to view, easy to use!

Easy to view contents, easy to use, useful functions help you access manuals efficiently. Quickly search for the information you need.



Cross Manual Search	Bookmark	Note
---------------------	----------	------

Search required information from multiple manuals by keyword. You can get to the information you need without opening manuals one by one.

Bookmark frequently used manuals and pages and you can check the information quickly.

Take a memo, such as know-how, and add it to the manual and you can customize manuals as you like.

Procedure: [Help] → [GT Designer3 Help]
Shortcut key: F1

* For the details, please contact your local sales office.

Specification details and restrictions

<GOT manuals available in e-Manual>

- **Manual name** GOT2000 Series User's Manual (Hardware), GOT2000 Series User's Manual (Utility), GOT2000 Series User's Manual (Monitor), GT Designer3 (GOT2000) Screen Design Manual

<e-Manual Viewer Windows® version>

- **Supported OS** Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP
- **How to obtain e-Manual** e-Manual is included in GT Works3 Ver.1.155M or later. For the details, please contact your local sales office.

<e-Manual Viewer tablet version>

- **Supported OS** Android™ 4.3/4.4/5.0, iOS 8.1 or later
- **How to obtain e-Manual** e-Manual is available for download from application distribution sites. (Search by "Mitsubishi Electric e-manual")



Tablet version (Android™)
* Japanese site

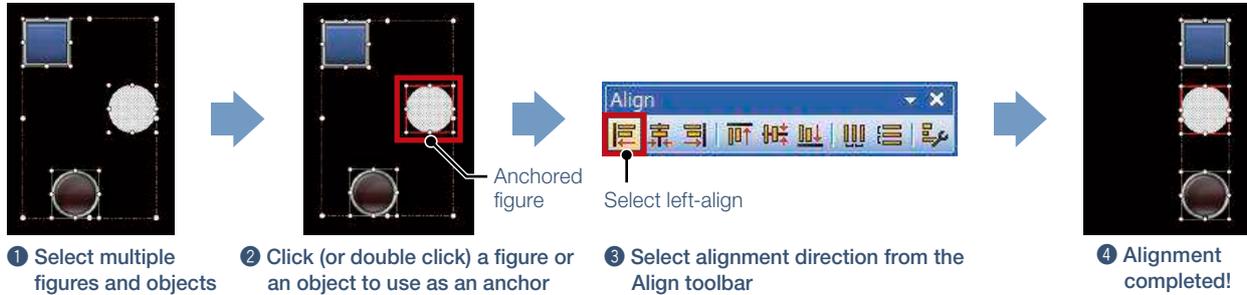


Tablet version (iOS)
* Japanese site

Easily create stylish screens

Align

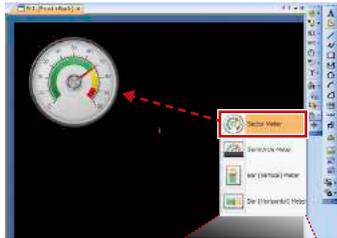
Selected figures and objects are aligned to the anchored figure or object according to the specified alignment type.



Graphical meter

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.

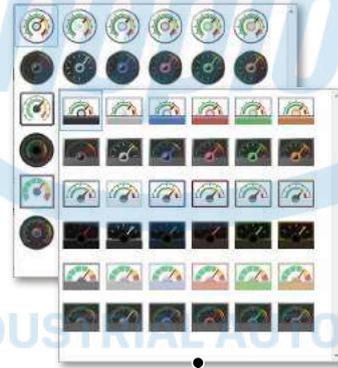
Select from the toolbar



Select meter shape

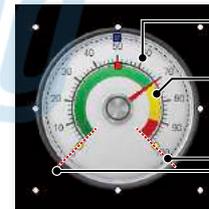


Select from the preset list



The list includes various choices

Easy to adjust settings by mouse operation



- Adjust scale position
- Adjust warning color display position
- Adjust start/end angle of the meter

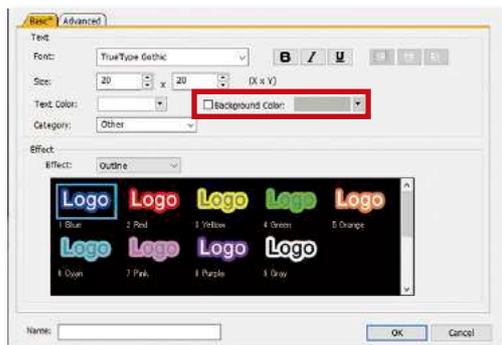


Procedure: [Object] → [Graphical Meter]

Upgraded

Logo text

The background of the logo text can be made transparent.



Previously



NEW



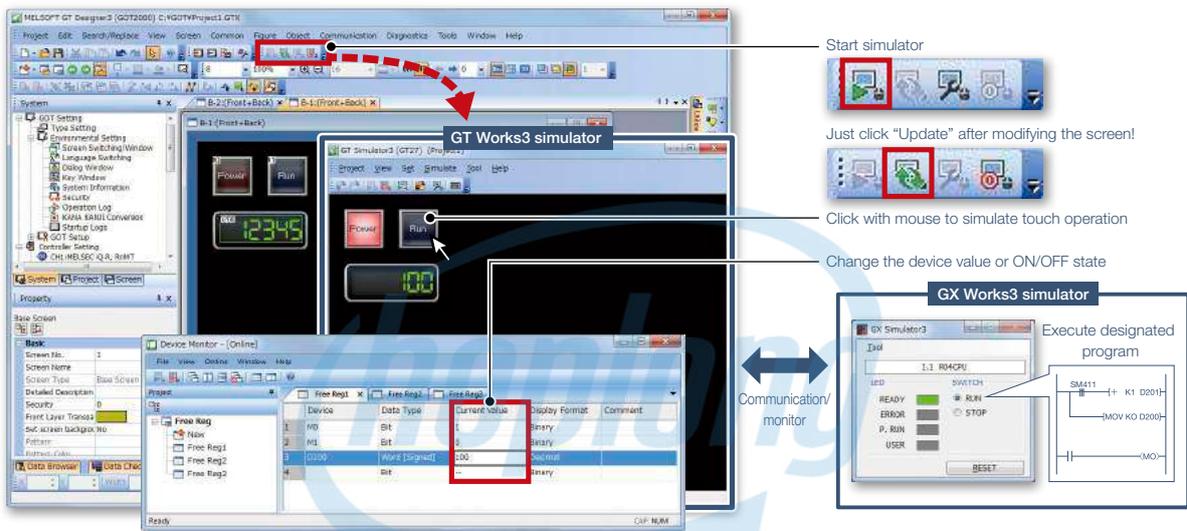
Uncheck the [Background Color] checkbox to make the background of the text transparent.

Support debugging

■ Simulator

Since the operation of the project data can be confirmed on the personal computer, the program can be efficiently debugged while making changes on the screen. Even if hardware is not available, the operations can be confirmed with a personal computer and sequence programs. The screen images can be printed and saved, and easily used when creating specifications and operation manuals.

* GX Works3, GX Works2, GX Simulator, or MT Works2 is required separately. (It varies depending on the CPU to simulate.)



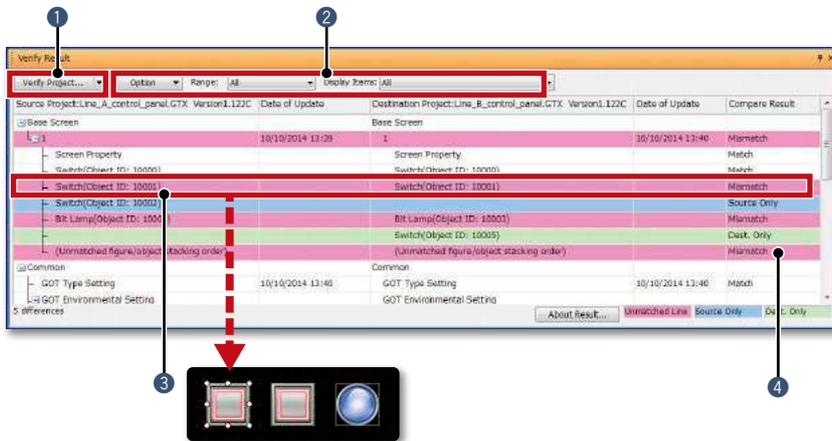
Procedure: [Tools] → [Simulator] → [Activate]
 Shortcut key: Ctrl + F10

INDUSTRIAL AUTOMATION

■ Data verification

Verify the project data and check the results for each screen/object.

From the Verify Result window, you can jump to the target object or can narrow down results by items such as the screen type. This function enables you to check differences and modify the data quickly even if the project data includes many screens.

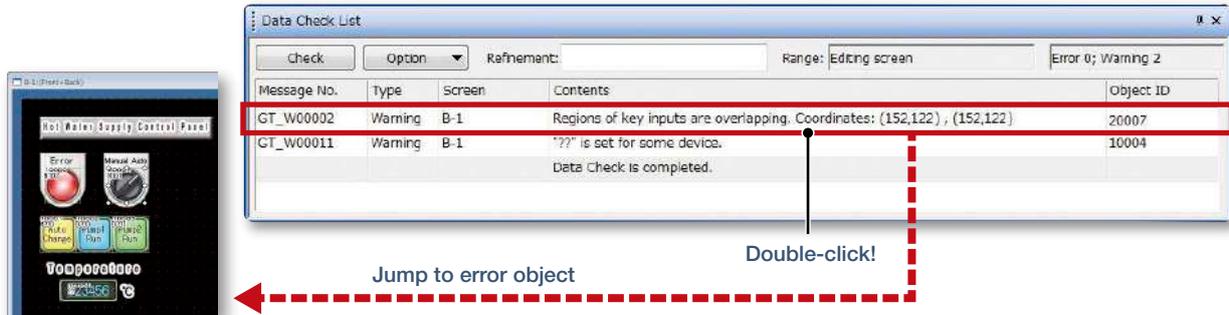


- 1 Verify Project (verifying the project being edited against one in a personal computer) and GOT Verification (verifying the project being edited against one in the GOT) are available.
- 2 Export of verified results and refinement by items such as screen type are possible.
- 3 Double-click on an error or warning line to jump to the corresponding object.
- 4 The background color of a row varies according to the type of a difference.
 Pink: The item exists in both projects and the data are not matched
 Blue: The item exists only in the source project
 Green: The item exists only in the destination project

- Project verification
 Procedure: [Project] → [Verify Data]
- Verification with GOT
 Procedure: [Communication] → [Verify GOT] * In the Verify Result dialog, select [Output to Verify Result (window)] to display the above Verify Result window.

Data check list

The touch switch quantity and overlapping state, object quantity and illegal devices are checked and the results are displayed as a list. Double-click on an error or warning line to jump to the corresponding object. Quickly identify errors and warning objects.



Procedure: [View] → [Docking Window] → [Data Check List]

Support startup work

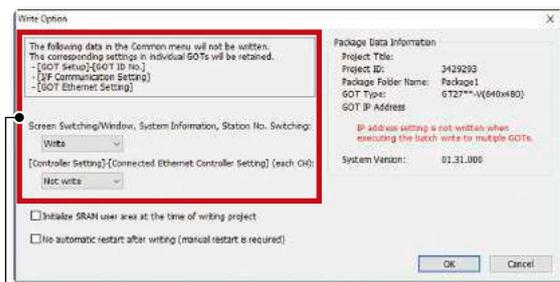
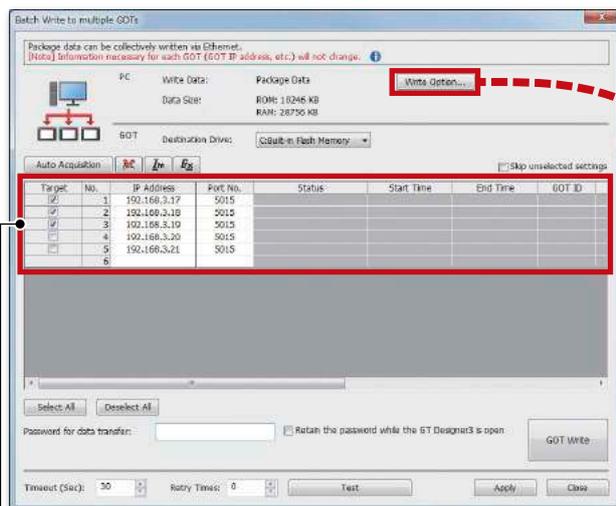
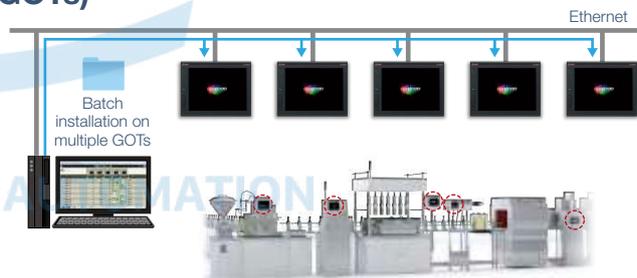
Upgraded

Data transfer (batch write to multiple GOTs)

Single package data (project data, communication drivers, etc.) can be installed on multiple GOTs connected via Ethernet at once. (Maximum 256 GOTs)

Batch installation on multiple GOTs reduces data transfer time and prevents data update omission. When multiple GOTs share the same project data on a large equipment, this feature reduces screen correction and update tasks.

* Supported by GT2107-W, GT2104-R, and GT2103-PMBD among GT21 models.



Set whether to write the following settings.

- Screen Switching/Window, System Information, Station No. Switching
- [Connected Ethernet Controller Setting] in the [Controller Setting] (each channel)

If [Not write] is selected, settings in each target GOT remain unchanged.

The GOT identification information including the GOT IP address are automatically acquired, and the target to perform batch installation can be selected.

Procedure: [Communication] → [Batch Write to multiple GOTs]

Support globalization

Speech synthesis function

Just enter arbitrary text in GT Works3 to create a sound file. It is easy to create a sound file of a message that is needed to output sound on 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.

Supported language

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

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

Image of creating a sound file (message)

The 'Create New Sound File' dialog box shows settings for a message: File No. 1, Type: Message, Speaker: English (Female), Speed: 100, Pitch: 80, Volume: 400. The message text is 'An error occurred.'.

Procedure: [Common] → [Sound] → [Sound File List]

Labels in the image: 'Select language and speaker (male/female)' points to the Speaker dropdown; 'Playback and check the sound' points to the play button; 'Enter an arbitrary message' points to the message text area.

The GOT screen shows a warning icon and the text 'An error occurred.' and '系统发生异常。' (System abnormality occurred).

Language switching

Create comments of different languages, save them in separate columns, and you can switch languages easily just by switching column numbers. In addition, the character strings of switches and lamps can easily be converted from the Text or Text Figures into Comments. This makes it easy to upgrade screens to display multiple languages.

The process involves:

- Text**: Registering text to a comment group (e.g., 'Alarm', 'Reset').
- Text figure**: Converting text figures to comment display.
- Comment group**: Creating columns for different languages (English, Japanese, Chinese, Arabian).
- Comment Allocation**: Assigning the registered text to the appropriate column.
- Final Display**: A screen showing the same function (Alarm/Reset) in multiple languages simultaneously.

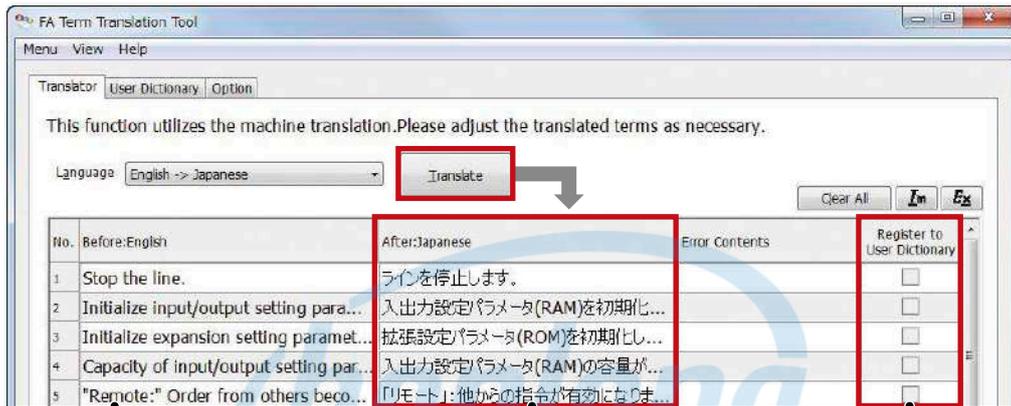
Labels in the image: 'Register text to comment group!', 'Add comments for language switching!', 'Various languages are supported because Windows fonts can be used for comment groups.'

Procedure: [Common] → [GOT Environmental Setting] → [Language Switching]

■ FA Term Translation Tool

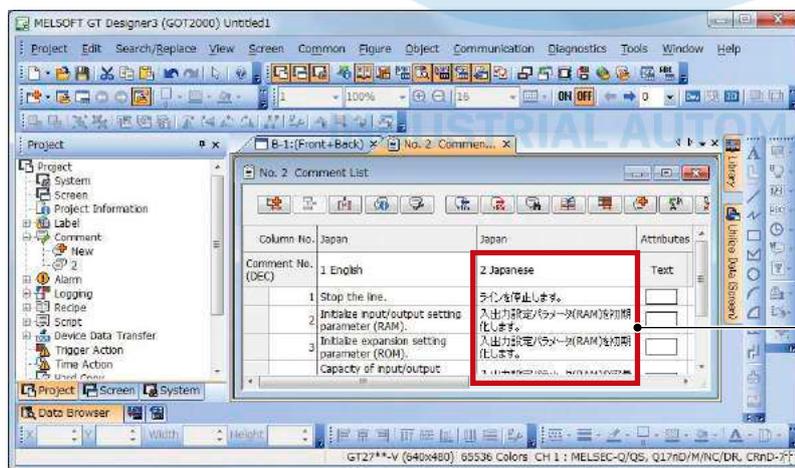
This is the software to translate comments (words, sentences) that are used in MELSOFT applications including GT Works3. The software uses the FA Term Translation Dictionary provided by Mitsubishi Electric. You can use the software even when your computer is not connected to the Internet. In addition, it is possible to create your own dictionary and switch dictionaries depending on your needs. The software supports creation of multiple language screens.

FA Term Translation Tool

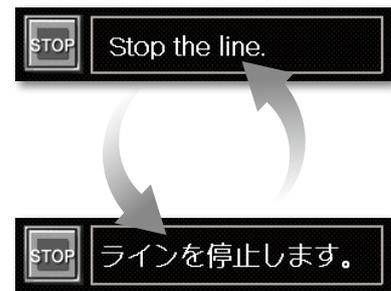


- 1 Copy comments to translate (e.g. from GT Works3) and paste them to the FA Term Translation Tool window
- 2 Translated results are displayed
- 3 Check a checkbox to save it to the dictionary

GT Works3



- 4 Copy the comments translated with FA Term Translation Tool and paste them to where you want to use them (e.g. GT Works3).
- 5 It is easy to create language switching screens.



Starting FA Term Translation Tool

Procedure: Windows menu → [MELSOFT] → [FATranslator] → [FA Term Translation Tool]

Specification details and restrictions

- Compatible language
 - Japanese → English, Chinese (Simplified), Chinese (Traditional)
 - English → Japanese
 - Chinese (Simplified) → Japanese
 - Chinese (Traditional) → Japanese
- Supported OS (Japanese version, English version)
 - Microsoft® Windows® 10
 - Microsoft® Windows® 8.1
 - Microsoft® Windows® 8
 - Microsoft® Windows® 7

● About this tool

Translation by FA Term Translation Tool is a mechanical translation. Use this tool as a tool to support translation.

● How to obtain this tool

This tool is included in the MITSUBISHI ELECTRIC FA Library DVD-ROM of GT Works3 Version 1.130L or later.

For the details, please contact your local sales office.

e-F@ctory solves customers' issues and concerns by enabling visualization and analysis that lead to improvements and increase availability at production sites.

e-F@ctory is the Mitsubishi Electric solution for improving the performance of any manufacturing enterprise by enhancing productivity, and reducing the maintenance and operations costs together with seamless information flow throughout the plant.

e-F@ctory helps to reduce the overall TCO* and is achieved in the following four areas:

* TCO: Total Cost of Ownership

Reduce energy costs

Energy saving solution

Modern manufacturing depends much on reducing energy costs as a way to realize an efficient manufacturing enterprise. e-F@ctory supports this by allowing visualization of real-time energy usage, helping to reduce the overall energy consumption.

Integrate FA and IT systems at low cost

Edge-computing (FA-IT information connection)

e-F@ctory solutions provide direct connectivity from the shop floor to enterprise, such as Manufacturing Execution System (MES) without requiring a gateway computer. This enables leaner operations, improved yield, and efficient management of the supply chain.

Reduce development, production, and maintenance costs

iQ Platform

The iQ Platform minimizes costs at all phases of the automation life cycle by improving development times, enhancing productivity, reducing maintenance costs, and making information more easily accessible. Integration is at the heart of the iQ Platform, with a highly intelligent controller platform as the core, combined with a seamless communication network and an integrated engineering environment.

iQ Platform

Reduce setup and maintenance costs

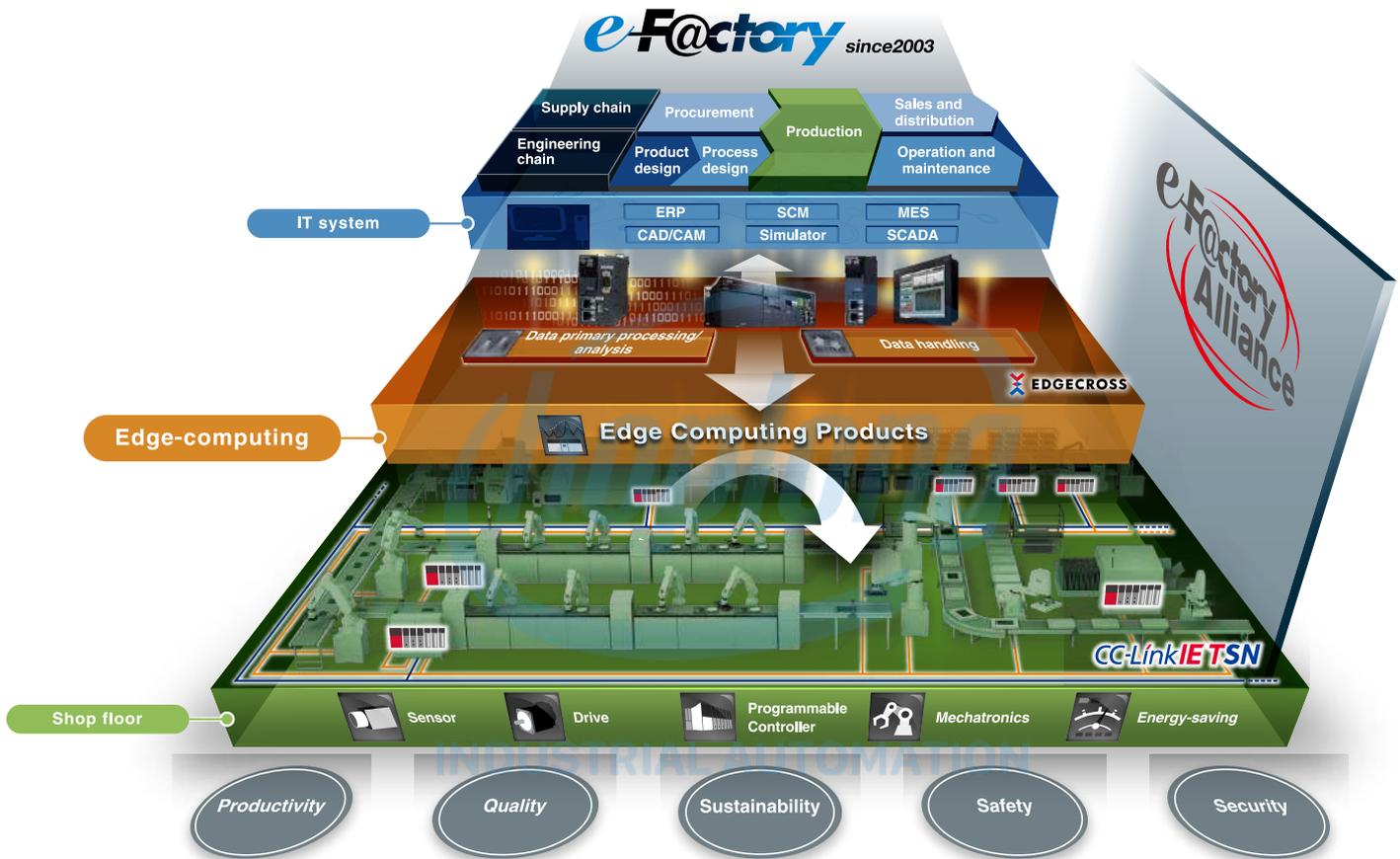
iQ Sensor Solution

Easily setup and maintain various types of sensors. Maintenance and design costs can be reduced as compatible iQSS partner sensors can be managed together.

iQSS



FA integrated solutions reduce total cost



Overall production information is captured in addition to energy information, enabling the realization of efficient production and energy use (energy savings).

Best-in-class solutions across the ecosystem

e-F@ctory Alliance

The e-F@ctory Alliance is an ecosystem offering best-in-class solutions by combining products between Mitsubishi Electric and its various partners. Close collaboration with such partners broaden the choices for the customer and realize the best solution possible.

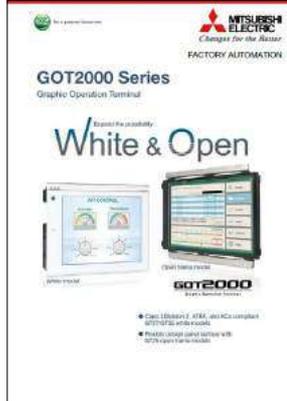


Related materials Various catalogs and leaflets are available.

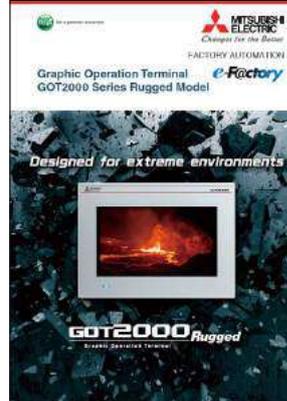
■ Extensive lineup and solutions for various applications



GOT2000 Series Wide Model
L(NA)08461ENG



GOT2000 Series White & Open
L(NA)08414ENG



GOT2000 Series Rugged Model
L(NA)08555ENG



GOT2000 Series Handy GOT
L(NA)08506ENG



GT SoftGOT2000 Solutions
L(NA)08606ENG



Monitoring Control System Solutions
L(NA)08577ENG

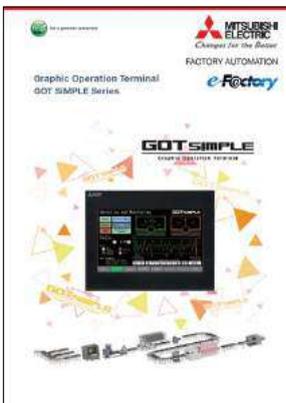


GOT2000 Series GOT Mobile Function
Application Examples
L(NA)08464ENG



FA Application Package
iQ Monozukuri Process Remote
Monitoring
L(NA)08674ENG

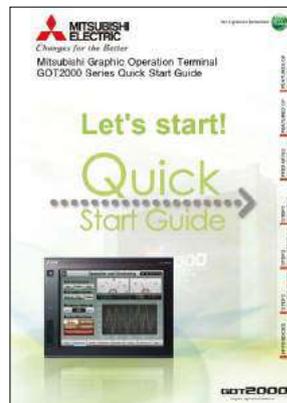
■ GOT SIMPLE Series catalogs



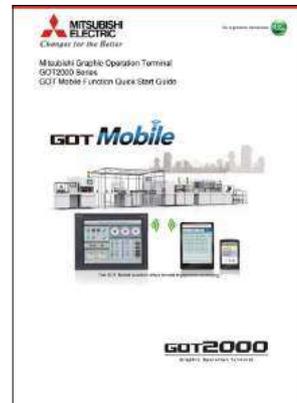
GOT SIMPLE Series*
L(NA)08649ENG (D700 Version)
L(NA)08676ENG (CS80 Version)



Simple Solution Catalog*
L(NA)08602ENG (D700 Version)
L(NA)08355ENG (CS80 Version)



GOT2000 Series Quick Start Guide
L(NA)08311ENG



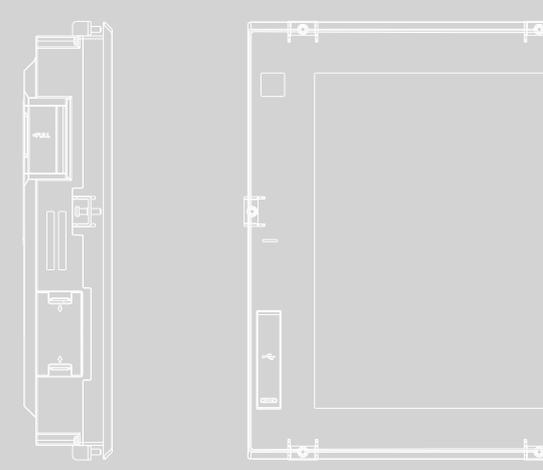
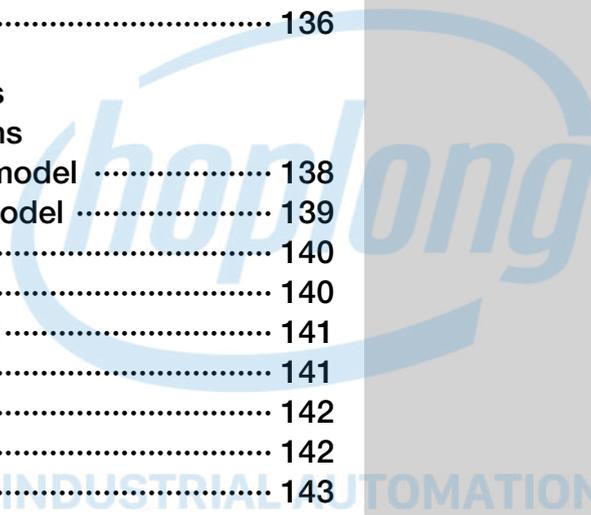
GOT Mobile Function
Quick Start Guide
L(NA)08385ENG

* The inverter model in the catalog differs depending on the catalog number.

■ GOT2000 First Guide

Specifications, Product List, Support INDEX

- General specifications
 - Performance specifications
 - Power supply specifications
 - GT27 model..... 124
 - GT25 model..... 126
 - GT25 wide model/GT25 handy GOT ... 128
 - GT25 rugged model..... 130
 - GT23 model..... 132
 - GT21 wide model/GT21 model 134
 - GS21 model..... 136
- External dimensions
 - Panel cut dimensions
 - GT27 model/GT25 model 138
 - GT25 open frame model 139
 - GT25 wide model..... 140
 - GT25 handy GOT 140
 - GT25 rugged model..... 141
 - GT23 model..... 141
 - GT21 wide model..... 142
 - GT21 model..... 142
 - GS21 model..... 143
 - Communication cable..... 144
- Operating environment
 - MELSOFT GT Works3 Version1 146
 - GT SoftGOT2000 Version1 147
- Function list 148
- Connectable model list
 - GOT2000/GOT SIMPLE 152
 - GT SoftGOT2000 Version1 165
- Compatibility with conventional products 171
- Product list 172
- Support
 - Global support 182
 - Approval standards 183
- Related products 184



GT27 model

General specifications

Item	Specifications							
Operating ambient temperature ^{*1}	0 °C to 55 °C ^{*2}	*1 Includes the temperature inside the enclosure of the control panel to which the GOT is installed.						
Storage ambient temperature	-20 °C to 60 °C							
Operating ambient humidity	10% RH to 90% RH, non-condensing	*2 When any of the following units or option is mounted, the maximum operating ambient temperature must be 5 °C lower than the one described in the general specifications: multimedia unit (GT27-MMR-Z), MELSECNET/H communication unit (GT15-J71LP23-25, GT15-J71BR13), CC-Link communication unit (GT15-J61BT13), protective cover for oil.						
Storage ambient humidity	10% RH to 90% RH, non-condensing							
Vibration resistance	Compliant with JIS B 3502 and IEC 61131-2	Frequency	Acceleration	Half amplitude	Sweep count	*3 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.		
		Under intermittent vibration	5 to 8.4 Hz	—	3.5 mm		10 times in each X, Y, or Z direction	
			8.4 to 150 Hz	9.8 m/s ²	—		—	
		Under continuous vibration	5 to 8.4 Hz	—	1.75 mm		—	
		8.4 to 150 Hz	4.9 m/s ²	—	—			
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 (147 m/s ² (15G), 3 times in each X, Y, or Z direction)					*4 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.		
Operating atmosphere ^{*6}	No greasy fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (as well as at storage)							
Operating altitude ^{*3}	2000 m or less					*5 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.		
Installation location	Inside control panel							
Overvoltage category ^{*4}	II or less					*6 Some models have ANSI/ISA 12.12.01 approval for use in Class I, Division 2 (ANSI/ISA 12.12.01, C22.2 No.213-M1987) hazardous locations. For applicable GOT models, please refer to the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).		
Pollution degree ^{*5}	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.							
Operate and store the GOT in environments without direct sunlight, high temperature, dust, humidity, and vibrations.								
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/RV/DNV GL/LR/NK/RINA]), please refer to the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).								

Performance specifications

Item	Specifications			
	GT2715-XTBA GT2715-XTBD	GT2712-STBA GT2712-STBD	GT2712-STWA GT2712-STWD	GT2710-STBA GT2710-STBD
Display section ^{*1,2}	TFT color LCD			
	Display device	15"		12.1"
	Screen size	15"		10.4"
	Resolution	XGA: 1024 × 768 dots		SVGA: 800 × 600 dots
	Display size	304.1(11.97) (W) × 228.1(8.98) (H) mm(inch)	246(9.69) (W) × 184.5(7.26) (H) mm(inch)	211.2(8.31) (W) × 158.4(6.24) (H) mm(inch)
	Number of displayed characters	16-dot standard font: 64 characters × 48 lines (two-byte characters) 12-dot standard font: 85 characters × 64 lines (two-byte characters)	16-dot standard font: 50 characters × 37 lines (two-byte characters) 12-dot standard font: 66 characters × 50 lines (two-byte characters)	
	Display color	65536 colors		
	Brightness adjustment	32 levels		
	Backlight	LED (not replaceable)		
	Backlight life ^{*4}	Approx. 60000 h (operating ambient temperature: 25 °C, display intensity: 50%)		
Touch panel ^{*3,11}	Type	Analog resistive film		
	Key size	Minimum 2 × 2 dots ¹⁹ (per key)		
	Simultaneous press	Up to two points		
	Life	1 million touches or more (operating force: 0.98 N or less)		
Panel color	Black		White	Black
Human sensor	Detection length	1 m		
	Detection temperature	Temperature difference between human body and ambient air: 4 °C or higher		
User memory	User memory capacity	Memory for storage (ROM) ¹² : 57 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	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	1 channel Data transfer method: 100BASE-TX, 10BASE-T Connector shape: RJ-45 (modular jack)		
	USB (host)	2 channels (front face, rear face)	1 channel (rear face)	2 channels (front face, rear face)
	USB (device)	1 channel (front face)	1 channel (rear face)	1 channel (front face)
	SD memory card ¹²	USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB Mini-B 1 channel, SDHC compliant (maximum 32 GB)		
	Extension interface ¹⁷	For installing a communication unit or an option unit		
	Auxiliary extension interface	For installing an option unit		
Side interface	For installing a communication unit			
Buzzer output	Single tone (tone and tone length adjustable)			
POWER LED	2 colors (blue and orange)			
Protective structure ¹⁵	Front: IP67F ^{16,19} Inside control panel: IP2X			
Safety standards, radio laws (as of December 2019)	CE, UL, cUL, EAC, KC		CE, ATEX ¹⁰ , UL, cUL, Class I Division 2, EAC, KC, KCs ¹⁰	CE, UL, cUL, EAC, KC
External dimensions	397(15.63) (W) × 300(11.81) (H) × 60(2.36) (D) mm(inch)	316(12.44) (W) × 246(9.69) (H) × 52(2.05) (D) mm(inch)		303(11.93) (W) × 218(8.58) (H) × 52(2.05) (D) mm(inch)
Panel cut dimensions	383.5(15.10) (W) × 282.5(11.12) (H) mm(inch)	302(11.89) (W) × 228(8.98) (H) mm(inch)		289(11.38) (W) × 200(7.87) (H) mm(inch)
Weight (excluding a fitting)	4.5(9.9) kg(lb)	2.4(5.3) kg(lb)		2.1(4.6) kg(lb)
Compatible software package	GT Works3 Version1.225K 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 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.

Power supply specifications

Item	Specifications									
	GT2715-XTBA	GT2712-STBA GT2712-STWA	GT2710-STBA GT2710-VTBA GT2710-VTWA	GT2708-STBA GT2708-VTBA	GT2715-XTBD	GT2712-STBD GT2712-STWD	GT2710-STBD GT2710-VTBD GT2710-VTWD	GT2708-STBD GT2708-VTBD	GT2705-VTBD	
Power supply voltage	100 V AC to 240 V AC (+10%, -15%)				24 V DC (+25%, -20%)					
Power supply frequency	50 Hz/60 Hz (±5%)									
Power consumption	Under the maximum load	51 W or less	44 W or less	41 W or less	41 W or less	48 W or less	45 W or less	42 W or less	39 W or less	30 W or less
	Main unit	25 W	19 W	17 W	15 W	23 W	18 W	15 W	13 W	7 W
	Main unit (backlight OFF)	10 W	10 W	10 W	10 W	8 W	8 W	8 W	8 W	5 W
Inrush current	40 A or less (3 ms, ambient temperature: 25 °C, under the maximum load)				60 A or less (2 ms, ambient temperature: 25 °C, under the maximum load)			5 A or less (20 ms, ambient temperature: 25 °C, under the maximum load)		69 A or less (1 ms, ambient temperature: 25 °C, under the maximum load)
Permissible instantaneous power failure time	20 ms or less (100 V AC or more)				10 ms or less					
Noise immunity	Noise voltage: 1500 Vp-p, noise width: 1 μs, measured by a noise simulator with noise frequency ranging from 25 Hz to 60 Hz					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	1500 V AC for 1 minute across power terminals and earth									
Insulation resistance	500 V DC across power terminals and earth, 10 MΩ or more by an insulation resistance tester									

Item	Specifications					
	GT2710-VTBA GT2710-VTBD	GT2710-VTWA GT2710-VTWD	GT2708-STBA GT2708-STBD	GT2708-VTBA GT2708-VTBD	GT2705-VTBD	
Display device	TFT color LCD					
Screen size	10.4"		8.4"		5.7"	
Resolution	VGA: 640 × 480 dots		SVGA: 800 × 600 dots		VGA: 640 × 480 dots	
Display size	211.2(8.31) (W) × 158.4(6.24) (H) mm(inch)		170.9(6.73) (W) × 128.2(5.05) (H) mm(inch)		115.2(4.54) (W) × 86.4(3.40) (H) mm(inch)	
Number of displayed characters	16-dot standard font: 40 characters × 30 lines (two-byte characters)		16-dot standard font: 50 characters × 37 lines (two-byte characters)		16-dot standard font: 40 characters × 30 lines (two-byte characters)	
	12-dot standard font: 53 characters × 40 lines (two-byte characters)		12-dot standard font: 66 characters × 50 lines (two-byte characters)		12-dot standard font: 53 characters × 40 lines (two-byte characters)	
Display color	65536 colors					
Brightness adjustment	32 levels					
Backlight	LED (not replaceable)					
Backlight life *4	Approx. 60000 h (operating ambient temperature: 25 °C, display intensity: 50%)					
Touch panel *3 *11	Type: Analog resistive film					
	Key size: Minimum 2 × 2 dots *9 (per key)					
	Simultaneous press: Up to two points					
Life	1 million touches or more (operating force: 0.98 N or less)					
Panel color	Black	White	Black			
Human sensor	Detection length: — Detection temperature: —					
User memory	User memory capacity: Memory for storage (ROM) *12: 57 MB Memory for operation (RAM): 128 MB				Memory for storage (ROM) *12: 32 MB Memory for operation (RAM): 80 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	1 channel Data transfer method: 100BASE-TX, 10BASE-T Connector shape: RJ-45 (modular jack)				
	USB (host)	2 channels (front face, rear face)	1 channel (rear face)	2 channels (front face, rear face)		
	USB (device)	USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB-A				
		1 channel (front face)	1 channel (rear face)	1 channel (front face)		
	SD memory card *12	USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB Mini-B 1 channel, SDHC compliant (maximum 32 GB)				
	Extension interface *7	For installing a communication unit or an option unit				
Auxiliary extension interface	For installing an option unit					
Side interface	For installing a communication unit					
Buzzer output	Single tone (tone and tone length adjustable)					
POWER LED	2 colors (blue and orange)					
Protective structure *5	Front: IP67F *6 *9 Inside control panel: IP2X					
Safety standards, radio laws (as of December 2019)	CE, UL, cUL, EAC, KC		CE, ATEX *10, UUL, cUL, Class I Division 2, EAC, KC, KCs *10		CE, UL, cUL, EAC, KC	
External dimensions	303(11.93) (W) × 218(8.58) (H) × 52(2.05) (D) mm(inch)		241(9.49) (W) × 194(7.64) (H) × 52(2.05) (D) mm(inch)		167(6.57) (W) × 139(5.47) (H) × 60(2.36) (D) mm(inch)	
Panel cut dimensions	289(11.38) (W) × 200(7.87) (H) mm(inch)		227(8.94) (W) × 176(6.93) (H) mm(inch)		153(6.02) (W) × 121(4.76) (H) mm(inch)	
Weight (excluding a fitting)	2.1(4.6) kg(lb)		1.5(3.3) kg(lb)		1.0(2.2) kg(lb)	
Compatible software package	GT Works3 Version1.225K or later					

*6 To conform to IP67F, close the USB environmental protection cover by pushing the [PUSH] mark firmly. (The GOT conforms to IP2X when the USB environmental protection cover is open.)
 *7 When using a GT2705-VTBD with multiple devices such as extension units, a barcode reader, and an RFID controller, the total amount of current must be within the maximum amount of current supplied by the GT2705-VTBD. For the details, please refer to the relevant manual of the GOT2000 Series.
 *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 × 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.
 *10 ATEX and KCs are supported by GT2712-STWD and GT2710-VTWD (24 V DC power supply type) only.
 *11 Repeatedly touching the outer edge of the actual display area may cause the product to fail.
 *12 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.

GT25 model

* For the specifications of GT25 wide models, GT25 handy GOT, and GT25 rugged model, please refer to pages 128 to 131.

General specifications

Item	Specifications					
Operating ambient temperature *1	0 °C to 55 °C *2 *7					
Storage ambient temperature	-20 °C to 60 °C					
Operating ambient humidity	10% RH to 90% RH, non-condensing *8					
Storage ambient humidity	10% RH to 90% RH, non-condensing *8					
Vibration resistance	Compliant with JIS B 3502 and IEC 61131-2	Frequency	Acceleration	Half amplitude	Sweep count	
		Under intermittent vibration	5 to 8.4 Hz 8.4 to 150 Hz	— 9.8 m/s ²	3.5 mm —	10 times in each X, Y, or Z direction
		Under continuous vibration	5 to 8.4 Hz 8.4 to 150 Hz	— 4.9 m/s ²	1.75 mm —	—
		Compliant with JIS B 3502 and IEC 61131-2 (147 m/s ² (15G), 3 times in each X, Y, or Z direction)				
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 (147 m/s ² (15G), 3 times in each X, Y, or Z direction)					
Operating atmosphere *6	No greasy fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (as well as at storage)					
Operating altitude *3	2000 m or less					
Installation location	Inside control panel					
Overvoltage category *4	II or less					
Pollution degree *5	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 When any of the following units or option is mounted, the maximum operating ambient temperature must be 5°C lower than the one described in the general specifications: MELSECNET/H communication unit (GT15-J71LP23-25, GT15-J71BR13), CC-Link communication unit (GT15-J61BT13), protective cover for oil.
- *3 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.
- *4 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.
- *5 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.
- *6 Some models have ANSI/ISA 12.12.01 approval for use in Class I, Division 2 (ANSI/ISA 12.12.01, C22.2 No.213-M1987) hazardous locations. For applicable GOT models, please refer to the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).
- *7 When GT2505-VTBD is installed vertically, the operating ambient temperature must be between 0 °C and 50 °C.
- *8 If the ambient temperature of GT2505-VTBD exceeds 40 °C, the absolute humidity must not exceed 90% RH at 40 °C.

Operate and store the GOT in environments without direct sunlight, high temperature, dust, humidity, and vibrations.

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/DNV GL/LR/NK/RINA]), please refer to the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

Performance specifications

Item	Specifications					
	GT2512-STBA GT2512-STBD	GT2512F-STNA GT2512F-STND	GT2510-VTBA GT2510-VTBD	GT2510-VTWA GT2510-VTWD	GT2510F-VTNA GT2510F-VTND	
Display section *1 *2	TFT color LCD					
	Display device	12.1"			10.4"	
	Screen size	12.1"			10.4"	
	Resolution	SVGA: 800 × 600 dots			VGA: 640 × 480 dots	
	Display size	246(9.69) (W) × 184.5(7.26) (H) mm(inch)			211.2(8.31) (W) × 158.4(6.24) (H) mm(inch)	
	Number of displayed characters	16-dot standard font: 50 characters × 37 lines (two-byte characters) 12-dot standard font: 66 characters × 50 lines (two-byte characters)			16-dot standard font: 40 characters × 30 lines (two-byte characters) 12-dot standard font: 53 characters × 40 lines (two-byte characters)	
	Display color	65536 colors				
	Brightness adjustment	32 levels				
Backlight	LED (not replaceable)					
Backlight life *4	Approx. 60000 h (operating ambient temperature: 25 °C, display intensity: 50%)					
Touch panel *3 *12	Type	Analog resistive film				
	Key size	Minimum 2 × 2 dots *9 (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	Black	—	Black	White	—	
User memory	User memory capacity	Memory for storage (ROM) *13: 32 MB Memory for operation (RAM): 80 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	1 channel Data transfer method: 100BASE-TX, 10BASE-T Connector shape: RJ-45 (modular jack)				
	USB (host)	2 channels (front face, rear face)	1 channel (rear face)	2 channels (front face, rear face)	1 channel (rear face)	
	USB (device)	USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB-A				
	SD memory card *13	1 channel (front face)				
	Extension interface	1 channel (rear face)				
Buzzer output	USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB Mini-B					
	Side interface	1 channel, SDHC compliant (maximum 32 GB)				
POWER LED	For installing a communication unit or an option unit					
Protective structure *6	For installing a communication unit					
Safety standards, radio laws (as of December 2019)	CE, UL, cUL, EAC, KC			CE, ATEX *11, UL, cUL, Class I Division 2, EAC, KC, KCs *11		
External dimensions	316(12.44) (W) × 246(9.69) (H) × 52(2.05) (D) mm(inch)	311(12.24) (W) × 237(9.33) (H) × 54(2.13) (D) mm(inch)	303(11.93) (W) × 218(8.58) (H) × 52(2.05) (D) mm(inch)	298(11.73) (W) × 209(8.23) (H) × 54(2.13) (D) mm(inch)		
Panel cut dimensions	302(11.89) (W) × 228(8.98) (H) mm(inch)	289(10.59) (W) × 214(8.43) (H) mm(inch)	289(11.38) (W) × 200(7.87) (H) mm(inch)	234(9.21) (W) × 187(7.36) (H) mm(inch)		
Weight (excluding a fitting)	2.4(5.3) kg(lb)			2.1(4.6) kg(lb)		
Compatible software package	GT Works3 Version 1.225K 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.

Power supply specifications

Item	Specifications						
	GT2512-STBA GT2512F-STNA	GT2510-VTBA GT2510F-VTNA	GT2508-VTBA GT2508F-VTNA	GT2512-STBD GT2512F-STND	GT2510-VTBD GT2510F-VTND	GT2508-VTBD GT2508F-VTND	GT2505-VTBD
Power supply voltage	100 V AC to 240 V AC (+10%, -15%)			24 V DC (+25%, -20%)			24 V DC (+10%, -15%)
Power supply frequency	50 Hz/60 Hz (±5%)						
Power consumption	Under the maximum load	35 W or less	34 W or less	31 W or less	37 W or less	33 W or less	31 W or less
	Main unit	14 W	12 W	11 W	13 W	10 W	8 W
	Main unit (backlight OFF)	7 W	7 W	7 W	6 W	6 W	6 W
Inrush current	60 A or less (2 ms, ambient temperature: 25 °C, under the maximum load)			5 A or less (20 ms, ambient temperature: 25 °C, under the maximum load)			42 A or less (2 ms, ambient temperature: 25 °C, under the maximum load)
Permissible instantaneous power failure time	20 ms or less (100 V AC or more)			10 ms or less			
Noise immunity	Noise voltage: 1500 Vp-p, noise width: 1 μs, measured by a noise simulator with noise frequency ranging from 25 Hz to 60 Hz			Noise voltage: 500 Vp-p, noise width: 1 μs, measured by a noise simulator with noise frequency ranging from 25 Hz to 60 Hz			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 V AC for 1 minute across power terminals and earth			350 V AC for 1 minute across power terminals and earth			500 V AC for 1 minute across power terminals and earth
Insulation resistance	500 V DC across power terminals and earth, 10 MΩ or more by an insulation resistance tester						

Item	Specifications			
	GT2508-VTBA GT2508-VTBD	GT2508-VTWA GT2508-VTWD	GT2508F-VTNA GT2508F-VTND	GT2505-VTBD
Display section *1 *2	TFT color LCD			
	Screen size		8.4"	
	Resolution		VGA: 640 x 480 dots	
	Display size		170.9(6.73) (W) x 128.2(5.05) (H) mm(inch)	
	Number of displayed characters		16-dot standard font: 40 characters x 30 lines (two-byte characters) 12-dot standard font: 53 characters x 40 lines (two-byte characters)	
	Display color		65536 colors	
	Brightness adjustment		32 levels	
	Backlight		LED (not replaceable)	
Backlight life *4		Approx. 60000 h (operating ambient temperature: 25 °C, display intensity: 50%)		
Touch panel *3 *12	Type			
	Analog resistive film			
	Key size			
	Minimum 2 x 2 dots *9 (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		Black	White	Black
User memory	User memory capacity			
	Memory for storage (ROM) *13: 32 MB Memory for operation (RAM): 80 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			
	1 channel Data transfer method: 100BASE-TX, 10BASE-T Connector shape: RJ-45 (modular jack)			
	USB (host)		2 channels (front face, rear face)	
USB (device)		1 channel (rear face)		
SD memory card *13		1 channel, SDHC compliant (maximum 32 GB)		
Extension interface		For installing a communication unit or an option unit		
Side interface		For installing a communication unit		
Buzzer output		Single tone (tone and tone length adjustable)		
POWER LED		2 colors (blue and orange)		
Protective structure *6		Front: IP67F *7 *10 Inside control panel: IP2X	Front: IP67F *10 Inside control panel: IP2X	Front: IP67F *8 *10 Inside control panel: IP2X
Safety standards, radio laws (as of December 2019)		CE, UL, cUL, EAC, KC	CE, ATEX *11, UL, cUL, Class I Division 2, EAC, KC, KCs *11	CE, UL, cUL, EAC, KC
External dimensions		241(9.49) (W) x 194(7.64) (H) x 52(2.05) (D) mm(inch)		236(9.29) (W) x 185(7.28) (H) x 54(2.13) (D) mm(inch)
Panel cut dimensions		227(8.94) (W) x 176(6.93) (H) mm(inch)		194(7.64) (W) x 158(6.22) (H) mm(inch)
Weight (excluding a fitting)		1.5(3.3) kg(lb)		0.6(1.3) kg(lb)
Compatible software package		GT Works3 Version1.225K or later		

*7 To conform to IP67F, close the USB environmental protection cover by pushing the [PUSH] mark or the [PULL] mark firmly. (The GOT conforms to IP2X when the USB environmental protection cover is open.)
 *8 To conform to IP67F attach the environmental protection sheet.
 *9 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
 *10 The suffix "F" of IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.
 *11 ATEX and KCs are supported by GT2510-VTWD and GT2508-VTWD (24 V DC power supply type) only.
 *12 Repeatedly touching the outer edge of the actual display area may cause the product to fail.
 *13 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.

GT25 wide model/GT25 handy GOT

General specifications

Item	Specifications					
	GT25 wide model		GT25 handy GOT			
Operating ambient temperature *1	0 °C to 55 °C *5		0 °C to 40 °C			
Storage ambient temperature	-20 °C to 60 °C					
Operating ambient humidity	10% RH to 90% RH, non-condensing					
Storage ambient humidity	10% RH to 90% RH, non-condensing					
Vibration resistance	Compliant with JIS B 3502 and IEC 61131-2	Under intermittent vibration	Frequency	Acceleration	Half amplitude	10 times in each X, Y, or Z direction
			5 to 8.4 Hz	—	3.5 mm	
		Under continuous vibration	8.4 to 150 Hz	9.8 m/s ²	—	—
			5 to 8.4 Hz	—	1.75 mm	—
8.4 to 150 Hz	4.9 m/s ²	—	—	—		
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 (147 m/s ² (15G), 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. (GT25 wide model)
- *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 When a protective cover for oil is mounted on the GOT, the maximum operating ambient temperature must be 5°C lower than the one described in the general specifications.

Operate and store the GOT in environments without direct sunlight, high temperature, dust, humidity, and vibrations.

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/).

Performance specifications

Item	Specifications				
	GT25 wide model				
		GT2510-WXTBD	GT2510-WXTSD	GT2507-WTBD	GT2507-WTSD
Display section *1 *2	Display device	TFT color LCD			
	Screen size	10.1" widescreen		7" widescreen	
	Resolution	WXGA: 1280 × 800 dots		WVGA: 800 × 480 dots	
	Display size	216.96(8.54) (W) × 135.6(5.34) (H) mm (inch)		152.40(6.00) (W) × 91.44(3.60) (H) mm (inch)	
	Number of displayed characters	16-dot standard font: 80 characters × 50 lines (two-byte characters) 12-dot standard font: 106 characters × 66 lines (two-byte 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 *11	Type	Analog resistive film		
Key size		Minimum 2 × 2 dots *8 (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	Black	Silver *10	Black	Silver *10	
User memory	User memory capacity	Memory for storage (ROM) *12: 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) GT11-50BAT lithium battery				
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 channel 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 (front face)			
		USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB Mini-B			
	SD memory card *12	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)				
	Single tone (tone and tone length adjustable)				
Buzzer output	2 colors (blue and orange)				
POWER LED	Front: IP67F *7 *9 Inside control panel: IP2X				
Protective structure *6	CE, UL, cUL, EAC, KC				
Safety standards, radio laws (as of December 2019)	CE, UL, cUL, EAC, KC				
External dimensions	252(9.92) (W) × 194(7.64) (H) × 48(1.89) (D) mm (inch)		189(7.44) (W) × 142(5.59) (H) × 48(1.89) (D) mm (inch)		
Panel cut dimensions	243.5(9.59) (W) × 185.5(7.30) (H) mm (inch)		180.5(7.11) (W) × 133.5(5.26) (H) mm (inch)		
Weight (excluding a fitting)	1.2(2.6) kg (lb)		0.75(1.7) kg (lb)		
Compatible software package	GT Works3 Version1.225K 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 To conform to IP67F, close the USB environmental protection cover by pushing the [PULL] mark firmly. (The GOT conforms to IP2X when the USB environmental protection cover is open.)
- *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 × 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.

Power supply specifications

Item	Specifications			
	GT25 wide model		GT25 handy GOT	
	GT2510-WXTBD GT2510-WXTSD	GT2507-WTBD GT2507-WTSD	GT2506HS-VTBD	GT2505HS-VTBD
Power supply voltage	24 V DC (+25%, -20%)		24 V DC (+10%, -15%)	
Power consumption	Under the maximum load	16 W or less	11.6 W or less	8.4 W or less
	Main unit	9 W	—	
	Main unit (backlight OFF)	5 W	8.2 W	7.0 W
Inrush current	59 A or less (2 ms, ambient temperature: 25 °C, under the maximum load)		30 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		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	350 V AC for 1 minute across power terminals and earth		500 V DC for 1 minute across power terminals and earth	
Insulation resistance	500 V DC across power terminals and earth, 10 MΩ or more by an insulation resistance tester			

Item	Specifications		
	GT25 handy GOT		
	GT2506HS-VTBD		GT2505HS-VTBD
Display section *1 *2	Display device	TFT color LCD	
	Screen size	6.5"	5.7"
	Resolution	VGA: 640 x 480 dots	
	Display size	132.5(5.22) (W) x 99.4(3.91) (H) mm(inch)	115.2(4.54) (W) x 86.4(3.40) (H) mm(inch)
	Number of displayed characters	16-dot standard font: 40 characters x 30 lines (two-byte characters) 12-dot standard font: 53 characters x 40 lines (two-byte characters)	
	Display color	65536 colors	
	Brightness adjustment	32 levels	
	Backlight	LED (not replaceable)	
Touch panel *3 *11	Backlight life *4	Approx. 40000 h (operating ambient temperature: 25 °C, display intensity: 50%)	Approx. 60000 h (operating ambient temperature: 25 °C, display intensity: 50%)
	Type	Analog resistive film	
	Key size	Minimum 2 x 2 dots *8 (per key)	
	Simultaneous press	Not available *5 (Only 1 point can be touched.)	
Panel color	Black		
Switch	Operation switch	6 switches (6 contacts/common), N/O contact, Maximum rating 10 mA/24 V DC, Life: 1000000 times, 6 green LEDs (lighting control from display section)	6 switches (6 contacts/common), N/O contact, Maximum rating 10 mA/24 V DC, Life: 1000000 times
	Grip switch	1 switch (single wiring) (IEC HE3B-M2PB), Enable switch (deadman switch) 3-position system of OFF ↔ ON ↔ OFF, 2 N/O contacts, Maximum rating 1 A/24 V DC (resistance load), Maximum rating 0.3 A/24 V DC (induction load), Life: 100000 times, 1 green LED (lighting control from display section)	
	Emergency stop switch	1 switch (single wiring) (IEC XA1E-BV303R), 3 N/C contacts, Maximum rating 1 A/24 V DC (resistance load), Maximum rating 0.3 A/24 V DC (induction load), Life: 100000 times	
	Keylock switch (2-position switch)	1 switch (single wiring) (IEC AS6M-2KT1PB), 2-notch type (Manual stop at each position/A key can be inserted and removed on only the left side./ On the right side, a key cannot be removed./Two keys are provided.), 2-position, Maximum rating 1 A/24 V DC (resistance load), Maximum rating 0.3 A/24 V DC (induction load), Life: 100000 times	
User memory	User memory capacity	Memory for storage (ROM) *12: 32 MB Memory for operation (RAM): 80 MB	
	Life (number of write times)	100000 times	
Built-in clock precision	±90 seconds/month (ambient temperature: 25 °C)		
Battery	GT15-BAT lithium battery		GT11-50BAT lithium battery
	Data to be backed up	SRAM data, clock data, system status log data	
Built-in interface	Life	Approx. 5 years (ambient temperature: 25 °C)	
	RS-232	RS-232 or RS-422/485, 1 channel (Select one channel. RS-422/485 is set as the factory default.) Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: Square 42 pins (male)	RS-232 or RS-422, 1 channel (Select one channel from RS-232, RS-422, or Ethernet. Ethernet is set as the factory default.) Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: Round 32 pins (male)
	RS-422/485 *14		
	Ethernet	1 channel (Select one channel from RS-232, RS-422, or Ethernet. Ethernet is set as the factory default.) Data transfer method: 100BASE-TX, 10BASE-T Connector shape: Square 42 pins (male)	
	USB (host)	1 channel (top face) USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB-A	
	USB (device)	1 channel (top face) USB version: USB 2.0 (High-Speed 480 Mbps), Connector shape: USB Mini-B	
SD memory card *12	1 channel, SDHC compliant (maximum 32 GB)		
	Single tone (tone and tone length adjustable)		
Buzzer output	2 colors (blue and orange)		
POWER LED	IP65F *9*13 (When an external cable is connected. The rating is not applied to the relay connector side of the external cable.)		
Protective structure *6	CE, UL, cUL, EAC, KC		
Safety standards, radio laws (as of December 2019)			
External dimensions	201(7.91) (W) x 230(9.06) (H) x 97(3.82) (D) mm(inch) (excluding projections such as the emergency stop switch)	145(5.71) (W) x 185(7.28) (H) x 79.3(3.12) (D) mm(inch) (excluding projections such as the emergency stop switch)	
Weight	1.2(2.6) kg(lb) (GOT main unit only)	0.79(1.7) kg(lb) (GOT main unit only)	
Compatible software package	GT Works3 Version1.225K or later		

*10 The lower part of the panel including the USB environmental protection cover is black.

*11 Repeatedly touching the outer edge of the actual display area may cause the product to fail.

*12 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.

*13 The rating is not applied when the interface environment protection cover or the environmental protection back cover is removed.

*14 GT2505HS-VTBD supports RS-422 only.

GT25 rugged model

General specifications

Item	Specifications *5						
Operating ambient temperature *1	-20 °C to 65 °C	*1 Includes the temperature inside the enclosure of the control panel to which the GOT is installed.					
Storage ambient temperature	-30 °C to 75 °C	*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.					
Operating ambient humidity	10% RH to 90% RH, non-condensing						
Storage ambient humidity	10% RH to 90% RH, non-condensing						
Vibration resistance	Compliant with IEC 60068-2-6	Under intermittent vibration	Frequency	Acceleration	Half amplitude	Sweep count	*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.
		5 to 8.4 Hz	8.4 to 150 Hz	19.6 m/s ²	—	10 times in each X, Y, or Z direction	
			5 to 8.4 Hz	—	7.0 mm	—	
		Under continuous vibration	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						*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.
Pollution degree *4	2 or less						*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. However, when a protective cover for oil is mounted on the GOT, the operating ambient temperature must be -20°C to 50°C. For using peripheral devices to be connected to the GOT, please refer to the relevant product manual.
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.						

Operate and store the GOT in environments without direct sunlight, high temperature, dust, humidity, and vibrations.

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/).

Performance specifications

Item	Specifications	
GT2507T-WTSD		
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	Data to be backed up	GT11-50BAT lithium battery
	Life	SRAM data, clock data, system status log data 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 channel 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)	
Protective structure *6	Front: IP66F *8, IP67F *8 Inside control panel: IP2X	
Safety standards, radio laws (as of December 2019)	CE, UL, cUL, EAC, KC	
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 Version 1.225K 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.

Power supply specifications

Item		Specifications
		GT2507T-WTSD
Power supply voltage		24 V DC (+25%, -20%)
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 MΩ or more by an insulation resistance tester



INDUSTRIAL AUTOMATION

GT23 model

General specifications

Item	Specifications						
Operating ambient temperature *1	0 °C to 55 °C *6						
Storage ambient temperature	-20 °C to 60 °C						
Operating ambient humidity	10% RH to 90% RH, non-condensing *2						
Storage ambient humidity	10% RH to 90% RH, non-condensing *2						
Vibration resistance	Compliant with JIS B 3502 and IEC 61131-2						
	Frequency	5 to 8.4 Hz	Acceleration	—	Half amplitude	3.5 mm	Sweep count 10 times in each X, Y, or Z direction
	Under intermittent vibration	8.4 to 150 Hz	9.8 m/s ²	—	—		
	Under continuous vibration	5 to 8.4 Hz	—	1.75 mm	—	—	
Under continuous vibration	8.4 to 150 Hz	4.9 m/s ²	—	—	—		
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 (147 m/s ² (15G), 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 *3	2000 m or less						
Installation location	Inside control panel						
Overvoltage category *4	II or less						
Pollution degree *5	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 If the ambient temperature exceeds 40 °C, the absolute humidity must not exceed 90% RH at 40 °C.
- *3 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.
- *4 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.
- *5 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.
- *6 When a protective cover for oil is mounted on the GOT, the maximum operating ambient temperature must be 5°C lower than the one described in the general specifications.

Operate and store the GOT in environments without direct sunlight, high temperature, dust, humidity, and vibrations.

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/DNV/GL/LR/NK/RINA]), please refer to the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

Performance specifications

Item	Specifications	
	GT2310-VTBA GT2310-VTBD	GT2308-VTBA GT2308-VTBD
Display section *1 *2	Display device	TFT color LCD
	Screen size	10.4"
	Resolution	VGA: 640 x 480 dots
	Display size	211.2(8.31) (W) x 158.4(6.24) (H) mm(inch)
	Number of displayed characters	16-dot standard font: 40 characters x 30 lines (two-byte characters) 12-dot standard font: 53 characters x 40 lines (two-byte characters)
	Display color	65536 colors
	Brightness adjustment	16 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 x 2 dots *7 (per key)
	Simultaneous press	Not available *5 (Only 1 point can be touched.)
Panel color	Life	1 million touches or more (operating force: 0.98 N or less)
		Black
User memory	User memory capacity	Memory for storage (ROM) *10: 9 MB Memory for operation (RAM): 9 MB
	Life (number of write times)	100000 times
Built-in clock precision		±90 seconds/month (ambient temperature: 25 °C)
Battery	Data to be backed up	GT11-50BAT lithium battery (option)
	Life	SRAM data, clock data, system status log data 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	1 channel Data transfer method: 100BASE-TX, 10BASE-T Connector shape: RJ-45 (modular jack)
	USB (host)	1 channel (rear face) USB version: USB 1.1 (Full-Speed 12 Mbps), Connector shape: USB-A
	USB (device)	1 channel (rear face) USB version: USB 1.1 (Full-Speed 12 Mbps), Connector shape: USB Mini-B
	SD memory card *10	1 channel, SDHC compliant (maximum 32 GB)
Buzzer output		Single tone (tone length adjustable)
POWER LED		2 colors (blue and orange)
Protective structure *6		Front: IP67F *8 Inside control panel: IP2X
Safety standards, radio laws (as of December 2019)		CE, UL, cUL, EAC, KC
External dimensions	303(11.93) (W) x 218(8.58) (H) x 56(2.20) (D) mm(inch)	241(9.49) (W) x 194(7.64) (H) x 56(2.20) (D) mm(inch)
Panel cut dimensions	289(11.38) (W) x 200(7.87) (H) mm(inch)	227(8.94) (W) x 176(6.93) (H) mm(inch)
Weight (excluding a fitting)	1.9(4.2) kg(lb)	1.5(3.3) kg(lb)
Compatible software package	GT Works3 Version1.225K 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 x 16 dots or larger • Distance between keys: 16 dots or more
- *8 The suffix "F" of IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.
- *9 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.

Power supply specifications

Item	Specifications			
	GT2310-VTBA	GT2308-VTBA	GT2310-VTBD	GT2308-VTBD
Power supply voltage	100 V AC to 240 V AC (+10%, -15%)		24 V DC (+25%, -20%)	
Power supply frequency	50 Hz/60 Hz (±5%)			
Power consumption	Under the maximum load	18 W or less	11 W or less	11 W or less
	Main unit	15 W	9 W	8 W
	Main unit (backlight OFF)	8 W	6 W	6 W
Inrush current	40 A or less (4 ms, ambient temperature: 25 °C, under the maximum load)		40 A or less (2 ms, ambient temperature: 25 °C, under the maximum load)	
Permissible instantaneous power failure time	20 ms or less (100 V AC or more)		10 ms or less	
Noise immunity	Noise voltage: 1500 Vp-p, noise width: 1 μs, measured by a noise simulator with noise frequency ranging from 25 Hz to 60 Hz		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	1500 V AC for 1 minute across power terminals and earth		350 V AC for 1 minute across power terminals and earth	
Insulation resistance	500 V DC across power terminals and earth, 10 MΩ or more by an insulation resistance tester			



GT21 wide model/GT21 model

General specifications

Item	Specifications						
Operating ambient temperature ^{*1}	0 °C to 55 °C ^{*7} (horizontal installation), 0 °C to 50 °C (vertical installation)						
Storage ambient temperature	-20 °C to 60 °C						
Operating ambient humidity	10% RH to 90% RH, non-condensing ^{*2}						
Storage ambient humidity	10% RH to 90% RH, non-condensing ^{*2}						
Vibration resistance	Compliant with JIS B 3502 and IEC 61131-2						
	Frequency	5 to 8.4 Hz	Acceleration	—	Half amplitude	3.5 mm	Sweep count 10 times in each X, Y, or Z direction
	Under intermittent vibration	8.4 to 150 Hz	9.8 m/s ²	—	—		
	Under continuous vibration	5 to 8.4 Hz	—	1.75 mm	—	—	
8.4 to 150 Hz	4.9 m/s ²	—	—	—			
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 (147 m/s ² (15G), 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 ^{*3}	2000 m or less						
Installation location	Inside control panel						
Overvoltage category ^{*4}	II or less						
Pollution degree ^{*5}	2 or less						
Cooling method	Self-cooling						
Grounding	GT2107-W: 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. GT2104, GT2103: Grounding with a ground resistance of 100 Ω or less by using a ground cable that has a cross-sectional area of 0.14 to 1.5 mm ² (single wire), 0.14 to 1.0 mm ² (stranded wire), or 0.25 to 0.5 mm ² (rod terminal with an insulation sleeve). If impossible, connect the ground cable to the control panel. ^{*6}						

- ^{*1} Includes the temperature inside the enclosure of the control panel to which the GOT is installed.
- ^{*2} If the ambient temperature exceeds 40 °C, the absolute humidity must not exceed 90% RH at 40 °C.
- ^{*3} 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.
- ^{*4} 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.
- ^{*5} 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.
- ^{*6} 5 V DC type does not require grounding.
- ^{*7} When a protective cover for oil is mounted on the GOT, the maximum operating ambient temperature must be 5°C lower than the one described in the general specifications.

Operate and store the GOT in environments without direct sunlight, high temperature, dust, humidity, and vibrations.

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/).

Performance specifications

Item	Specifications	
	GT21 wide model	GT21 model
	GT2107-WTBD	GT2107-WTSD
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 *11}	Type	Analog resistive film
	Key size	Minimum 2 × 2 dots ^{*9} (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	Black	Silver ^{*15}
User memory	User memory capacity	Memory for storage (ROM) ^{*12} : 15 MB
	Life (number of write times)	100000 times
Built-in clock precision	±45 seconds/month (ambient temperature: 25 °C)	
Battery	GT11-50BAT lithium battery	
	Data to be backed up	SPRAM data, clock 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)
	RS-422	—
	Ethernet	1 channel Data transfer method: 100BASE-TX, 10BASE-T Connector shape: RJ-45 (modular jack)
	USB (host)	1 channel (rear face) USB version: USB 1.1 (Full-Speed 12 Mbps), Connector shape: USB-A
	USB (device)	1 channel (front face) USB version: USB 1.1 (Full-Speed 12 Mbps), Connector shape: USB Mini-B
	SD memory card ^{*12}	1 channel, SDHC compliant (maximum 32 GB)
	Buzzer output	Single tone (tone length adjustable)
Protective structure ^{*7}	Front: IP67F ^{*10 *14} Inside control panel: IP2X	
Safety standards, radio laws (as of December 2019)	CE, UL, cUL, EAC, KC	
External dimensions	189(7.44) (W) × 142(5.59) (H) × 48(1.89) (D) mm (inch)	
Panel cut dimensions	180.5(7.11) (W) × 133.5(5.26) (H) mm (inch)	
Weight (excluding a fitting)	0.7(1.54) kg (lb)	
Compatible software package	GT Works3 Version1.225K 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} The SD memory card unit (GT21-03SDCD), sold separately, needs to be mounted.
- ^{*7} 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 dimension when the SD memory card unit (GT21-03SDCD) is mounted is 113(4.45) (W) × 74(2.91) (H) × 32(1.26) (D) mm (inch).
- ^{*9} 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 (GT2107-WTBD, GT2107-WTSD)
- ^{*10} The suffix "F" of IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.
- ^{*11} Repeatedly touching the outer edge of the actual display area may cause the product to fail.

Power supply specifications

Item	Specifications						
	GT21 wide model	GT21 model					
	GT2107-WTBD GT2107-WTSD	GT2104-RTBD	GT2103-PMBD	GT2103-PMBDS	GT2103-PMBDS2	GT2103-PMBLS	
Power supply voltage	24 V DC (+10%, -15%)					5 V DC (+5%, -5%) Power from the PLC	
Power supply frequency	—						
Power consumption	Under the maximum load	11.3 W or less	4.4 W or less	2.6 W or less	1.9 W or less	2.2 W or less	1.1 W or less
	Main unit (backlight OFF)	7.0 W	2.9 W	2.0 W	1.3 W	1.6 W	0.7 W
Inrush current	35 A or less (3 ms, ambient temperature: 25 °C, under the maximum load)	18 A or less (2 ms, ambient temperature: 25 °C, under the maximum load)	30 A or less (1 ms, ambient temperature: 25 °C, under the maximum load)			—	
Permissible instantaneous power failure time	5 ms or less					—	
Noise immunity	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	500 V AC for 1 minute across power terminals and earth					—	
Insulation resistance	500 V DC across power terminals and earth, 10 MΩ or more by an insulation resistance tester					—	

Item	Specifications					
	GT21 model					
	GT2104-RTBD	GT2103-PMBD	GT2103-PMBDS	GT2103-PMBDS2	GT2103-PMBLS	
Display section *1 *2	Display device	TFT color LCD				
	Screen size	4.3"				
	Resolution	480 × 272 dots				
	Display size	95.0(3.74) (W) × 53.8(2.12) (H) mm(inch)				
	Number of displayed characters	16-dot standard font: 30 characters × 17 lines (two-byte characters) 12-dot standard font: 40 characters × 22 lines (two-byte characters)				
	Display color	65536 colors				
	Brightness adjustment	32 levels				
	Backlight	LED (not replaceable)				
Touch panel *3 *11	Type	Analog resistive film				
	Key size	Minimum 2 × 2 dots *9 (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	Black					
User memory	User memory capacity	Memory for storage (ROM) *12: 9 MB				
	Life (number of write times)	100000 times				
Built-in clock precision	±45 seconds/month (ambient temperature: 25 °C)					
Battery	Data to be backed up	SRAM data, clock data				
	Life	Approx. 5 years (ambient temperature: 25 °C)				
		GT11-50BAT lithium battery				
Built-in interface	RS-232	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 9-pin connector terminal block	—	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: MINI-DIN 6-pin (female)	2 channels Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 9-pin connector terminal block, MINI-DIN 6-pin (female)	
	RS-422/485	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 9-pin connector terminal block	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 5-pin connector terminal block	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 9-pin connector terminal block	—	
	RS-422	—			1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: 9-pin connector terminal block *13	
	Ethernet	1 channel Data transfer method: 100BASE-TX, 10BASE-T Connector shape: RJ-45 (modular jack)		—		
	USB (device)	1 channel (rear face) USB version: USB 1.1 (Full-Speed 12 Mbps), Connector shape: USB Mini-B				
	SD memory card *12	1 channel, SDHC compliant (maximum 32 GB)	1 channel, SDHC compliant (maximum 32 GB) *6			—
Buzzer output	Single tone (tone length adjustable)					
Protective structure *7	Front: IP67F *10 Inside control panel: IP2X					
Safety standards, radio laws (as of December 2019)	CE, UL, cUL, EAC, KC					
External dimensions	128(5.04) (W) × 102(4.02) (H) × 40(1.57) (D) mm(inch)	113(4.45) (W) × 74(2.91) (H) × 32(1.26) (D) mm(inch)	113(4.45) (W) × 74(2.91) (H) × 27(1.06) (D) mm(inch) *8		113(4.45) (W) × 74(2.91) (H) × 27(1.06) (D) mm(inch)	
Panel cut dimensions	118(4.65) (W) × 92(3.62) (H) mm(inch)					
Weight (excluding a fitting)	0.4(0.88) kg(lb)			0.2(0.44) kg(lb)		
Compatible software package	GT Works3 Version1.225K or later					

*12 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.

*13 Use a 3 m or shorter cable.

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

*15 The lower part of the panel including the USB environmental protection cover is black.

GS21 model

General specifications

Item	Specifications					
Operating ambient temperature *1	0 °C to 50 °C					
Storage ambient temperature	-20 °C to 60 °C					
Operating ambient humidity	10% RH to 90% RH, non-condensing *2					
Storage ambient humidity	10% RH to 90% RH, non-condensing *2					
Vibration resistance	Compliant with IEC 61131-2	Under intermittent vibration	Frequency	Acceleration	Half amplitude	Sweep count
			5 to 8.4 Hz	—	3.5 mm	
		Under continuous vibration	8.4 to 150 Hz	9.8 m/s ²	—	10 times in each X, Y, or Z direction
			5 to 8.4 Hz	—	1.75 mm	
		8.4 to 150 Hz	4.9 m/s ²	—	—	
Shock resistance	Compliant with IEC 61131-2 (147 m/s ² (15G), 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 *3	2000 m or less					
Installation location	Inside control panel					
Overvoltage category *4	II or less					
Pollution degree *5	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 If the ambient temperature exceeds 40 °C, the absolute humidity must not exceed 90% RH at 40 °C.
- *3 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.
- *4 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.
- *5 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.

Operate and store the GOT in environments without direct sunlight, high temperature, dust, humidity, and vibrations.

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).

Performance specifications

Item	Specifications	
	GS2110-WTBD	GS2107-WTBD
Display section *1 *2	Display device	TFT color LCD
	Screen size	10" widescreen
	Resolution	WVGA: 800 × 480 dots
	Display size	W222(8.74) × H132.5(5.22) [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
Touch panel *3 *9	Backlight *4	LED (not replaceable)
	Type	Analog resistive film
	Key size	Minimum 2 × 2 dots *7 (per key)
Panel color	Simultaneous press	Not available *5 (Only 1 point can be touched.)
	Life	1 million touches or more (operating force: 0.98 N or less)
User memory	Flash memory (Internal): 9 MB	Black
	User memory capacity	100000 times
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	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (female) Terminating resistor: 330 Ω fixed
	Ethernet	1 channel Data transfer method: 100BASE-TX, 10BASE-T Connector shape: RJ-45 (modular jack)
	USB (device)	1 channel (rear face) USB version: USB 1.1 (Full-Speed 12 Mbps), Connector shape: USB Mini-B
Buzzer output	SD memory card *10	1 channel, SDHC compliant (maximum 32 GB)
Protective structure *6	Single tone (tone length adjustable)	Front: IP65F *8
Safety standards, radio laws (as of December 2019)	CE, UL, cUL, EAC, KC	
External dimensions	272(10.71) (W) × 214(8.43) (H) × 56(2.21) (D) mm(inch)	206(8.11) (W) × 155(6.11) (H) × 50(1.97) (D) mm(inch)
Panel cut dimensions	258(10.16) (W) × 200(7.88) (H) mm(inch)	191(7.52) (W) × 137(5.40) (H) mm(inch)
Weight (excluding a fitting)	1.3(2.9) kg(lb)	0.9(2.0) kg(lb)
Compatible software package	GT Works3 Version1.225K or later *11	

- *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 IP65F 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.
- *11 When the software is earlier than GT Works3 Version1.215Z, installation of the GS installer is required.

Power supply specifications

Item	Specifications	
	GS2110-WTBD	GS2107-WTBD
Power supply voltage	24 V DC (+10%, -15%), ripple voltage 200 mV or less	
Power consumption	Under the maximum load	7.6 W (317 mA/24 V) or less
	Main unit (backlight OFF)	3.8 W (158 mA/24 V) or less
Inrush current	17 A or less (6 ms, ambient temperature 25°C, under the maximum load)	
Permissible instantaneous power failure time	Within 5 ms	
Noise immunity	Conforms to IEC61000-4-4, 2 kV (power supply line)	
Withstand voltage	350 V AC for 1 minute across power terminals and earth	
Insulation resistance	500 V DC across power terminals and earth, 10 MΩ or more by an insulation resistance tester	



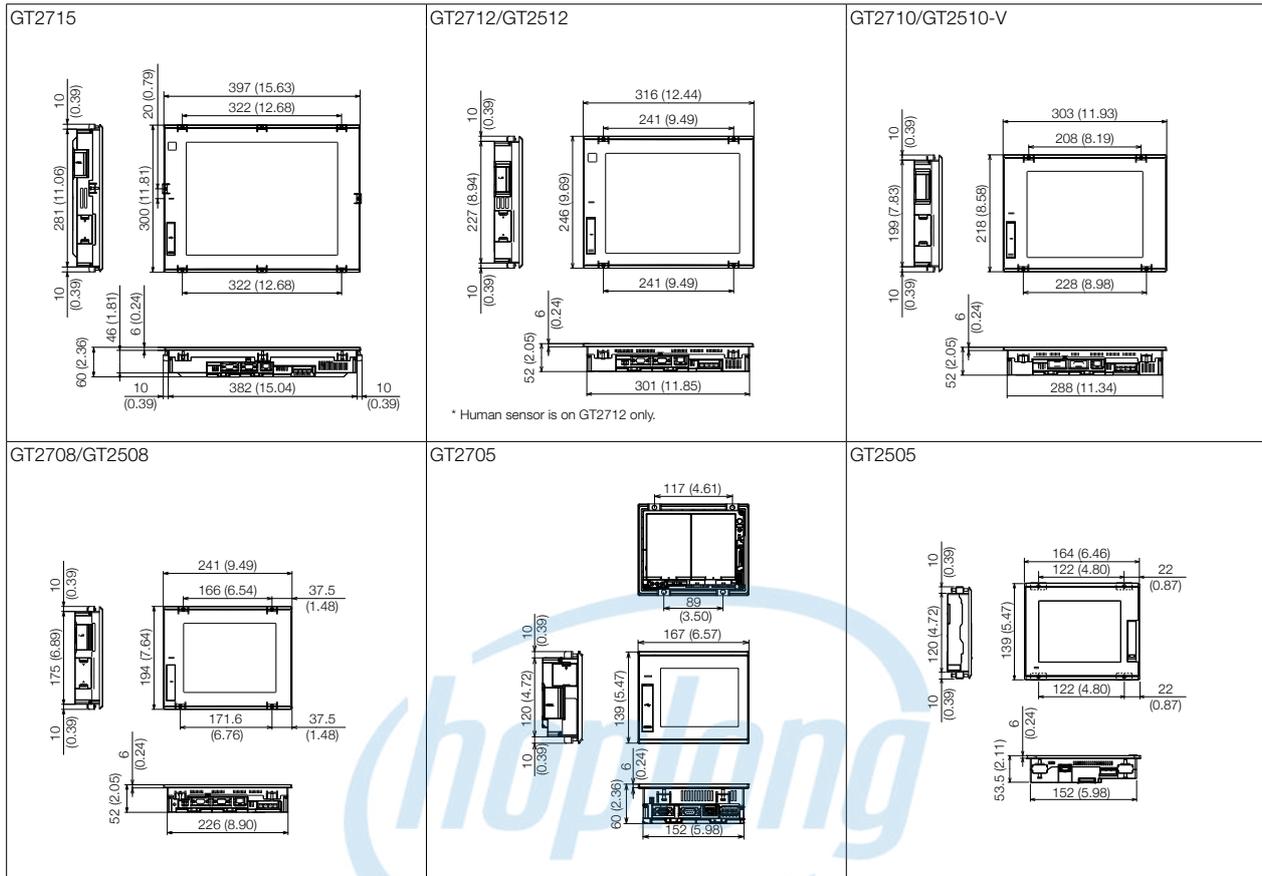
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GT27 model/GT25 model

* For the external dimensions and panel cut dimensions of GT25 wide models, GT25 handy GOT, and GT25 rugged model, please refer to pages 140 and 141.

External dimensions

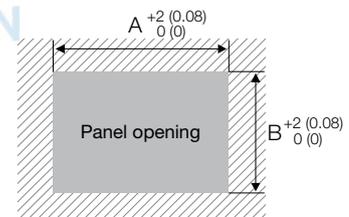
Unit: mm (inch)



Panel cut dimensions

Unit: mm (inch)

Screen size	Model	A	B	Remarks
15"	GT2715	383.5 (15.10)	282.5 (11.12)	Same dimensions as GT1695, GT1595.
12.1"	GT2712 GT2512	302 (11.89)	228 (8.98)	Same dimensions as GT1685, GT1585, A985GOT.
10.4"	GT2710 GT2510-V	289 (11.38)	200 (7.87)	Same dimensions as GT167□, GT157□, GT1275, A97□GOT.
8.4"	GT2708 GT2508	227 (8.94)	176 (6.93)	Same dimensions as GT166□, GT156□, GT1265.
5.7"	GT2705 GT2505	153 (6.02)	121 (4.76)	Same dimensions as GT1655, GT155□, GT145□, GT115□, GT105□, F940GOT.

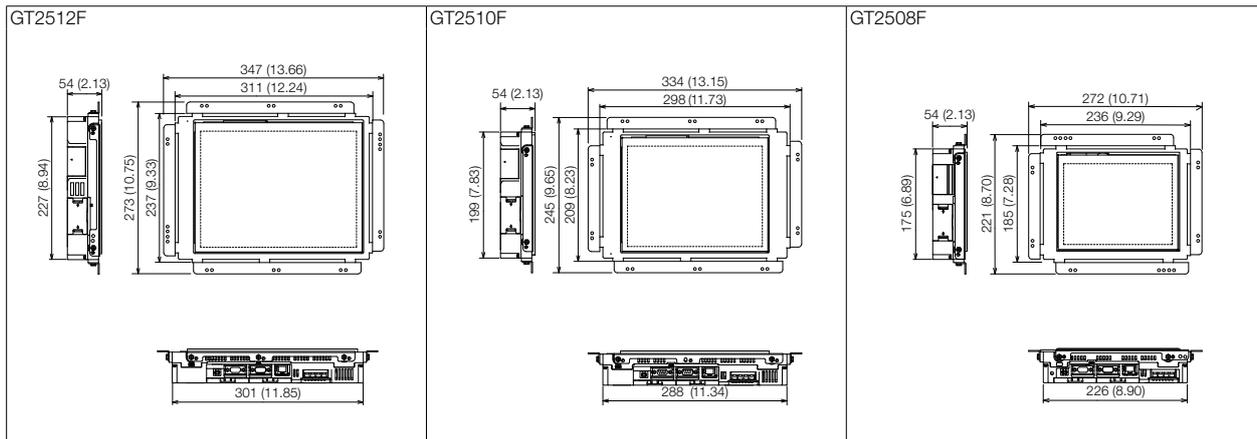


* Panel thickness: 1.6 mm to 4 mm
(0.06 inch to 0.16 inch)

GT25 open frame model

External dimensions

Unit: mm (inch)



* Install the fittings on the top and bottom, or the right and left of the GOT.

Panel cut dimensions/Measurements based on the screen center

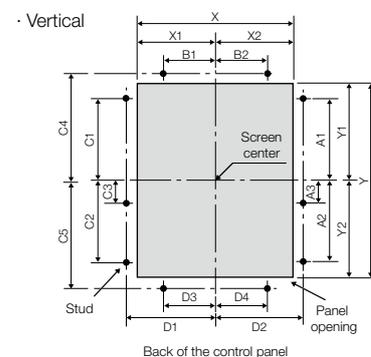
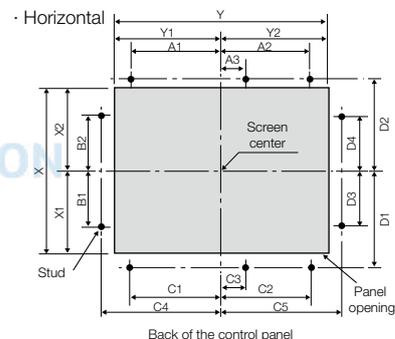
Unit: mm (inch)

Screen size	Model	Panel cutting dimensions		Measurements based on the screen center			
		X	Y	X1	X2	Y1	Y2
12.1"	GT2512F	214(8.43) (+2(0.08), 0(0))	269(10.59) (+2(0.08), 0(0))	103(4.06) (+2(0.08), 0(0))	(111(4.37))	134.5(5.30) (+1(0.04), 0(0))	(134.5(5.30))
10.4"	GT2510F	187(7.36) (+2(0.08), 0(0))	234(9.21) (+2(0.08), 0(0))	89.5(3.52) (+1(0.04), 0(0))	(97.5(3.84))	117(4.61) (+1(0.04), 0(0))	(117(4.61))
8.4"	GT2508F	158(6.22) (+2(0.08), 0(0))	194(7.64) (+2(0.08), 0(0))	75.25(2.96) (+1(0.04), 0(0))	(82.75(3.26))	97.5(3.84) (+1(0.04), 0(0))	(96.5(3.80))

Screen size	Model	Distance between studs *				
		A1	A2	A3	B1	B2
12.1"	GT2512F	98(3.86)± 0.15(0.01)	113(4.45)± 0.15(0.01)	7.5(0.30)± 0.15(0.01)	75.5(2.97)± 0.15(0.01)	79.5(3.13)± 0.15(0.01)
10.4"	GT2510F	105.5(4.15)± 0.15(0.01)	105.5(4.15)± 0.15(0.01)	0(0)	58(2.28)± 0.15(0.01)	58(2.28)± 0.15(0.01)
8.4"	GT2508F	64.5(2.54)± 0.15(0.01)	74.5(2.93)± 0.15(0.01)	—	58(2.28)± 0.15(0.01)	58(2.28)± 0.15(0.01)

Screen size	Model	Distance between studs *				
		C1	C2	C3	C4	C5
12.1"	GT2512F	98(3.86)± 0.15(0.01)	113(4.45)± 0.15(0.01)	7.5(0.30)± 0.15(0.01)	160(6.30)± 0.15(0.01)	175(6.89)± 0.15(0.01)
10.4"	GT2510F	105.5(4.15)± 0.15(0.01)	105.5(4.15)± 0.15(0.01)	0(0)	161(6.34)± 0.15(0.01)	161(6.34)± 0.15(0.01)
8.4"	GT2508F	64.5(2.54)± 0.15(0.01)	74.5(2.93)± 0.15(0.01)	—	126(4.96)± 0.15(0.01)	134(5.28)± 0.15(0.01)

Screen size	Model	Distance between studs *			
		D1	D2	D3	D4
12.1"	GT2512F	128.5(5.06)± 0.15(0.01)	132.5(5.22)± 0.15(0.01)	75.5(2.97)± 0.15(0.01)	79.5(3.13)± 0.15(0.01)
10.4"	GT2510F	114.5(4.51)± 0.15(0.01)	118.5(4.67)± 0.15(0.01)	58(2.28)± 0.15(0.01)	58(2.28)± 0.15(0.01)
8.4"	GT2508F	104.5(4.11)± 0.15(0.01)	104.5(4.11)± 0.15(0.01)	58(2.28)± 0.15(0.01)	58(2.28)± 0.15(0.01)



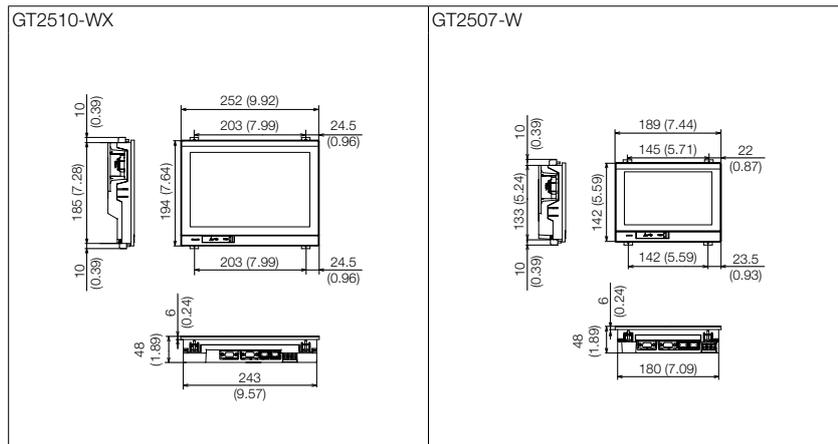
* Panel thickness: 1.5 mm to 4 mm
(0.06 inch to 0.16 inch)

* To mount the GOT on the control panel, studs are necessary. Align the studs with the installation holes of the fittings, and install the studs. The fittings must be installed on the top and bottom, or the right and left of the GOT. For GT2512F, you are recommended to install the fittings on the long sides of the GOT.

GT25 wide model

External dimensions

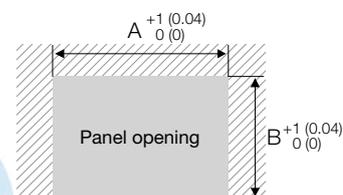
Unit: mm (inch)



Panel cut dimensions

Unit: mm (inch)

Screen size	Model	A	B	Remarks
10.1" widescreen	GT2510-WX	243.5 (9.59)	185.5 (7.30)	—
7" widescreen	GT2507-W	180.5 (7.11)	133.5 (5.26)	—

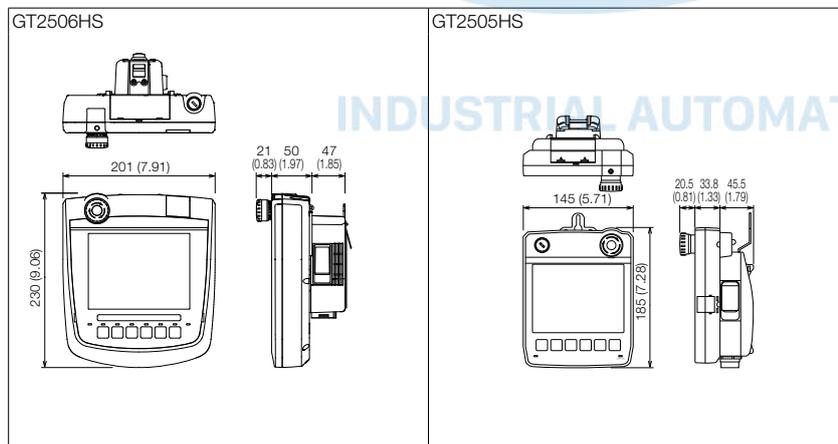


* Panel thickness: 1.6 mm to 4 mm (0.06 inch to 0.16 inch)

GT25 handy GOT

External dimensions

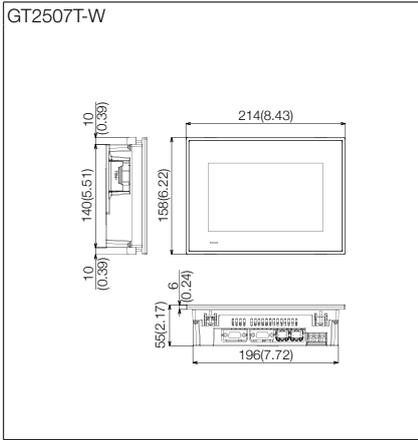
Unit: mm (inch)



GT25 rugged model

External dimensions

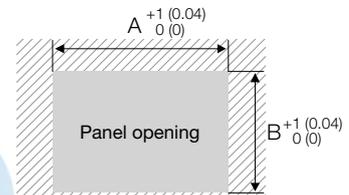
Unit: mm (inch)



Panel cut dimensions

Unit: mm (inch)

Screen size	Model	A	B	Remarks
7" widescreen	GT2507T-W	197 (7.76)	141 (5.55)	—

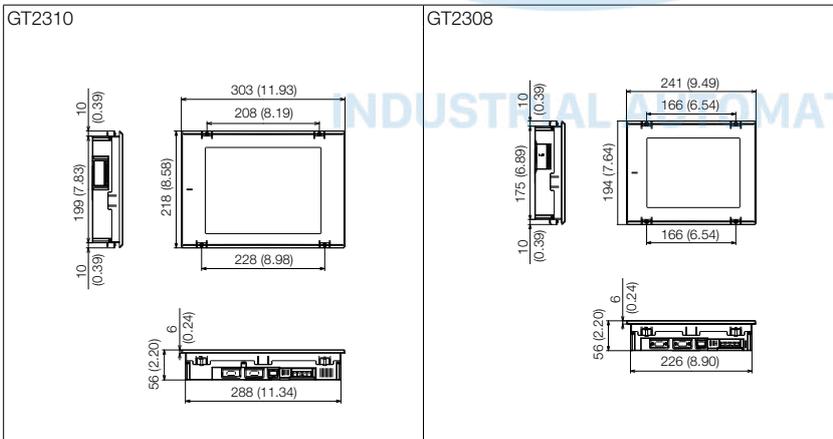


* Panel thickness: 1.6 mm to 4 mm
(0.06 inch to 0.16 inch)

GT23 model

External dimensions

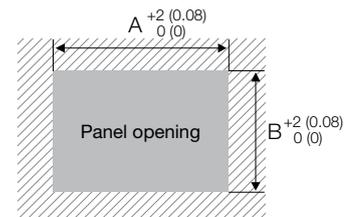
Unit: mm (inch)



Panel cut dimensions

Unit: mm (inch)

Screen size	Model	A	B	Remarks
10.4"	GT2310	289 (11.38)	200 (7.87)	Same dimensions as GT167□, GT157□, GT1275, A97□GOT.
8.4"	GT2308	227 (8.94)	176 (6.93)	Same dimensions as GT166□, GT156□, GT1265.



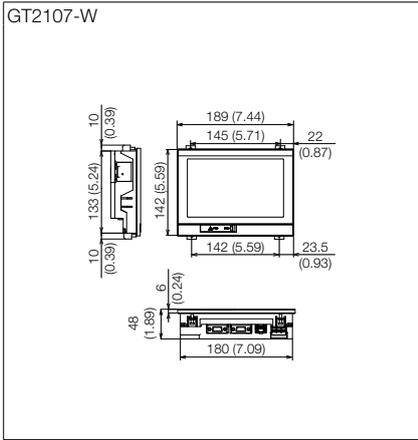
* Panel thickness: 1.6 mm to 4 mm
(0.06 inch to 0.16 inch)

GT21 wide model

External dimensions

Unit: mm (inch)

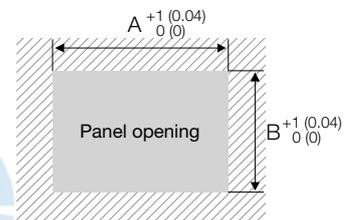
GT2107-W



Panel cut dimensions

Unit: mm (inch)

Screen size	Model	A	B	Remarks
7" widescreen	GT2107-W	180.5 (7.11)	133.5 (5.26)	—



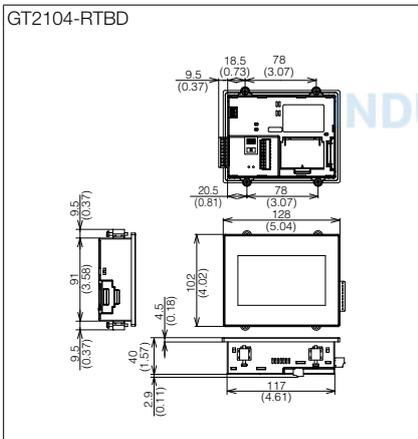
* Panel thickness: 1.6 mm to 4 mm
(0.06 inch to 0.16 inch)

GT21 model

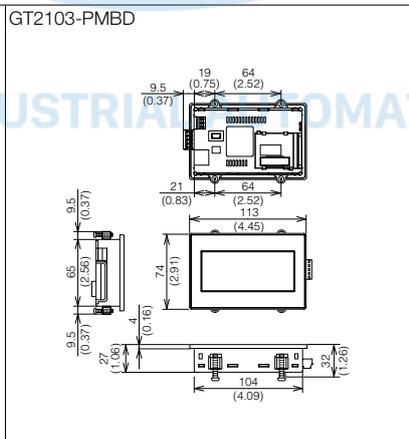
External dimensions

Unit: mm (inch)

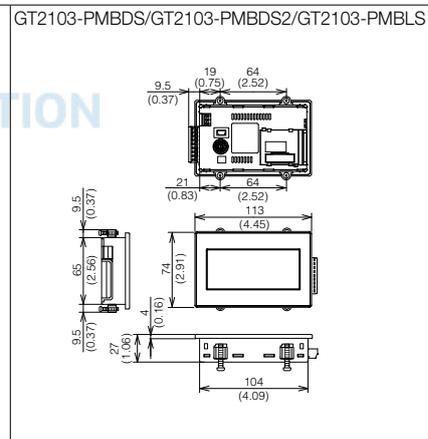
GT2104-RTBD



GT2103-PMBD



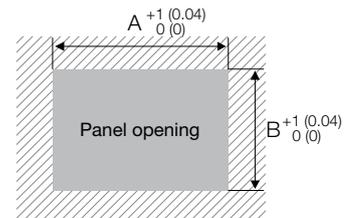
GT2103-PMBDS/GT2103-PMBDS2/GT2103-PMBLS



Panel cut dimensions

Unit: mm (inch)

Screen size	Model	A	B	Remarks
4.3"	GT2104	118 (4.65)	92 (3.62)	—
3.8"	GT2103	105 (4.13)	66 (2.60)	Same dimensions as GT1020.

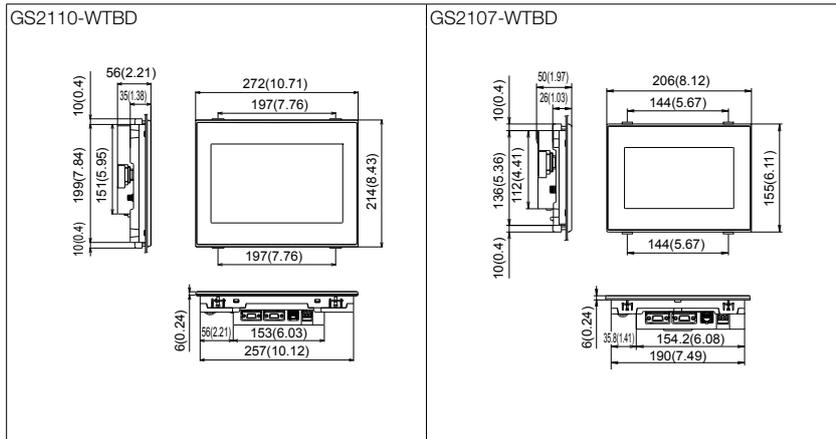


* Panel thickness: 1 mm to 4 mm
(0.04 inch to 0.16 inch)

GS21 model

External dimensions

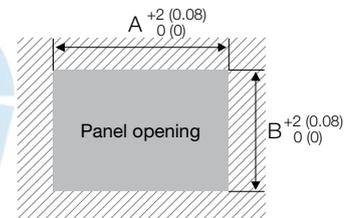
Unit: mm (inch)



Panel cut dimensions

Unit: mm (inch)

Screen size	Model	A	B	Remarks
10" widescreen	GS2110-W	258 (10.16)	200 (7.88)	—
7" widescreen	GS2107-W	191 (7.52)	137 (5.40)	—



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

INDUSTRIAL AUTOMATION

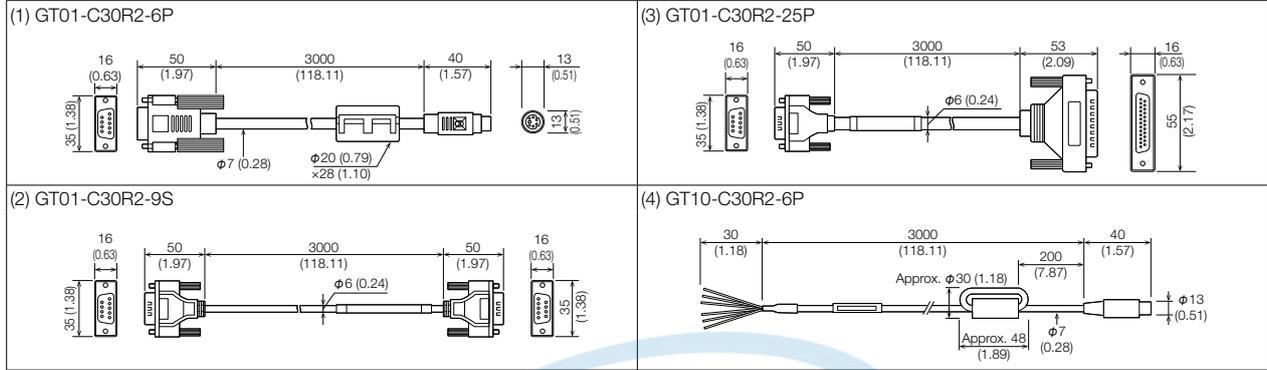
Communication cable

External dimensions

RS-232 connection cable connector

Cable model	Cable length (m(ft.))	External dimensions
GT01-C30R2-6P	3(10)	(1)
GT01-C30R2-9S	3(10)	(2)
GT01-C30R2-25P	3(10)	(3)
GT10-C30R2-6P	3(10)	(4)

Unit: mm (inch)

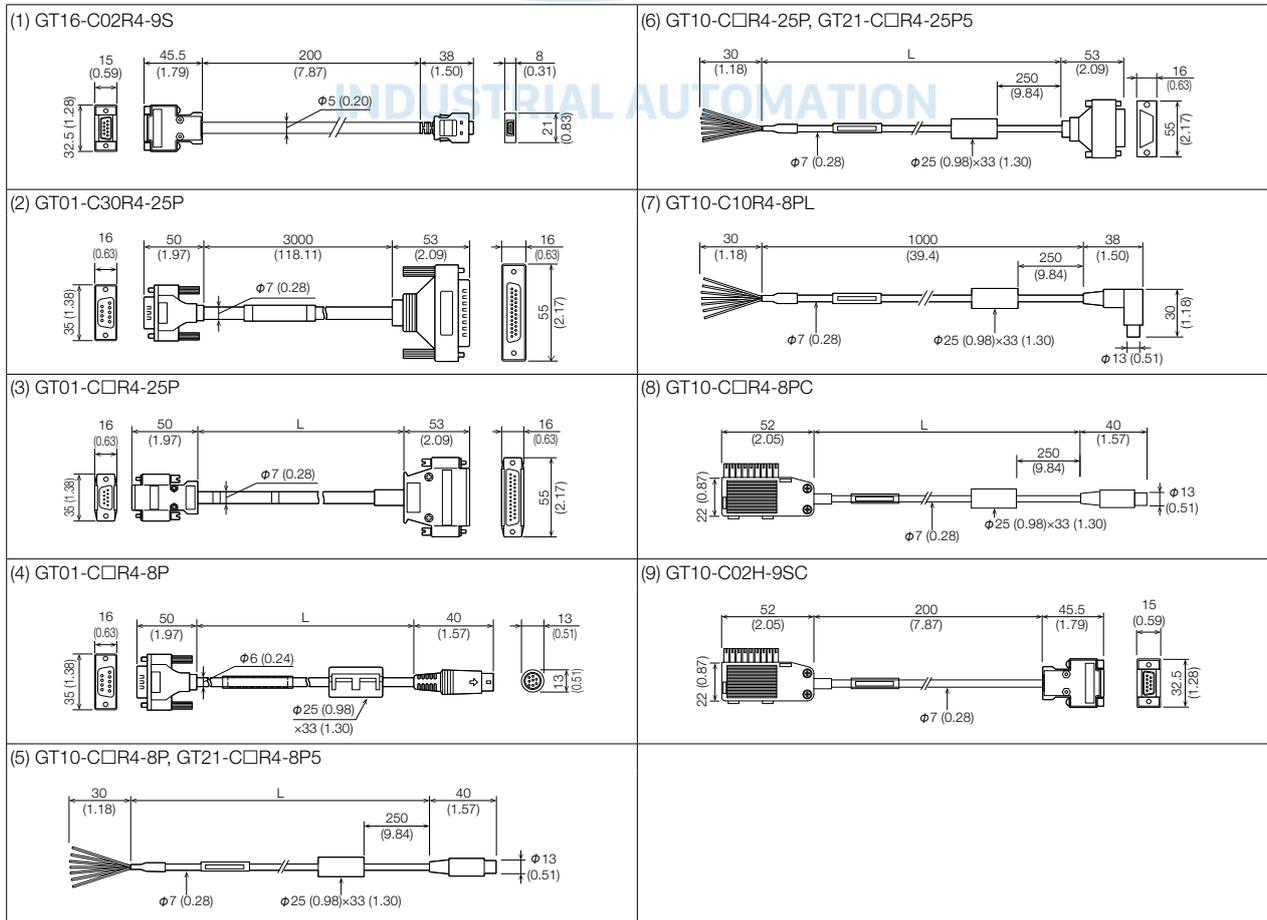


RS-422 connection cable connector

Cable model	Cable length (m(ft.))	External dimensions
GT16-C02R4-9S	0.2(0.7)	(1)
GT01-C30R4-25P	3(10)	(2)
GT01-C□R4-25P	10(33), 20(66), 30(98)	(3)
GT01-C□R4-8P	1(3), 3(10), 10(33), 20(66), 30(98)	(4)
GT10-C□R4-8P	1(3), 3(10), 10(33), 20(66), 30(98)	(5)
GT10-C□R4-25P	3(10), 10(33), 20(66), 30(98)	(6)

Cable model	Cable length (m(ft.))	External dimensions
GT21-C□R4-8P5	1(3), 3(10), 10(33), 20(66), 30(98)	(5)
GT21-C□R4-25P5	3(10), 10(33), 20(66), 30(98)	(6)
GT10-C10R4-8PL	1(3)	(7)
GT10-C□R4-8PC	1(3), 3(10), 10(33), 20(66), 30(98)	(8)
GT10-C02H-9SC	0.2(0.7)	(9)

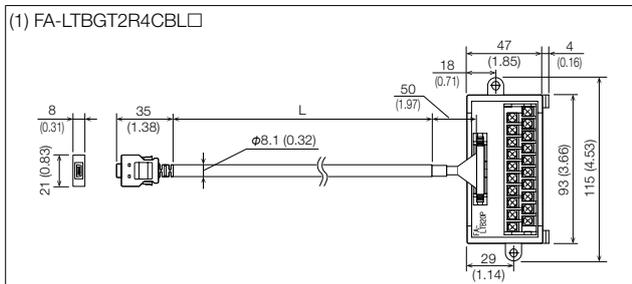
Unit: mm (inch)



■ RS-485 terminal block conversion unit

Cable model	Cable length (m(ft.))	External dimensions
FA-LTBGT2R4CBL□	0.5(1.6), 1(3.3), 2(6.6)	(1)

Unit: mm (inch)

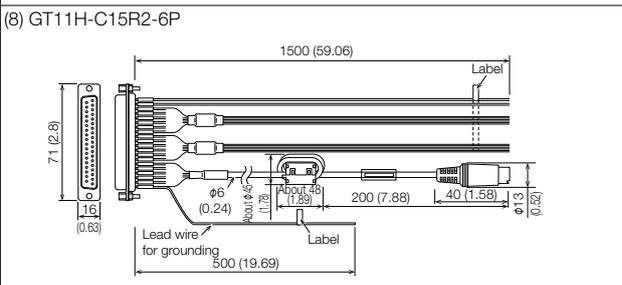
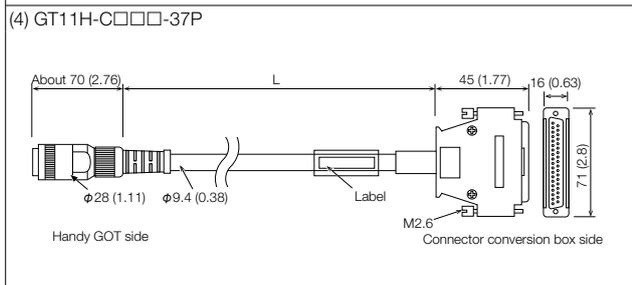
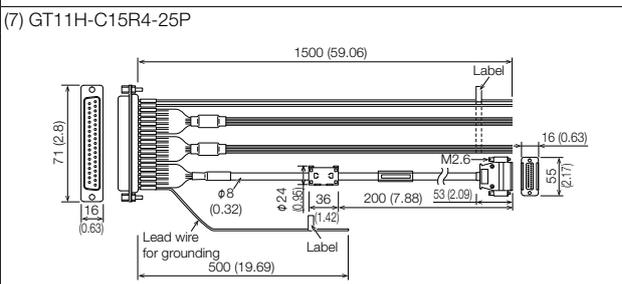
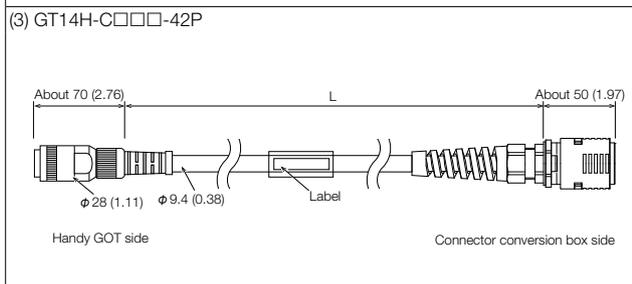
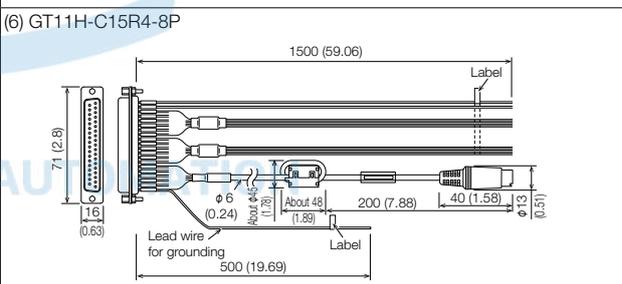
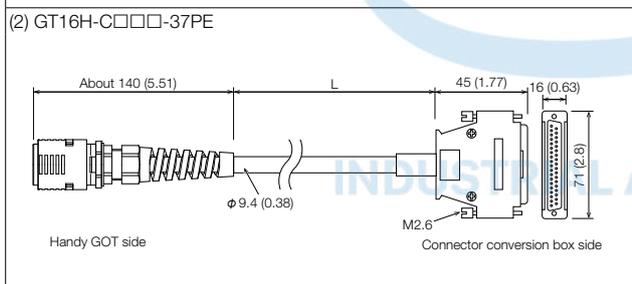
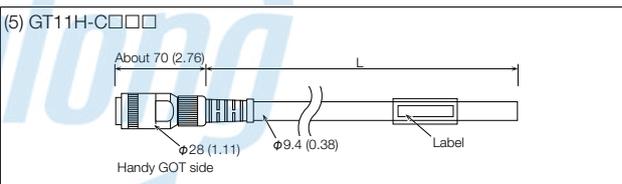
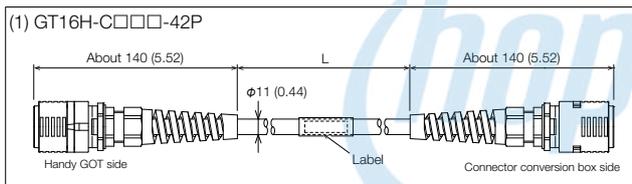


■ Connection cable for Handy GOT

Cable model	Cable length (m(ft.))	External dimensions
GT16H-C□□□-42P	3(10), 6(20), 10(33)	(1)
GT16H-C□□□-37PE	3(10), 6(20), 10(33)	(2)
GT14H-C□□□-42P	3(10), 6(20), 10(33)	(3)
GT11H-C□□□-37P	3(10), 6(20), 10(33)	(4)

Cable model	Cable length (m(ft.))	External dimensions
GT11H-C□□□	3(10), 6(20), 10(33)	(5)
GT11H-C15R4-8P	15(49)	(6)
GT11H-C15R4-25P	15(49)	(7)
GT11H-C15R2-6P	15(49)	(8)

Unit: mm (inch)

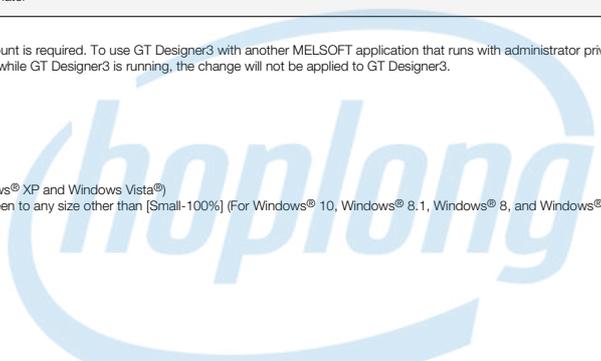


Operating environment

MELSOFT GT Works3 Version1 (English Version) operating environment

Item	Description
Personal computer	Personal computer that Windows® runs on.
OS (English, Simplified Chinese, Traditional Chinese, Korean, or German version)	Microsoft® Windows® 10 (Enterprise, Pro) (64 bit/32 bit) *1 *3 *5 *7 *8 *9 Microsoft® Windows® 10 (Home) (64 bit/32 bit) *1 *3 *5 *8 *9 Microsoft® Windows® 10 (IoT Enterprise 2016 LTSC) (64 bit) (English OPK, or English OPK and a language pack for localization) *1 *3 *5 *7 *8 *9 Microsoft® Windows® 8.1 (Enterprise, Pro) (64 bit/32 bit) *1 *3 *5 *6 *7 Microsoft® Windows® 8.1 (64 bit/32 bit) *1 *3 *5 *6 Microsoft® Windows® 8 (Enterprise, Pro) (64 bit/32 bit) *1 *3 *5 *6 *7 Microsoft® Windows® 8 (64 bit/32 bit) *1 *3 *5 *6 Microsoft® Windows® 7 (Enterprise, Ultimate, Professional) (64 bit/32 bit) *1 *3 *4 *5 Microsoft® Windows® 7 (Home Premium) (64 bit/32 bit) *1 *3 *5 Microsoft® Windows® 7 (Starter) (32 bit) *1 *3 Microsoft® Windows Vista® (Enterprise, Ultimate, Business, Home Premium, Home Basic) (32 bit) Service Pack1 or later *1 *3 Microsoft® Windows® XP (Professional, Home Edition) (32 bit) Service Pack3 or later *2 *3
CPU	Intel® Core™2 Duo Processor 2.0 GHz or more recommended
Memory	For a 64-bit OS: 2 GB or more recommended For a 32-bit OS: 1 GB or more recommended
Display	Resolution XGA (1024 × 768 dots) or higher
Hard disk space	For installation: 5 GB or more recommended For execution: 512 MB or more recommended
Display color	High Color (16 bits) or higher
Other hardware	Use the hardware compatible with the above OS. • For installation: mouse, keyboard, DVD-ROM drive • For execution: mouse, keyboard • For printing: printer Use the following hardware when required. • For simulation (only when outputting the buzzer sound): sound card, speaker
Compatible GOT	GOT2000 Series, GOT1000 Series
Applicable software version	GT Works3 Version 1.225K or later

- *1 For installation, administrator privileges are required.
 For startup, the standard user or administrator account is required. To use GT Designer3 with another MELSOFT application that runs with administrator privileges, run GT Designer3 with administrator privileges.
 If you change any setting of the personal computer while GT Designer3 is running, the change will not be applied to GT Designer3.
- *2 For installation, administrator privileges are required.
- *3 The following functions are not supported.
 • Application start in Windows compatibility mode
 • Fast user switching
 • Change your desktop themes (fonts)
 • Remote desktop
 • DPI setting other than the normal size (For Windows® XP and Windows Vista®)
 • Setting the size of text and illustrations on the screen to any size other than [Small-100%] (For Windows® 10, Windows® 8.1, Windows® 8, and Windows® 7)
- *4 Windows XP Mode is not supported.
- *5 The touch feature is not supported.
- *6 Modern UI Style is not supported.
- *7 Hyper-V is not supported.
- *8 Tablet mode is not supported.
- *9 Unified Write Filter is not supported.



GT SoftGOT2000 Version1 (English Version) operating environment

Item	Description
Personal computer	Personal computer that Windows® runs on. PPC-852-21G, and PPC-852-22F manufactured by CONTEC CO., LTD *9 MELIPC (MI5122-VW, MI3321G-W, MI3315G-W, MI2012-W, MI2012-W-CL) *15
OS (English, Simplified Chinese, Traditional Chinese, Korean, or German version)	Microsoft® Windows Server® 2016 (Standard) (64 bit) *1 *3 *5 *7 Microsoft® Windows Server® 2012 (R2 Standard) (64 bit) *1 *3 *5 *6 *7 Microsoft® Windows Server® 2008 (R2 Enterprise, R2 Standard) (64 bit) *1 *3 *4 *5 Microsoft® Windows® 10 (Enterprise, Pro) (64 bit/32 bit) *1 *3 *5 *7 Microsoft® Windows® 10 (Home) (64 bit/32 bit) *1 *3 *5 Microsoft® Windows® 10 (IoT Enterprise 2019 LTSC) (64 bit) (English OPK, or English OPK and a language pack for localization) *1 *3 *5 *7 *12 *13 Microsoft® Windows® 10 (IoT Enterprise 2016 LTSC) (64 bit) (English OPK, or English OPK and a language pack for localization) *1 *3 *5 *7 *12 *13 Microsoft® Windows® 8.1 (Enterprise, Pro) (64 bit/32 bit) *1 *3 *5 *6 *7 Microsoft® Windows® 8.1 (64 bit/32 bit) *1 *3 *5 *6 Microsoft® Windows® 8 (Enterprise, Pro) (64 bit/32 bit) *1 *3 *5 *6 *7 Microsoft® Windows® 8 (64 bit/32 bit) *1 *3 *5 *6 Microsoft® Windows® 7 (Enterprise, Ultimate, Professional) (64 bit/32 bit) *1 *3 *4 *5 Microsoft® Windows® 7 (Home Premium) (64 bit/32 bit) *1 *3 *5 Microsoft® Windows® 7 (Starter) (32 bit) *1 *3 Microsoft® Windows Vista® (Enterprise, Ultimate, Business, Home Premium, Home Basic) (32 bit) Service Pack1 or later *1 *3 Microsoft® Windows® XP (Professional, Home Edition) (32 bit) Service Pack3 or later *2 *3 Microsoft® Windows® XP Embedded (32 bit) *2 *3 *8
CPU	Intel® Core™2 Duo Processor 2.0 GHz or more recommended
Memory	For a 64-bit OS: 2 GB or more recommended For a 32-bit OS: 1 GB or more recommended
Display	Resolution XGA (1024 x 768 dots) or higher
Hard disk space *10	For installation: 5 GB or more recommended For execution: 512 MB or more recommended
Display color	High Color (16 bits) or higher
Hardware	GT27-SGTKEY-U (license key (for USB port))
Other software	The following software is required to create the project data. • GT Designer3 Version1.100E or later *11 *14 The following software is required for interaction with PX Developer. • PX Developer Version1.40S or later • GT Designer3 Version1.105K or later *11 The following software is required to connect with GX Simulator. • GX Simulator Version5.00A or later The following software is required to connect with GX Simulator2. • GX Works2 Version1.12N or later The following software is required to connect with GX Simulator3. • GX Works3 Version1.007H or later The following software is required to connect with MT Simulator2. • MT Works2 Version1.70Y or later The following software is required to use the OPC UA client connection. • GT OPC UA Client *16
Other hardware	Use the hardware compatible with the above OS. • For installation: mouse, keyboard, DVD-ROM drive • For execution: mouse, keyboard • For printing: printer Prepare the following hardware if necessary. • For execution (only when outputting buzzer sound or others): sound function, speaker

- *1 Administrator authority is required for installing and using GT SoftGOT2000.
To use GT SoftGOT2000 and other MELSOFT products in a single personal computer together, other MELSOFT products must also run with administrator authority.
- *2 Administrator authority is required for installing and using GT SoftGOT2000.
- *3 The following functions are not supported.
 - Application start in Windows compatibility mode
 - Fast user switching
 - Change your desktop themes (fonts)
 - Remote desktop
 - DPI setting other than the normal size (For Windows® XP and Windows Vista®)
 - Setting the size of text and illustrations on the screen to any size other than [Small-100%] (For Windows® 10, Windows® 8.1, Windows® 8, and Windows® 7)
- *4 Windows XP Mode is not supported.
- *5 Tapping and press-and-hold operation are the supported touch operation.
The following operations cannot be performed with touch operation because operations such as flicking are not supported.
 - Simultaneous 2-point press on the touch switch
 - Moving the overlap window and key window by slide operation
 When [Allow press-and-hold of a mouse button to function as a right-click] is selected in the [Environment Setup] dialog of GT SoftGOT2000, the following operations also cannot be performed.
 - Touch switch operation with [Momentary] selected for [Action]
 - Touch switch operation with [ON] selected for [Delay]
 - Operation of the utility call key
- *6 Modern UI Style is not supported.
- *7 Hyper-V is not supported.
- *8 For using the PPC-852-22F, GT SoftGOT2000 can be used on the PPC-852-22F with the OS preinstalled only.
- *9 Refer to the manual of the PC CPU module to be used.
- *10 When using GT Designer3 or PX Developer besides GT SoftGOT2000, additional free space is required.
For the available space required when using GT Designer3, please refer to the GT Works3 operating environment.
For the available space required when using monitor tool functions of PX Developer, please refer to the following manual.
⇒ PX Developer Version □ Operating Manual (Monitor Tool)
When using a user-created application, free space is required separately.
- *11 Use GT Designer3 included in GT Works3 that contains GT SoftGOT2000.
- *12 The following OSs are not supported.
 - Microsoft® Windows® 10 IoT Enterprise for Retail or Thin Client
 - Microsoft® Windows® 10 IoT Enterprise for Tablets
 - Microsoft® Windows® 10 IoT Enterprise for Small Tablets
- *13 The environments that use the following lockdown features are not supported.
 - Unified Write Filter
 - Assigned Access
 - USB Filter
 - Layout Control
 - AppLocker
 - Shell Launcher
- *14 To use the Edgecross interaction function, Version1.195D or later is required.
- *15 Microsoft® Windows® 10 IoT Enterprise 2016 LTSC is preinstalled. For the specifications of the MELIPC, refer to the following.
 - MELIPC MI5000 Series User's Manual (Startup)
 - MELIPC MI3000 User's Manual
 - MI2012-W User's Manual
- *16 To use the OPC UA client connection, use Windows® 7 or later.



Function list

For the details of functions, supported controllers, and connection types, please refer to the relevant manual or Help of the GOT2000 Series.
●: Supported —: Not supported

Category	Function name	Necessary devices *1	GT27	GT25	GT25 Wide	GT25 Handy	GT25 Rugged		
Screen size	15"		●	—	—	—	—		
	12.1"		●	●	—	—	—		
	10.4"		●	●	—	—	—		
	10.1" Wide		—	—	●	—	—		
	10" Wide		—	—	—	—	—		
	8.4"		●	●	—	—	—		
	7" Wide		—	—	●	—	●		
	6.5"		—	—	—	●	—		
	5.7"		●	●	—	●	—		
	4.3"		—	—	—	—	—		
	3.8"		—	—	—	—	—		
	Resolution	WXGA 1280 x 800		—	—	●	—	—	
		XGA 1024 x 768		●	—	—	—	—	
		SVGA 800 x 600		●	●	—	—	—	
		WVGA 800 x 480		—	—	●	—	●	
		VGA 640 x 480		●	●	—	●	—	
		Other		—	—	—	—	—	
	Color	65536 colors		●	●	●	●	●	
		Monochrome (black/white) 32 shade grayscale		—	—	—	—	—	
Hardware specifications	Touch panel simultaneous press (2 points)		●	—	—	—	—		
	Human sensor		● *10	—	—	—	—		
Memory	Memory for storage (ROM)		Other than below: 57 MB GT2705: 32 MB	32 MB	32 MB	32 MB	32 MB		
	Memory for operation (RAM)		Other than below: 128 MB GT2705: 80 MB	80 MB	128 MB	80 MB	128 MB		
Interface	RS-232		●	●	●	●	●		
	RS-422/485		●	●	●	● GT2505HS supports RS-422 only	●		
	Ethernet	(Ethernet communication unit)	● 2 ports by installing communication unit	● 2 ports by installing communication unit *17	● 2 ports as standard	●	● 2 ports as standard		
	USB host		●	●	●	●	●		
	USB device		●	●	●	●	●		
	SD memory card interface		●	●	●	●	●		
	Extension interface, Side interface, Wireless LAN communication unit interface	Communication units, option units	● *11	● *11 *17	● *11	—	● *11		
	Figure/object functions	Figure		●	●	●	●	●	
		Logo text		●	●	●	●	●	
		Outline font		●	●	●	●	●	
Touch switch			●	●	●	●	●		
Lamp			●	●	●	●	●		
Numerical display, Numerical input			●	●	●	●	●		
Text display, Text input			●	●	●	●	●		
Date display, Time display		(Battery)	●	●	●	●	●		
Comment display			●	●	●	●	●		
Parts display		(SD memory card or USB memory)	●	●	●	●	●		
Parts movement		(SD memory card or USB memory)	●	●	●	●	●		
Historical data list display		(SD memory card or USB memory)	●	●	●	●	●		
Simple alarm display			●	●	●	●	●		
System alarm display			●	●	●	●	●		
Alarm display (user)		(SD memory card or USB memory, battery)	●	●	●	●	●		
Alarm display (system)		(SD memory card or USB memory, battery)	●	●	●	●	●		
Recipe display (record list)			●	●	●	●	●		
Line graph			●	●	●	●	●		
Trend graph			●	●	●	●	●		
Bar graph			●	●	●	●	●		
Statistic bar graph			●	●	●	●	●		
Statistic pie graph			●	●	●	●	●		
Scatter graph			●	●	●	●	●		
Historical trend graph		(SD memory card or USB memory)	●	●	●	●	●		
Graphical meter			●	●	●	●	●		
Level			●	●	●	●	●		
Panelmeter			●	●	●	●	●		
Slider			●	●	●	●	●		
Document display		SD memory card	●	●	●	●	●		
Script parts			●	●	●	●	●		
Functions performed on background of GOT		Logging	(SD memory card or USB memory, battery)	●	●	●	●	●	
		Recipe	(SD memory card or USB memory, battery)	●	●	●	●	●	
		Device data transfer		●	●	●	●	●	
		Trigger action		●	●	●	●	●	
		Time action	(SD memory card or USB memory)	●	●	●	●	●	
		Hard copy	File output	(SD memory card or USB memory)	●	●	●	—	●
			Serial printer output		●	●	●	—	●
	Ethernet printer output NEW			●	●	●	●	●	
	PictBridge printer output		Printer unit	●	● *17	—	—	—	
	Project script, Screen script		●	●	●	●	●		
Object script		●	●	●	●	●			

*1 Necessary units when using GT27, GT25, GT25 wide, GT25 handy, GT25 rugged, GT23, GT21 wide, GT21, or GS21 models are shown. Parenthesized devices are required depending on conditions of use.

*2 Data is output to the printer that is recognized by the personal computer.

*3 CSV files are saved in the virtual drive of the personal computer so that it is recommended to output the files to printers.

*4 Only the GOTs with SVGA or higher resolution are supported.

*5 Remote personal computer operation function (Ethernet) cannot be used. The following screens are displayed horizontally: 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. For the details of other GOT operations when placed vertically, please refer to the relevant product manual or Help.

*6 Excluding GT2103-PMBLS.

*7 GT2104-RTBD only.

CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG Specifications

For the details of functions, supported controllers, and connection types, please refer to the relevant manual or Help of the GOT2000 Series.
●: Supported —: Not supported

Category	Function name	Necessary devices *1	GT23	GT21 Wide	GT21	GS21	GT SoftGOT2000	
Hardware specifications	Screen size	15"	—	—	—	—	Flexible resolution 640 to 1920 × 480 to 1200	
		12.1"	—	—	—	—		
		10.4"	●	—	—	—		
		10.1" Wide	—	—	—	—		
		10" Wide	—	—	—	●		
		8.4"	●	—	—	—		
		7" Wide	—	●	—	●		
		6.5"	—	—	—	—		
		5.7"	—	—	—	—		
		4.3"	—	—	●	—		
	3.8"	—	—	●	—			
	Resolution	WXGA 1280 × 800	—	—	—	—		
		XGA 1024 × 768	—	—	—	—		
		SVGA 800 × 600	—	—	—	—		
		WVGA 800 × 480	—	●	—	●		
		VGA 640 × 480	●	—	—	—		
	Other	—	—	GT2104-R: 480 × 272 GT2103-P: 320 × 128	—	—		
	Color	65536 colors	—	●	●	●	●	
		Monochrome (black/white) 32 shade grayscale	—	—	—	●	—	
		Touch panel simultaneous press (2 points)	—	—	—	—	—	
	Human sensor	—	—	—	—	—		
Memory	Memory for storage (ROM)	—	9 MB	15 MB	GT2104-R: 9 MB GT2103-P: 3 MB	9 MB	57 MB	
	Memory for operation (RAM)	—	9 MB	—	—	—	—	
Interface	RS-232	—	●	●	●*20	●	●*12	
	RS-422/485	—	●	●	●*20	● RS-422 only	●*12	
	Ethernet	(Ethernet communication unit)	●	●	●*20	●	●*11	
	USB host	—	●	●	—	—	●*13	
	USB device	—	●	●	—	—	—	
	SD memory card interface	—	●	●	●*14	●	●*13	
	Extension interface, Side interface, Wireless LAN communication unit interface	Communication units, option units	—	—	—	—	●*11	
Screen design	Figure/object functions	Figure	●	●	●	●	●	
		Logo text	●	●	●	●	●	
		Outline font	●	●	—	—	—	
		Touch switch	●	●	●	●	●	
		Lamp	●	●	●	●	●	
		Numerical display, Numerical input	●	●	●	●	●	
		Text display, Text input	●	●	●	●	●	
		Date display, Time display	(Battery)	●	●	●	●	●
		Comment display	—	●	●	●	●	●
		Parts display	(SD memory card or USB memory)	●	●	●*16	●	●
		Parts movement	(SD memory card or USB memory)	●	●	●*16	●	●
		Historical data list display	(SD memory card or USB memory)	●	●	●*16	●	●
		Simple alarm display	—	●	●	●	●	●
		System alarm display	—	●	—	—	—	●
		Alarm display (user)	(SD memory card or USB memory, battery)	●	●	●*16	●	●
		Alarm display (system)	(SD memory card or USB memory, battery)	●	—	—	—	●
	Recipe display (record list)	—	●	●	●	●	●	
	Line graph	—	●	●	●	●	●	
	Trend graph	—	●	●	●	●	●	
	Bar graph	—	●	●	●	●	●	
	Statistic bar graph	—	●	●	●	●	●	
	Statistic pie graph	—	●	●	●	●	●	
	Scatter graph	—	●	●	●	●	●	
	Historical trend graph	(SD memory card or USB memory)	●	●	●*16	●	●	
	Graphical meter	—	●	●	●	●	●	
	Level	—	●	●	●	●	●	
	Panelmeter	—	●	●	●	●	●	
	Slider	—	●	●	●	●	●	
	Document display	SD memory card	—	—	—	—	●	
	Script parts	—	●	●	●	●	●	
	Functions performed on background of GOT	Logging	(SD memory card or USB memory, battery)	●	●	●*16	●	●
		Recipe	(SD memory card or USB memory, battery)	●	●	●*16	●	●
Device data transfer		—	●	●	●	●	●	
Trigger action		—	●	●	●	●	●	
Time action		(SD memory card or USB memory)	●	●	●	●	●	
Hard copy		File output	(SD memory card or USB memory)	●	●	●*16	●	●*2
		Serial printer output	—	●	●	●*16	●	—
		Ethernet printer output NEW	—	●	●	●*15	●	—
		PictBridge printer output	Printer unit	—	—	—	—	●*2
Project script, Screen script		—	●	●	—	—	●	
Object script		—	●	—	—	—	●	

*8 Excluding GT2705-VTBD.

*9 To use multiple units such as extension units, barcode readers, or RFID controllers with a GT2705-VTBD, the total current consumption of the units should be less than the value that the GT2705-VTBD can provide. For the details, please refer to the relevant manual of the GOT2000 Series.

*10 GT2715-XTBA, GT2715-XTBD, GT2712-STBA, GT2712-STBD, GT2712-STWA, GT2712-STWD only.

*11 For the applicable communication units and option units, please refer to "Connectable model list" (page 152), "Product list" (page 172), and the relevant product manual.

*12 Use the standard interface of the personal computer.

*13 When using functions that require a USB memory or SD memory card, a virtual drive in the personal computer is used.

*14 GT2103-PMBD, GT2103-PMBDS, and GT2103-PMBDS2 require an SD memory card unit (GT21-03SDCC) separately. GT2103-PMBLS does not allow for SD memory cards.

*15 GT2104-RTBD, GT2103-PMBD only.

*16 On GT2103-PMBLS, only the functions that do not require SD memory card can be used.

*17 Excluding GT2505-VTBD.

*18 GT25 wide models have a built-in sound output interface so that the sound output unit is not required.

*19 GT2505HS-VTBD supports the function with Ethernet connection only.

*20 GT21 has different interfaces depending on the model. For the details, please refer to the performance specifications on pages 134 and 135.

*21 Only Ethernet, OPC UA client, and microcomputer connections are supported.

Function list

For the details of functions, supported controllers, and connection types, please refer to the relevant manual or Help of the GOT2000 Series.
●: Supported —: Not supported

Category	Function name	Necessary devices ^{*1}	GT27	GT25	GT25 Wide	GT25 Handy	GT25 Rugged	
Screen design	Barcode function		●	●	●	—	●	
	RFID function		●	●	●	—	●	
	GOT Mobile function	License, (SD memory card)	●	●	●	—	●	
	VNC server function	License	●	●	●	●	●	
	Remote personal computer operation function (Ethernet)	License	●	●	●	●	●	
	Remote personal computer operation function (serial)	RGB input unit or Video/RGB input unit	● ^{*8}	—	—	—	—	
	Video display function	Video input unit or Video/RGB input unit	● ^{*8}	—	—	—	—	
	RGB display function	RGB input unit or Video/RGB input unit	● ^{*8}	—	—	—	—	
	Multimedia function	Multimedia unit, CF card	● ^{*8}	—	—	—	—	
	External I/O function	External I/O unit	●	● ^{*17}	—	—	—	
	Operation panel function	External I/O unit	●	● ^{*17}	—	—	—	
	Video output function	HDMI output NEW	Digital video output unit	● ^{*8}	—	—	—	—
		RGB output	RGB output unit	● ^{*8}	—	—	—	—
	Report function	File output NEW	(SD memory card or USB memory)	●	●	●	●	●
		Serial printer output	(SD memory card or USB memory)	●	●	●	—	●
		Ethernet printer output NEW	(SD memory card or USB memory)	●	●	●	●	●
		PictBridge printer output	SD memory card or USB memory, printer unit	●	● ^{*17}	—	—	—
		Sound output function	Sound output unit ^{*18}	●	● ^{*17}	● ^{*18}	—	● ^{*18}
	Server function, Client function		●	●	●	●	●	
	Mail send function		●	●	●	●	●	
	Network drive function NEW		●	●	●	●	●	
	FTP server function	(SD memory card or USB memory)	●	●	●	●	●	
	File transfer function (FTP transfer)	SD memory card or USB memory	●	●	●	●	●	
	File transfer function (GOT internal transfer)	SD memory card or USB memory	●	●	●	●	●	
	MES interface function	License, (SD memory card)	●	●	●	●	●	
	Wireless LAN function	Wireless LAN communication unit	●	● ^{*17}	—	—	—	
	USB mouse, USB keyboard		●	●	●	●	●	
	GOT functions	Base screen		●	●	●	●	●
		Overlap window		●	●	●	●	●
		Superimpose window		●	●	●	●	●
		Dialog window		●	●	●	●	●
		Mobile screen		●	●	●	●	●
Key window			●	●	●	●	●	
Language switching			●	●	●	●	●	
System information			●	●	●	●	●	
Operator authentication function		(SD memory card or USB memory)	●	●	●	●	●	
Operation log		SD memory card or USB memory	●	●	●	●	●	
Startup logo			●	●	●	●	●	
KANA KANJI conversion			●	●	●	●	●	
FA transparent			●	●	●	●	●	
SoftGOT-GOT link		License key	●	●	●	●	●	
Backup/Restoration		SD memory card or USB memory	●	●	●	●	●	
Multi-channel function			● ^{*9} 4 channels (Up to 3 units)	● 4 channels (Up to 3 units ^{*17})	● 4 channels (No units can be mounted)	● ^{*19} 4 channels (No units can be mounted)	● 4 channels (No units can be mounted)	
Station No. switching			●	●	●	●	●	
GOT network interaction			●	●	●	●	●	
Screen gesture function			●	—	—	—	—	
Object gesture function			●	—	—	—	—	
Security key authentication function			●	●	●	●	●	
IP filter function			●	●	●	●	●	
File manager		(SD memory card or USB memory)	●	●	●	●	●	
Vertical display ^{*5}			● (Rotate 90 ° to left)	● (Other than below: rotate 90° to left GT250S: rotate 90° to right)	● (Rotate 90 ° to left)	—	● (Rotate 90 ° to left)	
Maintenance functions		Device monitor	(SD memory card or USB memory)	●	●	●	●	●
		Sequence program monitor (Q-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		●	●	●	●	●	
	Drive recorder	(SD memory card or USB memory)	●	●	●	●	●	
	Servo amplifier graph NEW	(SD memory card or USB memory)	●	●	●	●	●	
	Motion program editor NEW		● ^{*4}	● ^{*4}	—	—	—	
	Motion program I/O NEW	SD memory card or USB memory	● ^{*4}	● ^{*4}	—	—	—	
	Servo amplifier monitor		●	●	●	●	●	
	R motion monitor		●	●	●	●	●	
	Q motion monitor		●	●	●	●	●	
	Motion SFC monitor	SD memory card or USB memory	●	●	●	●	●	
	CNC monitor 2		●	●	—	—	—	
	CNC monitor		● ^{*4}	● ^{*4}	—	—	—	
	CNC data I/O	SD memory card or USB memory	● ^{*4}	● ^{*4}	—	—	—	
	CNC machining program edit		● ^{*4}	● ^{*4}	—	—	—	
	Log viewer	(SD memory card or USB memory)	●	●	●	●	●	
	FX list editor		●	●	—	—	—	
	FX ladder monitor		●	●	●	●	●	
IGSS utility	SD memory card or USB memory	●	●	●	●	●		
System launcher		●	●	●	●	●		
System launcher (servo network)		●	●	●	●	●		
MELSEC-L troubleshooting		●	●	●	●	●		

*1 Necessary units when using GT27, GT25, GT25 wide, GT25 handy, GT25 rugged, GT23, GT21 wide, GT21, or GS21 models are shown. Parenthesized devices are required depending on conditions of use.

*2 Data is output to the printer that is recognized by the personal computer.

*3 CSV files are saved in the virtual drive of the personal computer so that it is recommended to output the files to printers.

*4 Only the GOTs with SVGA or higher resolution are supported.

*5 Remote personal computer operation function (Ethernet) cannot be used. The following screens are displayed horizontally: 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. For the details of other GOT operations when placed vertically, please refer to the relevant product manual or Help.

*6 Excluding GT2103-PMBLS.

*7 GT2104-RTBD only.

CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG Specifications

For the details of functions, supported controllers, and connection types, please refer to the relevant manual or Help of the GOT2000 Series.
●: Supported —: Not supported

Category	Function name	Necessary devices *1	GT23	GT21 Wide	GT21	GS21	GT SoftGOT2000	
Screen design	Barcode function		●	●	●*6	●	●	
	RFID function		●	●	●*6	●	●	
	GOT Mobile function	License, (SD memory card)	—	—	—	—	—	
	VNC server function	License	—	●	—	—	—	
	Remote personal computer operation function (Ethernet)	License	—	—	—	—	—	
	Remote personal computer operation function (serial)	RGB input unit or Video/RGB input unit	—	—	—	—	—	
	Video display function	Video input unit or Video/RGB input unit	—	—	—	—	—	
	RGB display function	RGB input unit or Video/RGB input unit	—	—	—	—	—	
	Multimedia function	Multimedia unit, CF card	—	—	—	—	—	
	External I/O function	External I/O unit	—	—	—	—	—	
	Operation panel function	External I/O unit	—	—	—	—	●	
	Video output function	HDMI output NEW	Digital video output unit	—	—	—	—	—
		RGB output	RGB output unit	—	—	—	—	—
	Report function	File output NEW	(SD memory card or USB memory)	●	—	—	—	●*3
		Serial printer output	(SD memory card or USB memory)	●	●	●*6	●	●*3
		Ethernet printer output NEW	(SD memory card or USB memory)	●	●	●*15	●	●*3
		PictBridge printer output	SD memory card or USB memory, printer unit	—	—	—	—	●*3
		Sound output function	Sound output unit *18	—	—	—	—	●
	Server function, Client function		—	—	—	—	—	
	Mail send function		—	—	—	—	●	
	Network drive function NEW		—	—	—	—	●	
	FTP server function	(SD memory card or USB memory)	●	●	●*15	●	—	
	File transfer function (FTP transfer)	SD memory card or USB memory	●	●	●*15	●	—	
	File transfer function (GOT internal transfer)	SD memory card or USB memory	●	—	—	—	—	
	MES interface function	License, (SD memory card)	—	—	—	—	—	
Wireless LAN function	Wireless LAN communication unit	—	—	—	—	—		
USB mouse, USB keyboard		●	●	—	—	●		
GOT functions	Base screen		●	●	●	●	●	
	Overlap window		●	●	●	●	●	
	Superimpose window		●	●	●	●	●	
	Dialog window		●	●	●	●	●	
	Mobile screen		—	—	—	—	—	
	Key window		●	●	●	●	●	
	Language switching		●	●	●	●	●	
	System information		●	●	●	●	●	
	Operator authentication function	(SD memory card or USB memory)	●	—	●*16	—	—	
	Operation log	SD memory card or USB memory	●	—	—	—	●	
	Startup logo		●	●	●	●	●	
	KANA KANJI conversion		—	—	—	—	●	
	FA transparent		●	●	●	●	—	
	SoftGOT-GOT link	License key	—	—	—	—	●	
	Backup/Restoration	SD memory card or USB memory	●	●	●*6	●	—	
	Multi-channel function		● (2 channels (No units can be mounted))	●*21 NEW (4 channels)				
	Station No. switching		●	●	●	●	●	
	GOT network interaction		●	—	—	—	●	
	Screen gesture function		—	—	—	—	—	
	Object gesture function		—	—	—	—	—	
	Security key authentication function		●	—	—	—	—	
	IP filter function		●	●	●	●	—	
	File manager	(SD memory card or USB memory)	●	—	—	—	—	
	Vertical display *5		● (Rotate 90 ° to left)	● (Rotate 90 ° to left)	● (Rotate 90 ° to right)	● (Rotate 90 ° to left)	—	
	Maintenance functions	Device monitor	(SD memory card or USB memory)	●	●	●	●	—
Sequence program monitor (Q-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			—	—	—	—	—	
Drive recorder		(SD memory card or USB memory)	—	—	—	—	—	
Servo amplifier graph NEW		(SD memory card or USB memory)	—	—	—	—	—	
Motion program editor NEW			—	—	—	—	—	
Motion program I/O NEW		SD memory card or USB memory	—	—	—	—	—	
Servo amplifier monitor			—	—	—	—	—	
R motion monitor			—	—	—	—	—	
Q motion monitor			—	—	—	—	—	
Motion SFC monitor		SD memory card or USB memory	—	—	—	—	—	
CNC monitor 2			—	—	—	—	—	
CNC monitor			—	—	—	—	—	
CNC data I/O		SD memory card or USB memory	—	—	—	—	—	
CNC machining program edit			—	—	—	—	—	
Log viewer		(SD memory card or USB memory)	—	—	—	—	—	
FX list editor			●	●	●*7	●	—	
FX ladder monitor			—	—	—	—	—	
IQSS utility		SD memory card or USB memory	—	—	—	—	—	
System launcher			●	—	—	—	—	
System launcher (servo network)			—	—	—	—	—	
MELSEC-L troubleshooting		—	—	—	—	—		

*8 Excluding GT2705-VTBD.

*9 To use multiple units such as extension units, barcode readers, or RFID controllers with a GT2705-VTBD, the total current consumption of the units should be less than the value that the GT2705-VTBD can provide. For the details, please refer to the relevant manual of the GOT2000 Series.

*10 GT2715-XTBA, GT2712-STBA, GT2712-STBA, GT2712-STWA, GT2712-STWD only.

*11 For the applicable communication units and option units, please refer to "Connectable model list" (page 152), "Product list" (page 172), and the relevant product manual.

*12 Use the standard interface of the personal computer.

*13 When using functions that require a USB memory or SD memory card, a virtual drive in the personal computer is used.

*14 GT2103-PMBD, GT2103-PMBDS, and GT2103-PMBDS2 require an SD memory card unit (GT21-03SDCCD) separately. GT2103-PMBLS does not allow for SD memory cards.

*15 GT2104-RTBD, GT2103-PMBD only.

*16 On GT2103-PMBLS, only the functions that do not require SD memory card can be used.

*17 Excluding GT2505-VTBD.

*18 GT25 wide models have a built-in sound output interface so that the sound output unit is not required.

*19 GT2505HS-VTBD supports the function with Ethernet connection only.

*20 GT21 has different interfaces depending on the model. For the details, please refer to the performance specifications on pages 134 and 135.

*21 Only Ethernet, OPC UA client, and modbus tcp connections are supported.

Connectable model list (GOT2000/GOT SIMPLE)

◆ Mitsubishi Electric programmable controllers/C Controller modules/Safety controllers/Motion controllers

Series	Model name	Connection type																					
		GT27/GT25						GT23			GT21/GS21 ¹												
		Ethernet connection	Direct CPU connection	Serial communication connection	CC-Link IE TSN connection ⁴² NEW	CC-Link IE Controller Network connection ⁴²	CC-Link connection (Intelligent device station) ⁴²	CC-Link connection (Via G4) ²	Bus connection ^{3 42}	MELSECNET/H connection ⁴²	MELSECNET/10 connection ^{4 42}	Ethernet connection	Direct CPU connection	Serial communication connection	CC-Link connection (Via G4) ²	Multi-drop connection ⁵	Ethernet connection ⁶	Direct CPU connection	Serial communication connection	CC-Link connection (Via G4) ²	Multi-drop connection ^{5 7}		
Programmable controller	MELSEC IQ-R Series	Programmable controller CPU	R00CPU NEW																				
			R01CPU NEW																				
			R02CPU NEW																				
			R04CPU																				
			R08CPU																				
			R16CPU																				
			R32CPU	○	×	○	○	○	○	×	×	×	×	×	○	×	○	×	○	○	×	×	×
			R120CPU																				
			R04ENCPU																				
			R08ENCPU																				
	R16ENCPU																						
	R32ENCPU																						
	R120ENCPU																						
	Safety CPU	R08SFCPU ³⁹																					
		R16SFCPU ³⁹	○	×	○	×	○	○	×	×	×	×	×	○	×	×	○	×	○	×	×	×	
		R32SFCPU ³⁹																					
		R120SFCPU ³⁹																					
	Process CPU	R08PCPU ⁴¹																					
		R16PCPU ⁴¹	○	×	○	×	○	○	×	×	×	×	×	○	×	×	○	×	○	×	×	×	
		R32PCPU ⁴¹																					
		R120PCPU ⁴¹																					
	SIL2 process CPU NEW	R08PSFCPU ⁴³																					
		R16PSFCPU ⁴³	○	×	×	×	○	○	×	×	×	×	×	○	×	×	○	×	×	×	×	×	
		R32PSFCPU ⁴³																					
		R120PSFCPU ⁴³																					
	High-speed type universal model QCPU	Universal model QCPU	Q03UDVCPU	○ ¹⁸	○ ⁸	○	○ ⁹	○ ¹⁰	○	○	○	○ ¹⁸	○ ¹⁸	○ ⁸	○ ¹⁸	○	○ ¹⁸	○ ⁸	○	○	○	○ ⁸	
			Q06UDVCPU																				
			Q13UDVCPU																				
			Q26UDVCPU																				
			Q00UJCPU																				
			Q00UCPU																				
		Q01UCPU																					
		Q02UCPU																					
		Q03UDHCPU	○ ¹⁸	○	○	×	○ ¹²	○ ¹⁰	○	○	○	○ ¹⁸	○ ¹⁸	○	○ ¹⁸	○	○	○	○	○	○	○	
		Q06UDHCPU																					
		Q10UDHCPU																					
		Q13UDHCPU																					
		Q20UDHCPU																					
		Q26UDHCPU																					
		MELSEC-Q Series (Q mode)	Built-in Ethernet type	Q03UDEHCPU																			
				Q04UDEHCPU																			
	Q06UDEHCPU																						
	Q10UDEHCPU			○ ¹⁸	○ ⁸	○	○ ⁹	○ ¹⁰	○	○	○	○ ¹⁸	○ ¹⁸	○ ⁸	○ ¹⁸	○	○ ¹⁸	○ ⁸	○	○	○	○ ⁸	
	Q13UDEHCPU																						
	Q20UDEHCPU																						
	Q26UDEHCPU																						
	Q50UDEHCPU																						
	Q100UDEHCPU																						
	Basic model QCPU			Q00JCPU																			
		Q00CPU ¹⁶	○ ¹⁸	○	○	×	○ ¹³	×	○	○	○ ¹¹	○ ¹⁸	○ ^{14 18}	○	○ ¹⁸	○	○	○	○	○ ¹⁸	○ ¹⁵	○	
		Q01CPU ¹⁶																					
		Q02CPU ¹⁶																					
		Q02HCPU ¹⁶																					
		Q06HCPU ¹⁶	○ ¹⁸	○	○	×	○ ¹⁷	×	○	○	○	○ ¹⁸	○ ^{14 18}	○	○ ¹⁸	○	○	○	○	○ ¹⁸	○	○	
		Q12HCPU ¹⁶																					
		Q25HCPU ¹⁶																					
		Q02PHCPU																					
		Q06PHCPU	○ ¹⁸	○	○	×	○ ¹⁹	×	○	○	○	○ ¹⁸	○ ^{14 18}	×	○ ¹⁸	○	○	○	×	×	×	×	
	Q12PHCPU																						
	Q25PHCPU																						
	Redundant CPU (main base)	Q12PRHCPU	○	○	×	×	○ ²¹	×	○	○	×	○	○ ¹⁴	×	○	○	×	×	×	×	×	×	
		Q25PRHCPU																					
		Q12PRHCPU (extension base)	○	×	○	×	×	×	○	○	×	○	○	×	○	○	×	×	×	×	×	×	
	Q25PRHCPU (extension base)																						
	MELSEC-QS Series	QS001CPU	○	×	×	×	○ ²²	○ ²³	×	×	×	○	○	×	○	×	×	×	×	×	×	×	
	MELSEC-L Series	L02SCPU	○ ^{24 25}	○	○	×	×	○ ²⁶	○	○	×	×	×	○	○ ^{24 25}	○	○	○	○	○	○		
		L02SCPU-P																					
		L02CPU																					
		L02CPU-P																					
		L06CPU																					
		L06CPU-P	○ ²⁴	○ ²⁷	○	×	×	○ ²⁶	○	○	×	×	×	○ ²⁷	○ ²⁴	○ ²⁷	○	○	○	○	○	○ ²⁷	
		L26CPU																					
		L26CPU-P																					
	L26CPU-BT																						
	L26CPU-PBT																						
	MELSEC IQ-F Series	FX5U																					
		FX5UC	○	○	×	×	×	○ ³⁸	×	×	×	×	×	○	○	×	×	○	○	×	×		
		FX5UJ NEW																					
		FX0	×	○	×	×	×	×	×	×	×	×	○	×	○	×	○	×	○	×	×		
	MELSEC-F Series	FX0S																					
		FX0N																					
		FX1																					
		FX1S																					
		FX1N																					
	FX1NC																						

Connectable model list (GOT2000/GOT SIMPLE)

■ Modules usable when connected with Mitsubishi Electric programmable controllers/C Controller modules/Motion controllers

● Ethernet connection

CPU series	Ethernet module
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series) CC-Link IE Field Network head module (MELSEC iQ-R Series)	RJ71EN71 *4 RJ71GN11-T2 *5 *6 *7 NEW
MELSEC-Q Series (Q mode) MELSEC-QS Series C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series)	QJ71E71-100 QJ71E71-B5 QJ71E71-B2 QJ71E71
MELSEC-L Series	LJ71E71-100 *1
MELSEC-F Series	FX3U-ENET-L *2 FX3U-ENET-ADP *2 *3

*1 Use a CPU with the upper five digits of the serial No. later than 14112.

*2 Options for extension controller may be required depending on the connected CPU.

*3 To connect to a FX3SCPU, use a FX3U-ENET-ADP Ver.1.20 or later.

*4 Use firmware version 12 or higher when building a redundant system.

*5 Usable with MELSEC iQ-R Series programmable controller CPUs only.

*6 To use R00CPU, R01CPU, or R02CPU, use the firmware version 11 or later.

*7 To use programmable controller CPU (excluding R00CPU, R01CPU, R02CPU), use the firmware version 43 or later.

● Serial communication connection

CPU series	Serial communication module *1		
	Model name	CH1	CH2
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series) CC-Link IE Field Network head module (MELSEC iQ-R Series)	RJ71C24 *4 RJ71C24-R2 *4 RJ71C24-R4 *4	RS-232 RS-232 RS-422/485	RS-422/485 RS-232 RS-422/485
MELSEC-Q Series (Q mode) C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series) MELSECNET/H remote I/O station	QJ71C24 *2 QJ71C24-R2 *2 QJ71C24N QJ71C24N-R2 QJ71C24N-R4 QJ71CMO *3 QJ71CMON *3	RS-232 RS-232 RS-232 RS-232 RS-422/485 Modular connector Modular connector	RS-422/485 RS-232 RS-422/485 RS-232 RS-422/485 RS-232 RS-232
MELSEC-L Series CC-Link IE Field Network head module (MELSEC-L Series)	LJ71C24 LJ71C24-R2	RS-232 RS-232	RS-422/485 RS-232

*1 Communication cannot be performed with RS-485.

*2 Either CH1 or CH2 can be used for the function version A.
Both CH1 and CH2 can be used together for the function version B or later.

*3 Only CH2 can be connected.

*4 Use firmware version 07 or higher when building a redundant system.

● CC-Link IE TSN connection **NEW**

CPU series	CC-Link IE TSN module
MELSEC iQ-R Series	RJ71GN11-T2 *1 *2 *3

*1 Usable with MELSEC iQ-R Series programmable controller CPUs only.

*2 To use R00CPU, R01CPU, or R02CPU, use the firmware version 11 or later.

*3 To use programmable controller CPU (excluding R00CPU, R01CPU, R02CPU), use the firmware version 43 or later.

● CC-Link IE Controller Network connection

CPU series	CC-Link IE Controller Network module
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series)	RJ71GP21-SX *2
MELSEC-Q Series (Q mode) MELSEC-QS Series C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series)	QJ71GP21-SX *1 QJ71GP21S-SX *1

*1 When the CC-Link IE Controller Network is in the extended mode, use a module with the upper five digits of the serial No. 12052 or later.

*2 Use firmware version 12 or higher when building a redundant system.

● CC-Link IE Field Network connection

CPU series	CC-Link IE Field Network module
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series)	RJ71GF11-T2 *1 RJ71EN71 RD77GF4 RD77GF8 RD77GF16 RD77GF32
MELSEC-Q Series (Q mode) C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series)	QJ71GF11-T2 QD77GF4 NEW QD77GF8 NEW QD77GF16
MELSEC-QS Series	QS0J71GF11-T2
MELSEC-L Series	LJ71GF11-T2
MELSEC iQ-F Series	FX5-CCLIEF

*1 Use firmware version 12 or higher when building a redundant system.

● CC-Link (intelligent device station) connection

CPU series	CC-Link module
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series) CC-Link IE Field Network head module (MELSEC iQ-R Series)	RJ61BT11 *2
MELSEC-Q Series (Q mode) C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series)	QJ61BT11 QJ61BT11N
MELSEC-L Series	LJ61BT11
MELSEC iQ-F Series	FX3U-16CCL-M *1 FX5-CCL-MS
MELSEC-F Series	FX3U-16CCL-M

*1 When using an FX3U-16CCL-M with the MELSEC iQ-F Series, bus conversion module (FX5-CNV-BUS or FX5-CNV-BUSC) is required.

*2 Use firmware version 04 or higher when building a redundant system.

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

● CC-Link (via G4) connection

CPU series	CC-Link module	Peripheral module
MELSEC-Q Series (Q mode) C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series)	QJ61BT11 QJ61BT11N	AJ65BT-G4-S3 AJ65BT-R2N
MELSEC-L Series	LJ61BT11	

● MELSECNET/H connection

CPU series	MELSECNET/H network module	
	Optical loop	Coaxial bus
MELSEC-Q Series (Q mode) *1 MELSEC-QS Series Motion controller (MELSEC-Q Series)	QJ71LP21 QJ71LP21-25 QJ71LP21S-25	QJ71BR11 *1
C Controller module (MELSEC-Q Series)	QJ71LP21-25 QJ71LP21S-25	

*1 Use function version B or later of the MELSECNET/H network module and CPU.

● MELSECNET/10 connection

CPU series	MELSECNET/H (MNET/10 mode), MELSECNET/10 network module	
	Optical loop	Coaxial bus
MELSEC-Q Series (Q mode) *1 MELSEC-QS Series Motion controller (MELSEC-Q Series)	QJ71LP21 QJ71LP21-25 QJ71LP21S-25	QJ71BR11 *1
C Controller module (MELSEC-Q Series)	QJ71LP21-25 QJ71LP21S-25	

*1 Use function version B or later of the MELSECNET/H network module and CPU.

◆ Mitsubishi Electric industrial computers **NEW**

Series	Model name	GT27/GT25/GT23/GT21/GS21 *1											
		Connection type											
		Ethernet connection	Direct CPU connection	Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	CC-Link connection (intelligent device station)	CC-Link connection (via G4)	Bus connection	MELSECNET/H connection	MELSECNET/10 connection	Multi-drop connection
MELIPC	MI5122-VW	○	×	×	×	×	○	×	×	×	×	×	×

*1 GT23, GT21, and GS21 support connection using Ethernet connection.

◆ Mitsubishi Electric inverters

Series	Model name	GT27/GT25/GT23/GT21/GS21 *1			
		RS-485	RS-232	Multi-drop connection	Ethernet
FR-D700 Series	FR-D7□□	○	×	×	×
	FR-D7□□S	○	×	×	×
	FR-D7□□W	○	×	×	×
FR-F700PJ Series	FR-F7□□PJ (F)	○	×	×	×
	FR-E7□□	○	×	×	×
FR-E700 Series	FR-E7□□S	○	×	×	×
	FR-E7□□W	○	×	×	×
	FR-E7□□-NE *2,3	×	×	×	○ *4
FR-F700 Series	FR-F7□□	○	×	×	×
	FR-F7□□P	○	×	×	×
FR-A800 Series	FR-A8□□	○	×	×	×
	FR-A8□□2	○	×	×	×
	FR-A8□□6	○	×	×	×
	FR-A8□□-GF	○	×	×	×
	FR-A8□□2-GF	○	×	×	×
FR-A800 Plus Series	FR-A8□□-CRN	○	×	×	×
	FR-A8□□2-CRN	○	×	×	×
	FR-A8□□0-E-CRN	○	×	×	○
	FR-A8□□2-E-CRN	○	×	×	○
	FR-A8□□0-R2R	○	×	×	×
	FR-A8□□2-R2R	○	×	×	×
	FR-A8□□0-E-R2R	○	×	×	○
	FR-A8□□2-E-R2R	○	×	×	○
FR-F800 Series	FR-F8□□	○	×	×	×
	FR-F8□□2	○	×	×	×
	FR-F8□□6	○	×	×	×
	FR-F8□□0-E	○	×	×	○
	FR-F8□□2-E	○	×	×	○
FR-B Series	FR-B-□□□□	○	×	×	×
FR-B3 Series	FR-B3- (N) (H) □□□□	○	×	×	×
MELIPM Series	MD-CX522-□□K	○	×	×	×
	MD-CX522-□□K-A0	○	×	×	×

*1 Except GT2103-PMBDS2 and GT2103-PMBLS.

*2 Use FR-E700-NE with SERIAL (serial No.) **88***** or later.

*3 Use FR-E700-SC-NNE or FR-E700-SC-ENE with SERIAL (serial No.) **89***** or later.

*4 Supports UDP only.

◆ Mitsubishi Electric servo amplifiers (general-purpose)

Series	Model name	GT27/GT25/GT23/GT21/GS21 *1			
		RS-422	RS-232	Multi-drop connection	Ethernet
MELSERVO-J4 Series	MR-J4-□A	○	○ *2	×	×
	MR-J4-□A-RJ	○	○ *2	×	×
MELSERVO-J3 Series	MR-J3-□A	○	○ *2	×	×
	MR-J3-□T	○	○ *2	×	×
MELSERVO-J2-Super Series	MR-J2S-□A	○	○	×	×
	MR-J2S-□CP	○	○	×	×
MELSERVO-J2M Series	MR-J2M-P8A	○	○	×	×
	MR-J2M-□DU	○	○	×	×
MELSERVO-JE Series	MR-JE-□A	○	×	×	×
	MR-JE-□C NEW	×	×	×	○

*1 Except GT2103-PMBLS.

*2 RS-422/232 interface converter or RS-422/232 conversion cable is required.

Connectable model list (GOT2000/GOT SIMPLE)

◆ Mitsubishi Electric servo amplifiers (SSCNET III/H)

Servo amplifiers (SSCNET III/H) are connected to the GOT through a motion controller or simple motion module.

Series	Model name	Motion controller or programmable controller		GT27/GT25/GT23/GT21/GS21 *6													
				Connection type													
		Simple motion module	CPU type	Ethernet connection	Direct CPU connection	Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	CC-Link connection (intelligent device station) *1	CC-Link connection (via G4)	Bus connection	MELSECNET/H connection	MELSECNET/10 connection *2	Multi-drop connection		
MELSERVO-J4 Series	MR-J4-□B MR-J4-□B-RJ MR-J4W2-□B MR-J4W3-□B	—	RnMTCPU	○	×	○	×	○	○	○	○	×	×	×	×	×	
			Q17nDSCPU	○	○	○	×	○	×	○	○	○	○	○	○	○	×
			Q170MSCPU	○	○	○	×	○	○	○	○	○	○	○	○	○	×
			RD77MS	RnCPU	○	×	○	○	○	○	○	○	×	×	×	×	×
			QD77MS *3	QnCPU	○	○	○	×	○	○	○	○	○	○	○	○	×
			LD77MS	LnCPU	○	○	○	×	×	○	○	○	×	×	×	×	×
			FX5-40SSC-S	FX5CPU	○	○	×	×	×	×	○	×	×	×	×	×	×
			FX5-80SSC-S	FX5CPU	○	○	×	×	×	×	○	×	×	×	×	×	×
MELSERVO-JE Series	MR-JE-□B		RD77MS *4	RnCPU	○	×	○	○	○	○	○	×	×	×	×	×	
			QD77MS *5	QnCPU	○	○	○	×	○	○	○	○	○	○	○	×	
			LD77MS *5	LnCPU	○	○	○	×	×	○	○	×	×	×	×	×	
			FX5-40SSC-S	FX5CPU	○	○	×	×	×	×	○	×	×	×	×	×	
			FX5-80SSC-S	FX5CPU	○	○	×	×	×	×	○	×	×	×	×	×	
			FX5-80SSC-S	FX5CPU	○	○	×	×	×	×	○	×	×	×	×	×	

*1 Connect the GOT as a CC-Link intelligent device station.

*2 Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

*3 Use a module with the upper five digits of the serial No. later than 15041.

*4 Use a module with the firmware version 3 or later.

*5 Use a module with the upper five digits of the serial No. later than 16102.

*6 GT23, GT21, and GS21 support connection using Ethernet connection, direct CPU connection, serial communication connection, or CC-Link connection (via G4).

◆ Mitsubishi Electric servo amplifiers (CC-Link IE Field Network)

Servo amplifiers (CC-Link IE Field Network) are connected to the GOT through a simple motion module or a master/local module.

Series	Model name	Motion controller or programmable controller		GT27/GT25/GT23/GT21/GS21 *6 *7											
				Connection type											
		Simple motion module, or master/local module	CPU type	Ethernet connection	Direct CPU connection	Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection *8	CC-Link connection (intelligent device station) *1	CC-Link connection (via G4)	Bus connection	MELSECNET/H connection	MELSECNET/10 connection *2	Multi-drop connection
MELSERVO-J4 Series	MR-J4-□GF MR-J4-□GF-RJ	RD77GF4*3	RnCPU	○	×	○	○	○	○	○	×	×	×	×	×
		RD77GF8*3	RnCPU	○	×	○	○	○	○	○	×	×	×	×	×
		RD77GF16*3	RnCPU	○	×	○	○	○	○	○	×	×	×	×	×
		RD77GF32	RnCPU	○	×	○	○	○	○	○	×	×	×	×	×
		QD77GF4*4	QnCPU	○	○	○	×	○	○	○	×	×	○	○	○
		QD77GF8*4	QnCPU	○	○	○	×	○	○	○	×	×	○	○	○
		QD77GF16*4	QnCPU	○	○	○	×	○	○	○	×	×	○	○	○
		RJ71EN71	RnCPU	○	×	○	○	○	○	○	×	×	×	×	×
		RJ71GF11-T2	RnCPU	○	×	○	○	○	○	○	×	×	×	×	×
		QJ71GF11-T2*5	QnCPU	○	○	○	×	○	○	○	×	×	○	○	○
		LJ71GF11-T2*5	LnCPU	○	×	○	×	×	×	○	×	×	×	×	×

*1 Connect the GOT as a CC-Link intelligent device station.

*2 Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

*3 To use the I/O mode, use a module with the firmware version 1 or later; to use the I/O mode, use a module with the firmware version 2 or later.

*4 To use the I/O mode, use a module with the upper five digits of the serial No. later than 18022.

*5 Use a module with the upper five digits of the serial No. later than 14102. Motion mode is not supported.

*6 GT23 supports connection using Ethernet connection, direct CPU connection, serial communication connection, or CC-Link connection (via G4).

*7 GT21 and GS21 support connection using Ethernet connection.

*8 Not connectable from the GOT in the same network.

◆ Mitsubishi Electric robot controllers

Series	Controller name	GT27/GT25/GT23/GT21/GS21 *5											
		Connection type											
		Ethernet connection	Direct CPU connection	Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	CC-Link connection (intelligent device station) *1	CC-Link connection (via G4)	Bus connection	MELSECNET/H connection	MELSECNET/10 connection *2	Multi-drop connection
F Series	CR750-Q (Q172DRCPU)	○ *3	○ *4	○	×	○	○	○	○	○	○	○	×
	CR751-Q (Q172DRCPU)	○ *3	○ *4	○	×	○	○	○	○	○	○	○	×
	CR750-D	○	×	×	×	×	×	×	×	×	×	×	×
	CR751-D	○	×	×	×	×	×	×	×	×	×	×	×
SQ Series	CRnQ-700 (Q172DRCPU)	○ *3	○ *4	○	×	○	○	○	○	○	○	○	×
SD Series	CRnD-700	○	×	×	×	×	×	×	×	×	×	×	×
FR Series	CR800-D	○ *6	×	×	×	×	×	×	×	×	×	×	×
	CR800-R (R16RTCPU)	○	×	○	×	○	○	○	×	×	×	×	×
	CR800-Q (Q172DSRCPU)	○	○ *4	○	×	○	○	○	○	○	○	○	×

*1 Connect the GOT as a CC-Link intelligent device station.

*2 Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

*3 The Display I/F of CRnQ-700, CR750/751-Q cannot be used. Ethernet connections can be established only via the Ethernet module (QJ71E71) or the built-in Ethernet port in the multiple CPU system (QnUDE).

*4 Access via the serial port (RS-232) of QCPU in the multiple CPU system since CRnQ-700, CR750/751-Q, and CR800-Q have no serial ports.

*5 GT23, GT21, and GS21 support connection using Ethernet connection, direct CPU connection, serial communication connection, or CC-Link connection (via G4).

*6 Ethernet connections can be established to the built-in LAN port of CR800-D.

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

◆ Mitsubishi Electric CNCs

Series	GT27/GT25/GT23 *6											
	Connection type											
	Ethernet connection	Direct CPU connection	Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	CC-Link connection (intelligent device station) *1	CC-Link connection (via G4)	Bus connection	MELSECNET/H connection	MELSECNET/10 connection *2	Multi-drop connection
CNC C80 (R16NCCPU-S1)*7	○	×	○	×	○	○	○	×	×	×	×	×
CNC C70 (Q173NCCPU) *3	○	○ *4	○	×	○	○	○	○	○	○	○	×
CNC M700VS	×	×	×	×	×	×	○ *5	×	×	×	×	×
CNC M70V	×	×	×	×	×	×	○ *5	×	×	×	×	×
CNC M800/M80 NEW	×	×	×	×	×	×	○ *8 *9	×	×	×	×	×

- *1 Connect the GOT as a CC-Link intelligent device station.
- *2 Includes the connection where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.
- *3 When using a CNC C70, the CNC monitor function, the CNC data I/O function, and the CNC machining program edit function can be used in bus connection and Ethernet connection (Display I/F connection only). The above functions are supported by the GOT models of which resolution is SVGA or higher.
- *4 Access via the serial port (RS-232) of QCPU in the multiple CPU system since CNC C70 has no serial port.
- *5 Only cyclic transmission can be used. (CC-Link unit FCU7-HN746 can be used)
- *6 GT23 supports connection using Ethernet connection, direct CPU connection, serial communication connection, or CC-Link connection (via G4).
- *7 When using a CNC C80, the CNC monitor2 function can be used in Ethernet connection (Display I/F connection only).
- *8 Only cyclic transmission can be used. (CC-Link unit FCU8-EX561(WN561) can be used)
- *9 When using M800S/M80, connect FCU8-EX561(WN561) to the relay module for communication extension (FCU8-EX702, or FCU8-EX703).

◆ Mitsubishi Electric power monitoring products

Series	Model name	GT27/GT25/GT23/GT21/GS21 *2			
		RS-485	RS-422	RS-232	Multi-drop connection
Energy measuring unit EcoMonitorLight	EMU4-BD1-MB	○ (2-wire type *1)	×	×	×
	EMU4-HD1-MB	○ (2-wire type *1)	×	×	×
Energy measuring unit EcoMonitorPlus NEW	EMU4-BM1-MB	○ (2-wire type *1)	×	×	×
	EMU4-HM1-MB	○ (2-wire type *1)	×	×	×
	EMU4-LG1-MB	○ (2-wire type *1)	×	×	×
Electronic multi-measuring instrument	ME110SSR-MB	○ (2-wire type *1)	×	×	×
	ME96NSR-MB	○ (2-wire type *1)	×	×	×

- *1 Only MODBUS®/RTU connection is supported. Use the MODBUS®/RTU master communication driver.
- *2 Except GT2103-PMBDS2 and GT2103-PMBLS.

■ Applicable GOT models for each connection type

The GOT to be used differs depending on the connection type.

Model	Connection type	Applicable model	
GT27/GT25	RS-232	All models (Built-in interfaces of the GOT can be used.)	
	RS-422/485		
	Ethernet		
	CC-Link (via G4)		
	Other than above	GT27 all models GT25 models excluding some models (By mounting communication units on the GOT, bus connection, network connection, and others can be used. No communication units can be mounted on GT2510-WXTBD, GT2510-WXTSD, GT2507-WTBD, GT2507-WTSD, GT2507T-WTSD, GT2505-VTBD, GT2506HS-VTBD, and GT2505HS-VTBD.)	
GT23	RS-232	All models (Built-in interfaces of the GOT can be used.)	
	RS-422/485		
	Ethernet		
	CC-Link (via G4)		
GT21/GS21	RS-232	GT2107-WTBD GT2107-WTSD GT2104-RTBD GT2103-PMBDS	GT2103-PMBDS2 GS2110-WTBD GS2107-WTBD
	RS-422/485	GT2107-WTBD GT2107-WTSD GT2104-RTBD GT2103-PMBD	GT2103-PMBDS GT2103-PMBLS *1 GS2110-WTBD *2 GS2107-WTBD *2
	Ethernet	GT2107-WTBD GT2107-WTSD GT2104-RTBD	GT2103-PMBD GS2110-WTBD GS2107-WTBD
	CC-Link (via G4)	GT2107-WTBD GT2107-WTSD GT2104-RTBD GT2103-PMBD	GT2103-PMBDS GT2103-PMBDS2 GS2110-WTBD GS2107-WTBD

- *1 Only connection with MELSEC iQ-F Series and MELSEC-F Series is supported.
- *2 Only RS-422 is supported.

Connectable model list (GOT2000/GOT SIMPLE)

◆ Non-Mitsubishi programmable controllers/Motion controllers/Safety controllers

Manufacturer		Model name		GT27/GT25/GT23/GT21/GS21 ^{*1}						
				Ethernet connection	Direct CPU connection		Serial communication connection		EtherNet/IP connection	
					RS-422	RS-232	RS-422	RS-232		
OMRON Corporation	SYSMAC CJ1	CJ1H	CJ1M	○	×	○	○ ^{*4}		×	
		CJ1G		○	×	○	○ ^{*4}		×	
	SYSMAC CJ2	CJ2H	CJ2M	○	×	○ ^{*5}	○ ^{*4}		×	
		CJ2M		○	×	○ ^{*5}	○ ^{*4}		×	
	SYSMAC CPM	CPM1	CPM1A	×	×	×	×	○	×	
		CPM2A		×	×	×	×	○	×	
		CPM2C		×	×	×	×	○	×	
	SYSMAC CQM1	CQM1		×	×	○ ^{*8}	×	×	×	
	SYSMAC CQM1H	CQM1H		×	×	○	×	×	×	
	SYSMAC CP1	CP1H	CP1L	×	×	×	○	○	×	
		CP1E (N type)		×	×	○ ^{*6}	○ ^{*6*}	○ ^{*6*}	×	
	SYSMAC CS1	CS1H	CS1D ^{*3}	○	×	○	○	○	×	
		CS1G		○	×	○	○	○	×	
	SYSMAC CVM1/CV ^{*9}	CVM1-CPU11-V□	CVM1-CPU01-V□	CV1000-CPU01-V□	×	○ ^{*4}		×	×	×
		CVM1-CPU01-V□	CV500-CPU01-V□		×	○ ^{*4}		×	×	×
		C200HS	C200H		×	×	×	○	○	×
		C200H			×	×	×	○	○	×
		C1000H			×	×	×	○ ^{*4}	○	×
C2000H				×	×	×	○ ^{*4}	○	×	
C200HX		C200HE		×	×	○	○	○	×	
C200HG				×	×	○	○	○	×	
NJ		NJ501-□□□□	NJ301-□□□□	×	×	×	×	×	○	
NJ101-□□□□				×	×	×	×	×	○	
NX	NX1P2-□□□□□□□□	NX701-□□□□	×	×	×	×	×	○		
	NX102-□□□□□□		×	×	×	×	×	○		
KEYENCE CORPORATION	KV-7000	KV-7300		○	○	○	○	○	×	
		KV-7500		○	×	×	○	○	×	
	KV-5000	KV-5000	KV-5500	○	×	×	○	○	×	
		KV-3000		○	×	○	○	○	×	
	KV-1000	KV-1000		○	×	○	○	○	×	
		KV-700		○	×	○	○	○	×	
	KV Nano	KV-N14□□		×	×	○	○	○	×	
		KV-N24□□	KV-N40□□	○	×	○	○	○	×	
KV-N60□□	KV-NC32T		○	×	○	○	○	×		
KOYO ELECTRONICS INDUSTRIES CO., LTD. ^{*2}	DirectLOGIC 05 Series	D0-05AA	D0-05DD	×	×	○	○	○	×	
		D0-05AD	D0-05DD-D	×	×	○	○	○	×	
		D0-05AR	D0-05DR	×	×	○	○	○	×	
	D0-05DA	D0-05DR-D	×	×	○	○	○	×		
	DirectLOGIC 06 Series	D0-06DD1	D0-06AA	×	○	○	○	○	×	
D0-06DD2		D0-06DD1-D	×	○	○	○	○	×		
D0-06DR	D0-06DD2-D	×	○	○	○	○	×			
D0-06DA	D0-06DR-D	×	○	○	○	○	×			
D0-06AR		×	○	○	○	○	×			
DirectLOGIC 205 Series	D2-240		×	×	○	○	○	×		
	D2-250-1	D2-260	×	×	○	○	○	×		
	SU-5E	SU-5M	×	○	○	○	○	×		
KOSTAC SU Series	SU-6B	SU-6M	×	○	○	○	○	×		
			×	○	○	○	○	×		
PZ Series	PZ3		×	○	○	×	×	×		
Sharp Corporation ^{*2}	JW-21CU	JW-31CUH	JW-50CUH	×	×	×	○	×	×	
		JW-22CU	JW-70CUH	×	×	×	○	×	×	
	JW-32CUH	JW-100CUH	×	×	×	○	×	×		
	JW-33CUH	JW-100CU	×	×	×	○	×	×		
	Z-512J		×	×	○ ^{*4}	×	×	×		
JTEKT Corporation ^{*2}	TOYOPUC Series	PC2JC-CPU	PC2J16PR-CPU	×	×	○ ^{*10}	○	○ ^{*10}	×	
		PC2J16P-CPU		×	×	○ ^{*10}	○	○ ^{*10}	×	
		PC2J-CPU	PC2JR-CPU	×	×	×	○	○ ^{*10}	×	
		PC2JS-CPU		×	×	×	○	○ ^{*10}	×	
		PC3JG-P-CPU	PC3JG-CPU	×	×	○ ^{*10}	○	○ ^{*10}	×	
		PC3JD-CPU	PC3JD-C-CPU	×	×	○ ^{*10}	○	○ ^{*10}	×	
PC3J-CPU	PC3JL-CPU	×	○	○ ^{*10}	○	○ ^{*10}	×			
TOSHIBA CORPORATION ^{*2}	PROSEC T Series	T2 (FU224)		×	○	×	×	×	×	
		T2E	T2N	×	○	×	×	×	×	
	PROSEC V Series	T3	T3H	×	○	×	×	×	×	
		model 2000 (S2E)	model 2000 (S2)	×	○	×	×	×	×	
model 2000 (S2T)	model 3000 (S3)	×	○	×	×	×	×			
Unified Controller nv Series	PUB11		○	×	×	×	×	×		
	PUM11	PUM14	○	×	×	×	×	×		
	PUM12		○	×	×	×	×	×		
TOSHIBA MACHINE CO., LTD.	TCmini Series	TC3-01	TC6-00	×	×	○	×	×	×	
		TC3-02	TC8-00	×	×	○	×	×	×	
	Robot controller	TC5-02	TC5-03	×	○ ^{*20}	×	×	×	×	
		TS2000	TS2100	×	×	○	×	×	×	
HITACHI Industrial Equipment Systems Co., Ltd. ^{*2}	Large-sized H Series	H-300	H-1002	×	×	○	○ ^{*4}		×	
		H-302	H-2000	×	×	○	○ ^{*4}		×	
		H-700	H-2002	×	×	○	○ ^{*4}		×	
	H-200 to 252 Series	H-702	H-4010	×	×	○	○ ^{*4}		×	
		H-200	H-252B	×	×	○	×	×	×	
	H-250	H-252C	×	×	○	×	×	×		
	H-252		×	×	○	×	×	×		
H Series board type	HL-40DR	H-28DT	×	×	○	×	×	×		
	HL-64DR	H-40DR	×	×	○	×	×	×		
	H-20DR	H-40DT	×	×	○	×	×	×		
	H-20DT	H-64DR	×	×	○	×	×	×		
H-28DR	H-64DT	×	×	○	×	×	×			
EH-150 Series	EH-CPU104	EH-CPU316	×	×	○	×	×	×		
	EH-CPU208	EH-CPU516	×	×	○	×	×	×		
	EH-CPU308	EH-CPU548	×	×	○	×	×	×		
Hitachi Ltd. ^{*2}	S10V	LQP510		×	○	×	○	○	×	
		LQP520		×	×	×	○	○	×	
	S10mini	LQP000	LQP120	×	×	×	○	○	×	
		LQP010	LQP800	×	×	×	○	○	×	
LQP011		×	×	×	○	○	×			
FUJII ELECTRIC CO., LTD. ^{*2}	MICREX-F	F55	F70	×	×	×	○	○	×	
		F120S	F15□S	×	×	×	○	○	×	
	MICREX-SX SPH	F140S		×	×	×	○	○	×	
		SPH200	SPH300	○	×	○	○	○	×	
SPH2000	SPH3000	○	×	○	○	○	×			

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

Manufacturer	Model name		GT27/GT25/GT23/GT21/GS21 ^{*1}					
			Ethernet connection	Direct CPU connection		Serial communication connection		EtherNet/IP connection
				RS-422	RS-232	RS-422	RS-232	
Panasonic Industrial Devices SUNX Co., Ltd.	FP0R	FP1-C24C	×	×	○	×	×	×
	FP0-C16CT	FP1-C40C						
	FP0-C32CT							
	FP2	FP5	×	×	○	×	○	×
	FP2SH	FP10 (S)						
	FP3	FP10SH						
YASKAWA Electric Corporation	FP-M (C20TC)	FP Σ	×	×	○	×	×	×
	FP-M (C32TC)							
	FP-X		×	×	○	○	○	×
	FP7		×	×	○	○	○	×
	GL120	GL130	×	×	○ ^{*2}	○ ^{*2}	×	×
	GL60S	GL70H	×	×	×	○ ^{*2}	○ ^{*2}	×
	GL60H							
	CP-9200SH		○	×	×	×	○	×
	CP-9300MS		×	×	○ ^{*2}	×	×	×
	MP920		○	×	○	○	○	×
	MP930		×	×	○	×	×	×
	MP940		×	○	○	×	×	×
	PROGIC-8		×	×	○ ^{*2}	×	×	×
	CP-9200 (H)		×	×	○ ^{*2}	×	×	×
	CP-312		○	×	×	×	○	×
	CP-317		○	×	×	×	○	×
MP2200	MP2300S	○	×	×	○	○	×	
MP2300								
MP3200	MP3300	○	×	×	×	×	×	
Yokogawa Electric Corporation ^{*2}	FA500	FA500	×	×	×	○ ^{*14}		×
	FA-M3	F3SP05	F3SP08	○	×	○	○	×
		F3SP10		×	×	×	○	×
		F3SP20	F3SP30	×	×	×	○	×
		F3FP36		○	×	×	○	×
		F3SP21	F3SP38	○	×	○	○	×
		F3SP25	F3SP53					
	F3SP28	F3SP58						
	F3SP35	F3SP59						
	F3SP66	F3SP67	○	×	○	○	×	
	F3SP22-0S		×	×	○	×	×	
	F3SP71-4N		○	×	×	×	×	
	F3SP71-4S		○	×	×	○	×	
F3SP76-7S		○	×	×	×	×		
STARDOM	NFCP100	NFJT100	○ ^{*14}	×	○	×	×	
Allen-Bradley (Rockwell Automation, Inc.)	SLC500 Series ^{*11}	SLC500-20	SLC5/01	×	×	○ ^{*2}	×	×
		SLC500-30	SLC5/02					
		SLC500-40						
		SLC5/03	SLC5/05	×	×	○	×	×
		SLC5/04						
	MicroLogix1000 Series (digital CPU) ^{*11 *12 *13}	1761-L10BWA	1761-L32AAA	○ ^{*15}	×	○	×	×
		1761-L10BWB	1761-L32AWA					
		1761-L16AWA	1761-L32BWA					
		1761-L16BWA	1761-L32BWB					
		1761-L16BWB	1761-L32BBB					
	1761-L16BBB							
	MicroLogix1000 Series (analog CPU) ^{*11}	1761-L20AWA-5A	1761-L20BWB-5A	○ ^{*15}	×	○	×	×
		1761-L20BWA-5A						
	MicroLogix1100 Series ^{*11}	1763-L16BWA						
	MicroLogix1200 Series ^{*11}	1762-L24BWA						
	MicroLogix1400 Series ^{*11}	1766-L32AWA						
	MicroLogix1500 Series ^{*11}	1764-LSP	1764-LRP NEW	○ ^{*15}	×	○	×	×
	ControlLogix Series	1756-L	1756-L1M2	○ ^{*15}	×	○ ^{*2}	×	×
		1756-L1M1	1756-L1M3					
		1756-L55M12	1756-L55M22					
1756-L55M13		1756-L55M23	○ ^{*15}	×	○ ^{*2}	×	×	
1756-L55M14		1756-L55M24						
1756-L55M16								
1756-L61		1756-L63	○ ^{*15}	×	○ ^{*2}	×	×	
1756-L62		1756-L64						
1756-L72S			○ ^{*15}	×	×	×	×	
1756-L71		NEW 1756-L74	NEW 1756-L75	○ ^{*15}	×	×	×	
1756-L72		NEW	NEW					
1756-L73		NEW	NEW					
1756-L81E	NEW 1756-L84E	NEW 1756-L85E	○ ^{*15}	×	×	×		
1756-L82E	NEW	NEW						
1756-L83E	NEW	NEW						
CompactLogix Series	1769-L31		×	×	○ ^{*2}	×	×	
	1769-L32C							
	1769-L35CR							
FlexLogix Series ^{*2}	1769-L32E		○ ^{*15}	×	○ ^{*2}	×	×	
	1769-L35E							
	1794-L33		×	×	○	×	×	
	1794-L34							

Connectable model list (GOT2000/GOT SIMPLE)

◆ Non-Mitsubishi programmable controllers/Motion controllers/Safety controllers

Manufacturer	Model name	GT27/GT25/GT23/GT21/GS21 *1						
		Ethernet connection	Direct CPU connection		Serial communication connection		EtherNet/IP connection	
			RS-422	RS-232	RS-422	RS-232		
GE Intelligent Platforms, Inc. *2	Series 90-30	IC693CPU311 IC693CPU313 IC693CPU323	×	×	×	○	○	×
		IC693CPU350 IC693CPU360 IC693CPU363	×	○	×	○	○	×
		IC697CGR772 IC697CGR935 IC697CPM790 IC697CPU731 IC697CPU780 IC697CPU788 IC697CPU789	×	×	×	○	○	×
	VersaMax Micro	IC200UAA003	×	○	○	×	×	×
		IC200UAR014 IC200UDD104 IC200UDD112	×	×	○	×	×	×
		IC200UAA007 IC200UAL004 IC200UAL005 IC200UAL006	×	○	○	×	×	×
		IC200UAR028 IC200UDD064 IC200UDD164 IC200UDD110	×	○	○	×	×	×
		IC200UADR001 IC200UADR002 IC200UADR003	×	×	○	×	×	×
		IC200UDD120 IC200UDD212 IC200UADR005 IC200UADR006	×	○	○	×	×	×
	LS Industrial Systems Co., Ltd.	K300S	×	×	×	○	○	×
		K200S	×	×	×	○	○	×
		K120S	×	×	○	○	○	×
K80S		×	×	○	○	○	×	
Mitsubishi Electric India Pvt. Ltd.	Nexgenie 2000 PLC	P2210 P2211	P2213A P2214	×	○	×	×	×
	Nexgenie 1000 PLC	NG14RL NG14RN NG16ADL NG16ADN	NG16DL NG16DN	×	○	○	×	×
Schneider Electric SA	Twido Series	○ *14	×	×	×	×	×	
	Modicon Premium Series	○ *14	×	×	×	×	×	
	Modicon Quantum Series	○ *14	×	×	×	×	×	
SICK AG	Flexi Soft Series	FX3-CPU000000 FX3-CPU130002	FX3-CPU320002	×	×	○	×	×
Siemens AG	SIMATIC S7-200 Series	○ *17	×	○	×	×	×	
	SIMATIC S7-300 Series	○ *19	×	○	×	×	×	
	SIMATIC S7-400 Series	○ *19	×	○	×	×	×	
	SIMATIC S7-1200 Series	○ *17	×	×	×	×	×	
SMC Corporation	LECA6	LECP6	×	○ *18	×	×	×	

*1 Select an appropriate GT21 model depending on the connection type. For the details of applicable GOT models for each connection type, please refer to page 164.
 *2 GT21 and GS21 cannot be connected.
 *3 Connectable only when a single communication unit is used in a single CPU system.
 *4 Either RS-422 or RS-232 can be selected.
 *5 Only CJ2M-CPU1□ can be connected.
 *6 Connection is not available with the E type CP1E.
 *7 For CP1E (N type) CPU modules with 20 or less I/O points, only the direct CPU connection is available.
 *8 The CQM1-CPU11 is unable to communicate with GOT since the CQM1-CPU11 has no RS-232 interface.
 *9 SYSMAC CVM1/CV can be used with a CPU version 1 or later.
 *10 An RS-232/RS-422 interface converter (TXU-2051) is required.
 *11 Connection to DH485 network is available via adapter (1770-KF3).
 *12 DH485 connection can be used with a CPU in the series C or later. (DH485 protocol is not supported by a CPU in the series B or earlier.)

*13 One-to-one connection is supported by a CPU in the series D or later. (DF1 half duplex is not supported by a CPU in the series C or earlier.)
 *14 Only MODBUS®/TCP connection is supported. Use the MODBUS®/TCP master communication driver.
 *15 EtherNet/IP (PCCP protocol) is supported.
 *16 Use EtherNet/IP Tag.
 *17 Only OP communication can be used in Ethernet connection of the S7-200 Series and the S7-1200 Series.
 *18 Only MODBUS®/RTU connection is supported. Use the MODBUS®/RTU master communication driver.
 *19 Only OP communication can be used on GT21 and GS21.
 *20 Only RS-485 is supported.
 *21 GT21 and GS21 do not support EtherNet/IP Tag.

■ Modules usable when connected with non-Mitsubishi controllers in serial communication connection, Ethernet connection, EtherNet/IP connection

Manufacturer	Ethernet	RS-422	RS-232	EtherNet/IP
OMRON Corporation	CJ1W-EIP21 CJ1W-ETN21 CS1D-ETN21D CS1W-EIP21 CS1W-ETN21	CJ1W-SCU31-V1 CJ1W-SCU41(-V1) CP1W-CIF11 CP1W-CIF12 CQM1-SCB41 CS1W-SCB41(-V1) C200H-LK202-V1 C200HW-COM03 C200HW-COM06 C500-LK201-V1	CJ1W-SCU21(-V1) CJ1W-SCU41(-V1) CPM1-CIF01 CPM2C-CIF01-V1 CP1W-CIF01 CQM1-CIF02 CQM1-SCB41 CS1W-SCB21(-V1) CS1W-SCB41(-V1) CS1W-SCU21(-V1) C200HW-COM02 C200HW-COM05 C200HW-COM06 C200H-LK201-V1 C500-LK201-V1	CJ1W-EIP21
KEYENCE CORPORATION	KV-LE20V KV-LE21V KV-EP21V KV-NC1EP *3	KV-L20 KV-L20R KV-L20V KV-NC20L KV-N11L	KV-L20 KV-L20R KV-L20V KV-NC10L KV-NC20L KV-N10L	—
KOYO ELECTRONICS INDUSTRIES CO., LTD.	—	D0-DCM D2-DCM U-01DM	D0-DCM D2-DCM U-01DM	—
Sharp Corporation	—	JW-10CM JW-21CM ZW-10CM	—	—
JTEKT Corporation	—	THU-2755 THU-2927 THU-5139	—	—
Hitachi Industrial Equipment Systems Co., Ltd.	—	COMM-H COMM-2H	COMM-H COMM-2H	—

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

Manufacturer		Ethernet	RS-422	RS-232	EtherNet/IP
Hitachi, Ltd.	Communication module	—	LQE165 LQE565	LQE060 LQE160 LQE560	—
FUJII ELECTRIC CO., LTD.	RS-232C interface card	—	—	NV1L-RS2	—
	RS-232C/485 interface capsule		FFK120A-C10	FFK120A-C10	
	General-purpose interface module Communication module		FFU120B NC1L-RS4	FFU120B NC1L-RS2	
			NP1L-RS1 NP1L-RS2 NP1L-RS3	NP1L-RS1 NP1L-RS4 NP1L-RS5	
Ethernet interface module	NP1L-ET1	—	—		
Panasonic Industrial Devices SUNX Co., Ltd.	Computer communication unit Communication cassette	—	AFPX-COM3 AFP7CCM1 AFP7CCM2 AFP7CCS1M1	AFPG801 AFPG802 AFPX-COM1 AFPX-COM2 AFPX-COM4 AFP2462 AFP3462 AFP5462 AFP7CCS1 AFP7CCS2 AFP7CCS1M1 AFP0HCCS1 AFP0HCCS2 AFP0HCCS1M1	—
YASKAWA Electric Corporation	MEMOBUS module Communication module	CP-218IF 218IF 218IF-01 218IF-02 *1 218TXB	JAMSC-IF612 JAMSC-120NOM27100 217IF 217IF-01	CP-217IF JAMSC-IF60 JAMSC-IF61 217IF 217IF-01 218IF-01 218IF-02 *1	—
Yokogawa Electric Corporation	PC link module Ethernet interface module	F3LE01-5T F3LE11-0T F3LE12-0T	F3LC11-2N F3LC11-2F LC02-0N	F3LC01-1N F3LC11-1F F3LC11-1N F3LC12-1F LC01-0N LC02-0N	—
Allen-Bradley (Rockwell Automation, Inc.)	EtherNet/IP communication module	1756-ENBT 1756-ENET 1756-EN2T 1756-EN2TR 1756-EN3TR 1756-EN2TSC 1761-NET-ENI	—	—	1756-ENBT 1756-ENET *2 1756-EN2T 1756-EN2TR 1756-EN3TR 1756-EN2TSC 1788-ENBT/A
GE Intelligent Platforms, Inc.	Communication module	—	IC693CMM311 IC697CMM711	IC693CMM311 IC697CMM711	—
LS Industrial Systems Co., Ltd.	Cnet I/F unit	—	G7L-CUEC	G7L-CUEB	—
	Cnet I/F module	—	G4L-CUEA G6L-CUEC	G4L-CUEA G6L-CUEB	—
Schneider Electric SA	Ethernet module	TSX ETY 4102 TSX ETY 5102 140 NOE 771 00 140 NOE 771 10 140 NWM 100 00	—	—	—
Siemens AG	Ethernet module	CP 243-1 CP 243-1 IT CP 343-1 CP 343-1 Advanced CP 343-1 Advanced-IT CP 343-1 IT CP 343-1 Lean CP 443-1 CP 443-1 IT CP 443-1 Advanced-IT	—	—	—

*1 When connecting MP2200, MP2300, or MP2300S using Ethernet connection or RS-232 connection, use a CPU of the software version 2.60 or later.

*2 Use an EtherNet/IP communication module 1756-ENET of the version B or later.

*3 When using KV-24□□, 40□□, or 60□□, a connection conversion unit (KV-N1) is required.

◆ Servo amplifiers

Manufacturer	Model name	GT27/GT25/GT23	
		RS-485	RS-232
Panasonic Corporation	MINAS A4 Series	○	○
	MINAS A4F Series	○	○
	MINAS A4L Series	○	○
	MINAS A5 Series	○	○

Connectable model list (GOT2000/GOT SIMPLE)

◆ Robot controllers

Manufacturer		Model name			GT27/GT25/GT23/GT21/GS21	
					RS-422	RS-232
IAI Corporation X-SEL controller	ROBO CYLINDER RCA Series dedicated program controller	ASEL	ASEL	×	○	
	ROBO CYLINDER RCP2 Series dedicated program controller	PSEL	PSEL	×	○	
	Single-axis robot/linear servo/ ROBO CYLINDER RCS2 program controller	SSEL	SSEL	×	○	
	Single-axis, multi-axis robot controller	X-SEL	XSEL-J XSEL-K XSEL-KE XSEL-KET	XSEL-KT XSEL-P XSEL-Q	×	○
	SCARA robot controller	X-SEL	XSEL-JX XSEL-KTX XSEL-KX	XSEL-PX XSEL-QX	×	○
IAI Corporation ROBO CYLINDER	RCA2/RCA Series positioner controller	ACON	ACON-C ACON-CG ACON-CY	ACON-PL ACON-PO ACON-SE	○	○
	ERC2 built-in positioner controller	ERC2	ERC2		○	○
	RCP3/RCP2 Series positioner controller	PCON	PCON-C PCON-CA *1 PCON-CF PCON-CFA *1 PCON-CG	PCON-CY PCON-PL PCON-PO PCON-SE	○	○
	RCS2 Series positioner controller	SCON	SCON-C SCON-CA		○	○
TOSHIBA MACHINE CO., LTD.	SCARA robot controller	TTS2000 TTS2100		×	○	

*1 Use PCON-CA or PCON-CFA of V0002 or later.

◆ Temperature controllers/Other control equipment

Manufacturer		Model name		GT27/GT25/GT23/GT21/GS21				
				RS-485	RS-422	RS-232	Ethernet	
Azbil Corporation	AHC2001	AHC2001		○ (4-wire type *11)	×	○	×	
	AUR	AUR350C	AUR450C	○ (2-wire type *1)	×	○ *2	×	
	CMC	CMC10B		○ (4-wire type)	×	○ *2	×	
	CMF	CMF015		○ (2-wire type *1)	×	○ *2	×	
		CMF050		○ (2-wire type *1/4-wire type)	×	○ *2	×	
	CML	CML		○ (2-wire type *1/4-wire type)	×	○ *2	×	
	CMS	CMS		○ (2-wire type *1)	×	○ *2	×	
	DMC	DMC10		○ (2-wire type *1)	×	○ *2	×	
		DMC50		○ (2-wire type *1/4-wire type)	×	×	×	
	MPC	MPC		○ (2-wire type *1)	×	○ *2	×	
	MQV	MQV		○ (2-wire type *1)	×	○ *2	×	
	MVF	MVF		○ (2-wire type *1)	×	○ *2	×	
	NX	NX-D15 NX-D25	NX-D35		○ (2-wire type *1 *9)	×	×	○ *10
		NX-DX1 NX-DX2	NX-DY1 NX-DY2		○ (2-wire type *1 *9)	×	×	○ *10
		NX-S01 NX-S11	NX-S12 NX-S21		○ (2-wire type *1 *9)	×	×	○ *10
	SDC	SDC15 SDC25 SDC26	SDC35 SDC36		○ (2-wire type *1)	×	○ *2	×
		SDC45	SDC46		○ (2-wire type *1)	×	○ *2	×
		SDC20 SDC21 SDC30 SDC31	SDC40A SDC40B SDC40G		○ (2-wire type *1/4-wire type)	×	○ *2	×
		PBZ	PBC201-VN2		○ (2-wire type *1/4-wire type)	×	○ *2	×
RX		RX		○ (2-wire type *1)	×	○ *2	×	
OMRON Corporation	INPANEL NEO	E5ZN		○ (2-wire type *1)	×	○ *2	×	
	THERMAC NEO	E5AN E5EN	E5CN E5GN	○ (2-wire type *1)	×	○ *2	×	
		E5AN-H E5AN-HT	E5EN-H E5EN-HT	○ (2-wire type *1)	○	○ *2	×	
		E5ON-H	E5CN-HT	○ (2-wire type *1)	×	○ *2	×	
	E5□C Series	E5AC E5CC E5DC	E5EC E5GC	○ (2-wire type *1)	×	○ *2	×	
		E5CC-B	E5EC-B	○ (2-wire type *1)	×	○ *2	×	
		E5AC-T E5CC-T	E5EC-T	○ (2-wire type *1)	×	○ *2	×	
	E5□D Series	E5CD E5CD-B	E5ED E5ED-B	○ (2-wire type *1)	×	○ *2	×	
	THERMAC R	E5AR E5AR-T	E5ER E5ER-T	○ (2-wire type *1)	×	○ *2	×	
		ACS-13A Series	ACS-13A-□□□□, C5 *8		○ (2-wire type *1)	×	○ *2	×
DCL-33A Series	DCL-33A-□□□□, C5 *8		○ (2-wire type *1)	×	○ *2	×		
JC Series	JCD-33A-□□□□, C5 *8		○ (2-wire type *1)	×	○ *2	×		
	JCR-33A-□□□□, C5 *8 JCS-33A-□□□□, C5 *8		○ (2-wire type *1)	×	○ *2	×		
JCM-33A Series	JCM-33A-□□□□, C5 *8		○ (2-wire type *1)	×	○ *2	×		
FCR-100 Series	FCR-13A-□□□□, C5 *8	FCR-15A-□□□□, C5 *8	×	×	○ *4	×		
FCD-100 Series	FCD-13A-□□□□, C5 *8	FCD-15A-□□□□, C5 *8	×	×	○ *4	×		
FCR-23A Series	FCR-23A-□□□□, C5 *8		×	×	○ *4	×		

*12

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

Manufacturer		Model name		GT27/GT25/GT23/GT21/GS21					
				RS-485	RS-422	RS-232	Ethernet		
Shinko Technos Co., Ltd. *12	PC-900 Series	PC935-□/M,C		X					
		PC935-□/M,C5 *8		○ (2-wire type *1)	X	○ *4	X		
		PC955-□/M,C		X					
		PC955-□/M,C5 *8		○ (2-wire type *1)					
	PCD-300 Series	PCD-33A-□/M,C5 *8		○ (2-wire type *1)	X	○ *4	X		
CHINO CORPORATION *12	FIR Series	FIR-201-M,C		X	X	○ *4	X		
	JIR-301-M Series	JIR-301-M□,C5 *8		○ (2-wire type *1)	X	○ *2	X		
	AH3000 Series	AH3000		○ (2-wire type *1)	○	○	X		
	AL3000 Series	AL3000		○ (2-wire type *1)	○	○	X		
	DB1000 Series	DB1000		○ (2-wire type *1)	○	○	X		
	DB2000 Series	DB2000		○ (2-wire type *1)	○	○	X		
	DZ1000 Series	DZ1000 *7		○ (2-wire type *1)	○	○	X		
	DZ2000 Series	DZ2000 *7		○ (2-wire type *1)	○	○	X		
	GT120 Series	GT120		○ (2-wire type *1)	X	○ *2	X		
	JJ Series	JJ		○ (2-wire type *1)	○	X	X		
	KE Series	KE3000		○ (2-wire type *1)	○	X	X		
	KP Series	KP1000	KP2000	○ (2-wire type *1)	○	○	X		
	LE5000 Series	LE5000		○ (2-wire type *1)	○	X	X		
	LT230 Series	LT230		○ (2-wire type *1)	X	○ *2	X		
LT300 Series	LT350	LT370	○ (2-wire type *1)	○	○	X			
LT400 Series	LT450	LT470	○ (2-wire type *1)	○	○	X			
LT830 Series	LT830		○ (2-wire type *1)	X	○ *2	X			
SE3000 Series	SE3000		○ (2-wire type *1)	○	○	X			
FUJII ELECTRIC CO., LTD.	Temperature controller	PXF	NEW	PXF4/5/9	NEW				
		PXG		PXG4/5/9		○ (2-wire type *1)	X	○ *2	X
	PXR		PXR3/4/5/9						
Digital controller	PXH		PXH9		○ (2-wire type *1)	X	○ *2	X	
Multi-loop module type temperature controller	PUM		PUMA/B		○ (2-wire type *1)	X	○ *2	X	
Yokogawa Electric Corporation *12	GREEN Series (UM)	UM330		UM350		○ (2-wire type *1)	X	○ *2	X
		UM331		UM351					
	GREEN Series (UP)	UP350		UP550		○ (2-wire type *1/4-wire type)	X	○ *2	X
		UP351							
		UP750				○ (2-wire type *1)	X	○ *2	X
	GREEN Series (US)	US1000				○ (2-wire type *1)	X	○ *2	X
	GREEN Series (UT)	UT320		UT450		○ (2-wire type *1/4-wire type)	X	○ *2	X
		UT321		UT520					
		UT350		UT550					
		UT351		UT551					
		UT420							
UT100 Series (UP)	UP150				○ (2-wire type *1)	X	○ *2	X	
UT100 Series (UT)	UT130		UT152		○ (2-wire type *1)	X	○ *2	X	
	UT150		UT155						
UT2000 Series	UT2400		UT2800		○ (4-wire type)	X	○ *2	X	
UTAdvanced Series (UM)	UM33A				○ (2-wire type *1/4-wire type)	X	○ *2	○ *10	
UTAdvanced Series (UP)	UP35A		UP55A		○ (2-wire type *1/4-wire type)	X	○ *2	○ *10	
	UP32A	NEW			○ (2-wire type *1/4-wire type)	X	○ *2	X	
UTAdvanced Series (UT)	UT32A		UT55A		○ (2-wire type *1/4-wire type)	X	○ *2	○ *10	
	UT35A		UT75A						
	UT52A				○ (2-wire type *1)				
FKC INSTRUMENT INC. *12	SR Mini HG	H-PCP-J				○ (2-wire type *1)	○	○	X
		H-PCP-A		H-PCP-B *7		X	○	○	X
	SRZ	Z-CT				○ (2-wire type *1 *6)	○ *5	○ *2 *3	○ *10
		Z-DIO							
		Z-TIO							
	CB *7	CB100		CB700		○ (2-wire type *1)	X	○ *2	X
		CB400		CB900					
	FB	FB100				○ (2-wire type *1/4-wire type)	X	○ *2	○ *10
		FB400		FB900		○ (2-wire type *1/4-wire type)	○	○ *2 *3	○ *10
	RB	RB100		RB700		○ (2-wire type *1)	X	○ *2	X
		RB400		RB900					
	RB500								
	PF	PF900		PF901		○ (2-wire type *1/4-wire type)	○	○ *2 *3	X
	HA	HA400		HA900		○ (2-wire type *1/4-wire type)	○	○	X
		HA401		HA901					
	RMC	RMC500				○ (2-wire type *1)	X	○ *2	X
	MA	MA900		MA901		○ (2-wire type *1/4-wire type)	○	○	X
	AG	AG500				○ (2-wire type *1/4-wire type)	○	X	X
	THV	THV-A1				○ (2-wire type *1/4-wire type)	○	X	X
	SA	SA100		SA200		○ (2-wire type *1)	X	○ *2	X
SRX	X-TIO				○ (2-wire type *1)	X	○ *2	X	
SB1	SB1				○ (2-wire type *1)	X	○ *2	X	
B400	B400				○ (2-wire type *1)	○	X	X	
FZ	FZ110				○ (2-wire type *1)	X	○ *2	X	
	FZ400		FZ900		○ (2-wire type *1)	○	○ *2 *3	X	
RZ	RZ100		RZ400		○ (2-wire type *1)	X	○ *2	X	
SRJ	J-TI-A	NEW	J-TI-B		○ (2-wire type *1)	X	○ *2	X	

*1 GT27/GT25: Use RS-422/485 interface, GT15-RS4-TE, or FA-LTBGT2R4CBL□. GT15-RS4-9S cannot be used.
 *2 If the temperature controller/indicating controller has an RS-485 interface, use an RS-232/RS-485 converter for the manufacturer.
 *3 If the temperature controller/indicating controller has an RS-422 interface, use an RS-232/RS-422 converter for the manufacturer.
 *4 Only the indicating controller equipped with RS-232 communication function can be connected.
 *5 Use a communication extension module (Z-COM).
 *6 Use a communication extension module (Z-COM) depending on the system configuration of the temperature controller.
 *7 Select a model that supports the MODBUS® communication function.
 *8 Connectable with the products manufactured in October 2007 or later (Indicating controllers with the serial numbers 07Axxxxxx, 07Kxxxxxx, and 07Xxxxxxx or later).
 *9 Only MODBUS®/RTU connection is supported. Use the MODBUS®/RTU master communication driver.
 *10 Only MODBUS®/TCP connection is supported. Use the MODBUS®/TCP master communication driver.
 *11 Use a serial communication unit SCU.
 *12 GT21 and GS21 cannot be connected.

Connectable model list (GOT2000/GOT SIMPLE)

◆ MODBUS® devices

Communication with MODBUS® compatible devices is possible by using the MODBUS®/RTU master or MODBUS®/RTU slave communication driver, or the MODBUS®/TCP master or MODBUS®/TCP slave communication driver.

For the MODBUS® devices, which have been checked for operation, please refer to the Technical Bulletin "List of Valid Devices Applicable for GOT2000 Series MODBUS® Connection" (No. GOT-A-0070) on the Mitsubishi Electric Factory Automation Global website.

◆ PROFIBUS DP devices

Communication with PROFIBUS DP-compliant devices is possible by using the PROFIBUS DP communication driver. (GT27, GT25 only)

For the PROFIBUS DP-compliant devices, please refer to the Technical Bulletin "List of PROFIBUS DP-compliant Equipment Validated to Operate with the GOT2000 Series" (No. GOT-A-0083) on the Mitsubishi Electric Factory Automation Global website.

◆ DeviceNet devices

Communication with DeviceNet-compliant devices is possible by using the DeviceNet communication driver. (GT27, GT25 only)

For the DeviceNet-compliant devices, please refer to the Technical Bulletin "List of DeviceNet-compliant Equipment Validated to Operate with the GOT2000 Series" (No. GOT-A-0084) on the Mitsubishi Electric Factory Automation Global website.

◆ Microcomputer connection

By connecting a personal computer, microcomputer board, programmable controller, etc. to a GOT, the data can be written to or read from virtual devices of the GOT.

◆ SLMP devices

Communication with SLMP compatible devices is possible by using the SLMP communication driver.

For the SLMP devices, which have been checked for operation, please refer to the Technical Bulletin "List of SLMP-compatible Equipment Validated to Operate with the GOT2000 Series" (No. GOT-A-0085) on the Mitsubishi Electric Factory Automation Global website.

◆ CC-Link IE Field Network Basic-compatible devices

Communication with CC-Link IE Field Network Basic-compatible devices is possible by using the Ethernet (CC-Link IE Field Network Basic) communication driver.

The GOT2000 Series operates as a slave station and is connectable to CC-Link IE Field Network Basic-compatible devices that operate as master stations.

For the CC-Link IE Field Network Basic-compatible devices, please refer to the Technical Bulletin "List of CC-Link IE Field Network Basic-compatible Equipment Validated to Operate with the GOT2000 Series" (No. GOT-A-0104) on the Mitsubishi Electric Factory Automation Global website.

■ Applicable GOT models for each connection type

The GOT to be used differs depending on the connection type.

Model	Connection type	Applicable model	
GT27/GT25	RS-232	All models (Built-in interfaces of the GOT can be used.)	
	RS-422/485		
	Ethernet		
	CC-Link (via G4)		
	Other than above	GT27 all models GT25 models excluding some models (By mounting communication units on the GOT, bus connection, network connection, and others can be used. No communication units can be mounted on GT2510-WXTBD, GT2510-WXTSD, GT2507-WTBD, GT2507-WTSD, GT2507T-WTSD, GT2505-VTBD, GT2506HS-VTBD, and GT2505HS-VTBD.)	
GT23	RS-232	All models (Built-in interfaces of the GOT can be used.)	
	RS-422/485		
	Ethernet		
	CC-Link (via G4)		
GT21/GS21	RS-232	GT2107-WTBD	GT2103-PMBDS2
		GT2107-WTSD	GS2110-WTBD
		GT2104-RTBD	GS2107-WTBD
		GT2103-PMBDS	
	RS-422/485	GT2107-WTBD	GT2103-PMBDS
		GT2107-WTSD	GT2103-PMBSL ^{*1}
		GT2104-RTBD	GS2110-WTBD ^{*2}
		GT2103-PMBSL	GS2107-WTBD ^{*2}
Ethernet	GT2107-WTBD	GT2103-PMBSL	
	GT2107-WTSD	GS2110-WTBD	
CC-Link (via G4)	GT2104-RTBD	GS2107-WTBD	
	GT2107-WTBD	GT2103-PMBDS	
	GT2107-WTSD	GT2103-PMBDS2	
	GT2104-RTBD	GS2110-WTBD	
	GT2103-PMBSL	GS2107-WTBD	

*1 Only connection with MELSEC iQ-F Series and MELSEC-F Series is supported.

*2 Only RS-422 is supported.

Connectable model list (GT SoftGOT2000 Version1)

◆ Mitsubishi Electric programmable controllers/C Controller modules/Safety controllers/Motion controllers

Series	Model name	Connection type											
		Ethernet connection		Direct CPU connection		Serial communication connection	CC-Link TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	MELSEC NET/H connection	MELSEC NET/10 connection ¹		
		Single	Multi NEW	RS-232	USB								
Programmable controller	MELSEC IQ-R Series	R00CPU NEW											
		R01CPU NEW											
		R02CPU NEW											
		R04CPU											
		R08CPU											
		R16CPU											
		R32CPU	○	○	×	○	○	×	○	○	×	×	
		R120CPU											
		R04ENCPU											
		R08ENCPU											
		R16ENCPU											
		R32ENCPU											
		R120ENCPU											
		Safety CPU	R08SFCPU ^{*27}										
			R16SFCPU ^{*27}	○	○	×	○	○	×	○	○	×	×
	R32SFCPU ^{*27}												
	R120SFCPU ^{*27}												
	R08PCPU ^{*28}												
	Process CPU	R16PCPU ^{*28}	○	○	×	○	○	×	○	○ ^{*29}	×	×	
		R32PCPU ^{*28}											
		R120PCPU ^{*28}											
		R08PSFCPU ^{*30} NEW											
		R16PSFCPU ^{*30} NEW	○	○	×	○	×	×	○	○ ^{*29}	×	×	
	High-speed universal model QCPU	R32PSFCPU ^{*30} NEW											
		R120PSFCPU ^{*30} NEW											
		Q03UDVCPUCPU											
		Q04UDVCPUCPU											
		Q06UDVCPUCPU	○ ^{*23}	○ ^{*23}	○ ^{*18}	○	○	×	○ ^{*2}	○ ^{*4}	○ ^{*23}	○ ^{*23}	
		Q13UDVCPUCPU											
		Q26UDVCPUCPU											
		Universal model QCPU	Q00UJCPU										
			Q00UCPU							○ ^{*2}			
			Q01UCPU										
			Q02UCPU							○ ^{*3}			
			Q03UDCPUCPU										
			Q04UDHCPUCPU	○ ^{*23}	○ ^{*23}	○	○	○	×		○ ^{*4}	○ ^{*23}	○ ^{*23}
			Q06UDHCPUCPU										
			Q10UDHCPUCPU							○ ^{*2}			
	Q13UDHCPUCPU												
	Q20UDHCPUCPU												
	MELSEC-Q Series (Q mode)	Q26UDHCPUCPU											
		Built-in Ethernet type	Q03UDECPUCPU							○ ^{*3}			
			Q04UDEHCPUCPU										
			Q06UDEHCPUCPU										
			Q10UDEHCPUCPU										
			Q13UDEHCPUCPU	○ ^{*23}	○ ^{*23}	○ ^{*18}	○	○	×	○ ^{*2}	○ ^{*4}	○ ^{*23}	○ ^{*23}
		Q20UDEHCPUCPU											
		Q26UDEHCPUCPU											
		Q50UDEHCPUCPU											
		Q100UDEHCPUCPU											
	Basic model QCPU	Q00JCPU											
		Q00CPU ^{*6}	○ ^{*23}	○ ^{*23}	○	×	○	×	○ ^{*5}	×	○ ^{*23}	○ ^{*23}	
		Q01CPU ^{*6}											
		Q02CPU ^{*6}				×							
		Q02HCPUCPU ^{*6}											
	High performance model QCPU	Q06HCPUCPU ^{*6}	○ ^{*23}	○ ^{*23}	○	○	○	×	○ ^{*7}	×	○ ^{*23}	○ ^{*23}	
		Q12HCPUCPU ^{*6}				○							
		Q25HCPUCPU ^{*6}											
		Q02PHCPUCPU							○ ^{*8}				
		Q06PHCPUCPU	○ ^{*23}	○ ^{*23}	○	○	○	×	○ ^{*9}	×	○ ^{*23}	○ ^{*23}	
	Process CPU	Q12PHCPUCPU											
		Q25PHCPUCPU											
		Q12PRHCPUCPU	○	○	○	○	×	×	○ ^{*9}	×	○ ^{*10}	○ ^{*10}	
	Redundant CPU (main base)	Q25PRHCPUCPU											
		Q12PRHCPUCPU	○	○	×	×	○	×	×	×	×	×	
	Redundant CPU (extension base)	Q25PRHCPUCPU											
		Q12PRHCPUCPU	○	○	×	×	○	×	×	×	×	×	
	MELSEC-QS Series	Q5001CPU	○	○	×	○ ^{*11}	×	×	○ ^{*12}	○ ^{*13}	○	○	
	MELSEC-L Series	L02SCPU	○ ^{*14}	○ ^{*15}	○ ^{*14}	○	○	○	×	×	○ ^{*16}	×	
		L02SCPU-P											
		L02CPU											
		L02CPU-P											
		L06CPU											
		L06CPU-P	○ ^{*14}	○ ^{*14}	○ ^{*17}	○	○	×	×	○ ^{*16}	×	×	
		L26CPU											
		L26CPU-P											
		L26CPU-BT											
		L26CPU-PBT											
	MELSEC IQ-F Series	FX5U	○	○	○	×	×	×	×	×	×	×	
		FX5UC											
		FX5UJ NEW				○							

• There are two ways of usage of GT SoftGOT2000: GT SoftGOT2000 for single channel connection and GT SoftGOT2000 (Multi-channel) for multi-channel connection. GT SoftGOT2000 (Multi-channel) supports Ethernet connection, connection to OPC UA servers, or connection to microcomputers. Therefore in the following list, Ethernet connection column is separated in two columns: Single (GT SoftGOT2000) and Multi (GT SoftGOT2000 (Multi-channel)). For connection with OPC UA servers or microcomputers, please refer to page 170.

• For the details of the connection configuration, please refer to the GT SoftGOT2000 Version1 Operating Manual.

- There are two ways of usage of GT SoftGOT2000: GT SoftGOT2000 for single channel connection and GT SoftGOT2000 (Multi-channel) for multi-channel connection. GT SoftGOT2000 (Multi-channel) supports Ethernet connection, connection to OPC UA servers, or connection to microcomputers. Therefore in the following list, Ethernet connection column is separated in two columns: Single (GT SoftGOT2000) and Multi (GT SoftGOT2000 (Multi-channel)). For connection with OPC UA servers or microcomputers, please refer to page 170.
- For the details of the connection configuration, please refer to the GT SoftGOT2000 Version1 Operating Manual.

Series	Model name	Connection type										
		Ethernet connection		Direct CPU connection		Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	MELSEC NET/H connection	MELSEC NET/10 connection ¹	
		Single	Multi NEW	RS-232	USB							
Programmable controller	MELSEC-F Series	FX0	×	×	○	×	×	×	×	×	×	×
		FX0S										
		FX0N										
		FX1										
		FX1S	×	×	○	×	×	×	×	×	×	×
		FX1N										
		FX1NC										
		FX2										
		FX2C	×	×	○	×	×	×	×	×	×	×
		FX2N										
		FX2NC										
		FX3G	○	○ ^{*31}	○	○	×	×	×	×	×	×
		FX3GC										
FX3U												
FX3UC	○	○ ^{*31}	○	○	×	×	×	×	×	×		
FX3S												
FX3GE												
Controller module	MELSEC iQ-R Series	R12CCPU-V	○ ^{*25}	○ ^{*25}	×	○ ^{*26}	○ ^{*19}	×	○	○	×	×
		Q24DHCCPU-V										
	MELSEC-Q Series	Q24DHCCPU-VG										
		Q24DHCCPU-LS	○	○	○ ^{*18}	○	○ ^{*19}	×	○ ^{*2}	○	○	○
		Q26DHCCPU-LS										
		Q12DCCPU-V ^{*20}										
Safety controller	MELSEC-WS Series	WS0-CPU0										
		WS0-CPU1	×	×	×	×	×	×	×	×	×	
		WS0-CPU3										
Motion controller	MELSEC iQ-R Series	R16MTCPU										
		R32MTCPU	○	○	×	○	○	×	○	○	×	×
		R64MTCPU										
		Q172CPU Discontinued	×	×	×	×	×	×	×	×	×	×
	Q173CPU Discontinued											
	Q172CPUN Discontinued	×	×	×	×	×	×	×	×	×	×	
	Q173CPUN Discontinued											
	Q172HCPU Discontinued	×	×	×	×	×	×	×	×	×	×	
	Q173HCPU Discontinued											
	Q172DCPU	×	×	×	×	×	×	×	×	×	×	
	Q173DCPU											
	Q172DCPU-S1	×	×	×	×	×	×	×	×	×	×	
	Q173DCPU-S1											
	Q172DSCPU	○ ^{*23}	○ ^{*23}	○ ^{*18}	○	○	×	○	×	○ ^{*23}	○ ^{*23}	
	Q173DSCPU											
	Q170MCPU ^{*21} ^{*22}	○ ^{*23}	○ ^{*23} ^{*32}	○	○	○	×	○	○ ^{*4}	○ ^{*23}	○ ^{*23}	
	Q170MSCPU ^{*22}											
Q170MSCPU-S1 ^{*22}	○ ^{*23}	○ ^{*23}	○	○	○	×	○	○	○ ^{*23}	○ ^{*23}		
MR-MQ100	×	×	×	×	×	×	×	×	×	×		
MELSECNET/H remote I/O station		QJ72LP25-25										
		QJ72LP25G	×	×	○	×	×	×	×	×	×	
		QJ72BR15										
CC-Link IE Field Network head module	MELSEC iQ-R Series	RJ72GF15-T2	○	○	×	○	○	×	×	○ ^{*29}	×	×
	MELSEC-L Series	LJ72GF15-T2	×	×	×	○	○	×	×	○	×	×
CC-Link IE Field Network Ethernet adapter module		NZ2GF-ETB ^{*24}	○	○	×	×	×	×	×	×	×	×

- ^{*1} Includes the connection where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.
- ^{*2} Use a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042.
- ^{*3} Use a CPU and a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042.
- ^{*4} Use a CPU with the upper five digits of the serial No. later than 12012.
- ^{*5} Use a CPU of function version B or later or a CC-Link IE Controller Network module of function version D or later.
- ^{*6} For the multiple CPU system configuration, use a CPU of function version B or later.
- ^{*7} Use a CPU with the upper five digits of the serial No. later than 09012. When the total number of stations in a network is 65 or more, use a CC-Link IE Controller Network module with the upper five digits of the serial No. 09042 or later.
- ^{*8} When the total number of stations in a network is 65 or more, use a CC-Link IE Controller Network module with the upper five digits of the serial No. 09042 or later.
- ^{*9} Use a CPU with the upper five digits of the serial No. later than 10042 or a CC-Link IE Controller Network module of function version D or later.
- ^{*10} Use a MELSECNET/H interface board driver (SW7DNC-MNETH-B) with the version K or later.
- ^{*11} Only the host station and the host station settings can be accessed. (Access to other stations or other PLC CPUs are not allowed.)
- ^{*12} Use a CPU with the upper five digits of the serial No. later than 10032 or a CC-Link IE Controller Network module of function version D or later.
- ^{*13} Use a CPU with the upper five digits of the serial No. later than 13042.
- ^{*14} When using a LJ71E71-100, use a CPU with the upper five digits of the serial No. later than 14112.
- ^{*15} Use a LJ71E71-100 since L02SCPU and L02SCPU-P have no built-in Ethernet port.
- ^{*16} Use a CPU with the upper five digits of the serial No. later than 13012.
- ^{*17} The adapter L6ADP-R2 is required.
- ^{*18} Access via the serial port (RS-232) of QCPU in the multiple CPU system since the CPU has no serial port.
- ^{*19} Use the serial port of a serial communication module controlled by another CPU on the multiple CPU system.
- ^{*20} Use a CPU with the upper five digits of the serial No. later than 12042.

- ^{*21} When using SV43, use the motion CPU on which any of the following main OS software version is installed. SW7DNC-SV43□□: 00F or later
- ^{*22} Only the PLC CPU area (CPU No.1) can be connected. The PERIPHERAL I/F cannot be used.
- ^{*23} In the Ethernet, MELSECNET/H, or MELSECNET/10 connection, to monitor a QCPU in the multiple CPU system, always use a network module of function version B or later.
- ^{*24} Devices of other stations can be monitored via NZ2GF-ETB. (Devices of the host station cannot be monitored.)
- ^{*25} Use the built-in Ethernet port since RJ71EN71 is not supported.
- ^{*26} Access via the RCPU in the multiple CPU system since the CPU has no USB port to connect to a personal computer.
- ^{*27} Mount a safety function module R6SFM next to the RnSFCPU on the base unit. The RnSFCPU and the safety function module R6SFM must have the same pair version. If their pair versions differ, the RnSFCPU does not operate.
- ^{*28} Mount a redundant function module R6RFM next to the RnPCPU on the base unit when building a redundant system.
- ^{*29} In a redundant system, use a CC-Link IE Field Network interface board with the upper five digits of the serial No. 18042 or later.
- ^{*30} Mount the SIL2 function module R6PSFM and redundant function module R6RFM next to the RnPSFCPU on the base unit.
- ^{*31} The supported version of the main units varies depending on the Ethernet module to be used.

Ethernet module [*]	CPU		
	FX3U(C)	FX3G(C)	FX3S
FX3U-ENET-L	Ver. 2.21 or later	FX3U-ENET-L is not supported.	
FX3U-ENET-ADP [*]	Ver. 3.10 or later	Ver. 2.00 or later	Ver. 1.00 or later

^{*}To connect to FX3SCPU, use FX3U-ENET-ADP Ver.1.20 or later.

- ^{*32} PERIPHERAL I/F can be used.

■ Modules usable when connected with Mitsubishi Electric programmable controllers/C Controller modules/
Motion controllers

● Ethernet connection

● Programmable controller Ethernet modules

CPU series	Ethernet module
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series) CC-Link IE Field Network head module (MELSEC iQ-R Series)	RJ71EN71 *4 RJ71GN11-T2 *6 *7 *8 *9 NEW
MELSEC-Q Series (Q mode) MELSEC-QS Series C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series) *1	QJ71E71-100 QJ71E71-B5 QJ71E71-B2 QJ71E71
MELSEC-L Series	LJ71E71-100 *2
MELSEC-F Series	FX3U-ENET-L *3 FX3U-ENET-ADP *3 *5

*1 When connecting to a Q170MCPUCPU/Q170MSCPUCPU(-S1), only the PLC CPU area (CPU No.1) can be monitored. The PERIPHERAL I/F cannot be used.
*2 When using a LJ71E71-100, use a CPU with the upper five digits of the serial No. later than 14112.
*3 Options for extension controller may be required depending on the connected CPU.
*4 Use firmware version 12 or higher when building a redundant system.
*5 Use FX3U-ENET-ADP Ver.1.20 or higher to connect to FX3SCPU.
*6 Only available to GT SoftGOT2000 (Multi-channel).
*7 Usable with MELSEC iQ-R Series programmable controller CPUs only.
*8 Use firmware version 11 or higher when using R00CPU, R01CPU, or R02CPU.
*9 Use firmware version 43 or higher when using programmable controller CPUs (excluding R00CPU, R01CPU, R02CPU).

● Serial communication connection *1

● Programmable controller serial communication modules

CPU series	Serial communication module	
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series) CC-Link IE Field Network head module (MELSEC iQ-R Series)	RJ71C24 *3 RJ71C24-R2 *3	
MELSEC-Q Series (Q mode) C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series) *2	QJ71C24 QJ71C24-R2 QJ71C24N QJ71C24N-R2	QJ71CMO QJ71CMON
MELSEC-L Series CC-Link IE Field Network head module (MELSEC-L Series)	LJ71C24 LJ71C24-R2	

*1 Only RS-232C communication can be used.
*2 When connecting to a Q170MCPUCPU/Q170MSCPUCPU(-S1), only the PLC CPU area (CPU No.1) can be monitored.
*3 Use firmware version 07 or higher when building a redundant system.

● CC-Link IE TSN connection

CPU Series	CC-Link IE TSN module
MELSEC iQ-R Series	x

● CC-Link IE Controller Network connection

● Network modules (programmable controller side)

CPU series	CC-Link IE Controller Network module
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series)	RJ71GP21-SX *2
MELSEC-Q Series (Q mode) MELSEC-QS Series C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series) *1	QJ71GP21-SX QJ71GP21S-SX

*1 When connecting to a Q170MCPUCPU/Q170MSCPUCPU(-S1), only the PLC CPU area (CPU No.1) can be monitored.
*2 Use firmware version 12 or higher when building a redundant system.

● Network interface boards (personal computer side)

Type	Network interface board
CC-Link IE Controller Network	Q80BD-J71GP21-SX Q80BD-J71GP21S-SX Q81BD-J71GP21-SX (optical loop) Q81BD-J71GP21S-SX (optical loop, with external power supply function)

Specifications **CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG**

- There are two ways of usage of GT SoftGOT2000: GT SoftGOT2000 for single channel connection and GT SoftGOT2000 (Multi-channel) for multi-channel connection. GT SoftGOT2000 (Multi-channel) supports Ethernet connection, connection to OPC UA servers, or connection to microcomputers. Therefore in the following list, Ethernet connection column is separated in two columns: Single (GT SoftGOT2000) and Multi (GT SoftGOT2000 (Multi-channel)). For connection with OPC UA servers or microcomputers, please refer to page 170.
- For the details of the connection configuration, please refer to the GT SoftGOT2000 Version1 Operating Manual.

● CC-Link IE Field Network connection

• Network modules (programmable controller side)

CPU series	CC-Link IE Field Network module
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series)	RJ71GF11-T2 *2 RJ71EN71 RD77GF4 RD77GF8 RD77GF16 RD77GF32
MELSEC-Q Series (Q mode) C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series) *1	QJ71GF11-T2
MELSEC-QS Series	QS0J71GF11-T2
MELSEC-L Series	LJ71GF11-T2
MELSEC iQ-F Series	x

- *1 When connecting to a Q170MCPUCPU/Q170MSCPU(-S1), only the PLC CPU area (CPU No.1) can be monitored.
*2 Use firmware version 12 or higher when building a redundant system.

• Network interface boards (personal computer side)

Type	Network interface board
CC-Link IE Field Network	Q81BD-J71GF11-T2

● MELSECNET/H, MELSECNET/10 connection

• Network modules (programmable controller side)

CPU series	MELSECNET/H, MELSECNET/10 network module	
	Optical loop	Coaxial bus
MELSEC-Q Series (Q mode) *1 MELSEC-QS Series Motion controller (MELSEC-Q Series) *2	QJ71LP21 QJ71LP21S-25 QJ71LP21S-25	QJ71BR11 *1
C Controller module (MELSEC-Q Series)	QJ71LP21-25 QJ71LP21S-25	

- *1 Use function version B or later of the MELSECNET/H network module and CPU.
*2 When connecting to a Q170MCPUCPU/Q170MSCPU(-S1), only the PLC CPU area (CPU No.1) can be monitored.

• Network interface boards (personal computer side)

Type	Network interface board
MELSECNET/H	Q80BD-J71LP21-25 (optical loop) Q80BD-J71LP21S-25 (optical loop, with external power supply function) Q80BD-J71LP21G (optical loop) Q80BD-J71BR11 (coaxial loop) Q81BD-J71LP21-25 (optical loop)

◆ Mitsubishi Electric industrial computer **NEW**

Series	Model name	Connection type										
		Ethernet connection		Direct CPU connection		Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	MELSEC NET/H connection	MELSEC NET/10 connection *1	MELIPC direct connection
		Single	Multi NEW	RS-232	USB							
MELIPC	MI5122-VW	○	○	x	x	x	x	x	○	x	x	○

- *1 Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

◆ Mitsubishi Electric inverters **NEW**

Series	Model name	Connection type				
		Ethernet connection		RS-485	RS-232	Multi-drop connection
		Single	Multi NEW			
FR-A800 Series	FR-A8□□ *1	x	○ *3	x	x	x
	FR-A8□2 *1					
	FR-A8□6 *1					
	FR-A8□0-E *2					
	FR-A8□2-E *2					
	FR-A8□6-E *2					
	FR-A8□0-GF *1					
FR-A8□2-GF *1						
FR-A800 Plus Series	FR-A8□0-CRN *1	x	○ *3	x	x	x
	FR-A8□2-CRN *1					
	FR-A8□0-E-CRN *2					
	FR-A8□2-E-CRN *2					
	FR-A8□0-R2R *1					
	FR-A8□2-R2R *1					
FR-F800 Series	FR-F8□□ *1	x	○ *3	x	x	x
	FR-F8□2 *1					
	FR-F8□6 *1					
	FR-F8□0-E *2					
FR-E700 Series	FR-E7□0-NE *2	x	○ *3	x	x	x

- *1 Inverter connection is supported by using CC-Link IE Field Network connection via a programmable controller CPU.
*2 Inverter connection is supported by using Ethernet connection via a programmable controller CPU.
*3 Connection is supported by using RJ71GN11-T2 via Ethernet.

◆ Mitsubishi Electric servo amplifiers (SSCNET III/H)

Series	Model name	Motion controller or programmable controller		Connection type									
				Ethernet connection		Direct CPU connection		Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	MELSEC NET/H connection	MELSEC NET/10 connection ^{*1}
				Single	Multi NEW	RS-232	USB						
MELSERVO-J4 Series	MR-J4-□B MR-J4-□B-PJ MR-J4W2-□B MR-J4W3-□B	—	RnMTCPU	○	○	×	○	○	×	○	○	×	×
		RD77MS	RnCPU	○	○	×	○	○	×	○	○	×	×
		FX5-40SSC-S	FX5CPU	○	○	○	○	×	×	×	×	×	×
		FX5-80SSC-S	FX5CPU	○	○	○	○	×	×	×	×	×	×
MELSERVO-JE Series	MR-JE-□B	RD77MS ^{*2}	RnCPU	○	○	×	○	○	×	○	○	×	×
		FX5-40SSC-S	FX5CPU	○	○	○	×	×	×	×	×	×	
		FX5-80SSC-S	FX5CPU	○	○	○	×	×	×	×	×	×	

*1 Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

*2 Use a module with the firmware version 3 or later.

◆ Mitsubishi Electric robot controllers

Series	Controller name	Connection type									
		Ethernet connection		Direct CPU connection		Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	MELSEC NET/H connection	MELSEC NET/10 connection ^{*1}
		Single	Multi NEW	RS-232	USB						
F Series	CR750-Q(Q172DRCPU)	○ ^{*2}	○ ^{*2}	○ ^{*3}	○ ^{*5}	○	×	○ ^{*4}	○	○	
	CR751-Q(Q172DRCPU)	○	○	×	×	×	×	×	×	×	
	CR750-D CR751-D	○	○	×	×	×	×	×	×	×	
SQ Series	CRnQ-700(Q172DRCPU)	○ ^{*2}	○ ^{*2}	○ ^{*3}	○ ^{*5}	○	×	○ ^{*4}	○	○	
SD Series	CRnD-700	○	○	×	×	×	×	×	×	×	
FR Series	CR800-D	○	○ ^{*7}	×	×	×	×	×	×	×	
	CR800-R(R16RTCPU)	○	○	×	○ ^{*6}	×	×	×	×	×	
	CR800-Q(Q172DSRCPU)	○	○	○ ^{*3}	○ ^{*5}	○	×	○ ^{*4}	○	○	
	NEW	○	○	○ ^{*3}	○ ^{*5}	○	×	○ ^{*4}	○	○	

*1 Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

*2 The Display I/F of CRnQ-700, CR750/751-Q cannot be used. Ethernet connections can be established only via the Ethernet module (QJ71E71) or the built-in Ethernet port in the multiple CPU system (QnUDE).

*3 Access via the serial port (RS-232) of QCPU in the multiple CPU system since CRnQ-700, CR750/751-Q, and CR800-Q have no serial port.

*4 Use a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042.

*5 Access via QCPU in the multiple CPU system since CR750-Q, CR751-Q, CRnQ-700, and CR800-Q have no USB port.

*6 Access via RCPU in the multiple CPU system since CR800-R has no USB port.

*7 Connectable to the built-in LAN port of CR800-D in Ethernet connection.

◆ Mitsubishi Electric CNCs

Series	Connection type									
	Ethernet connection		Direct CPU connection		Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	MELSEC NET/H connection	MELSEC NET/10 connection ^{*1}
	Single	Multi NEW	RS-232	USB						
CNC C80 (R16NCCPU-S1)	○	○	×	○ ^{*4}	×	×	×	×	×	×
CNC C70 (Q173NCCPU)	○	○	○ ^{*2}	○	○	×	○ ^{*3}	○	○	○

*1 Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

*2 Access via the serial port (RS-232) of QCPU in the multiple CPU system since CNC C70 has no serial port.

*3 Use a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042.

*4 Access via RCPU in the multiple CPU system since CNC C80 has no USB port.

◆ Non-Mitsubishi programmable controllers/Motion controllers

Manufacturer	Model name	Connection type						
		Ethernet connection		Direct CPU connection (RS-232)	Serial communication connection (RS-232)			
		Single	Multi NEW					
OMRON Corporation	SYSMAC CJ1	CJ1H	CJ1G	CJ1M	○	○	○	×
		CJ2H	CJ2M	○	○	○	○ ^{*1}	×
	SYSMAC CPM	CPM2A	×	×	○	○	×	
		SYSMAC CQM1	CQM1	×	×	○ ^{*2}	×	
	SYSMAC CQM1H	CQM1H	×	×	○	○	×	
		SYSMAC CP1	CP1E (N type)	×	×	○ ^{*6}	×	
	SYSMAC CS1	CS1H	CS1G	CS1D ^{*3}	○	○	○	×
		SYSMAC CVM1/CV ^{*4}	CVM1-CPU11-V□	CVM1-CPU01-V□	CV1000-CPU01-V□	×	×	○
	CV500-CPU01-V□		×	×	○	○	×	
	SYSMAC α		C200HX	C200HG	C200HE	×	×	○
NJ		NJ501-□□□□	NJ101-□□□□	NJ301-□□□□	×	×	×	×
	KEYENCE CORPORATION	KV-700	KV-1000	KV-3000	○	○	×	×
KV-5000		KV-7300	KV-5500	○	○	×	×	
KV-7500		○	○	×	×	×		
○		○	×	×	×			
○		○	×	×	×			

- There are two ways of usage of GT SoftGOT2000: GT SoftGOT2000 for single channel connection and GT SoftGOT2000 (Multi-channel) for multi-channel connection. GT SoftGOT2000 (Multi-channel) supports Ethernet connection, connection to OPC UA servers, or connection to microcomputers. Therefore in the following list, Ethernet connection column is separated in two columns: Single (GT SoftGOT2000) and Multi (GT SoftGOT2000 (Multi-channel)). For connection with OPC UA servers or microcomputers, please refer to page 170.
- For the details of the connection configuration, please refer to the GT SoftGOT2000 Version1 Operating Manual.

◆ Non-Mitsubishi programmable controllers/Motion controllers

Manufacturer		Model name	Connection type				
			Ethernet connection		Direct CPU connection (RS-232)	Serial communication connection (RS-232)	
			Single	Multi NEW			
TOSHIBA CORPORATION	Unified Controller nv Series	PU811	○	○	×	×	
		PUM11 NEW	○	○	×	×	
		PUM12 NEW	○	○	×	×	
		PUM14 NEW	○	○	×	×	
YASKAWA Electric Corporation		GL120 GL130	×	×	○	×	
		GL60S GL60H GL70H	×	×	×	○	
		CP-9200SH	×	×	×	○	
		CP-9300MS	×	×	○	×	
		MP920	○	○	○	○	
		MP930	×	×	○	×	
		MP940	×	×	○	×	
		PROGIC-8	×	×	○	×	
		CP-9200 (H)	×	×	○	×	
		CP-312	×	×	×	×	
		CP-317	○	○	×	○	
		MP2200	○	○	×	○	
		MP2300		MP2300S			
		MP3200		MP3300			
Yokogawa Electric Corporation	FA-M3	F3SP05 F3SP08 F3FP36 F3SP21 F3SP25 F3SP28 F3SP35	F3SP38 F3SP53 F3SP58 F3SP59 F3SP66 F3SP67	○	○	×	×
		F3SP71-4N F3SP71-4S	F3SP76-7S	○	○	×	×
		STARDOM	NFCP100 NFJT100	○ *7	○ *7	×	×
		SIMATIC S7-200 series *5 SIMATIC S7-300 series	SIMATIC S7-400 series SIMATIC S7-1200 series *5	○	○	×	×
	Siemens AG						

*1 Only CJ2M-CPU1□ can be connected.

*2 Connection to the CQM1-CPU11 is not allowed since the CQM1-CPU11 has no RS-232 interface.

*3 Connection is supported only when a single communication unit is used in a single CPU system configuration.

*4 SYSMAC CVM1/CV can be used with a CPU version 1 or later.

*5 Only OP communication can be used in Ethernet connection of the S7-200 series and the S7-1200 series.

*6 Connection is not available with the E type CP1E.

*7 Only MODBUS®/TCP connection is supported. Use the MODBUS®/TCP master communication driver.

■ Modules usable when connected with non-Mitsubishi controllers in serial communication connection or Ethernet connection

Manufacturer		Ethernet		RS-232	
OMRON Corporation	Ethernet module	CS1W-ETN21 CS1W-EIP21	CJ1W-ETN21 CS1D-ETN21D	—	
KEYENCE CORPORATION	Ethernet module	KV-LE20V KV-EP21V NEW	KV-LE21V	—	
TOSHIBA CORPORATION	Ethernet module	EN811		—	
YASKAWA Electric Corporation	MEMOBUS module Communication module	218IF 218IF-01 218IF-02 *1 218TXB		JAMSC-IF60 JAMSC-IF61 CP-217IF 217IF	217IF-01 218IF-01 218IF-02 *1
Yokogawa Electric Corporation	Ethernet interface module	F3LE01-ST F3LE11-OT F3LE12-OT		—	
Siemens AG	Ethernet module	CP243-1 CP243-1 IT CP343-1 CP343-1 Advanced	CP343-1 IT CP343-1 Lean CP443-1 CP443-1 IT	—	

*1 To connect MP2200, MP2300, or MP2300S using Ethernet connection or RS-232 connection, use a CPU of software version 2.60 or later.

◆ MODBUS® devices

Communication is possible with devices compatible with MODBUS®/TCP master or MODBUS®/TCP slave connection.

For the MODBUS® devices, which have been checked for operation, please refer to the Technical Bulletin "List of Valid Devices Applicable for GOT2000 Series MODBUS® Connection" (No. GOT-A-0070) on the Mitsubishi Electric Factory Automation Global website.

◆ SLMP devices

Communication with SLMP compatible devices is possible.

For the SLMP devices, which have been checked for operation, please refer to the Technical Bulletin "List of SLMP-compatible Equipment Validated to Operate with the GOT2000 Series" (No. GOT-A-0085) on the Mitsubishi Electric Factory Automation Global website.

◆ OPC UA servers **NEW**

Communication with OPC UA servers is possible.

For the OPC UA servers, which have been checked for operation, please refer to the Technical Bulletin "List of OPC UA Servers Validated to Operate with the GOT2000 Series" (No. GOT-A-0137) on the Mitsubishi Electric Factory Automation Global website.

◆ Microcomputer connection **NEW**

By connecting a personal computer, microcomputer board, programmable controller, etc. to a GOT, the data can be written to or read from virtual devices of the GOT.

Compatibility with conventional products

◆ Compatibility with GOT1000 Series

The following shows the overview of replacing from the GOT1000 Series. For the details, please refer to the following Technical Bulletins and Renewal Guidance.

- Technical Bulletin "Precautions when Replacing GOT1000 Series with GOT2000 Series" No.GOT-A-0061 (GT16, GT15)
- Technical Bulletin "Precautions when Replacing the GT14 Model with GT2505(HS)-VTBD" No.GOT-A-0125 (GT14)
- Technical Bulletin "Precautions when Replacing GT11 Model with GT27 and GT25 Models" No.GOT-A-0145 (GT11)
- Technical Bulletin "Information and precautions on replacing GOT1000 with GOT2000 (GT10 model → GT21 model)" No.HIME-T-P-0137
- Renewal Guidance "GOT1000 Renewal Guidance" L(NA)08327ENG (GT16, GT15) Coming soon

Panel cut dimensions

The panel cut dimensions are the same if the GOT1000 Series and the GOT2000 Series have the same screen size. Changing mounting holes is not required.

GOT1000 Series		GOT2000 Series
15"	GT1695 *1, GT1595 *1	Same dimensions as GT2715.
12.1"	GT1685 *1, GT1585 *1	Same dimensions as GT2712, GT2512.
10.4"	GT167□ *1, GT157□ *1, GT1275 *1	Same dimensions as GT2710, GT2510-V, GT2310.
8.4"	GT166□ *1, GT156□ *1, GT1265 *1	Same dimensions as GT2708, GT2508, GT2308.
5.7"	GT1655 *1, GT155□ *1, GT145□ *2, GT115□ *1, GT105□ *1	Same dimensions as GT2705, GT2505.
3.7"	GT1020 *1	Same dimensions as GT2103. (Although the screen size differs, panel cut dimensions are the same.)

*1 Discontinued product.

*2 To be discontinued product.

Communication units, option units

Communication units and option units for the GT16, GT15, GT12, or GT10 can be used with the GOT2000 Series as-is except for the following devices.

GOT1000 Series		GOT2000 Series	Remarks	
Communication unit	RS-422 conversion unit	GT15-RS2T4-9P *1 GT15-RS2T4-25P *1	Use the built-in RS-422/485 interface or GT15-RS4-9S (serial communication unit)	
	MELSECNET/10 communication unit	GT15-J71LP23-Z *1 GT15-J71BR13-Z *1	GT15-J71LP23-25 (MELSECNET/H communication unit) GT15-J71BR13 (MELSECNET/H communication unit)	Use MELSECNET/H communication unit in MELSECNET/10 mode.
	CC-Link communication unit (CC-Link (ID) Ver.1)	GT15-J61BT13-Z *1	GT15-J61BT13 (CC-Link communication unit)	—
	Connection conversion adapter	GT10-9PT5S	—	The adapter is not required on GT2103 and GT2104 because Europe terminal blocks are used.
	Ethernet communication unit	GT15-J71E71-100 *1	—	Use the built-in Ethernet interface or GT25-J71E71-100 (Ethernet communication unit)
	Option unit	Multimedia unit	GT16M-MMR *1	GT27-MMR-Z (multimedia unit)
Video input unit		GT16M-V4 *1	—	—
		GT15V-75V4 *1	GT27-V4-Z (video input unit)	—
RGB input unit		GT16M-R2 *1	—	—
		GT15V-75R1 *1	GT27-R2 (RGB input unit)	—
Video/RGB input unit		GT16M-V4R1 *1	—	—
		GT15V-75V4R1 *1	GT27-V4R1-Z (video/RGB input unit)	—
RGB output unit		GT16M-ROUT *1	—	—
	GT15V-75ROUT *1	GT27-ROUT (RGB output unit)	—	
CF card unit	GT15-CFCD *1	—	A CF card cannot be used with the GOT2000 Series.	
CF card extension unit	GT15-CFEX-C08SET *1	—	Use an SD memory card with the built-in SD memory card slot.	

*1 Discontinued product.

Cables

<GT16, GT15>

- For the details of using the bus connection cables, RS-232 cables, RS-422 cables, or other cables for GT16 or GT15 with GT27 or GT25, please refer to the Technical Bulletin "Precautions when Replacing GOT1000 Series with GOT2000 Series" No. GOT-A-0061.

<GT14>

- RS-232, RS-422, and other cables being used with GT14 can be used as-is with GT2505-VTBD or GT2505HS-VTBD.

<GT10>

- The cables being used with GT1020 can be used as-is with GT2103 (serial type).

Project data

The project data of the GOT1000 Series can be used as-is by converting the GOT Type using GT Designer3 Version 1.100E or later *.

* The supported version differs depending on the GOT2000 models.

◆ Compatibility with GOT900 Series

For the details, please refer to the following Technical Bulletins.

- Technical Bulletin "Precautions when Replacing GOT-A900 Series with GOT2000 Series" No.GOT-A-0062

◆ Compatibility with GOT800, A77GOT, or A64GOT Series

For the details, please refer to the following Technical Bulletins.

- Technical Bulletin "Precautions when Replacing A800, A77GOT, A64GOT Series with GOT2000 Series" No.GOT-A-0063

For the Technical Bulletins, please refer to the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

Product List CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG

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/).

GOT model name

GT27 15 - XTBA

Symbol	Screen size	Symbol	Structure	Symbol	Resolution	Symbol	Display section	Symbol	Panel color	Symbol	Power type	Symbol	Communication interface
15	15"	None	Standard	WX	WXGA	T	TFT color	B	Black	A	100 V AC to 240 V AC	None *1	Refer to Remarks column of GOT
12	12.1"	F	Open frame	X	XGA	M	TFT monochrome	W	White	D	24 V DC		
10	10.4", 10.1" widescreen, or 10" widescreen	HS	Handy	S	SVGA			S	Silver	L	5 V DC	S *1	RS-232 and RS-422/485 interfaces, or RS-422 interface only
08	8.4"	T	Rugged	W	WVGA			N	No frame			S2 *1	Two RS-232 interfaces
07	7" widescreen			V	VGA							-GF *2	CC-Link IE Field Network communication unit set
06	6.5"			R	480 × 272 dots								
05	5.7"			P	320 × 128 dots								
04	4.3"												
03	3.8"												

*1 For GT21 only
*2 For GT27/GT25 only

GT27	Advanced model with multi-touch gesture functions
GT25	High-performance, cost efficient, mid-range model
GT23	Unchallenged cost performance
GT21	Compact models with basic functions
GS21	Simple model with pursued usability

GOTs

Classification	Model	Screen size	Display section Display color	Panel color	Power	Remarks
GT27	GT2715-XTBA	15" XGA	TFT color 65536 colors	Black	100 to 240 V AC 24 V DC	Multimedia & Video/RGB compatible Multi-touch compatible
	GT2715-XTBD					
	GT2712-STBA	12.1" SVGA		Black	100 to 240 V AC 24 V DC	
	GT2712-STBD					
	GT2712-STWA			White	100 to 240 V AC 24 V DC	
	GT2710-STBA	10.4" SVGA		Black	100 to 240 V AC 24 V DC	
	GT2710-STBD					
	GT2710-VTBA			White	100 to 240 V AC 24 V DC	
	GT2710-VTBD					
	GT2708-STBA	8.4" SVGA		Black	100 to 240 V AC 24 V DC	
	GT2708-STBD					
	GT2708-VTBA			White	100 to 240 V AC 24 V DC	
GT2705-VTBD	8.4" VGA	Black	100 to 240 V AC 24 V DC			
GT2705-VTBD	5.7" VGA	Black	100 to 240 V AC 24 V DC	Multi-touch compatible		
GT25	GT2512-STBA	12.1" SVGA	Black	100 to 240 V AC 24 V DC		
	GT2512-STBD					
	GT2512F-STNA		—	100 to 240 V AC 24 V DC	Open frame model	
	GT2510-VTBA	10.4" VGA	Black	100 to 240 V AC 24 V DC		
	GT2510-VTBD					
	GT2510-VTWA		White	100 to 240 V AC 24 V DC		
	GT2510-VTWD *1					
	GT2508-VTBA	8.4" VGA	Black	100 to 240 V AC 24 V DC		
	GT2508-VTBD					
	GT2508-VTWA		White	100 to 240 V AC 24 V DC		
	GT2508-VTWD *1					
	GT2508F-VTNA		—	100 to 240 V AC 24 V DC	Open frame model	
GT2505-VTBD	5.7" VGA	Black	100 to 240 V AC 24 V DC	—		
GT25 Wide	GT2510-WXTBD	10.1" WXGA	Black	24 V DC		
	GT2510-WXTSD		Silver *2			
	GT2507-WTBD	7" WVGA	Black	24 V DC		
	GT2507-WTSD		Silver *2			
GT25 Handy	GT2506	6.5" VGA	Black	24 V DC		
	GT2505		Black	24 V DC		
GT25 Rugged	GT2507	7" WVGA	Black	24 V DC		
	GT2507T-WTSD		Silver	24 V DC	Rugged model	
GT23	GT2310-VTBA	10.4" VGA	Black	100 to 240 V AC 24 V DC		
	GT2310-VTBD					
	GT2308-VTBA	8.4" VGA	Black	100 to 240 V AC 24 V DC		
	GT2308-VTBD					

GOTs

Classification		Model	Screen size	Display section Display color	Panel color	Power	Remarks
GT21 Wide	GT2107	GT2107-WTBD	7" WVGA	TFT color 65536 colors	Black	24 V DC	Wide model
		GT2107-WTSD			Silver *2		
GT21	GT2104	GT2104-RTBD	4.3" [480 x 272 dots]	TFT color 65536 colors	Black	24 V DC	Ethernet, RS-422/485, RS-232
		GT2103-PMBD	3.8" [320 x 128 dots]	TFT Monochrome (black/white) 32 shade grayscale 5-color LED (white, green, pink, orange, red)	Black	24 V DC	Ethernet, RS-422/485
	GT2103-PMBDS	24 V DC				RS-232, RS-422/485	
	GT2103-PMBDS2	24 V DC				RS-232 x 2 channels	
	GT2103-PMBLS	5 V DC				RS-422 (FXCPU connection only)	
GS21	GS2110	GS2110-WTBD	10" WVGA	TFT color 65536 colors	Black	24 V DC	GOT SIMPLE Series
		GS2107-WTBD	7" WVGA		Black		

*1 To comply with the ATEX directive and KCs regulation, protective sheet (GT25-□□PSCC-UC) and special fitting (GT25-□□FIT-EXS) in the "Options" list (page 176) are required separately. (Only protective sheet is required for GT2508-VTWD.) Communication units and option units cannot be used. When using these units, GOT does not conform to the standards. For the details, please refer to the Technical Bulletin "GOT2000 Series in Compliance with the ATEX Directive and KCs Certification Requirements" (No. GOT-A-0101) on the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

*2 The lower part of the panel including the USB environmental protection cover is black.

GOT + CC-Link IE Field Network communication unit sets

Classification		Model	Screen size	Display section Display color	Panel color	Power	Remarks
GT27	GT2715	GT2715-XTBA-GF	15" XGA	TFT color 65536 colors	Black	100 to 240 V AC	GOT + GT15-J71GF13-T2
		GT2715-XTBD-GF			24 V DC		
	GT2712	GT2712-STBA-GF	12.1" SVGA		Black	100 to 240 V AC	
		GT2712-STBD-GF			24 V DC		
		GT2712-STWA-GF			White	100 to 240 V AC	
		GT2712-STWD-GF			24 V DC		
	GT2710	GT2710-STBA-GF	10.4" SVGA		Black	100 to 240 V AC	
		GT2710-STBD-GF			24 V DC		
		GT2710-VTBA-GF	10.4" VGA		Black	100 to 240 V AC	
		GT2710-VTBD-GF			24 V DC		
		GT2710-VTWA-GF			White	100 to 240 V AC	
	GT2708	GT2710-VTWD-GF	8.4" SVGA		Black	100 to 240 V AC	
		GT2708-STBA-GF			24 V DC		
		GT2708-STBD-GF			100 to 240 V AC		
		GT2708-VTBA-GF			24 V DC		
GT2705	GT2708-VTBD-GF	8.4" VGA	Black	100 to 240 V AC			
	GT2708-VTWD-GF		24 V DC				
GT25	GT2512	GT2705-VTBD-GF	5.7" VGA	Black	24 V DC		
		GT2512-STBA-GF	12.1" SVGA	Black	100 to 240 V AC		
	GT2512-STBD-GF	24 V DC					
	GT2510	GT2510-VTBA-GF	10.4" VGA	Black	100 to 240 V AC		
		GT2510-VTBD-GF		24 V DC			
		GT2510-VTWA-GF		White	100 to 240 V AC		
		GT2510-VTWD-GF		24 V DC			
	GT2508	GT2508-VTBA-GF	8.4" VGA	Black	100 to 240 V AC		
		GT2508-VTBD-GF		24 V DC			
		GT2508-VTWA-GF		White	100 to 240 V AC		
		GT2508-VTWD-GF		24 V DC			

Communication units

Product name	Model	Specifications	Supported model							
			GT27	GT25	GT25 Wide	GT25 Rugged	GT23	GT21 Wide	GT21	GS21
Ethernet communication unit *1	GT25-J71E71-100	Data transfer method: 100BASE-TX, 10BASE-T	●	●*11	—	—	—	—	—	—
Serial communication unit	GT15-RS2-9P	RS-232 serial communication unit (D-sub 9-pin male)	●	●*11	—	—	—	—	—	—
	GT15-RS4-9S	RS-422/485 serial communication unit (D-sub 9-pin female) *1 *2	●	●*11	—	—	—	—	—	—
	GT15-RS4-TE	RS-422/485 serial communication unit (terminal block) *1	●	●*11	—	—	—	—	—	—
		Can be used only when connected with temperature controllers/indicating controllers by RS-485 connection or at the GOT multi-drop connection	●	●*11	—	—	—	—	—	—
Q bus connection unit	GT15-QBUS	Q bus connection (1 channel) unit standard model	●	●*11	—	—	—	—	—	—
	GT15-QBUS2	Q bus connection (2 channels) unit standard model	●	●*11	—	—	—	—	—	—
	GT15-75QBUSL	Q bus connection (1 channel) unit slim model *3	●	●*11	—	—	—	—	—	—
	GT15-75QBUS2L	Q bus connection (2 channels) unit slim model *3	●	●*11	—	—	—	—	—	—
MELSECNET/H communication unit	GT15-J71LP23-25	Normal station unit (optical loop)	●	●*11	—	—	—	—	—	—
	GT15-J71BR13	Normal station unit (coaxial bus)	●	●*11	—	—	—	—	—	—
CC-Link IE TSN communication unit	GT25-J71GN13-T2 NEW	Slave station (local station) unit	●	●*11	—	—	—	—	—	—
CC-Link IE Controller Network communication unit	GT15-J71GP23-SX	Normal station unit (optical loop)	●	●*11	—	—	—	—	—	—
CC-Link IE Field Network communication unit	GT15-J71GF13-T2	Intelligent device station unit	●	●*11	—	—	—	—	—	—
CC-Link communication unit	GT15-J61BT13	Intelligent device station unit CC-Link Ver. 2 compliant	●	●*11	—	—	—	—	—	—
Field network adapter unit	GT25-FNADP	Supported network: PROFIBUS DP, DeviceNet *4	●	●*11	—	—	—	—	—	—
Wireless LAN communication unit *5	GT25-WLAN	IEEE802.11b/g/n compliant, built-in antenna, wireless LAN access point (base station) *6, station (client), connection to personal computer, tablet, smartphone Compliance with: Japan Radio Law *7, FCC standards *8, RE Directive *13 (R&TTE Directive *8), SRRC *9, KC *9	●	●*11	●	●	—	—	—	—
Serial multi-drop connection unit	GT01-RS4-M	For GOT multi-drop connection	●	●	●	●	●	●	●*10	—
Connection conversion adapter	GT10-9PT5S	For connecting the RS-422/485 (D-Sub 9-pin connector) and RS-422/485 (terminal block)	—	●*12	—	—	—	—	—	—
RS-232/485 signal conversion adapter	GT14-RS2T4-9P	For connecting the RS-232 (D-Sub 9-pin connector) and RS-485 (terminal block)	—	●*12	—	—	—	—	—	—

*1 May not be able to be used depending on the connection target. For details, please refer to the GOT2000 Series Connection Manual.
 *2 Cannot be used when connected with temperature controllers or indicating controllers by RS-485 (2-wire type) connection.
 *3 Cannot be stacked with other units.
 *4 The unit should be used with an Anybus® CompactCom M40 network communication module manufactured by HMS. Please purchase the module by specifying the article number.

Supported network	Communication module product name	Communication module article number
PROFIBUS DP	ABCC-M40-DPV1	AB6910-B, AB6910-C
DeviceNet	ABCC-M40-DEV	AB6909-B, AB6909-C

*5 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.
 *6 When [Operation Mode] is set to [Access Point] in [Wireless LAN Setting] of GT Designer3, up to five stations are connectable.
 *7 The product with hardware version A or later complies with the regulation. The product with hardware version A can be used only in Japan.
 *8 The product with hardware version B or later complies with the regulation. The product with hardware version B or later can be used in Japan, the United States, the EU member states, Switzerland, Norway, Iceland, and Liechtenstein.
 *9 The product with hardware version D or later complies with the regulation. The product with hardware version D or later 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.
 *10 Available to GT2104-RTBD, GT2103-PMBD, and GT2103-PMBDS.
 *11 Not available to GT2505-VTBD, GT2506HS-VTBD, and GT2505HS-VTBD.
 *12 Only available to GT2505-VTBD.
 *13 The product complies with the RE Directive from March 31, 2017.

Communication units for GT25 Handy GOT

Product name	Model	Specifications	Supported model	
			GT2506 Handy	GT2505 Handy
Serial multi-drop connection unit	GT01-RS4-M	For GOT multi-drop connection	●	—
Connection conversion adapter	GT10-9PT5S	For connecting the RS-422/485 (D-Sub 9-pin connector) and RS-422/485 (terminal block)	●*1	—

*1 Usable only when the connector conversion box GT16H-CNB-42S is used.

Option units

Product name	Model	Specifications	Supported model									
			GT27	GT25	GT25 Wide	GT25 Handy	GT25 Rugged	GT23	GT21 Wide	GT21	GS21	
Printer unit	GT15-PRN	USB slave (PictBridge) for printer connection, 1 channel Cable for connection between printer unit and printer (3m) included	●	●*3	—	—	—	—	—	—	—	—
Multimedia unit	GT27-MMR-Z	For video input (NTSC/PAL), 1 channel, recording video/ playing video files	●*1	—	—	—	—	—	—	—	—	—
Video input unit	GT27-V4-Z	For video input (NTSC/PAL), 4 channels	●*1	—	—	—	—	—	—	—	—	—
RGB input unit	GT27-R2	For analog RGB input, 2 channels (simultaneous display)	●*1	—	—	—	—	—	—	—	—	—
Video/RGB input unit	GT27-V4R1-Z	For video input (NTSC/PAL), 4 channels/analog RGB, 1 channel input	●*1	—	—	—	—	—	—	—	—	—
RGB output unit	GT27-ROUT	For analog RGB output, 1 channel (slim unit)	●*1	—	—	—	—	—	—	—	—	—
Digital video output unit	GT27-VHOUT	For digital video output, 1 channel HDMI Type A connector	●*1	—	—	—	—	—	—	—	—	—
Sound output unit	GT15-SOUT	For sound output (ø3.5 stereo pin jack)	●	●*3	—	—	—	—	—	—	—	—
External I/O unit	GT15-DIOR	For connecting an external I/O device and an operation panel (negative common input, source type output)	●	●*3	—	—	—	—	—	—	—	—
	GT15-DIO	For connecting an external I/O device and an operation panel (positive common input, sink type output)	●	●*3	—	—	—	—	—	—	—	—
SD memory card unit	GT21-03SDCD	For mounting an SD memory card	—	—	—	—	—	—	—	—	●*2	—

*1 Not available to GT2705-VTBD.

*3 Not available to GT2505-VTBD.

*2 Only available to GT2103-PMBD, GT2103-PMBDS, and GT2103-PMBDS2.

Software

Product name	Model	Description	Supported model									
			GT27	GT25	GT25 Wide	GT25 Handy	GT25 Rugged	GT23	GT21 Wide	GT21	GS21	
HMI/GOT Screen Design Software MELSOFT GT Works3	SW1DND-GTWK3-E	Standard license product	●	●	●	●	●	●	●	●	●	●
	SW1DND-GTWK3-EA	Volume license product *1 *9	●	●	●	●	●	●	●	●	●	●
	SW1DND-GTWK3-EAZ	Additional license product *1 *6	●	●	●	●	●	●	●	●	●	●
FA Integrated Engineering Software MELSOFT iQ Works *2 *3	SW2DND-IQWK-E	Standard license product	●	●	●	●	●	●	●	●	●	●
GT Works Text to Speech License *7	SW1DND-GTVO-M	Standard license product	●	●*8	●	—	●	—	—	—	—	—
GT Works3 Add-on License for GOT2000 Enhanced Drive Control (Servo) Project Data *10	SW1DND-GTSV-MZ	Standard license product	●	●	●	●	●	—	—	—	—	—
License key for GT SoftGOT2000 *4	GT27-SGTKEY-U	USB port license key	—	—	—	—	—	—	—	—	—	—
Remote Personal Computer Operation Function (Ethernet) License *5	GT25-PCRAKEY-1	1 license	●	●	●	●	●	●	—	—	—	—
	GT25-PCRAKEY-5	5 licenses	●	●	●	●	●	—	—	—	—	—
	GT25-PCRAKEY-10	10 licenses	●	●	●	●	●	—	—	—	—	—
	GT25-PCRAKEY-20	20 licenses	●	●	●	●	●	—	—	—	—	—
VNC Server Function License *5	GT25-VNCSKEY-1	1 license	●	●	●	●	●	—	—	—	—	—
	GT25-VNCSKEY-5	5 licenses	●	●	●	●	●	—	—	—	—	—
	GT25-VNCSKEY-10	10 licenses	●	●	●	●	●	—	—	—	—	—
	GT25-VNCSKEY-20	20 licenses	●	●	●	●	●	—	—	—	—	—
MES I/F Function License *5	GT25-MESIFKEY-1	1 license	●	●	●	●	●	—	—	—	—	—
	GT25-MESIFKEY-5	5 licenses	●	●	●	●	●	—	—	—	—	—
	GT25-MESIFKEY-10	10 licenses	●	●	●	●	●	—	—	—	—	—
	GT25-MESIFKEY-20	20 licenses	●	●	●	●	●	—	—	—	—	—
GOT Mobile Function License *5	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 Volume license product and additional license product are also available. For more details, please refer to the MELSOFT iQ Works catalog (LINA)08232(ENG).

*3 The product includes the following software.

- System Management Software [MELSOFT Navigator]
- Motion Controller Engineering Software [MELSOFT MT Works2]
- Robot Engineering Software [MELSOFT RT ToolBox3]
- C Controller Setting and Monitoring Tool [MELSOFT CW Configurator]
- MITSUBISHI ELECTRIC FA Library
- Programmable Controller Engineering Software [MELSOFT GX Works3, GX Works2, GX Developer]
- HMI/GOT Screen Design Software [MELSOFT GT Works3]
- Inverter Setup Software [MELSOFT FR Configurator2]
- Servo Setup Software [MELSOFT MR Configurator2]

* RT ToolBox3 mini (simplified version) will be installed if iQ Works product ID is used. When RT ToolBox3 (with simulation function) is required, please purchase RT ToolBox3.

*4 To use GT SoftGOT2000, a license key for GT SoftGOT2000 is necessary for each personal computer.

*5 1 license is required for 1 GOT unit.

*6 This product does not include the DVD-ROM. Only the license certificate with the product ID No. is issued.

*7 To edit sound files, each personal computer requires one license.

*8 GT2505-VTBD does not support the sound output function.

*9 Volume license product is not sold separately and should be purchased with the standard license product.

*10 Each personal computer requires an add-on license.

Application package

Product name	Model	Description	Supported model									
			GT27	GT25	GT25 Wide	GT25 Handy	GT25 Rugged	GT23	GT21 Wide	GT21	GS21	
iQ Monozukuri Process Remote Monitoring *1	AP30-PRM001AA-MA	1 license	●	●	●	●	●	●	●	●	●*2	●
	AP30-PRM001AA-MB	5 licenses	●	●	●	●	●	●	●	●	●*2	●
	AP30-PRM001AA-MC	10 licenses	●	●	●	●	●	●	●	●	●*2	●
iQ Monozukuri ANDON *3	AP30-ADN001AA-MA	1 license	●	●	●	●	●	—	—	—	—	—
	AP30-ADN001AA-MB	5 licenses	●	●	●	●	●	—	—	—	—	—
	AP30-ADN001AA-MC	10 licenses	●	●	●	●	●	—	—	—	—	—
	AP30-ADN001AA-MD	15 licenses	●	●	●	●	●	—	—	—	—	—
	AP30-ADN001AA-ME	20 licenses	●	●	●	●	●	—	—	—	—	—

*1 Process Remote Monitoring setting tool, iQ Monozukuri Process Remote Monitoring template project for GT SoftGOT2000, and the Process Remote Monitoring license are included.

*2 Supported by GT2104-RTBD and GT2103-PMBD only.

*3 Contents Publisher, project file of the GOT for iQ Monozukuri ANDON (template screens), GOT Mobile function license, and the iQ Monozukuri ANDON license are included.

Options

Product name	Model	Specifications	Supported model								
			GT27	GT25	GT25 Wide	GT25 Rugged	GT23	GT21 Wide	GT21	GS21	
Protective sheet *1	GT27-15PSGC	For 15"	<ul style="list-style-type: none"> • Antiglare type • Transparent • With a hole for the USB environmental protection cover • A set of 5 sheets 	●	—	—	—	—	—	—	—
	GT25-12PSGC	For 12.1"		●	—	—	—	—	—	—	—
	GT25-10PSGC	For 10.4"		●	●	—	—	—	—	—	—
	GT25-08PSGC	For 8.4"		●	●	—	—	—	—	—	—
	GT25-05PSGC	For 5.7"		●	—	—	—	—	—	—	—
	GT25-05PSGC-2	For 5.7"	—	●	—	—	—	—	—	—	
	GT25-10WPSGC	For 10.1" wide models	<ul style="list-style-type: none"> • Antiglare type • Transparent • Without a hole for the USB environmental protection cover *10 • A set of 5 sheets 	—	—	●	—	—	—	—	—
	GT21-07WPSGC	For 7" wide models		—	—	●	—	—	●	—	—
	GT27-15PSCC	For 15"	<ul style="list-style-type: none"> • Clear type • Transparent • With a hole for the USB environmental protection cover • A set of 5 sheets 	●	—	—	—	—	—	—	—
	GT25-12PSCC	For 12.1"		●	●	—	—	—	—	—	—
	GT25-10PSCC	For 10.4"		●	●	—	—	—	—	—	—
	GT25-08PSCC	For 8.4"		●	●	—	—	—	—	—	—
	GT25-05PSCC	For 5.7"		●	—	—	—	—	—	—	—
	GT25-05PSCC-2	For 5.7"	—	●	—	—	—	—	—	—	
	GT25-10WPSCC	For 10.1" wide models	<ul style="list-style-type: none"> • Clear type • Transparent • Without a hole for the USB environmental protection cover *10 • A set of 5 sheets 	—	—	●	—	—	—	—	—
	GT21-07WPSCC	For 7" wide models		—	—	●	—	—	●	—	—
	GT25-12PSCC-UC *9	For 12.1"	<ul style="list-style-type: none"> • Clear type • Transparent • Without a hole for the USB environmental protection cover *2 • A set of 5 sheets 	● *9	●	—	—	—	—	—	—
	GT25-10PSCC-UC *9	For 10.4"		● *9	● *9	—	—	●	—	—	—
	GT25-08PSCC-UC *9	For 8.4"		●	● *9	—	—	●	—	—	—
	GT21-04RPSGC-UC	For 4.3"	<ul style="list-style-type: none"> • Antiglare type • Transparent • Without a hole for the USB environmental protection cover • A set of 5 sheets 	—	—	—	—	—	—	●	—
GT21-03PSGC-UC	For 3.8"	—		—	—	—	—	—	—	●	—
GT21-04RPSCC-UC	For 4.3"	<ul style="list-style-type: none"> • Clear type • Transparent • Without a hole for the USB environmental protection cover • A set of 5 sheets 	—	—	—	—	—	—	—	●	—
GT21-03PSCC-UC	For 3.8"		—	—	—	—	—	—	—	—	●
UV protective sheet (for the rugged model) *13	GT25T-07WPSVC	For 7" rugged model	<ul style="list-style-type: none"> • Antiglare type (UV cutoff) • Transparent • Without a hole for the USB environmental protection cover • 1 sheet 	—	—	—	●	—	—	—	—
Environmental protection sheet (for the open frame model)	GT25F-12ESGS	For 12.1"		—	● *7	—	—	—	—	—	—
	GT25F-10ESGS	For 10.4"		—	● *7	—	—	—	—	—	—
	GT25F-08ESGS	For 8.4"	—	● *7	—	—	—	—	—	—	
USB environmental protection cover	GT25-UCOV	For 15"/12.1"/10.4"/8.4"	Environmental protection cover for the USB interface on the GOT front face (for replacement)	●	●	—	—	—	—	—	—
	GT25-05UCOV	For 5.7"		●	—	—	—	—	—	—	
	GT21-WUCOV	For 10.1" wide models/7" wide models/5.7"		—	●	●	—	—	—	●	—
Protective cover for oil *3	GT20-15PCO	For 15"	●	—	—	—	—	—	—	—	—
	GT20-12PCO	For 12.1"	●	●	—	—	—	—	—	—	—
	GT20-10PCO	For 10.4"	●	●	—	—	●	—	—	—	
	GT21-10WPCO	For 10.1" wide models	—	—	●	—	—	—	—	—	
	GT20-08PCO	For 8.4"	●	●	—	—	●	—	—	—	
	GT21-07WPCO	For 7" wide models	—	—	●	—	—	—	—	—	
	GT25T-07WPCO*14	For 7" rugged model	—	—	—	●	—	—	—	—	
	GT25-05PCO	For 5.7"	●	—	—	—	—	—	—	—	
	GT25-05PCO-2	For 5.7"	—	●	—	—	—	—	—	—	
	GT21-04RPCO	For 4.3"	—	—	—	—	—	—	—	●	—
GT10-20PCO	For 3.8"	—	—	—	—	—	—	—	—	●	
Stand	GT15-90STAND	For 15"	●	—	—	—	—	—	—	—	—
	GT15-80STAND	For 12.1"	●	●	—	—	—	—	—	—	—
	GT15-70STAND	For 10.4"/8.4"	●	●	—	—	●	—	—	—	—
	GT25-10WSTAND	For 10.1" wide models	—	—	●	—	—	—	—	—	—
	GT21-07WSTAND	For 7" wide models	—	—	●	—	—	—	●	—	—
	GT25T-07WSTAND	For 7" rugged model	—	—	—	●	—	—	—	—	—
GT05-50STAND	For 5.7"	●	●	—	—	—	—	—	—	—	

Options

Product name		Model	Specifications	Supported model							
				GT27	GT25	GT25 Wide	GT25 Rugged	GT23	GT21 Wide	GT21	GS21
Memory card	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	●	●	●	●	●	●	●	●
	CF card	GT05-MEM-128MC	CF card for GT27-MMR-Z, 128 MB	●	—	—	—	—	—	—	—
		GT05-MEM-256MC	CF card for GT27-MMR-Z, 256 MB	●	—	—	—	—	—	—	—
		GT05-MEM-512MC	CF card for GT27-MMR-Z, 512 MB	●	—	—	—	—	—	—	—
		GT05-MEM-1GC	CF card for GT27-MMR-Z, 1 GB	●	—	—	—	—	—	—	—
		GT05-MEM-2GC	CF card for GT27-MMR-Z, 2 GB	●	—	—	—	—	—	—	—
		GT05-MEM-4GC	CF card for GT27-MMR-Z, 4 GB	●	—	—	—	—	—	—	—
Memory card adaptor	GT05-MEM-8GC	CF card for GT27-MMR-Z, 8 GB	●	—	—	—	—	—	—	—	
											GT05-MEM-16GC
Memory card adaptor	GT05-MEM-ADPC	Conversion adapter from CF card for GT27-MMR-Z to memory card (TYPE II)	●	—	—	—	—	—	—	—	
Attachment *11	GT15-70ATT-98	For 10.4"	For replacing GT168□, GT158□, A985GOT *4	●	●	—	—	●	—	—	—
	GT15-70ATT-87		For replacing A870GOT-SWS/TWS or A8GT-70GOT-TB/TW/SB/SW	●	●	—	—	●	—	—	—
	GT15-60ATT-97	For 8.4"	For replacing GT167□, GT157□, A97□GOT	●	●	—	—	●	—	—	—
	GT15-60ATT-96		For replacing A960GOT	●	●	—	—	●	—	—	—
	GT15-60ATT-87		For replacing A870GOT-EWS, A8GT-70GOT-EB/EW, A77GOT-EL, A77GOT-EL-S5/S3	●	●	—	—	●	—	—	—
	GT15-60ATT-77	For replacing A77GOT-CL, A77GOT-CL-S5/S3, A77GOT-L, A77GOT-L-S5/S3	●	●	—	—	●	—	—	—	
	GT15-50ATT-95W	For 5.7"	For replacing A956WGOT, F940WGOT	●	●	—	—	—	—	—	—
	GT15-50ATT-85		For replacing A85□GOT	●	●	—	—	—	—	—	—
GT21-04RATT-40	For 4.3"	For replacing GT104□	—	—	—	—	—	—	● *8	—	
Battery	GT11-50BAT	Battery for backup of SRAM data, clock data, and system status log data *6.	● (For replacement)	● *12 (For replacement)	● (For replacement)	● (For replacement)	● (Option)	● (For replacement)	● *5 (For replacement)	—	
Special fitting *9	GT25-12FIT-EXS	For 12.1"	For compliance with the ATEX directive and KCs regulation	● *9	—	—	—	—	—	—	
	GT25-10FIT-EXS	For 10.4"		● *9	● *9	—	—	—	—	—	

- *1 The white model does not have the front USB interface. It is recommended to use the products that the USB environmental protection cover area is closed.
- *2 When using the product with the USB environmental protection cover area closed, the front USB interface cannot be used.
- *3 Check if the protective cover for oil can be used in the actual environment before use. When using the cover, the front USB interface and human sensor cannot be used.
- *4 Including the GP250□ and GP260□ manufactured by Schneider Electric Japan Holdings Ltd.
- *5 GT2103-PMBD, GT2103-PMBDS, GT2103-PMBDS2, and GT2103-PMBSL do not have a built-in battery.
- *6 GT21 does not support the system status log data backup function.
- *7 GT2512F-STNA, GT2512F-STND, GT2510F-VTNA, GT2510F-VTND, GT2508F-VTNA, and GT2508F-VTND only.
- *8 Only available to GT2104-RTBD.
- *9 Necessary for the GOT to comply with the ATEX directive and KCs regulation. For applicable GOT models, please refer to the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa).
- *10 The protective sheet is shaped not to cover the USB environmental protection cover.
- *11 An attachment is usable when the control panel has a thickness of 2 to 3 mm. When an attachment is used, the GOT is not IP67F-rated.
- *12 Cannot be used with GT2506HS-VTBD.
- *13 The UV protective sheet for the rugged model does not comply with IP66F and IP67F.
- *14 The protective cover for oil for the rugged model does not comply with IP66F.

Options for GT25 Handy GOT

Product name	Model	Specifications	Supported model	
			GT2506 Handy	GT2505 Handy
Protective sheet	GT16H-60PSC	For 6.5" <ul style="list-style-type: none"> ● Clear type ● Transparent ● A set of 5 sheets 	●	—
	GT14H-50PSC	For 5.7"	—	●
Emergency stop switch guard cover	GT16H-60ESCOV	For 6.5" <ul style="list-style-type: none"> ● Cover for preventing incorrect operation of the emergency stop switch 	●	—
	GT14H-50ESCOV	For 5.7"	—	●
Connector conversion box	GT16H-CNB-42S	For converting the Handy GOT signals into individual signals for the terminal block, D-sub connector, and Ethernet RJ-45.	●	● *11
	GT16H-CNB-37S	For converting the Handy GOT signals into individual signals for the terminal block and Ethernet RJ-45.	●	●
	GT11H-CNB-37S	For converting the Handy GOT signals into individual signals for the terminal block and D-sub connector.	—	●
Wall-mounting attachment for Handy GOT	GT14H-50ATT	For GT2505 Handy GOT	—	●
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	GT15-BAT	Battery for backup of SRAM data, clock data, and system status log data (for replacement)	●	—
	GT11-50BAT		—	●

*11 Only Ethernet connection is supported. Serial communication connection is not supported.

Cables

Product name	Model	Cable length	Recommended product 1	Specifications	Supported model *16								
					GT27	GT25	GT25 Wide	GT25 Rugged	GT23	GT21 Wide	GT21	GS21	
QCPU bus connection cable	QCPU connection cable GOT-to-GOT connection cable	GT15-QC06B	0.6 m	○	QCPU ↔ GOT GOT ↔ GOT	●	● ^{*13}	—	—	—	—	—	—
		GT15-QC12B	1.2 m										
		GT15-QC30B	3 m										
		GT15-QC50B	5 m										
		GT15-QC100B	10 m										
	QCPU connection cable GOT-to-GOT connection cable (long distance)	GT15-QC150BS	15 m	○	For connecting the QCPU and GOT (long distance), A9GT-QCNB is required For connecting the GOT and GOT (long distance)	●	● ^{*13}	—	—	—	—	—	—
		GT15-QC200BS	20 m										
		GT15-QC250BS	25 m										
		GT15-QC300BS	30 m										
		GT15-QC350BS	35 m										
Bus extension connector box	A9GT-QCNB	—	—	Connect the connector box to the main base unit of PLC when connecting the QCPU and GOT (long distance).	●	● ^{*13}	—	—	—	—	—	—	
Bus connection cable ferrite core	GT15-QFC	—	○	Attach a ferrite core to the GOT-A900 bus connection cable when an existing GOT-A900 is replaced with a GOT2000. (two ferrite cores/ set)	●	● ^{*13}	—	—	—	—	—	—	
RS-485 terminal block conversion unit	FA-LTBGT2R4CBL05	0.5 m	○	RS-485 terminal block conversion unit With a cable for connecting RS-422/485 (connector) of GOT2000 and a RS-485 terminal block conversion unit	●	● ^{*13}	●	●	—	—	—	—	
	FA-LTBGT2R4CBL10	1 m											
FA-LTBGT2R4CBL20	2 m												
RS-422 conversion cable	FA-CNV2402CBL	0.2 m	○	For connecting the QCPU/L02SCPU(-P) and the RS-422 cable (GT01-C□R4-25P, GT10-C□R4-25R, GT21-C□R4-25P5) For connecting the L6ADP-R2 and the RS-422 cable (GT01-C□R4-25P, GT10-C□R4-25P, GT21-C□R4-25P5) [MINI-DIN 6-pin ↔ D-sub 25-pin]	●	●	●	●	●	●	● ^{*12}	●	
	FA-CNV2405CBL	0.5 m											
RS-422 cable	QnA/ACPU direct connection cable	GT01-C30R4-25P	3 m	—	For connecting a QnA/ACPU/motion CPU (A series)/FXCPU and the GOT For connecting an RS-422 connector conversion cable (FA-CNV□CBL) and the GOT	●	●	●	●	●	●	●	
		GT01-C100R4-25P	10 m										
		GT01-C200R4-25P	20 m										
		GT01-C300R4-25P	30 m										
	Computer link connection cable	GT10-C30R4-25P	3 m	—	For connecting a serial communication module and the GOT For connecting a peripheral connection module (AJ65BT-G4-S3) and the GOT [D-sub 25-pin ↔ D-sub 9-pin]	●	●	●	●	●	●	● ^{*3*7}	
		GT10-C100R4-25P	10 m										
		GT10-C200R4-25P	20 m										
		GT10-C300R4-25P	30 m										
	CC-Link (G4) connection cable	GT10-C300R4-25P	30 m	—	For connecting a serial communication module and the GOT For connecting a peripheral connection module (AJ65BT-G4-S3) and the GOT [D-sub 25-pin ↔ separate wire (connector terminal block 9-pin)]	●	●	●	●	●	●	● ^{*10}	
		GT21-C30R4-25P5	3 m										
		GT21-C100R4-25P5	10 m										
		GT21-C200R4-25P5	20 m										
	Computer link connection cable	GT21-C300R4-25P5	30 m	—	For connecting a serial communication module and the GOT For connecting a peripheral connection module (AJ65BT-G4-S3) and the GOT [D-sub 25-pin ↔ separate wire (connector terminal block 5-pin)] * GT2103-PMDB cannot be connected to Q00CPU, Q00CPU, Q01CPU, A Series, or FX1/FX2 Series.	—	—	—	—	—	—	● ^{*2}	
		GT09-C30R4-6C	3 m										
		GT09-C100R4-6C	10 m										
		GT09-C200R4-6C	20 m										
	Computer link connection cable	GT09-C300R4-6C	30 m	○	For connecting a serial communication module and the GOT For connecting a computer link module and the GOT [separate wire ↔ D-sub 9-pin]	●	●	●	●	●	●	● ^{*3*7}	
		GT01-C10R4-8P	1 m										
		GT01-C30R4-8P	3 m										
		GT01-C100R4-8P	10 m										
FXCPU direct connection cable	GT01-C200R4-8P	20 m	—	For connecting the FXCPU and GOT For connecting the FXCPU communication expansion board and GOT [MINI-DIN 8-pin ↔ D-sub 9-pin]	●	●	●	●	●	●	● ^{*3*7}		
	GT01-C300R4-8P	30 m											
	GT10-C10R4-8P	1 m											
	GT10-C30R4-8P	3 m											
FXCPU communication expansion board connection cable	GT10-C100R4-8P	10 m	—	For connecting the FXCPU and GOT For connecting the FXCPU communication expansion board and GOT [MINI-DIN 8-pin ↔ separate wire (connector terminal block 9-pin)]	—	—	—	—	—	—	● ^{*4}		
	GT10-C200R4-8P	20 m											
	GT10-C300R4-8P	30 m											
	GT21-C10R4-8P5	1 m											
FXCPU communication expansion board connection cable	GT21-C30R4-8P5	3 m	—	For connecting the FXCPU and GOT For connecting the FXCPU communication expansion board and GOT [MINI-DIN 8-pin and separate wire (connector terminal block 5-pin)]	—	—	—	—	—	—	● ^{*2}		
	GT21-C100R4-8P5	10 m											
	GT21-C200R4-8P5	20 m											
	GT21-C300R4-8P5	30 m											
RS-422 connector conversion cable	GT10-C10R4-8PPL	1 m	—	For connecting the FXCPU and GOT For connecting the FXCPU communication expansion board and GOT [MINI-DIN 8-pin ↔ separate wire (connector terminal block 9-pin)] * This cable cannot be used for FX1NC, FX2NC, FX3UC-D/DSS, FX3G, FX3GC, or FX3S.	—	—	—	—	—	—	● ^{*4}		
	GT10-C10R4-8PC	1 m											
	GT10-C30R4-8PC	3 m											
	GT10-C100R4-8PC	10 m											
RS-422 connector conversion cable	GT10-C200R4-8PC	20 m	—	For connecting the FXCPU and GOT For connecting the FXCPU communication expansion board and GOT [MINI-DIN 8-pin ↔ connector terminal block 9-pin with separate wire connected]	—	—	—	—	—	—	● ^{*4}		
	GT10-C300R4-8PC	30 m											
	GT10-C02H-9SC	0.2 m			—	For connecting a PLC and the GOT [D-sub 9-pin ↔ separate wire (connector terminal block 9-pin)]	—	—	—	—	—	—	● ^{*10}

Cables

Product name	Model	Cable length	Recommended product ¹	Specifications	Supported model ¹⁶								
					GT27	GT25	GT25 Wide	GT25 Rugged	GT23	GT21 Wide	GT21	GS21	
RS-232 cable	Q/LCPU direct connection cable	GT01-C30R2-6P	3 m	—	For connecting the Q/LCPU and GOT For connecting L6ADP-R2 and GOT/personal computer (GT SoftGOT2000) [MINI-DIN 6-pin ↔ D-sub 9 pin]	●	●	●	●	●	●	● ⁵	●
		GT10-C30R2-6P	3 m	—	For connecting the Q/LCPU and GOT [MINI-DIN 6-pin ↔ separate wire (connector terminal block 9-pin)] For connecting multiple GOTs [MINI-DIN 6-pin ↔ separate wire (connector terminal block 9-pin)]	—	—	—	—	—	—	● ⁶	—
	FXCPU communication expansion board connection cable	GT01-C30R2-9S	3 m	—	For connecting the FXCPU communication expansion board and GOT/personal computer (GT SoftGOT2000) For connecting an FXCPU communication special adapter and GOT/personal computer (GT SoftGOT2000) [D-sub 9-pin ↔ D-sub 9 pin]	●	●	●	●	●	●	● ⁵	●
	FXCPU communication special adapter connection cable					●	●	●	●	●	●	●	●
	FXCPU communication special adapter connection cable	GT01-C30R2-25P	3 m	—	For connecting an FXCPU communication special adapter and GOT/personal computer (GT SoftGOT2000) [D-sub 25-pin ↔ D-sub 9 pin]	●	●	●	●	●	●	● ⁵	●
	Computer link connection cable	GT09-C30R2-9P	3 m	○	For connecting a serial communication module and the GOT For connecting a computer link module and the GOT For connecting a peripheral connection module (AJ65BT-R2N) and the GOT [D-sub 9-pin ↔ D-sub 9 pin]	●	●	●	●	●	●	● ⁵	●
	CC-Link (G4) connection cable					●	●	●	●	●	●	●	●
	Computer link connection cable	GT09-C30R2-25P	3 m	○	For connecting a serial communication module and the GOT For connecting a computer link module and the GOT [D-sub 25-pin ↔ D-sub 9 pin]	●	●	●	●	●	●	● ⁵	●
	RS-232 connector conversion cable	GT10-C02H-6PT9P	0.2 m	—	For connecting a PLC and the GOT For connecting multiple GOTs For connecting a barcode reader, RFID, or serial printer and the GOT [D-sub 9-pin ↔ MINI-DIN 6-pin]	—	—	—	—	—	—	● ¹¹	—
	Data transfer cable	GT01-C30R2-6P	3 m	—	For connecting the GOT and a personal computer [MINI-DIN 6-pin ↔ D-sub 9-pin] * This cable is usable for the FA transparent function only, and cannot be used to transfer screen or OS data.	—	—	—	—	—	—	● ¹¹	—
Conversion cable for connecting external I/O unit	GT15-C03HTB	0.3 m	○	For connecting an external I/O unit (GT15-DIO) and external I/O interface unit (A8GT-C05TK, A8GT-C30TB, user-fabricated cable) for GOT-A900	●	● ¹³	—	—	—	—	—	—	
Analog RGB cable	GT15-C50VG	5 m	○	For connecting an RGB image output device (external monitor, personal computer, or others) and the GOT	●	—	—	—	—	—	—	—	
USB cable	Data transfer cable Printer connection cable	GT09-C30USB-5P	3 m	○	For connecting a personal computer (screen design software) and the GOT For connecting a personal computer (GT SoftGOT2000) and QnU/L/FXCPU For connecting a PictBridge-compatible printer and printer unit (GT15-PRN) [USB-A ↔ USB Mini-B]	●	●	●	●	●	●	● ⁹	●
						●	●	●	●	●	●	●	●
Panel-mounted USB port extension	GT14-C10EXUSB-4S	1 m	—	For routing the USB port (host) of the GOT rear face to the front side of the control panel	●	●	●	● ¹⁷	—	●	—	—	
	GT10-C10EXUSB-5S	1 m	—	For routing the USB port (device) of the GOT rear face to the front side of the control panel	● ¹⁴	● ¹⁴	—	● ¹⁷	—	—	● ¹⁵	—	

¹ FA-LTBGT2R4CBL□, FA-CNV240□CBL are developed by Mitsubishi Electric Engineering Company Limited and sold through your local sales office. The other products listed are developed by Mitsubishi Electric Systems & Service Co., LTD, and sold through your local sales office.

² This cable is usable for GT2103-PMBD.

³ This cable is usable for GT2104-RTBD, GT2103-PMBDS.

⁴ This cable is usable for GT2104-RTBD, GT2103-PMBDS, GT2103-PMBLS. For GT2103-PMBLS, use a 3 m or shorter cable.

⁵ This cable is usable for GT2103-PMBDS, GT2103-PMBDS2.

⁶ This cable is usable for GT2104-RTBD, GT2103-PMBDS2.

⁷ GT2104-RTBD, GT2103-PMBDS is possible to correspond by combining the GT10-C02H-9SC type RS-422 connector conversion cable.

⁸ GT2103-PMBDS, GT2103-PMBDS2 is possible to correspond by combining the GT10-C02H-6PT9P type RS-232 connector conversion cable.

⁹ This cable is not usable for the printer connection.

¹⁰ This cable is usable for GT2104-RTBD, GT2103-PMBDS.

¹¹ This cable is usable for GT2103-PMBDS, GT2103-PMBDS2.

¹² This cable is usable for GT2104-RTBD, GT2103-PMBD, GT2103-PMBDS.

¹³ This cable is not usable for GT2505-VTBD.

¹⁴ This cable is usable for GT2712-STWA, GT2712-STWD, GT2710-VTWA, GT2710-VTWD, GT2512F-STNA, GT2512F-STND, GT2510-VTWA, GT2510-VTWD, GT2510F-VTNA, GT2510F-VTND, GT2508-VTWA, GT2508-VTWD, GT2508F-VTNA, GT2508F-VTND.

¹⁵ This cable is usable for GT2104-RTBD, GT2103-PMBD, GT2103-PMBDS, GT2103-PMBDS2, GT2103-PMBLS.

¹⁶ Note that the usable connection types and cables differ depending on the GOT model. For the details, please refer to the GOT2000 Series Connection Manual.

¹⁷ When using a rugged model, the panel-mounted USB port extension does not comply with IP66F.

Cables for GT25 Handy GOT

Product name		Model	Cable length	Recommended product ¹	Specifications	Supported model	
						GT2506 Handy	GT2505 Handy
External connection cable (to connect the connector conversion box)		GT16H-C30-42P	3 m	—	For connection between the Handy GOT and the connector conversion box (GT16H-CNB-42S)	●	—
		GT16H-C60-42P	6 m	—		●	—
		GT16H-C100-42P	10 m	—		●	—
		GT16H-C30-37PE	3 m	—	For connection between the Handy GOT and the connector conversion box (GT16H-CNB-37S)	●	—
		GT16H-C60-37PE	6 m	—		●	—
		GT16H-C100-37PE	10 m	—		●	—
		GT14H-C30-42P	3 m	—		—	●
	GT14H-C60-42P	6 m	—	For connection between the Handy GOT and the connector conversion box (GT16H-CNB-42S)	—	●	
	GT14H-C100-42P	10 m	—		—	●	
External connection cable (to connect the connector conversion box or relay cable) ²		GT11H-C30-37P	3 m	—	For connection between the Handy GOT and the connector conversion box (GT16H-CNB-37S and GT11H-CNB-37S)	—	●
		GT11H-C60-37P	6 m	—		—	●
		GT11H-C100-37P	10 m	—	For connection between the Handy GOT and the relay cable (GT11HC15R□-□P)	—	●
External connection cable (to connect separate wire) ²		GT11H-C30	3 m	—	For connection between the Handy GOT and the FA device, the power supply, or the operation switch	—	●
		GT11H-C60	6 m	—		—	●
		GT11H-C100	10 m	—		—	●
Relay cable (to connect the external connection cable and a programmable controller) ²		GT11H-C15R4-8P	1.5 m	—	For connecting to a programmable controller	—	●
		GT11H-C15R4-25P	1.5 m	—		—	●
		GT11H-C15R2-6P	1.5 m	—		—	●
RS-422 conversion cable		FA-CNV2402CBL	0.2 m	○	For connecting the QCPU/L02SCPU(-P) and the RS-422 cable (GT01-C□R4-25P, GT10-C□R4-25P, GT21-C□R4-25P5) For connecting the L6ADP-R2 and the RS-422 cable (GT01-C□R4-25P, GT10-C□R4-25P, GT21-C□R4-25P5) [MINI-DIN 6-pin ↔ D-sub 25-pin]	●	●
		FA-CNV2405CBL	0.5 m	○		●	●
RS-422 cable ³	QnA/FXCPU direct connection cable Computer link connection cable CC-Link (G4) connection cable	GT01-C30R4-25P	3 m	—	For connecting the QnA/ACPU/motion CPU (A series)/FXCPU and the GOT For connecting the RS-422 connector conversion cable (FA-CNV□CBL) and the GOT For connecting the serial communication module and the GOT For connecting the peripheral connection module (AJ65BT-G4-S3) and the GOT [D-sub 25-pin ↔ D-sub 9-pin]	●	●
		GT01-C100R4-25P	10 m	—		●	●
	Computer link connection cable	GT09-C30R4-6C	3 m	○	For connecting the serial communication module and GOT For connecting a computer link module and GOT [separate wire ↔ D-sub 9-pin]	●	●
		GT09-C100R4-6C	10 m	○		●	●
	FXCPU direct connection cable FXCPU communication expansion board connection cable	GT01-C10R4-8P	1 m	—	For connecting the FXCPU and GOT For connecting the FXCPU communication expansion board and GOT [MINI-DIN 8-pin ↔ D-sub 9 pin]	●	●
		GT01-C30R4-8P	3 m	—		●	●
GT01-C100R4-8P		10 m	—	●		●	
RS-232 cable	Q/LCPU direct connection cable	GT11H-C30R2-6P	3 m	—	For connecting a QCPU or LCPU and the connector conversion box for Handy GOT (GT11H-CNB-37S/GT16H-CNB-42S)	●	●
	FXCPU communication expansion board connection cable FXCPU communication special adapter connection cable	GT01-C30R2-9S	3 m	—	For connecting the FXCPU communication expansion board and GOT/ personal computer (GT SoftGOT2000) For connecting an FXCPU communication special adapter and GOT/ personal computer (GT SoftGOT2000) [D-sub 9-pin ↔ D-sub 9 pin]	●	●
		GT01-C30R2-25P	3 m	—	For connecting an FXCPU communication special adapter and GOT/ personal computer (GT SoftGOT2000) [D-sub 25-pin ↔ D-sub 9 pin]	●	●
	Computer link connection cable CC-Link (G4) connection cable	GT09-C30R2-9P	3 m	○	For connecting a serial communication module and GOT For connecting a computer link module and GOT For connecting the peripheral connection module (AJ65BT-R2N) and GOT [D-sub 9-pin ↔ D-sub 9 pin]	●	●
		GT09-C30R2-25P	3 m	○	For connecting a serial communication module and GOT For connecting a computer link module and GOT [D-sub 25-pin ↔ D-sub 9 pin]	●	●
USB cable	Data transfer cable Printer connection cable	GT09-C30USB-5P	3 m	○	For connecting a personal computer (screen design software) and GOT For connecting a personal computer (GT SoftGOT2000) and QnU/L/ FXCPU For connecting a PictBridge-compatible printer and printer unit (GT15-PRN) [USB-A ↔ USB Mini-B]	●	●

¹ The products listed are developed by Mitsubishi Electric Systems & Service Co., LTD. and sold through your local sales office.

² Use the cable version C or later.

³ The total length of the cables between the Handy GOT and a controller includes the length of an external cable. A cable of 20 m or longer cannot be used for GT2506HS-VTBD and GT2505HS-VTBD.

Cables for non-Mitsubishi FA products

RS-232 and RS-422 cables are available from every manufacturer. For more details, please refer to the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/) or the GOT2000 Series Connection Manual.

Manuals

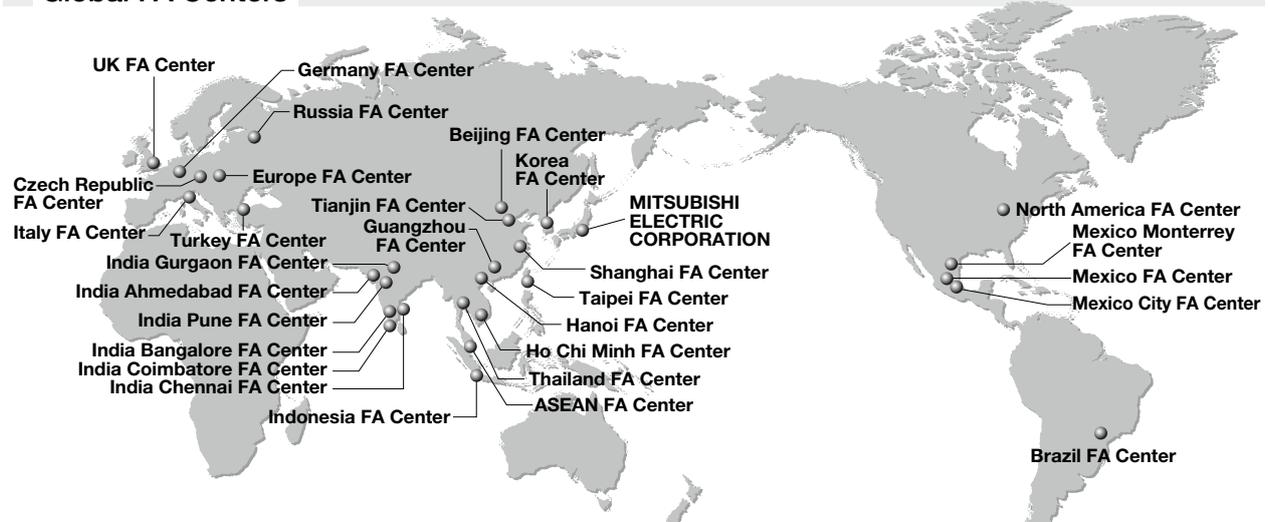
Manual name	Manual number
GOT2000 Series User's Manual (Hardware)	SH-081194ENG
GOT2000 Series User's Manual (Utility)	SH-081195ENG
GOT2000 Series User's Manual (Monitor)	SH-081196ENG
GOT2000 Series Connection Manual (Mitsubishi Products) For GT Works3 Version1	SH-081197ENG
GOT2000 Series Handy GOT Connection Manual For GT Works3 Version1	SH-081867ENG
GOT SIMPLE Series User's Manual	JY997D529011
GT Designer3 (GOT2000) Screen Design Manual	SH-081220ENG



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◆ Approval standards

Mitsubishi's products comply with various standards and laws.

Mitsubishi's products also comply with various international standards including UL standards, and maritime certifications.

<International standards>

Mark	Overview	Country/Region
CE	EMC Directive harmonized standards, Low Voltage Directive harmonized standards, RoHS Directive harmonized standards	Europe
Ex	ATEX Directive harmonized standards	Europe
UL	Safety standards Class I, Division 2	United States
cUL	Safety standards Class I, Division 2	Canada
EAC	Technical Regulations on EMC, Technical Regulations on safety of low voltage equipment	Eurasian Economic Union (Russia, Belarus, Kazakhstan, etc.)
KC	EMC standards	Korea
KCs	Safety standards	Korea

<Maritime certifications>

Abbrev.	Certification Organization	Country
ABS	American Bureau of Shipping	United States
BV	Bureau Veritas	France
DNV GL	DNV GL	Norway, Germany
LR	Lloyd's Register	England
NK	NIPPON KAIJI KYOKAI	Japan
RINA	Registro Italiano Navale	Italy

For the details on the approval model within each standard, please refer to the Mitsubishi Electric Factory Automation Global website (www.MitsubishiElectric.com/fa/).

Factory Automation Global website

www.MitsubishiElectric.com/fa/

Mitsubishi Electric Factory Automation provides a mix of services to support its customers worldwide, through a consolidated global website. In addition to documents such as catalogs, manuals, and technical bulletins, the latest information about GOT will be posted on the website as soon as it becomes available.

Factory Automation Global website



Industrial Computer MELIPC

The information about MELIPC MI3000 can be viewed from here.

Download

Various documents such as catalogs, manuals, and technical bulletins can be downloaded.

Human-Machine Interfaces (HMIs)-GOT top page



FAQ

Frequently asked questions about Mitsubishi Electric industrial devices including GOT can be viewed from here.

Related products

MELIPC MI3000

Panel computers equipped with integrated touch screens

For details



21.5" widescreen MI3321G-W

15" MI3315G-W

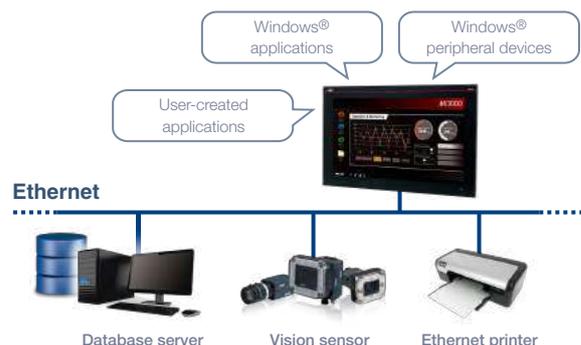
Beautiful, stunning, large screen monitor

Large 21.5-inch widescreen display and 15-inch display models are available. Colorful images are displayed with 16.77 million colors. Light-touch operation is realized with a PCAP touch panel that is widely used for smartphones and tablet devices.

Item	Specifications
Display	15"/21.5", TFT color LCD, 16.77 million colors
Resolution	Full HD, XGA
Backlight	LED
Internal storage	64 GB
Standard interface	Ethernet (3 ports), RS-232, RS-422/485, DisplayPort USB host (USB-A): 2 channels (USB 2.0), 2 channels (USB 3.0) Sound output
Extension interface	PCI Express® x 1 slot, (half size) x 1 mini PCI Express® Full size x 2 M.2 (2280) SATA x 1

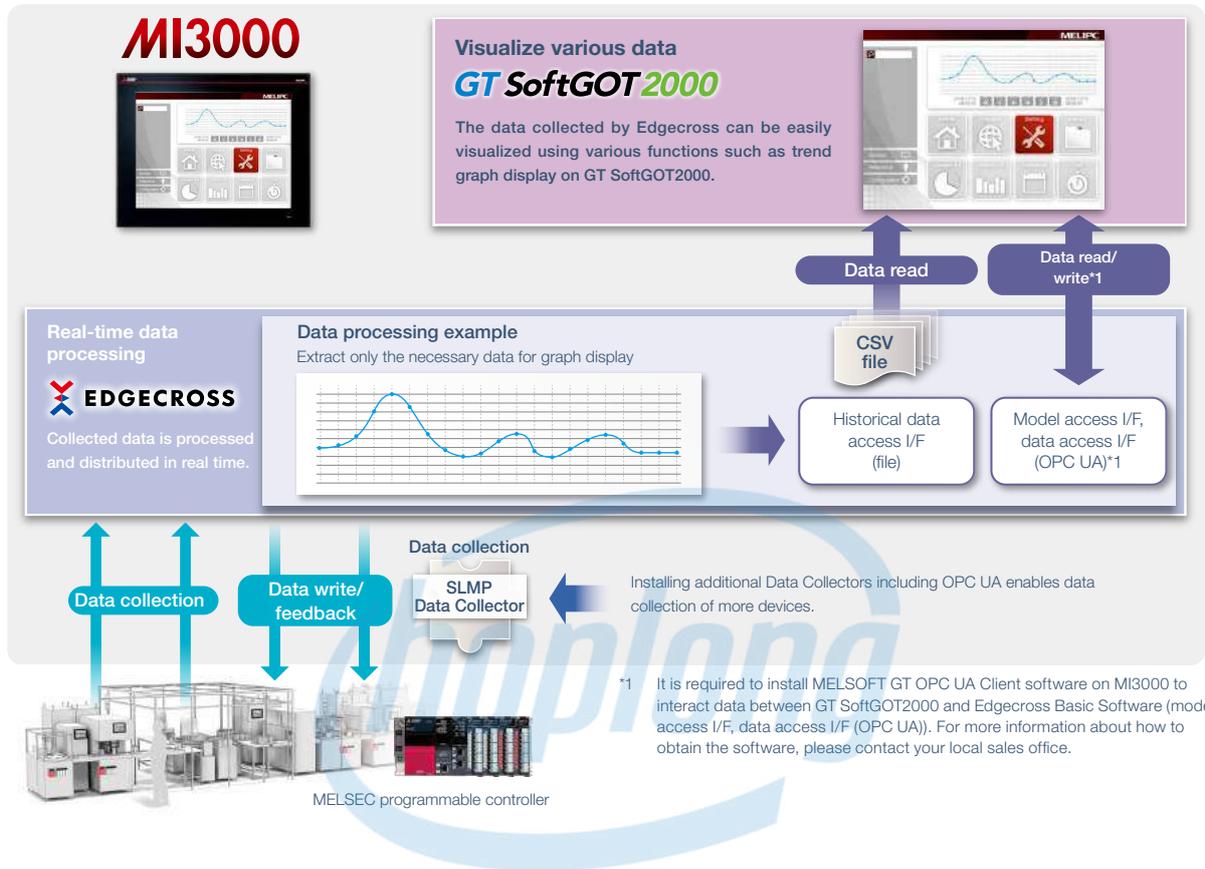
Windows® 10 IoT Enterprise pre-installed

Not only familiar Windows® applications, but also usercreated applications can be used to configure systems that meet requirements of individual customers.



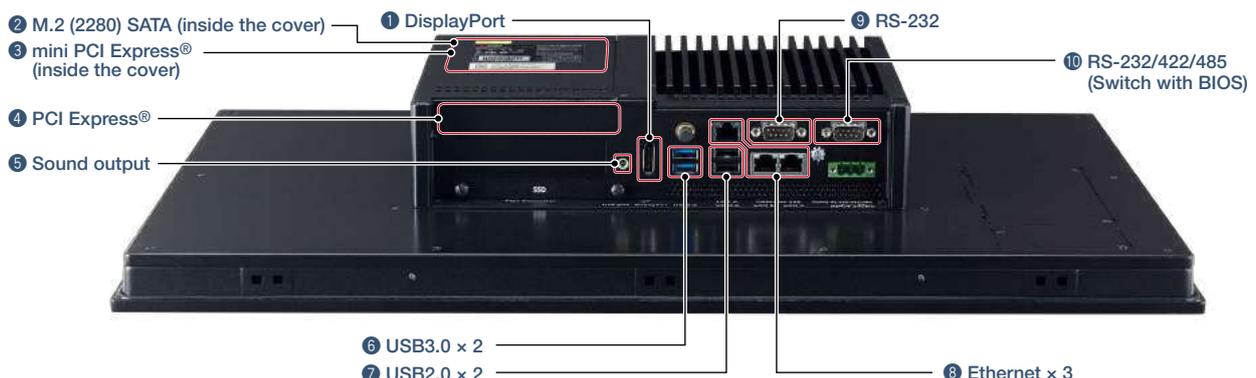
Various software pre-installed

Edgecross Basic Software, SLMP Data Collector, and GT SoftGOT2000 are pre-installed on MI3000. The data collected by Edgecross, SLMP Data Collector, and GT SoftGOT2000 can be monitored on the GT SoftGOT2000 screen.



MELIPC MI3000 external appearance [rear face]

- 1 DisplayPort**
Output to an external monitor.
Screen can be displayed on a larger monitor.
- 2 M.2 (2280) SATA (inside the cover)**
Expand storage for collecting and storing large amounts of data.
- 3 4 PCI Express®/mini PCI Express® (inside the cover)**
Expand functions by using an expansion board.
- 5 Sound output**
For outputting sound by connecting a speaker with built-in amplifier.
To use sound notification on GT SoftGOT2000, sound files can be easily created with GT Designer3.
* For the details, please refer to page 118.
- 6 7 USB3.0/USB2.0**
Each interface has two ports for connecting to various USB compatible devices.
- 8 Ethernet**
Various Ethernet compatible devices can be connected to three ports. The network in the office can be separated from the one in the shop floor to enhance security.
- 9 10 RS-232/422/485**
For data collection from existing facilities.



General specifications

Item	Specifications
Operating ambient temperature	0 °C to 55 °C
Storage ambient temperature	-20 °C to 60 °C
Operating ambient humidity	10% RH to 90% RH, non-condensing
Storage ambient humidity	10% RH to 90% RH, non-condensing
Vibration resistance	Compliant with IEC60068-2-64, 5 to 500Hz, one hour in direction X, Y, Z each
Random vibration	
Shock resistance	Compliant with IEC-60068-2-27, 10 G, half sine wave, 11 msec
Operating atmosphere	No greasy fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (as well as at storage)
Operating altitude *3/4	—
Overvoltage category *1	II or less
Pollution degree *2	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.

- *1 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.
- *2 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.

Power supply specifications

Item	Specifications	
	MI3321G-W	MI3315G-W
Power supply voltage	24 V DC (+20%, -20%)	
Power consumption	Under the maximum load	90 W
	Stand alone	27 W
Applicable wire size	Single wiring (single wire, stranded wire): 0.2 to 2.5 mm ² (AWG24 to AWG14) Rod terminal with an insulation sleeve: 0.25 to 2.5 mm ² (AWG22 to AWG14) Double wiring (single wire, stranded wire): 0.2 to 1.5 mm ² (AWG24 to AWG16)	
Applicable solderless terminal	DNO0508D (AWG20), DNO0708D (AWG18), DNO1508D (AWG16) (manufactured by DINKLE) Crimp tool: DNT13-0101 (manufactured by DINKLE)	
Applicable tightening torque (for terminal block terminal screws)	0.20 N·m (M2.5)	

- *3 Do not use or store the product under pressure higher than the atmospheric pressure of altitude 0 m. Doing so may cause malfunction.
- *4 No limitations to altitude. When used at a high altitude, the upper limits of the permissible voltage and the operating ambient temperature become lower. Please check performance before use at the customer side.

Performance specifications

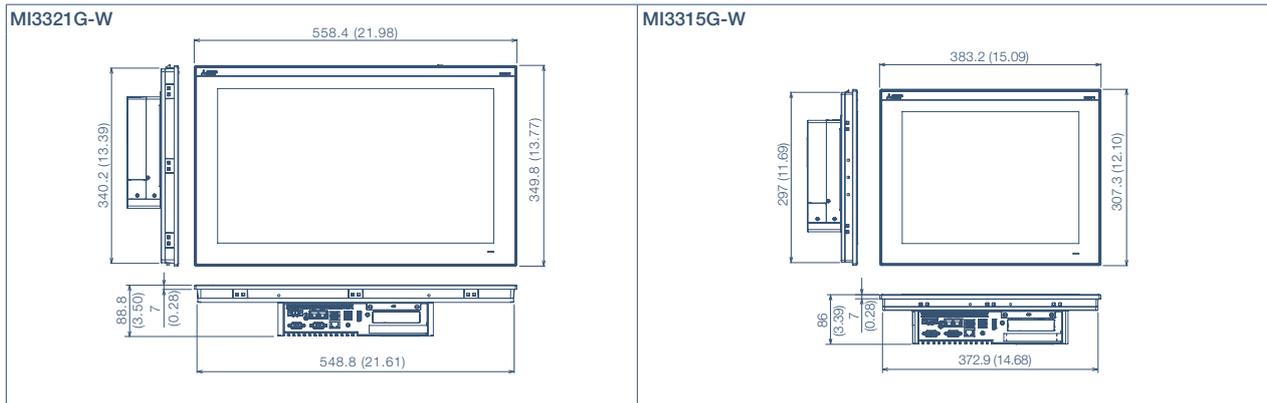
Item	Specifications		
	MI3321G-W	MI3315G-W	
Display section *1 *2	Display device	TFT color LCD	
	Screen size	21.5" widescreen	
	Resolution	Full HD: 1920 × 1080	
	Contrast ratio	5000:1	
	Display color	16.77 million	
	Backlight	LED backlight (not replaceable)	
Touch panel *3/11	Type	PCAP (Projected Capacitive)	
	Simultaneous press	Max. 10 keys *3	
	Transmittance	90%±3%	
Panel color	Black		
Hardware	MPU	Intel® Core™ i3-6100U 2.30 GHz (Dual Core)	
	Memory capacity	RAM: 8 GB DDR4	
	Battery	ROM: 64 GB SSD	
	Life	Not replaceable *4	
Software	OS	Windows® 10 IoT Enterprise 2016 LTSB (64 bit)	
Additional storage	Interface	At initial startup: English	
		M.2(2280) SATA SSD: 1	
Extension interface	PCI Express®	x1 slot, (half size) x 1	
	mini PCI Express®	Full size x 2	
Built-in interface	Display (for external monitor output)	Interface	DisplayPort 1.4
		Connector	DisplayPort connector
		Number of ports	1
	Ethernet	Resolution*5	Max. 3840 x 2160
		Interface	10BASE-T, 100BASE-TX, 1000BASE-T
		Number of ports	3
	RS-232	Connector for external wiring	RJ-45
		Number of ports	1
		Transmission speed	300 to 115200 bps
	RS-232/RS-422/RS-485	Connector for external wiring	D-sub 9-pin (male)
		Interface	RS-232, RS-422, RS-485 (two wire system)
		Number of ports	Default: RS-232 *6
USB	Transmission speed	300 to 115200 bps	
	Connector for external wiring	D-sub 9-pin (male)	
	Number of ports	• USB3.0: 2 • USB2.0: 2	
Sound output	Connector	USB Type-A	
	Interface	Audio Line-Out	
Built-in clock precision	Number of ports	1	
	Connector	φ3.5 stereo mini-jack (3-prong)	
POWER LED	Daily difference: -2 seconds to +2 seconds Monthly difference: -60 seconds to +60 seconds		
Protective structure	2 colors (blue and orange)		
Safety standards, radio laws (as of December 2019)	Front: IP66		
External dimensions	CE, UL, cUL, KC, BSMI, CCC, FCC		
	349.8(13.77) (H) × 558.4(21.98) (W) × 88.8(3.50) (D) mm(inch)	307.3(12.10) (H) × 383.2(15.09) (W) × 86(3.39) (D) mm(inch)	
Panel cutting dimensions	341.8(13.46) (H) × 550.3(21.67) (W) mm(inch)		
Weight	9.8(21.6) kg(lb)	7.0(15.4) kg(lb)	

- *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 Multiple touch keys cannot be pressed simultaneously while GT SoftGOT2000 is used.
- *4 The battery cannot be removed by users. For the battery replacement, please contact your local sales office.
- *5 Maximum resolution at 60 Hz.
- *6 The interface can be switched between RS-232, RS-422, and RS-485 with the BIOS.

External dimensions

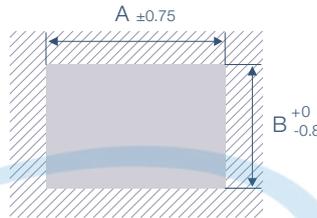
Unit : mm (inch)



Panel cut dimensions

Unit : mm (inch)

Screen size	Model	A	B
21.5" widescreen	M3321G-W	550.3 (21.67)	341.8 (13.46)
15"	M3315G-W	374.5 (14.74)	298.5 (11.75)



* Panel thickness: 2 mm to 6 mm
(0.08 inch to 0.24 inch)

Product list

MELIPC

Product name	Model	Screen size	Panel color	Outline
MELIPC MI3000	M3321G-W	21.5" widescreen, Full HD	Black	Edgecross Basic Software, SLMP Data Collector, GT SoftGOT2000 pre-installed
	M3315G-W	15" XGA	Black	

Option

Product name	Model	Outline
Network interface board	Q81BD-J71GF11-T2	PCI Express® bus compatible, CC-Link IE Field Network (master/local station)
	Q81BD-J71GP21-SX	PCI Express® bus compatible, CC-Link IE Controller Network (control/normal station)
	Q81BD-J71GP21S-SX	PCI Express® bus compatible, CC-Link IE Controller Network (control/normal station), with external power supply function

Engineering tool

Product name	Model	Outline	
HMI/GOT Screen Design Software MELSOFT GT Works3	SW1DND-GTWK3-E	English Version	Standard license product *1
GT Works Text to Speech License *2	SW1DND-GTVO-M	Standard license product	

*1 The desired number of licenses (2 or more) can be purchased. For details, please contact your local sales office.

*2 To edit sound files, each personal computer requires one license.



For the details of MI3000, please refer to the MELIPC MI3000 catalog (L(NA)08600ENG).



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The actual color may differ slightly from the pictures in this catalog.
The actual display may differ from what are shown on GOT screen images.

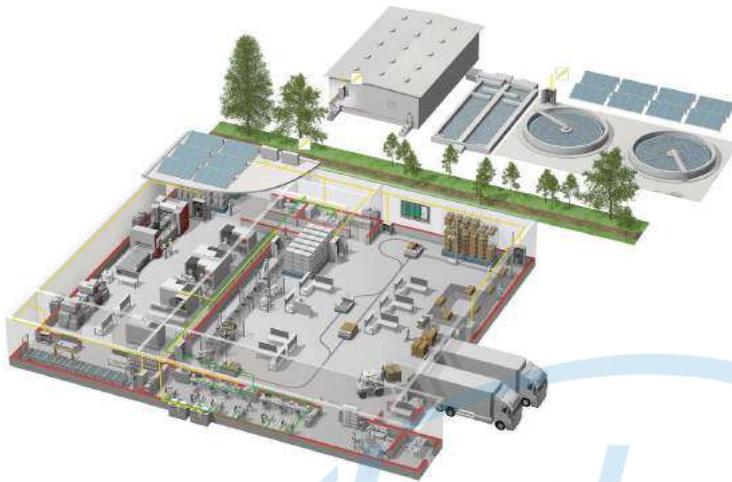
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