eco Changes for a greener tomorrow

MITSUBISHI ELECTRIC
Changes for the Better

FACTORY AUTOMATION

e-F@ctory

Graphic Operation Terminal

GOT2000 Series

GOT2000
Graphic Operation Terminal

- Innovative display features in simply designed body
- Enhanced lineup with wide models
- GOT Mobile & GOT Drive further expands possibilities within factory systems

GLOBAL IMPACT OF MITSUBISHI ELECTRIC

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

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

Concept movie Lineup

Enhanced lineup satisfies your needs in various applications

GT27

Advanced model with multi-touch gesture functions

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

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

15 inch

TFT 65536 colors | AC | DC

XGA 1024×768

GT2715-XTBA
GT2715-XTBD

12.1 inch

TFT 65536 colors | AC | DC

SVGA 800×600

GT2712-STBA
GT2712-STBD
GT2712-STWA [White model]
GT2712-STWD [White model]

10.4 inch

TFT 65536 colors | AC | DC

SVGA 800×600

GT2710-STBA
GT2710-STBD

VGA 640×480

GT2710-VTBA
GT2710-VTBD
GT2710-VTWA [White model]
GT2710-VTWD [White model]

GT25

High performance, cost efficient, mid-range model

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

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

12.1 inch

TFT 65536 colors | AC | DC

SVGA 800×600

GT2512-STBA
GT2512-STBD

10.4 inch

TFT 65536 colors | AC | DC

VGA 640×480

GT2510-VTBA
GT2510-VTBD
GT2510-VTWA [White model]
GT2510-VTWD [White model]

GT25 Wide

GOT2000 widescreen expands your view

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

NEW

10.1 inch

TFT 65536 colors | DC

WXGA 1280×800

GT2510-WXTBD
GT2510-WXTSD

NEW

7 inch

TFT 65536 colors | DC

WVGA 800×480

GT2507-WTBD
GT2507-WTSD

GT23

Unchallenged cost performance

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

10.4 inch

TFT 65536 colors | AC | DC

VGA 640×480

GT2310-VTBA
GT2310-VTBD

8.4 inch

TFT 65536 colors | AC | DC

VGA 640×480

GT2308-VTBA
GT2308-VTBD

HMI/GOT Screen Design Software

Professional Designs in Just a Few Clicks

GOT Screen Design Software
MELSOFT GT Works3 +plus

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

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

*2 Not supported by GT2705.

SoftGOT

8.4 inch

TFT 65536 colors | AC | DC

SVGA 800×600: GT2708-STBA, GT2708-STBD

VGA 640×480: GT2708-VTBA, GT2708-VTBD

5.7 inch

TFT 65536 colors | DC

VGA 640×480: GT2705-VTBD

GOT2000 compatible software

65536 colors

USB port license key

GOT2000 compatible HMI software

GT SoftGOT2000 Version1

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

Sound output*2 | External I/O*2

8.4 inch

TFT 65536 colors | AC | DC

VGA 640×480: GT2508-VTBA, GT2508-VTBD, GT2508-VTWA [White model], GT2508-VTWD [White model]

NEW

5.7 inch

TFT 65536 colors | DC

VGA 640×480: GT2505-VTBD

GT25

Open frame

A new style of GOT2000

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

12.1 inch

TFT 65536 colors | AC | DC

SVGA 800×600: GT2512F-STNA, GT2512F-STND

10.4 inch

TFT 65536 colors | AC | DC

VGA 640×480: GT2510F-VTNA, GT2510F-VTND

8.4 inch

TFT 65536 colors | AC | DC

VGA 640×480: GT2508F-VTNA, GT2508F-VTND

GT21

Compact models with basic functions

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

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

4.3 inch

TFT 65536 colors | DC

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

3.8 inch

TFT mono-chrome | DC

5-color LED

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

GT21 Wide

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

NEW

7 inch

TFT 65536 colors | DC

WVGA 800×480: GT2107-WTBD, GT2107-WTSD

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

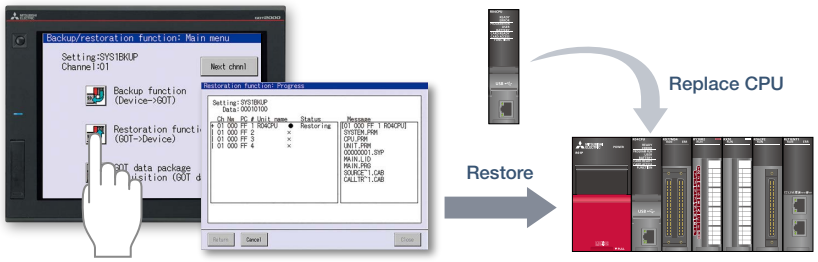
Communication interfaces such as Ethernet, RS-232, RS-422/485, USB host/device and SD memory card are standard features. High capacity data processing ensure smooth screen operation even when multiple tasks, such as logging, script, alarm, or device data transfer, are running. In addition, image recording, 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* (High-Speed 480 Mbps) USB device (USB Mini-B) 1 channel (High-Speed 480 Mbps) SD memory card interface
Extension interface	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]

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

❷ USB interface: device (USB Mini-B)
Connect to a personal computer and transfer data.
* Standard models: front face only
* White models: rear face only

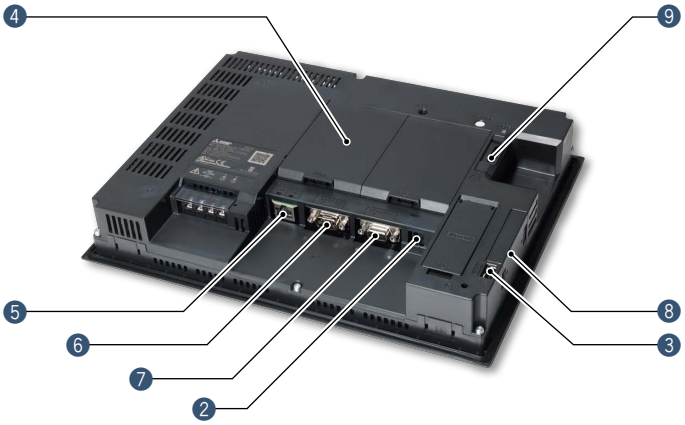
❸ USB interface: host (USB-A)*1
Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory.
A USB mouse, keyboard, barcode reader*2, or RFID reader*2 can also be connected.
*1 White models: rear face only
*2 USB keyboard (HID) compatible model only

❹ Extension interface
Communication and option units can be installed.

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

❻ RS-232 interface
Connect to various industrial devices, barcode readers and serial printers.

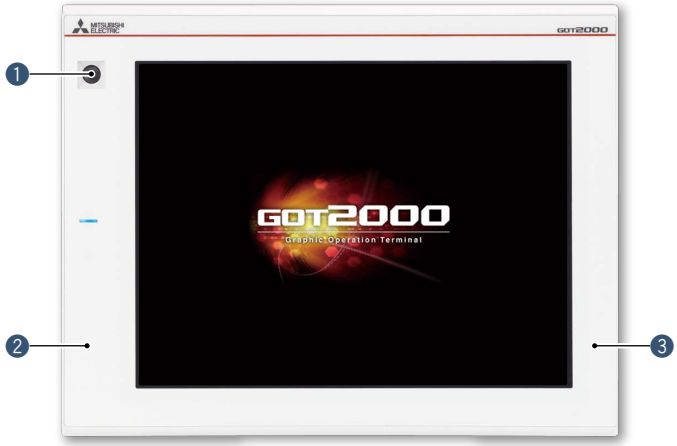
❼ RS-422/485 interface
Connect to various industrial devices and barcode readers.



❽ Side interface
Mount a wireless LAN communication unit.

❾ SD memory card interface
Save large volumes of data, including alarms and logging data.

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



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

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

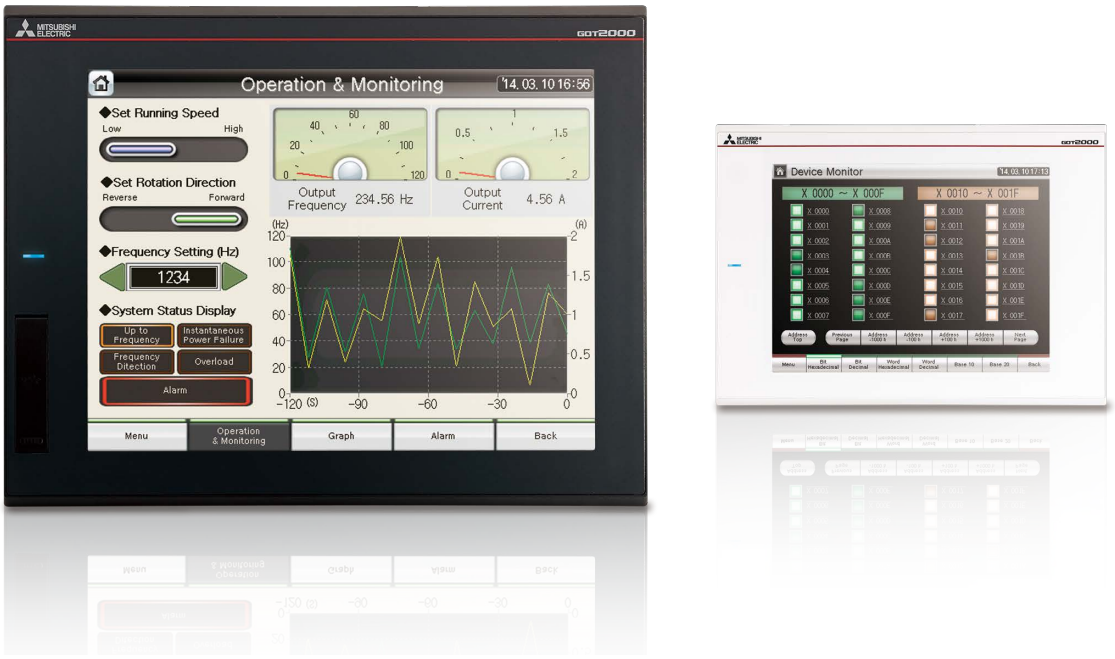
❸ White body
The white model portrays a clean image.

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 57.

GT25 model

High performance, cost efficient, mid-range model



A wide variety of specifications suit every system design

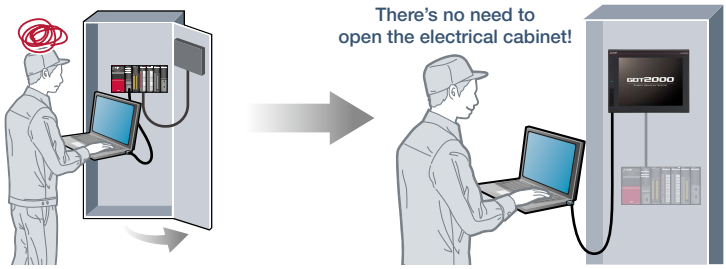
Communication interfaces such as Ethernet, RS-232, RS-422/485, USB host/device and SD memory card are standard features. High capacity data processing ensure smooth screen operation even when multiple tasks, such as logging, script, alarm, or device data transfer, are running.

Item	Specifications
Display	5.7" NEW /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 (High-Speed 480 Mbps) USB device (USB Mini-B) 1 channel (High-Speed 480 Mbps) SD memory card interface
Extension interface*2	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!

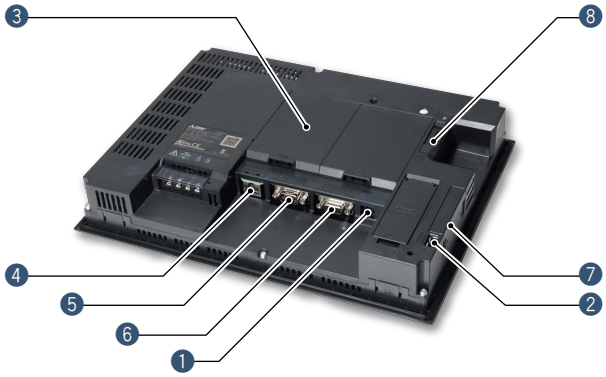
By connecting a personal computer to the front USB interface on the GOT, the GOT acts as a transparent gateway to enable startup and adjustment of equipment. Users do not have to bother with opening the electrical cabinet or changing cable connections.



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

❶ USB interface: device (USB Mini-B)
Connect to a personal computer and transfer data.
* Standard models: front face only
* White models: rear face only

❷ 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



❸ Extension interface
Communication and option units can be installed.

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

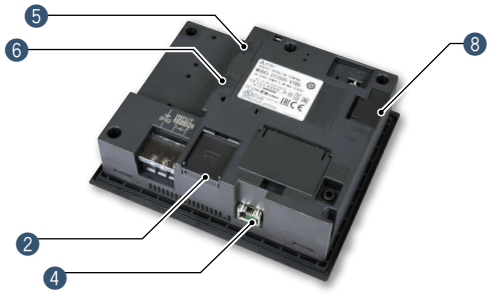
❺ RS-232 interface
Connect to various industrial devices, barcode readers and serial printers.

❻ RS-422/485 interface
Connect to various industrial devices and barcode readers.

❼ Side interface
Mount a wireless LAN communication unit.

❽ SD memory card interface
Save large volumes of data, including alarms and logging data.

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



■ GT25 white model external appearance [front face]

❾ 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.

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

⓫ White body
The white model portrays a clean image.

White model features

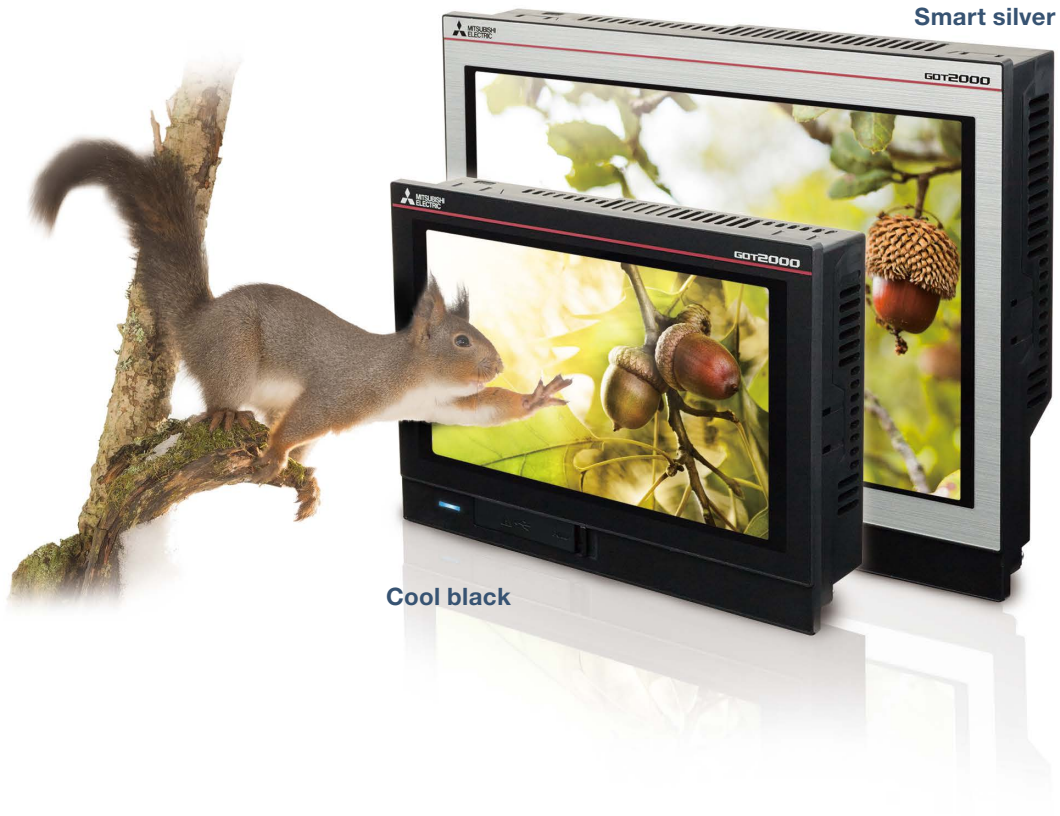
GOT is acceptable for use in hazardous locations classified by various safety standards (Class I, Division 2 [the United States, Canada], ATEX [Europe], KCs [Korea]).
* Supported standards vary depending on the model. For the details, please refer to page 57.

NEW

GT25 wide model

GOT2000 widescreen expands your view

For details Concept movie



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.

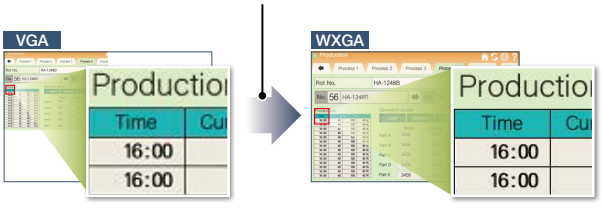
Item	Specifications
Display	7"/10.1", TFT color LCD, 65536 colors
Resolution	7": WVGA, 10.1": WXGA
Backlight	White LED
User memory	Memory for storage (ROM): 32MB Memory for operation (RAM): 128MB
Standard interface	Ethernet (2 ports), RS-232, RS-422/485 USB host (USB-A) 1 channel (High-Speed 480 Mbps) USB device (USB Mini-B) 1 channel (High-Speed 480 Mbps) Sound output interface (ϕ3.5 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.

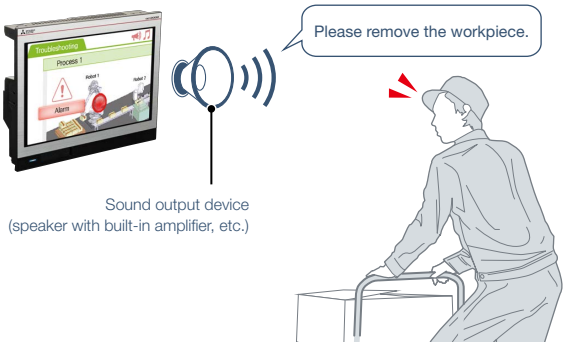
About 3.3 times higher resolution displays small characters clearly



* 10.1 inch model

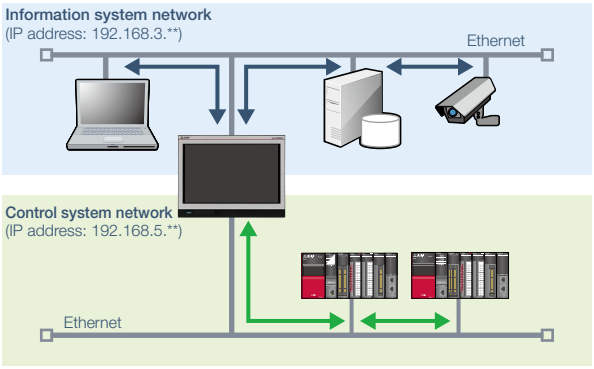
Add value to your system with sound notification

The built-in sound output interface makes it easy to implement the sound notification system (page 59, page 94). 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.



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]

❶ USB interface: device (USB Mini-B)
Connect to a personal computer and transfer data.

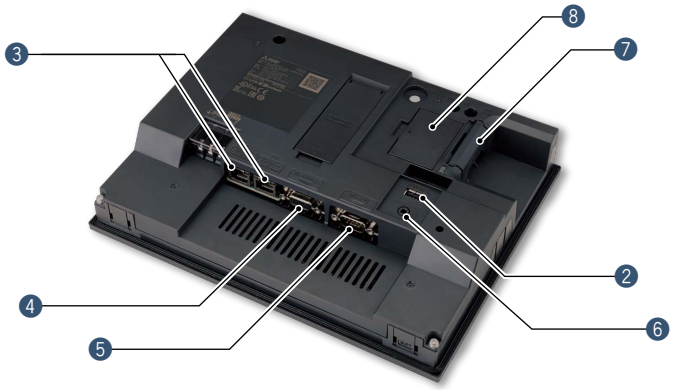
❷ USB interface: host (USB-A)
Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory. A USB mouse, keyboard, barcode reader*, or RFID reader* can also be connected.
* USB keyboard (HID) compatible model only

❸ Ethernet interface (2 ports)
Use Ethernet to simultaneously connect to up to four types of industrial devices from different manufacturers. CC-Link IE Field Network Basic compatible devices can also be connected.

❹ RS-422/485 interface
Connect to various industrial devices and barcode readers.

❺ RS-232 interface
Connect to various industrial devices, barcode readers and serial printers.

❻ Sound output interface (ϕ3.5 minijack)
Output sound by connecting ϕ3.5 stereo mini-plug (3-prong).



❼ SD memory card interface
Save large volumes of data, including alarms and logging data.

❽ Wireless LAN communication unit interface
Mount a wireless LAN communication unit.

For details

GT25 model Open frame model

A new style of GOT2000

GOT complements machine design

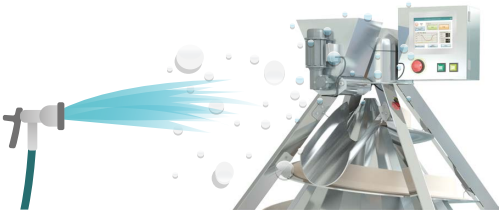
Installing the GOT2000 from the back side of the control panel complements the machine-design surface.
Using a stainless-look environmental protection sheet allows the touch panel to blend into the production machines for the pharmaceutical and food industries.

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 (High-Speed 480 Mbps) USB device (USB Mini-B) 1 channel (High-Speed 480 Mbps) SD memory card interface
Extension interface	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.

Before After

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

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

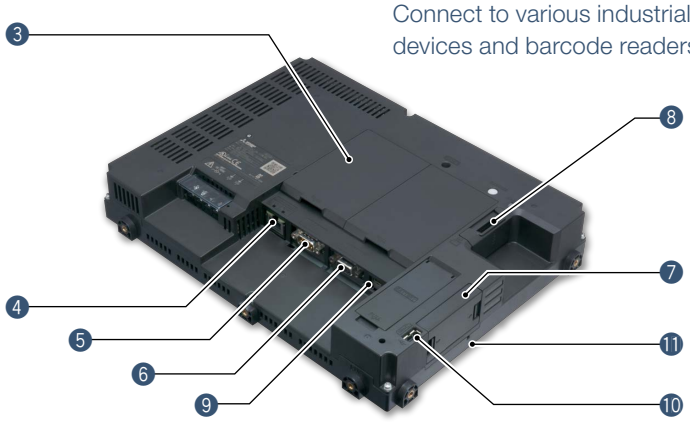
❷ **Unit installation fitting**
Fittings to install GOT to a panel are included.

❸ **Extension interface**
Communication and option units can be installed.

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

❺ **RS-232 interface**
Connect to various industrial devices, barcode readers and serial printers.

❻ **RS-422/485 interface**
Connect to various industrial devices and barcode readers.



❼ **Side interface**
Mount a wireless LAN communication unit.

❽ **SD memory card interface**
Save large volumes of data, including alarms and logging data.

❾ **USB interface: device (USB Mini-B)**
Connect to a personal computer and transfer data.

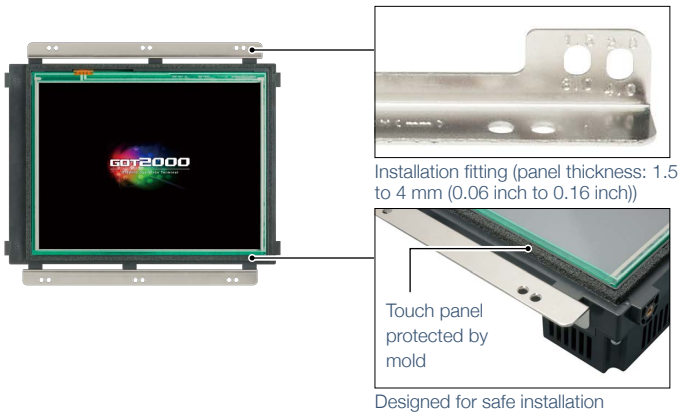
❿ **USB interface: host (USB-A)**
Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory. A USB mouse, keyboard, barcode reader*, or RFID reader* can also be connected.
* USB keyboard (HID) compatible model only

⓫ **POWER LED**
Check the power supply status.

■ 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.



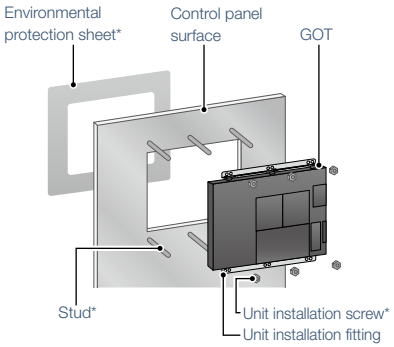
Designed for safe installation

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 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

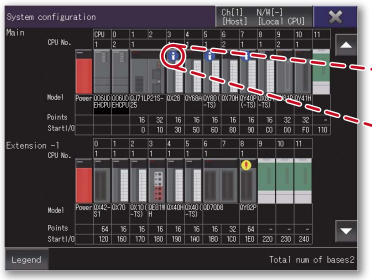
Communication interfaces such as Ethernet, RS-232, RS-422/485, USB host/device and SD memory card are standard features. Advanced interactive features such as data logging, multi-channel communication, and FA transparent function are supported.

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 (Full-Speed 12 Mbps) USB device (USB Mini-B) 1 channel (Full-Speed 12 Mbps) SD memory card interface

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

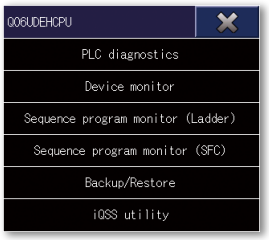
A graphical system configuration diagram indicates module statuses. When you touch a module the extended function list is shown and you can carry out maintenance work efficiently.

System configuration diagram



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

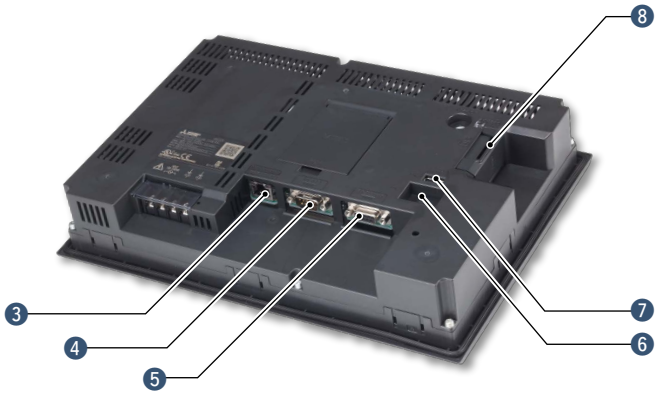
Extended functions menu



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

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

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



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

❹ RS-232 interface
Connect to various industrial devices, barcode readers and serial printers.

❺ RS-422/485 interface
Connect to various industrial devices and barcode readers.

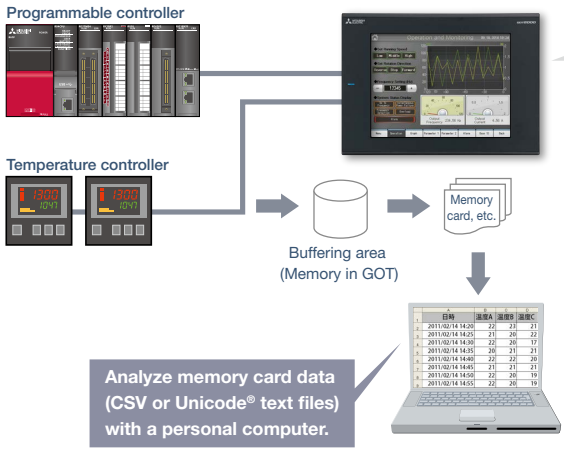
❻ USB interface: device (USB Mini-B)
Connect to a personal computer and transfer data.

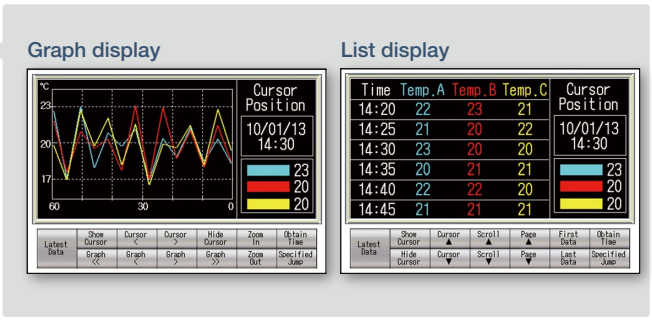
❼ USB interface: host (USB-A)
Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory.
A USB mouse, keyboard, barcode reader*, or RFID reader* can also be connected.
* USB keyboard (HID) compatible model only

❽ 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.





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): 9MB
Standard interface	Ethernet, RS-232, RS-422/485 USB device (USB Mini-B): 1 channel (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

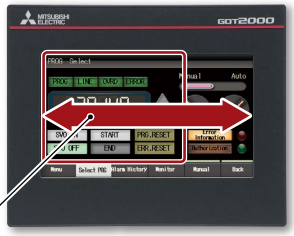
4.7 inch

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

Resolution

1.5 times wider in horizontal direction

GT2104-RTBD



4.3 inch

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

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

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

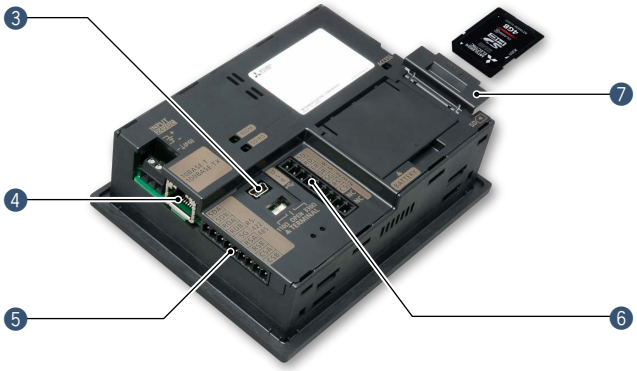
❷ Flat body
The front flat screen is easy to clean. (USB interface is on the back.)

❸ USB interface: device (USB Mini-B)
Connect to a personal computer and transfer data.

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

❺ RS-422/485 interface
Connect to various industrial devices and barcode readers.

❻ RS-232 interface
Connect to various industrial devices, barcode readers and serial printers.



❼ 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 (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.

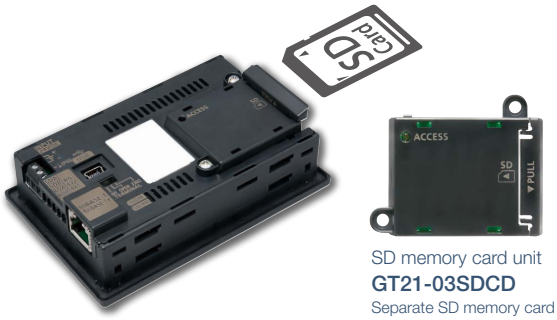
GT1020
Monochrome (black/white) STN LCD

GT2103
Monochrome TFT LCD with 32 gray scales

* Comparison of GT1020 and GT2103-P

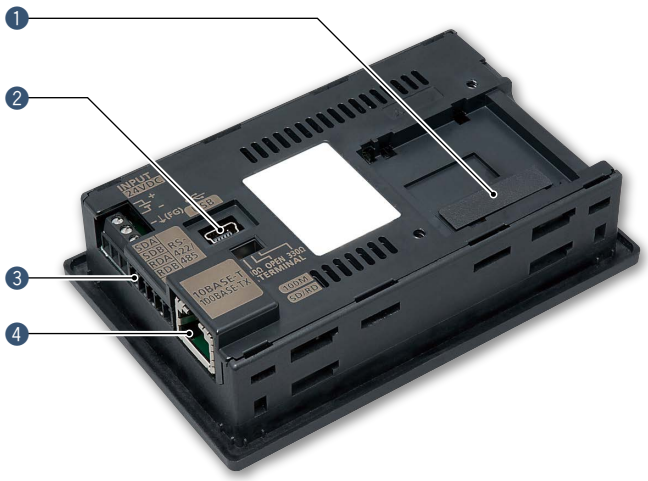
SD memory card unit is avaiilable!

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]



❶ SD memory card unit interface
Connect an optional SD memory card unit and save data including alarms and logging data.
* Excluding GT2103-PMBLS

❷ USB interface: device (USB Mini-B)
Connect a personal computer and transfer data.

❸ RS-422/485 interface
Connect to various industrial devices and barcode readers.
* Excluding GT2103-PMBDS2
* RS-422 on GT2103-PMBLS (dedicated to FX connection)

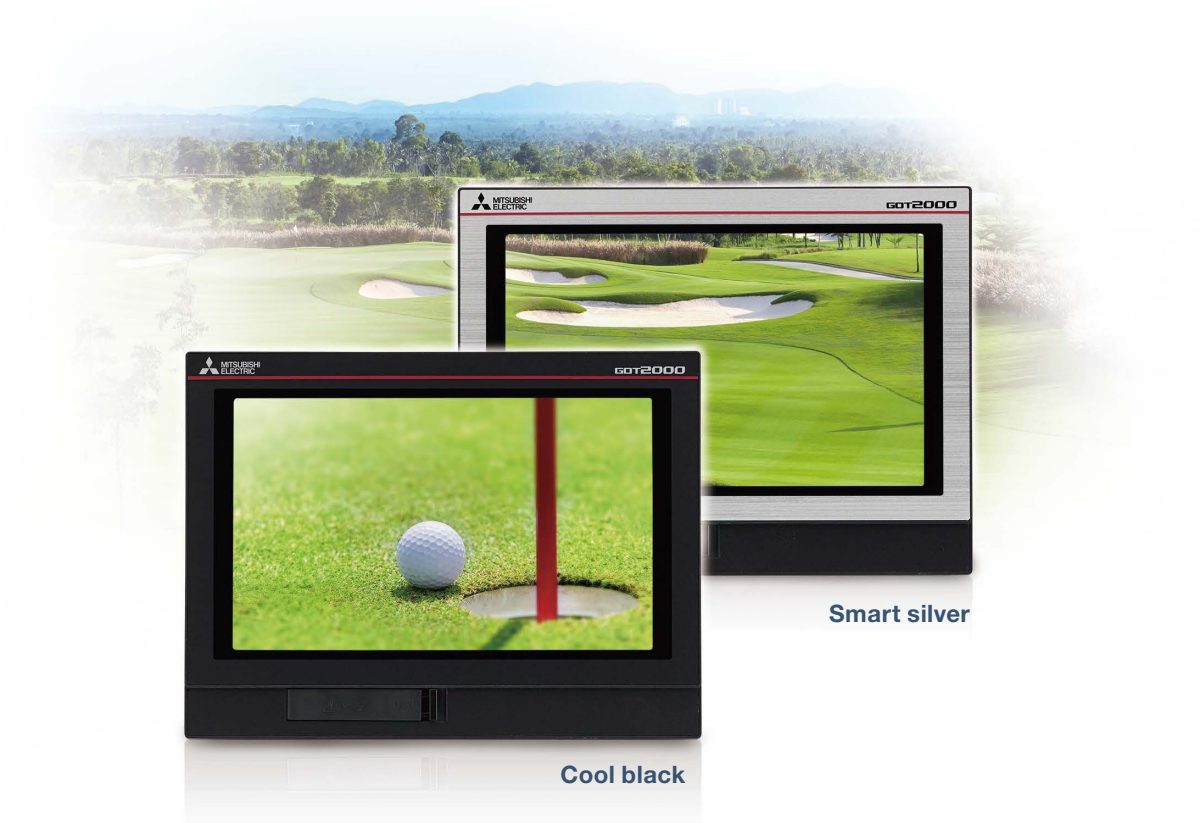
❹ Ethernet interface
Use Ethernet to simultaneously connect to up to two types of industrial devices from different manufacturers. CC-Link IE Field Network Basic compatible devices can also be connected.
* GT2103-PMBD only

NEW

GT21 wide model

Expands possibilities of GT21 models

For details Concept movie



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

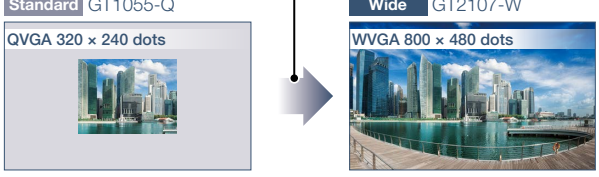
The GOT2000 wide models are available in a choice of silver and black. In addition to the high resolution display, 65536 colors of LCD improves quality of screen display.
The first GT21 model with the USB host enables you to connect a USB mouse and keyboard, or transfer data using a USB memory.

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



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.

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.

Standard 16dot HQ Gothic

Happy

Wide Outline Gothic (antialiasing enabled)

Happy

Clear characters improves visibility

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

❶ **USB interface: device (USB Mini-B)**
Connect to a personal computer and transfer data.

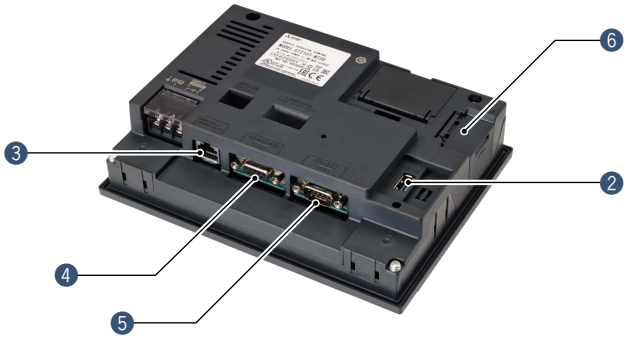
❷ **USB interface: host (USB-A)**
Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory. A USB mouse, keyboard, barcode reader*, or RFID reader* can also be connected.
* USB keyboard (HID) compatible model only

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

❹ **RS-422/485 interface**
Connect to various industrial devices and barcode readers.

❺ **RS-232 interface**
Connect to various industrial devices, barcode readers and serial printers.

❻ **SD memory card interface**
Save large volumes of data, including alarms and logging data.



GOT2000 compatible HMI software

GT SoftGOT2000 Version1

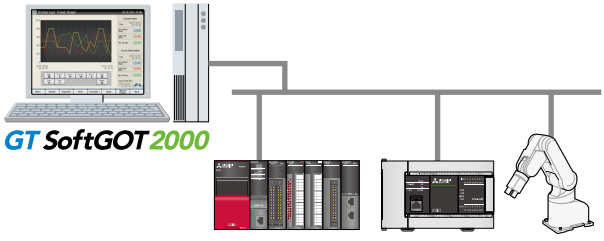
Turn your computer into GOT2000 and connect your office and worksites

License key
(for USB port)

Using GOT functions on a personal computer

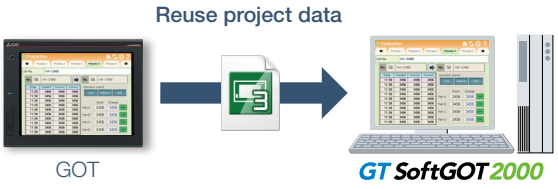
GT SoftGOT2000 is the software that has the same monitoring functions as the GOT2000 Series and is used on personal computers and panel controllers by connecting to various industrial devices.

* GT SoftGOT2000 is a software included in GT Works3. A separate license key must be mounted during use.



Reusing GOT2000 Series project data

The project data of GT SoftGOT2000 is created with GT Designer3 in the same way as GOT. By converting the GOT type to GT SoftGOT2000, the project data for GOT2000 can be used as is.

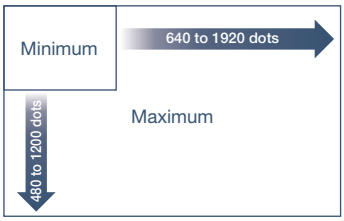


Changing resolution flexibly

The users can select resolutions from a list or can flexibly specify resolutions to change the screen size depending on applications.

Selectable resolution
X: 640, 800, 1024, 1280, 1600, 1920 dots
Y: 480, 600, 768, 1280, 1024, 1200 dots

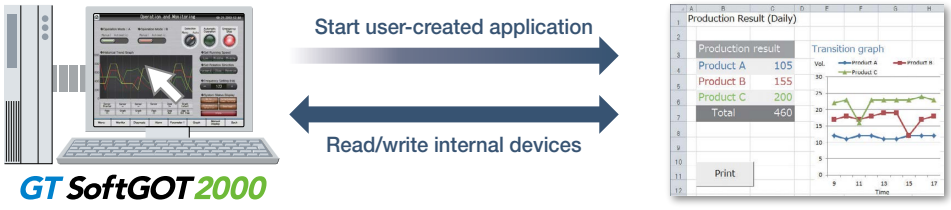
Specifying resolution (1 dot unit)
X: 640 to 1920 dots
Y: 480 to 1200 dots



Interaction with other applications

Read and write GT SoftGOT2000 internal devices using the user-created applications. In addition, by creating a touch switch on the GT SoftGOT2000 screen, it is possible to start other applications (such as Microsoft® Excel®) while monitoring with GT SoftGOT2000. Interaction with user-created applications makes it possible to build advanced systems.

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



Microsoft® Excel® VBA screen example

GT27 GT25 GT23 GT21

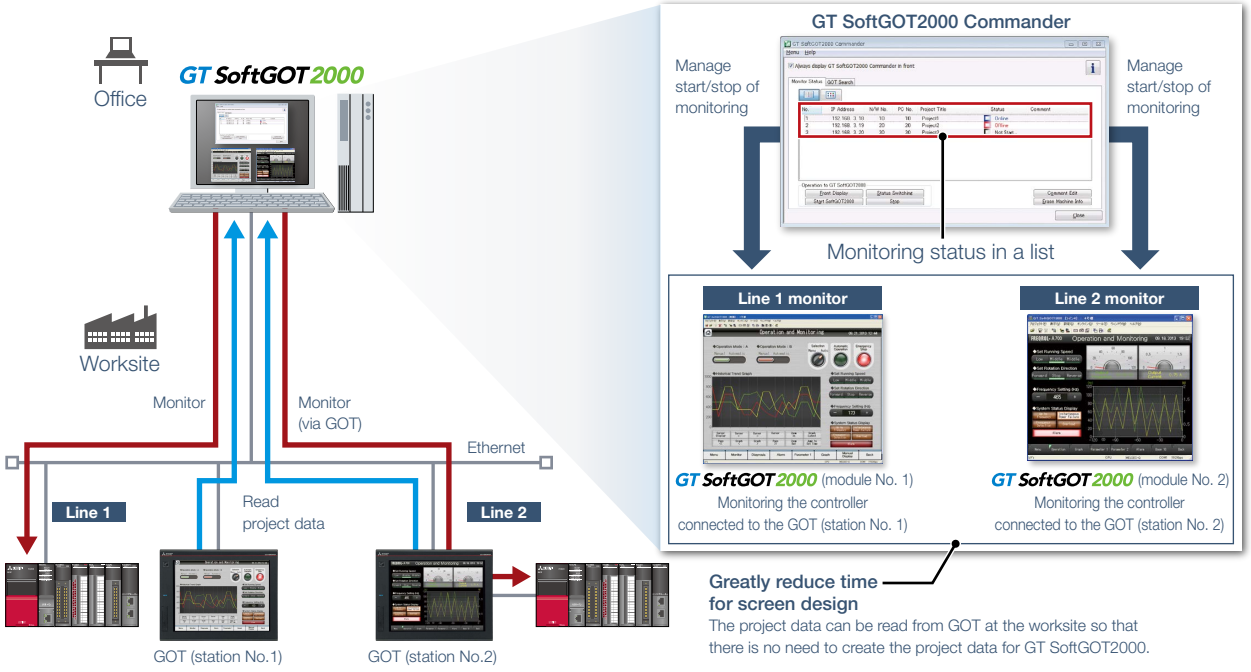
Monitor the production site from a remote location (SoftGOT-GOT link function)

GT SoftGOT2000 reads project data from on-site GOT via Ethernet, and uses the project data to monitor connected devices. GT SoftGOT2000 can also display different screens from those on GOT. Since GT SoftGOT2000 displays the GOT screen on the personal computer, the processing load on the GOT is reduced.

GT27 GT25 GT23 GT21

Managing GT SoftGOT2000 modules that use the SoftGOT-GOT link function (GT SoftGOT2000 Commander)

By using GT SoftGOT2000 Commander, multiple GT SoftGOT2000 modules using the SoftGOT-GOT link function can be managed. On GT SoftGOT2000 Commander, you can check the monitoring status of GT SoftGOT2000 modules, and start or stop monitoring on the modules.

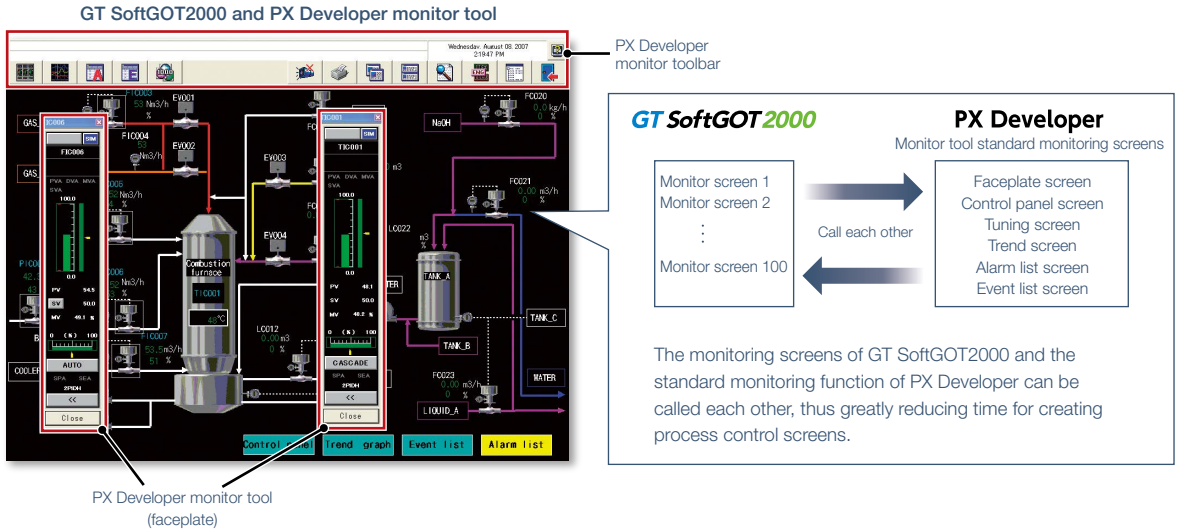


Greatly reduce time for screen design

The project data can be read from GOT at the worksite so that there is no need to create the project data for GT SoftGOT2000.

Engage with MELSEC process control to meet various applications

Simplify design and maintenance of a process control system by connecting PX Developer's monitor tool (standard monitoring screens) with GT SoftGOT2000. This process control monitoring system can be easily used in various process control applications.



GOT2000 Solutions INDEX

Maintenance, Troubleshooting and Diagnostics Features 47

Hardware Features 56

Security & Additional System Features 62

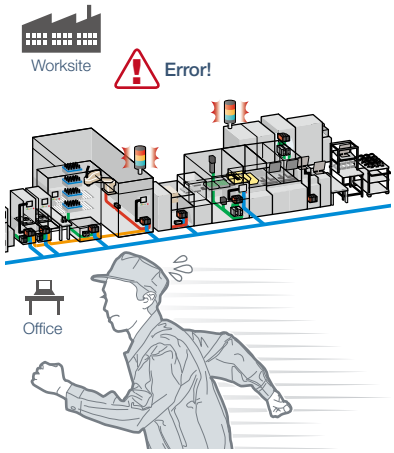
Data Handling Features 71

Interactive Features with Other Industrial Devices 74

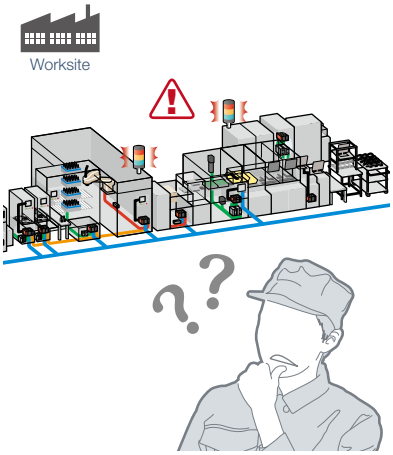
GOT Smart Web-based Remote Solutions

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 Upgraded P.26	iQ Monozukuri ANDON NEW P.28	VNC server function P.29	SoftGOT-GOT link function P.30	Remote personal computer operation function (Ethernet) P.31
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)		VNC viewer (freeware*3)	GT SoftGOT2000 (license key required separately)	–
Required options		License (register on GOT)		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	–
	Monitoring functions (sequence program monitor, etc.)	× 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.

■ Use GOT remote functions effectively in your worksites

■ Monitor and operate GOT from multiple remote locations

- ▶ GOT Mobile function Upgraded 26
- ▶ SoftGOT-GOT link function 30

■ Implement the ANDON system easily

- ▶ GOT Mobile function Upgraded 26
- ▶ iQ Monozukuri ANDON NEW 28

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

- ▶ GOT Mobile function Upgraded 26

■ Create remote monitoring screens without extra efforts

- ▶ VNC server function 29
- ▶ SoftGOT-GOT link function 30

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

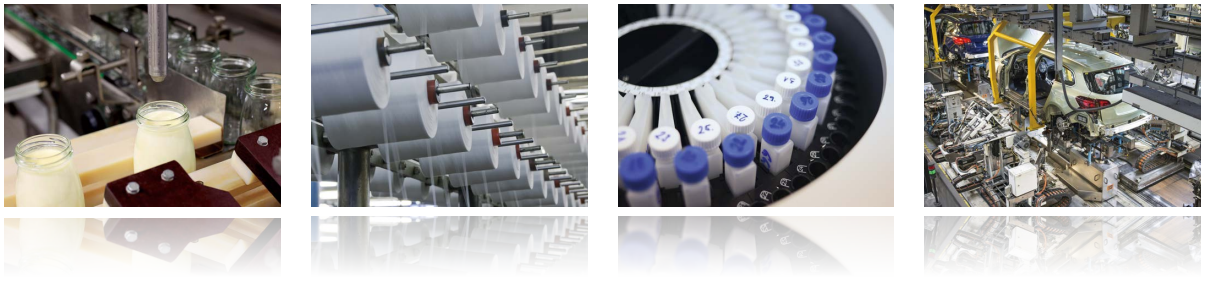
- ▶ VNC server function 29

■ Monitor GOT at high speed

- ▶ GOT Mobile function Upgraded 26
- ▶ SoftGOT-GOT link function 30

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

- ▶ Remote personal computer operation function (Ethernet) 31



GOT Mobile

Monitor your worksite from a remote location

Support system operation

Upgraded

■ GOT Mobile function

Having problems?

Can I check the equipment status from a remote location?

GOT will solve your problems!

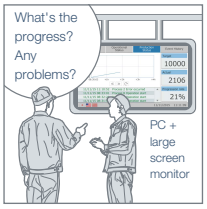
Check the status of the worksite using a web browser.


Outside of the clean room

From a remote location

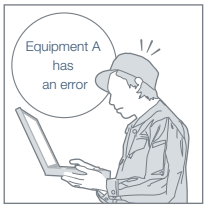
From your office

Other usage



On a large screen


Up to five operators



Monitor production with one PC

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.

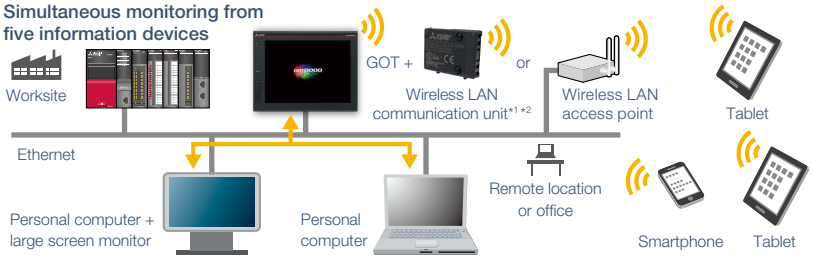
Safe with security and exclusive control

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. * For the details, please refer to page 30.

Easily change screen sizes

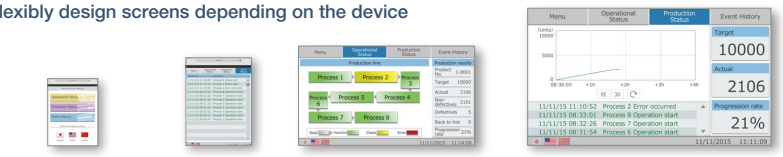
Use GT Works3 and easily create screens of different sizes depending on the device to use. * Maximum 2048 x 2048 dots

Simultaneous monitoring from five information devices



*1 The wireless LAN communication unit cannot be used with GT2505. An access point is required separately.
*2 For the countries where the unit can be used and other details, please refer to page 58.

Flexibly design screens depending on the device



Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 122).

● **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.

● **Safety precautions** If the GOT Mobile function 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 the GOT Mobile function to perform remote control, fully grasp the circumstances of the field site and ensure safety.

● **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

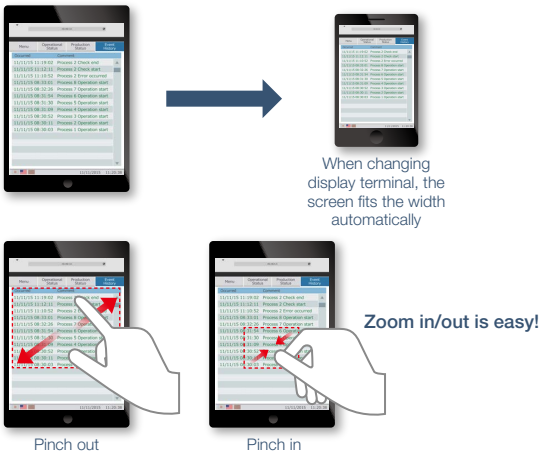
Supported devices

PLC | Servo | Inverter | Robot | CNC

Support system operation

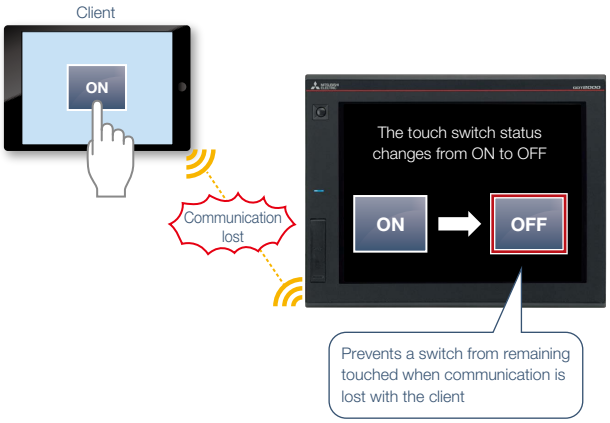
Easy operation of mobile screens NEW

When switching screens or changing the browser width on a mobile screen, the screen automatically fits the screen width. You can pinch out/in to zoom in/out the screen and display the area you want to check smoothly.



Contribution to safe operation NEW

While touching a switch on a mobile screen, if the client loses communication with GOT, it is possible to forcibly turn off the touch switch. (Time to Force Mobile Momentary Switch)

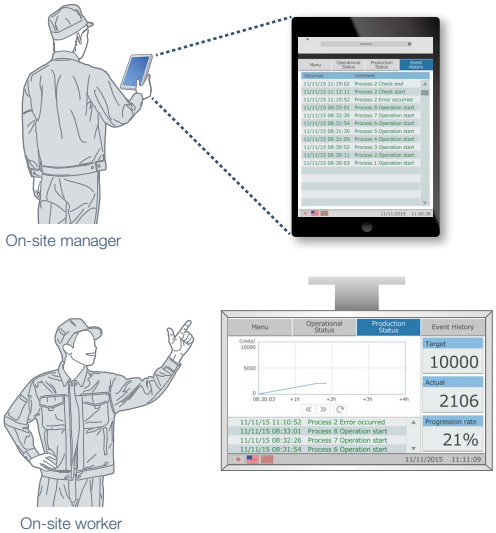


Easier than ever with the ANDON function NEW

The ANDON function enables a specific client to connect to the GOT without the operator name and password-based authentication. (The authentication screen does not appear.) Mobile screens are displayed just by powering on the display terminal so that this feature can be useful for ANDON display systems.

Setting different initial screens for each display terminal NEW

Setting the initial screen to each client individually makes it possible to display the alarm information on a smartphone and the production monitor screen on the ANDON monitor, thus enabling most appropriate screen to be displayed for each user.



For the details, please refer to the GOT Smart Web-based Remote Solutions catalog (L(NA)08399ENG) or the GOT Smart Web-based Remote Solutions catalog (separate wireless LAN access point version) (L(NA)08416ENG).

Implement the ANDON system easily

iQ Monozukuri

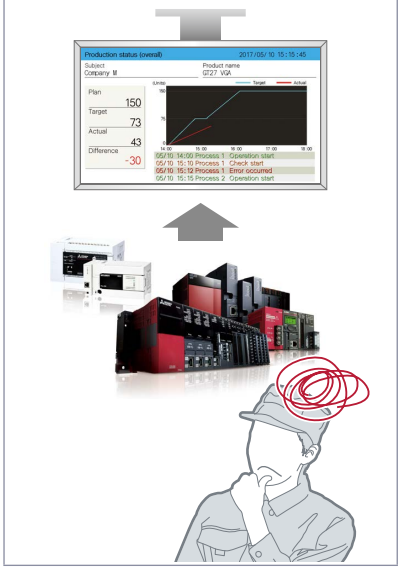
Support system design

Support system operation

NEW

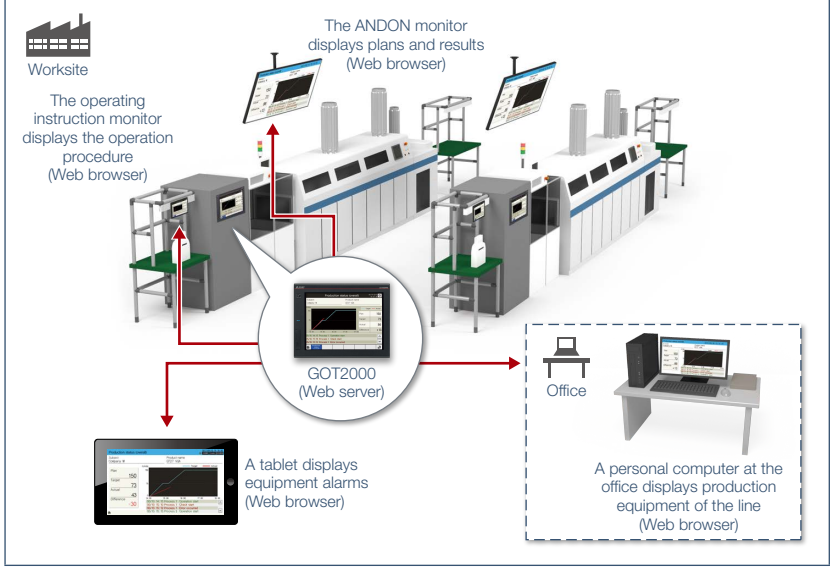
■ iQ Monozukuri ANDON

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 feature

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.

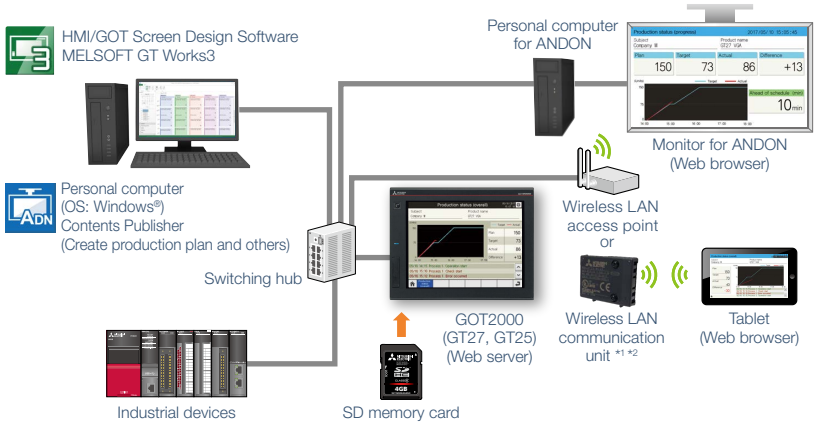
For more details, please refer to the iQ Monozukuri ANDON catalog (L(NA)08487ENG).

System configuration example

iQ Monozukuri ANDON package*

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

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



*1 The wireless LAN communication unit cannot be used with GT2505. An access point is required separately.
*2 For the countries where the unit can be used and other details, please refer to page 58.

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

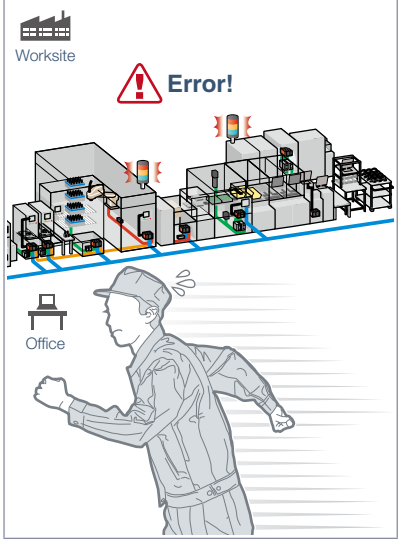
Supported devices

PLC | Servo | Inverter | Robot | CNC

Operate the GOT from a remote PC or tablet

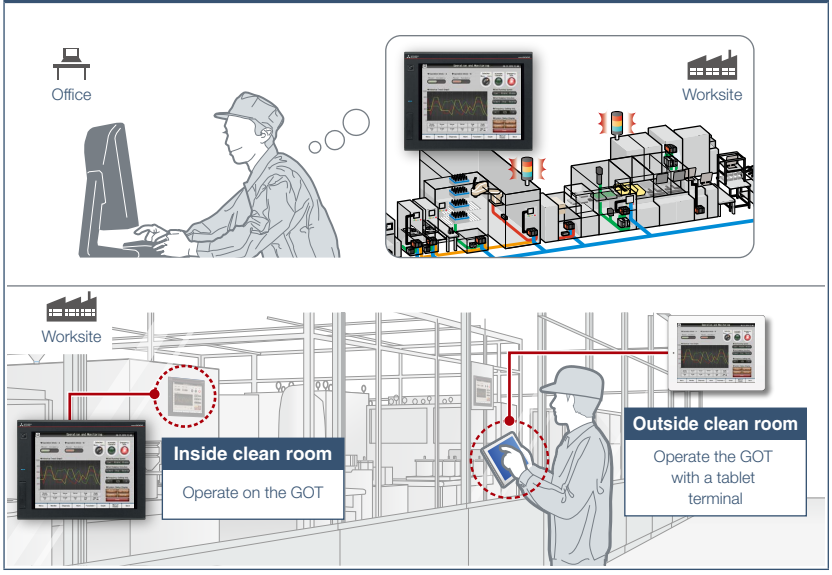
■ VNC server function

Having problems?



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

GOT will solve your problems!



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 feature

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

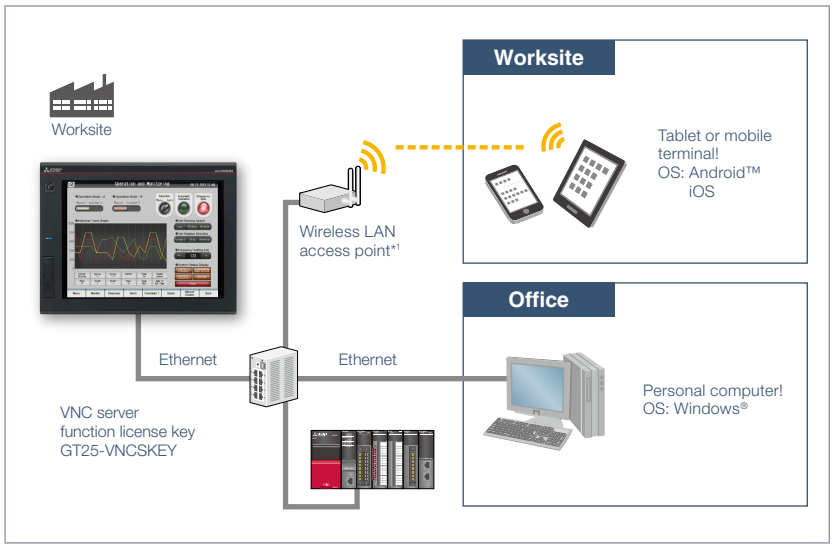
* A separate license (GT25-VNCSKEY) is required.
* Supported by GT2107-W only among GT21 models.

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 30.



*1 No access point is required separately when installing the wireless LAN communication unit on the GOT.
(Access point mode is supported by GT Works3 Ver.1.144A or later)
Note that the wireless LAN communication unit cannot be used with GT2505 and GT2107-W. For the countries where the unit can be used and other details, please refer to page 58.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 122).

● **Applicable VNC client software** Please refer to the Technical Bulletin No. GOT-A-0069.
● **Peripheral devices** For the VPN connection and the peripheral devices compatible with other Mitsubishi Electric industrial devices, please contact your local sales office.
● **Precautions for safe use** If the VNC Server function 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 the above functions to perform remote control, fully grasp the circumstances of the field site and ensure safety.

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21*

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

Supported devices

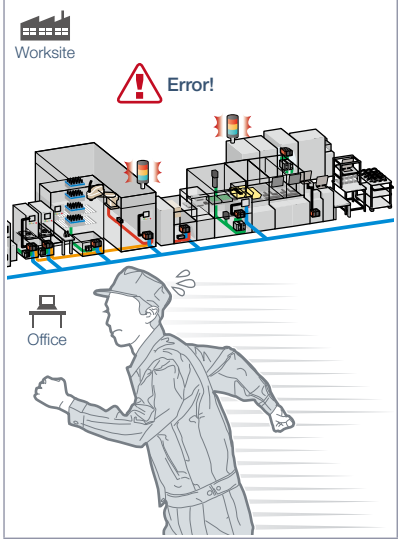
PLC | Servo | Inverter | Robot | CNC

Remote monitoring with SoftGOT

Support system operation

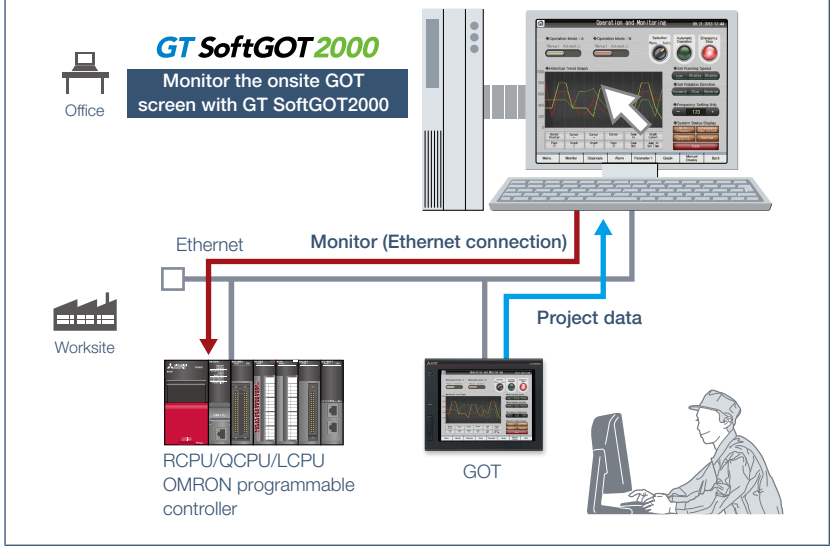
■ SoftGOT-GOT link function

Having problems?



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

GOT will solve your problems!



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

Function features

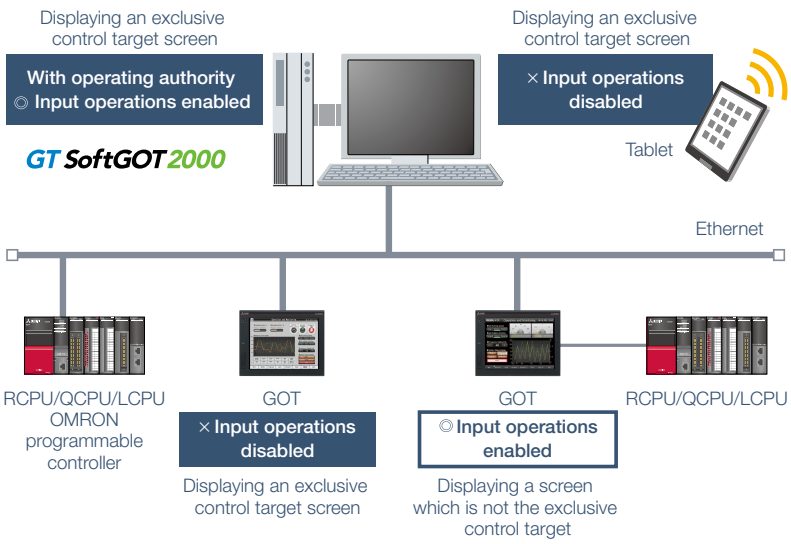
Read project data from the GOT connected to GT SoftGOT2000 via Ethernet, and you can monitor the devices that are connected to the GOT on different screens from the one shown on the GOT.

* 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.

GOT network interaction



Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 122).

● **Various peripherals** RCPU, QCPU, LCPU, OMRON programmable controller
● **Precautions for safe use** If the SoftGOT-GOT link function 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 the above functions to perform remote control, fully grasp the circumstances of the field site and ensure safety.
● **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

Supported devices

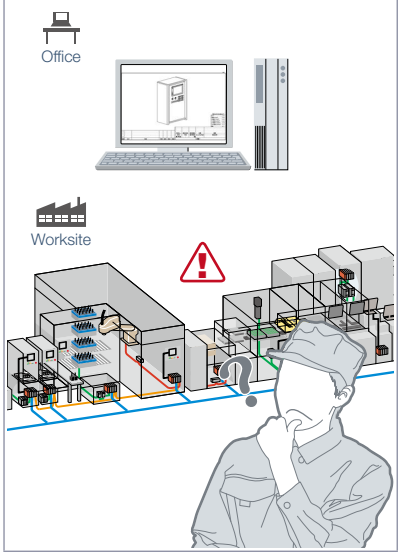
PLC | Servo | Inverter | Robot | CNC

Operate the PC from a remote GOT

Support system operation

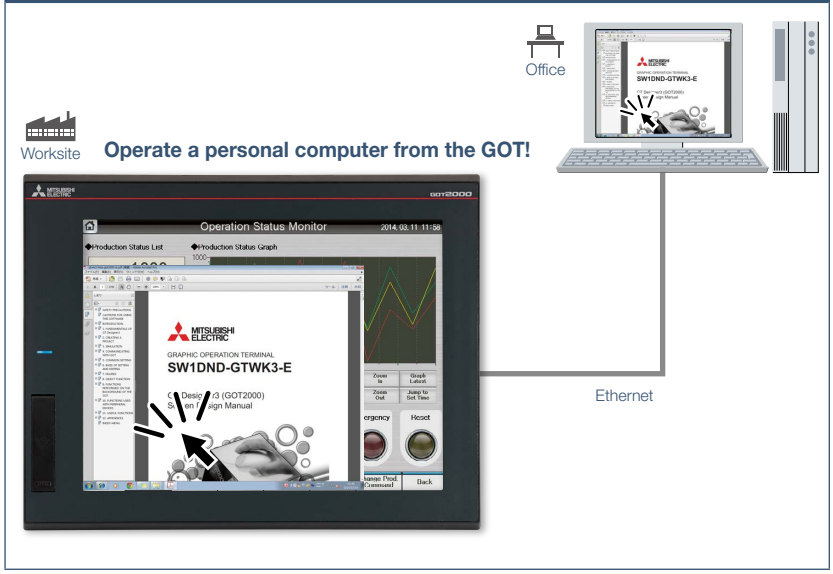
■ Remote personal computer operation function (Ethernet)

Having problems?



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

GOT will solve your problems!



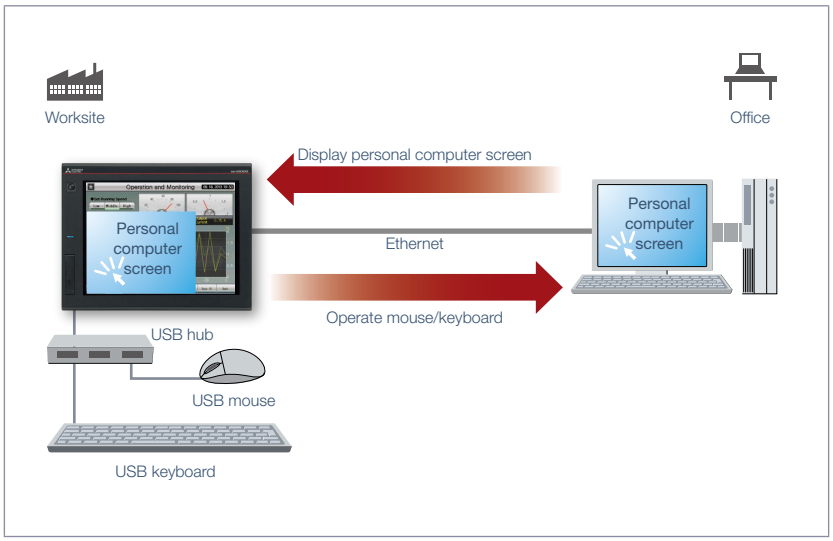
On GOT at the worksite, you can operate a personal computer in a remote location and view manuals and drawings in the computer.

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.



Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 122).

● **Precautions for safe use** If the remote personal computer operation function (Ethernet) 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 the above functions to perform remote control, fully grasp the circumstances of the field site and ensure safety.

Recommended industries

Electronics | F & B | Plant

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Robot | CNC

GOT Easy Drive Control Interactive Solutions

Designed to suit your application and improve maintenance

GOT Drive

GOT2000 Series Drive Control Interactive Solutions Movie

■ Drive control interactive functions, supported models, and GT Works3 versions

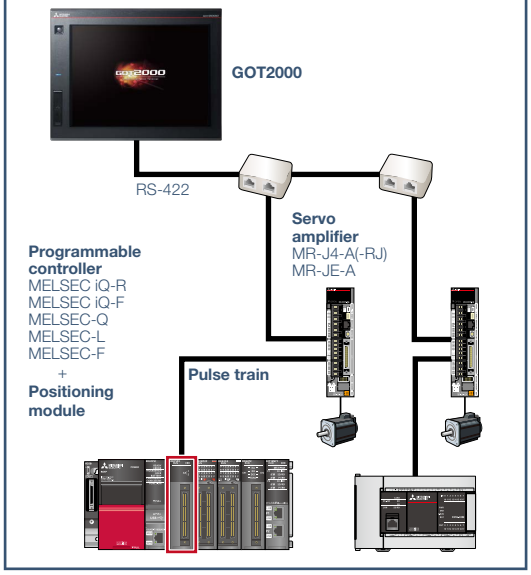
Sample : Sample screens available Dedicated : Dedicated screen available ○: Supported ▲ : Coming soon — : Not applicable ×: Not supported

Function name		Supported model					System configuration									
							CASE 1				CASE 2/CASE 3		CASE 2		CASE 4 NEW	
		GOT				NEW GT SoftGOT 2000*5	MR-J4-A(-RJ)		MR-JE-A		MR-J4-B(-RJ) MR-J4W2-B MR-J4W3-B		MR-JE-B		MR-J4-GF(-RJ)	
		GT27	GT25	GT23	GT21		Function availability	Sample screen*1/ Dedicated screen*2	Function availability	Sample screen*1/ Dedicated screen*2	Function availability	Sample screen*1/ Dedicated screen*2	Function availability	Sample screen*1/ Dedicated screen*2	Function availability	Sample screen*1/ Dedicated screen*2
Drive recorder function	P.34	○	○	×	×	×	×	×	×	×	○	Dedicated Ver.1.155M or later	○	Dedicated Ver.1.160S or later	▲	▲
Machine diagnosis function Upgraded	P.35	○	○	○	○	○	○	Sample Ver.1.126G or later	○	×	○	Sample Ver.1.155M or later	○	Sample Ver.1.150G or later	○	▲
Servo amplifier life diagnosis function Upgraded	P.36	○	○	○	○	○	○	Sample Ver.1.126G or later	○	×	○	Sample Ver.1.155M or later	○	Sample Ver.1.150G or later	○	▲
One-touch tuning function Upgraded	P.37	○	○	○	○	○	○	Sample Ver.1.126G or later	○	×	○	Sample Ver.1.155M or later	○	Sample Ver.1.150G or later	○	▲
Tuning function Upgraded	P.37	○	○	○	○	○	○	Sample Ver.1.126G or later	○	×	○	Sample Ver.1.155M or later	○	Sample Ver.1.150G or later	○	▲
System launcher (servo network) function NEW	P.38	○	○	×	×	×	—	—	—	—	○	Dedicated Ver.1.175H or later	○	Dedicated Ver.1.175H or later	—	—
Power monitor	P.39	○	○	○	○	○	○	Sample Ver.1.126G or later	○	×	○	Sample Ver.1.155M or later	○	Sample Ver.1.150G or later	○	▲
Alarm display function	P.39	○	○	○	○	○	○	Sample Ver.1.126G or later	○	×	○	Sample Ver.1.155M or later	○	Sample Ver.1.150G or later	○	▲
Servo amplifier monitor function	P.40	○	○	×	×	×	○	Dedicated A: Ver.1.100E or later A-RJ: Ver.1.134Q or later	×	×	×	×	×	×	×	×
Intelligent module monitor function*4	P.41	○	○	×	×	×	○*3	Dedicated Ver.1.100E or later	×	×	○	Dedicated Ver.1.100E or later	×	×	○	Dedicated Ver.1.160S or later
R motion monitor function*4	P.41	○	○	×	×	×	—	—	—	—	○	Dedicated B: Ver.1.117X or later B-RJ: Ver.1.134Q or later	—	—	—	—
Q motion monitor function*4	P.41	○	○	×	×	×	—	—	—	—	○	Dedicated B: Ver.1.100E or later B-RJ: Ver.1.134Q or later	—	—	—	—
Motion SFC monitor function*4	P.42	○	○	×	×	×	—	—	—	—	○	Dedicated Ver.1.100E or later	—	—	—	—

*1 The sample screen is the screen data that is included with GT Works3. The version indicates the version of GT Works3 that was used to create the sample screen. (As of October 2017)
*2 Indicates the version of GT Works3 that supports the dedicated screen. The dedicated screen is the screen that is provided as the extended function of GOT.
*3 The function can be used by connecting GOT and programmable controller.
*4 The supported version of GT Works3 differs depending on the type of connected device (CPU, intelligent function module).
*5 Supported by GT Works3 Version.1.160S or later. CASE 2 and CASE 3 system configurations are supported. Not usable in other system configurations.

■ System configuration of GOT and servo system integration

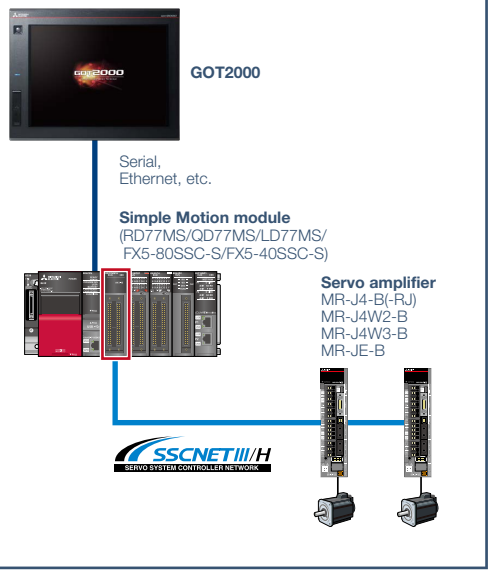
System configuration CASE 1



■ System configuration features

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

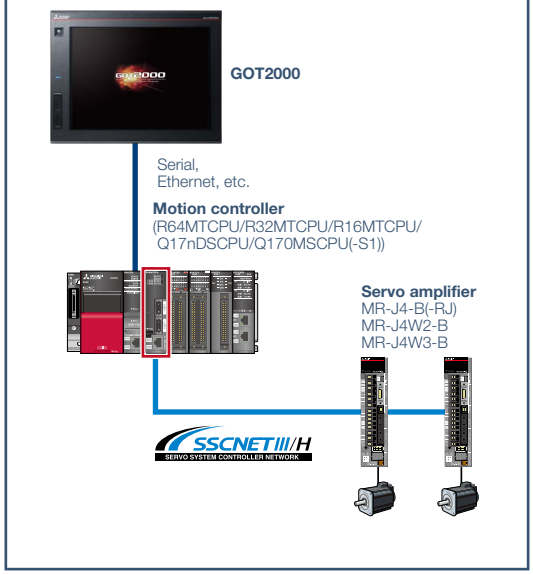
System configuration CASE 2



■ 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

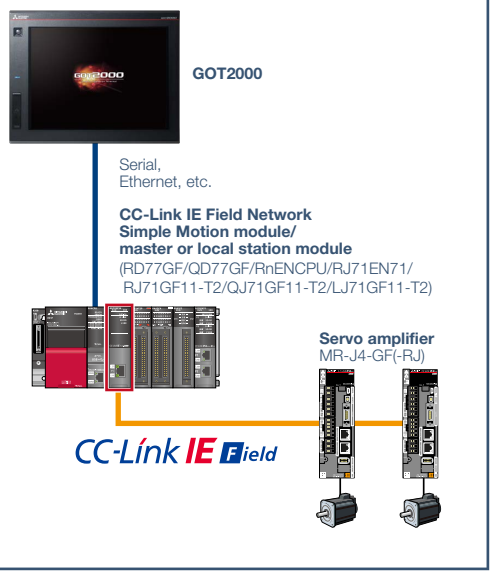
System configuration CASE 3



■ 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

System configuration NEW CASE 4



■ 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 axes

Check the servo amplifier data on GOT when an alarm occurs

GOT Drive

Support maintenance work

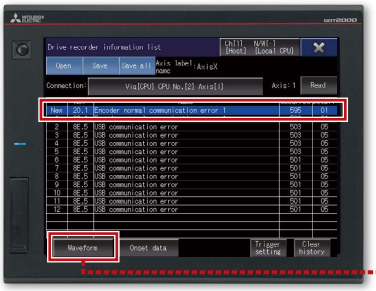
■ Drive recorder function

Having problems?

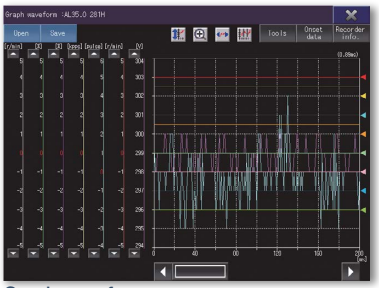
In case of a system failure, is there a simple and quick way to check the problem cause?

GOT will solve your problems!

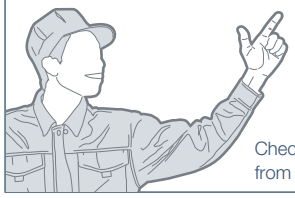
GOT2000



Drive recorder information list screen



Graph waveform screen

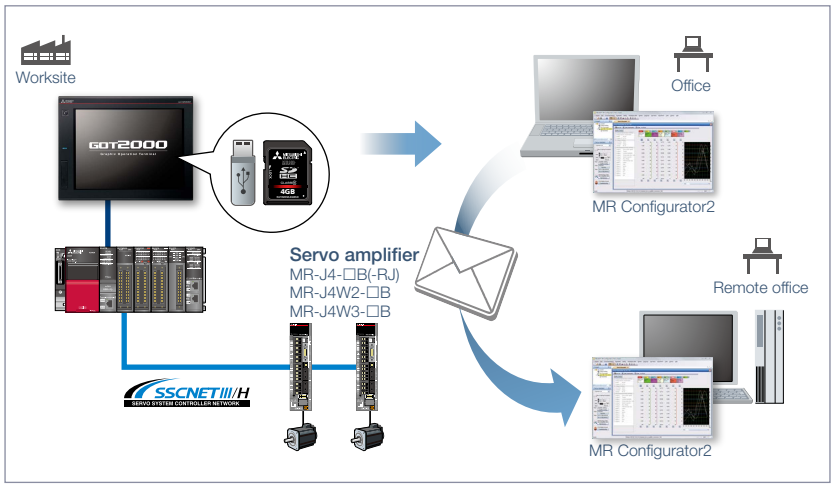


Check graph waveform from the alarm list!

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 122).

● **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 controller/Simple Motion module
*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 126).
● **How to obtain sample screens** The switch to start the drive recorder function has been added to the sample screen. Sample screens are included with 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

Supported devices

PLC | Servo | Inverter | Robot | CNC

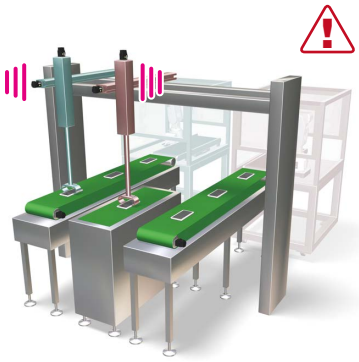
Support servo system maintenance

Support maintenance work

Upgraded

■ Machine diagnosis function

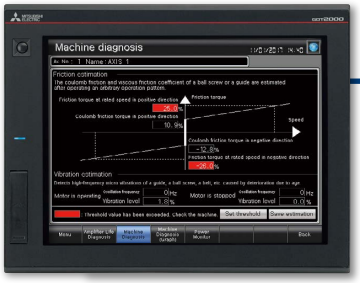
Having problems?



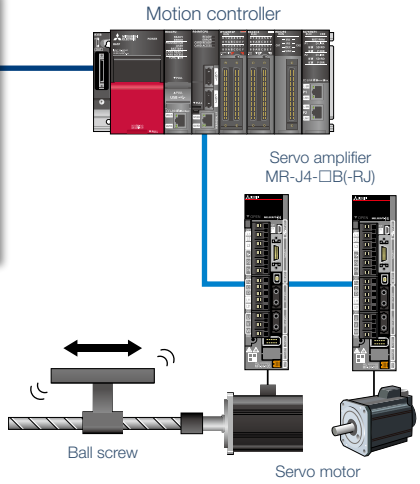
How can I predict deterioration of a machine if it has excessive load and is frequently accelerated?

GOT will solve your problems!

GOT2000



GOT displays the estimation value collected by the machine diagnosis function of the servo amplifier.



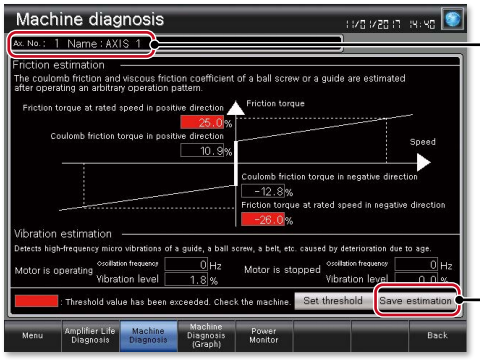
Without using a personal computer, you can predict the deterioration of the machine for easy preventive maintenance.

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 NEW

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.



NEW
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*

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.

* 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 126).
● **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 Series Drive Control Interactive Solutions catalog (L(NA)08335ENG).
● **How to obtain sample screens** Sample screens are included with 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

Supported devices

PLC | Servo | Inverter | Robot | CNC

GOT Drive

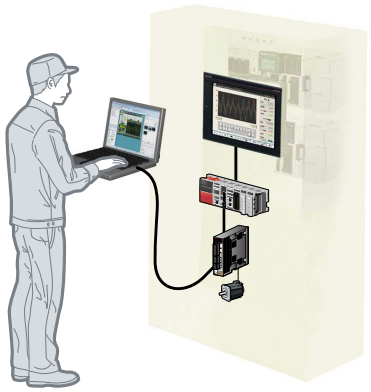
Support servo system maintenance

Support maintenance work

Upgraded

■ Servo amplifier life diagnosis function

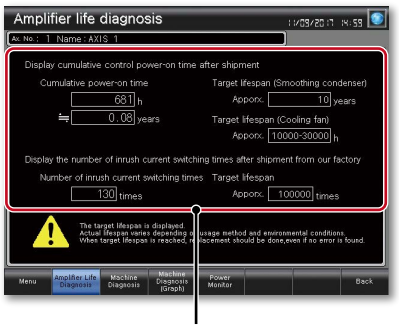
Having problems?



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

GOT will solve your problems!

Periodic check

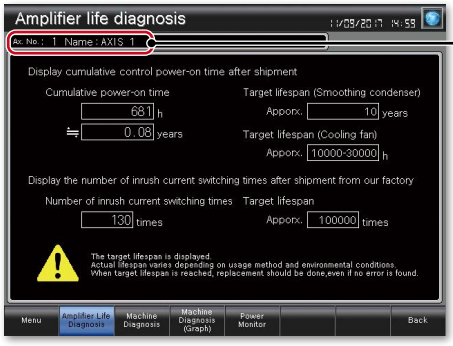


Check the smoothing capacitor energization time or the inrush relay on/off times at a glance

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.



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

Amplifier life diagnosis screen*

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.

* 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 126).
● **How to obtain sample screens** Sample screens are included with 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

Supported devices

PLC | Servo | Inverter | Robot | CNC

Support startup, adjustment of servo systems

GOT Drive

Support system startup/ adjustment

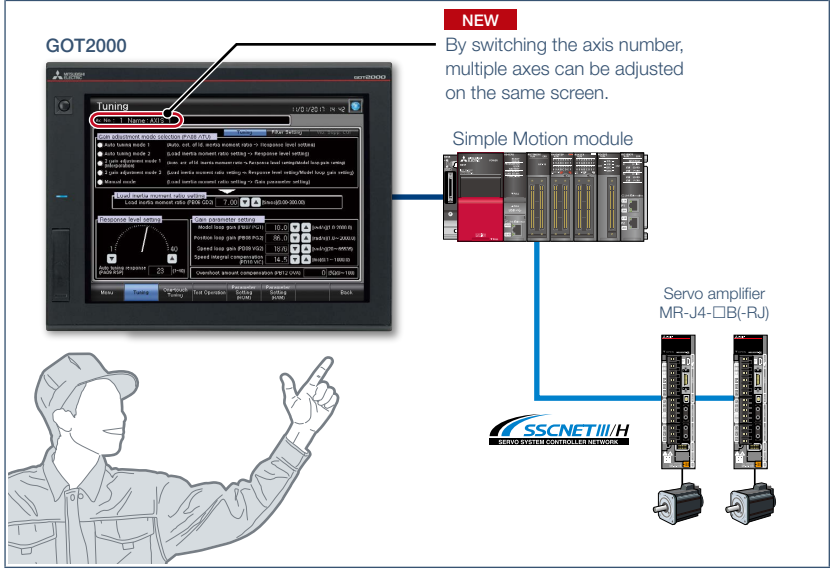
Upgraded

■ One-touch tuning function/Tuning function

Having problems?

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.

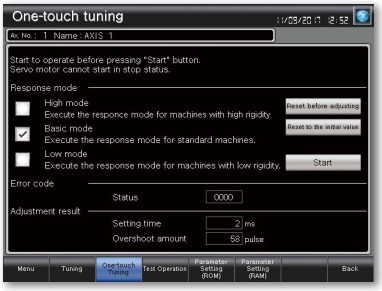
GOT will solve your problems!



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

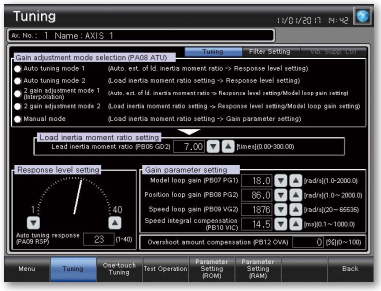
GOT displays the tuning screens that are equivalent to the adjustment functions of MR Configurator2.
You can easily adjust gain parameters of servo amplifiers on the GOT without a personal computer.



One-touch tuning screen*

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

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



Tuning screen*

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

* 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 126).
● **How to obtain sample screens** Sample screens are included with 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

Supported devices

PLC | Servo | Inverter | Robot | CNC

Graphically monitor servo systems

GOT Drive

Support maintenance work

NEW

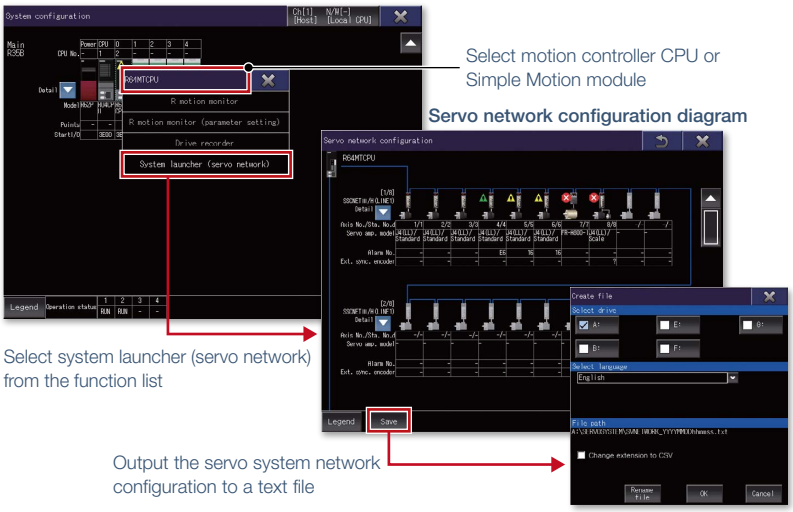
■ System launcher (servo network) function

Having problems?

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

GOT will solve your problems!

System configuration diagram

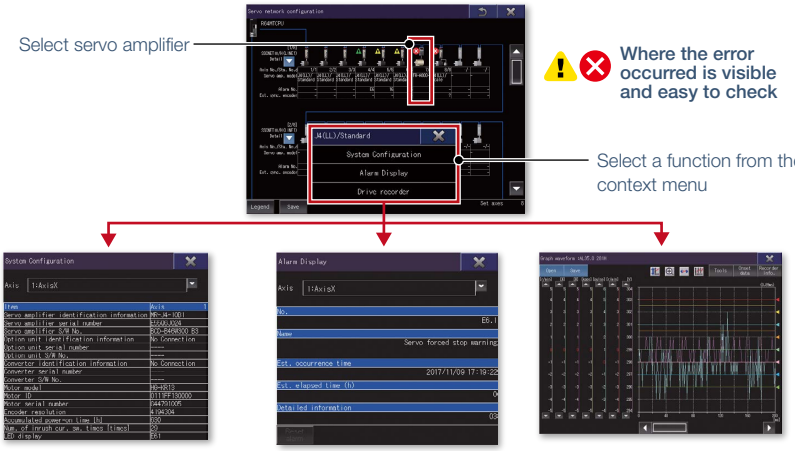


A graphical configuration diagram indicates the status of servo amplifier.

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)



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(-RJ), MR-J4W2-☐B, MR-J4W3-☐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 126).

- **Extended functions that can be started from the system launcher (servo network)** System launcher, drive recorder

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Robot | CNC

Support startup, maintenance, and cost reduction

GOT Drive

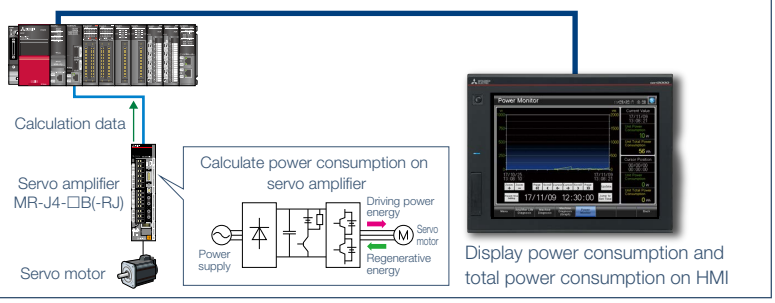
Support maintenance work

■ Power monitor

Having problems?

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

GOT will solve your problems!



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 126).
● **How to obtain sample screens** Sample screens are included with 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

Supported devices

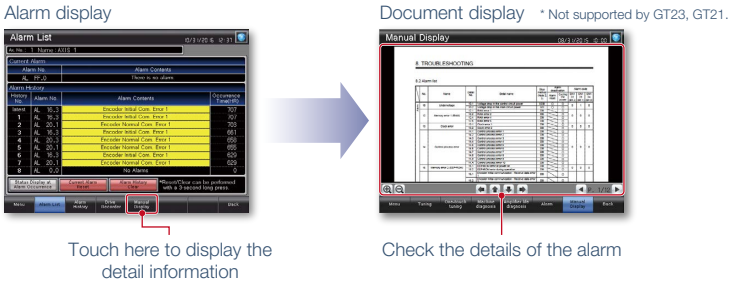
PLC | Servo | Inverter | Robot | CNC

■ Alarm display function

Having problems?

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

GOT will solve your problems!



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.

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 126).
● **How to obtain sample screens** Sample screens are included with 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

Supported devices

PLC | Servo | Inverter | Robot | CNC

Support startup, adjustment of servo systems

GOT Drive

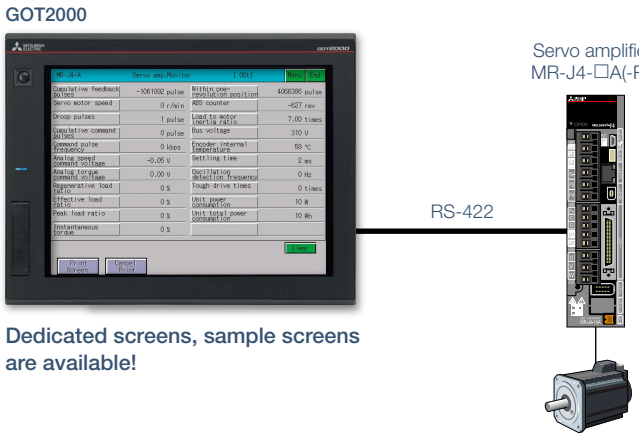
Support system startup/ adjustment

■ Servo amplifier monitor function

Having problems?

How can I check the status of servo amplifier easily?

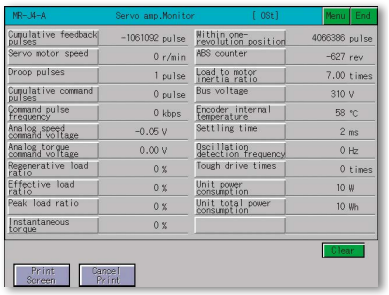
GOT will solve your problems!



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.

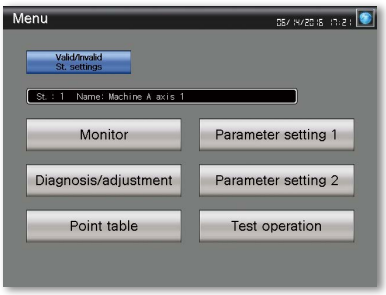
Function features

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



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 with 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

Supported devices

PLC | Servo | Inverter | Robot | CNC

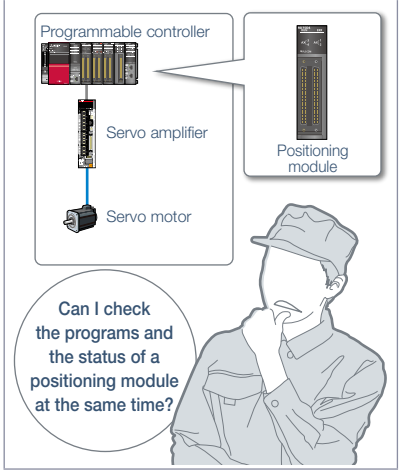
Support startup, maintenance of servo systems

GOT Drive

Support maintenance work

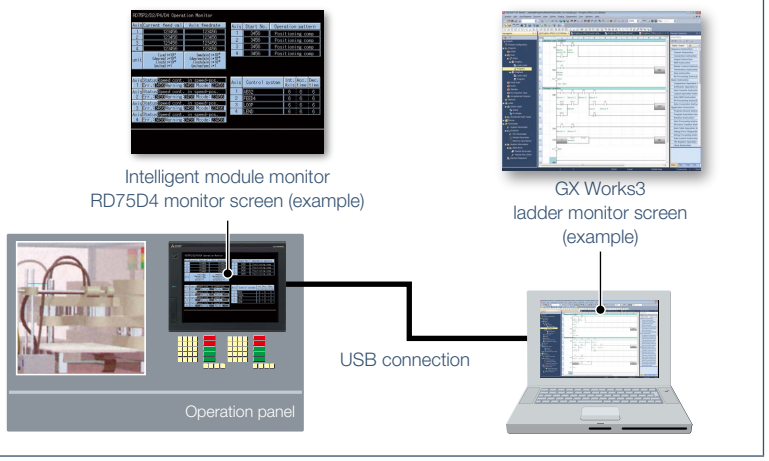
■ Intelligent module monitor function

Having problems?



How can I debug positioning systems efficiently?

GOT will solve your problems!



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

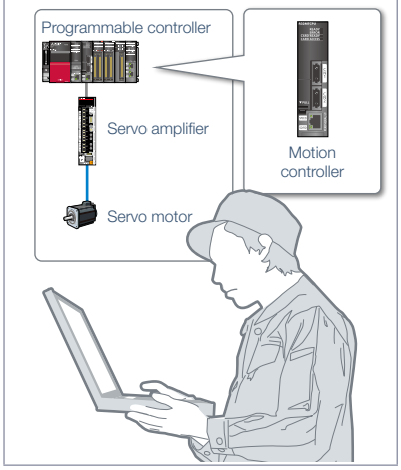
GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Robot | CNC

■ R motion monitor function/Q motion monitor function

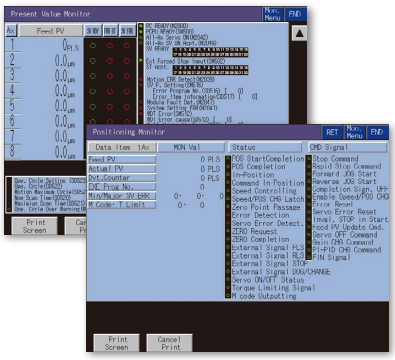
Having problems?



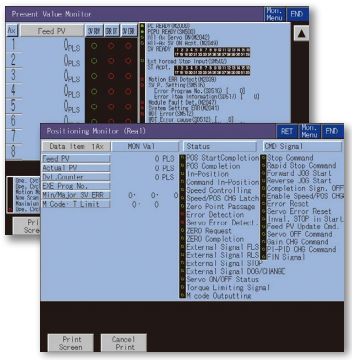
Can I check and change servo parameters of a motion controller easily?

GOT will solve your problems!

R motion monitor screen



Q motion monitor screen



In a dedicated screen on GOT, it is possible to monitor and set parameters of motion controllers that are mounted 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

Supported devices

PLC | Servo | Inverter | Robot | CNC

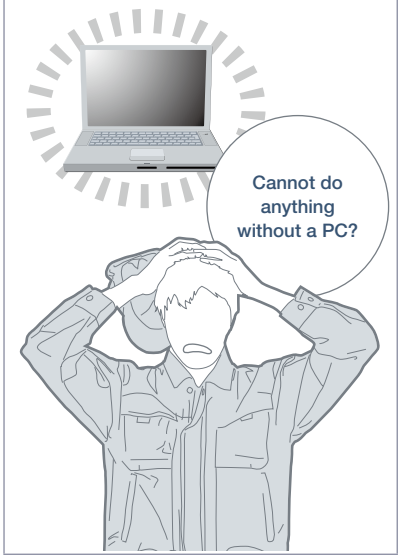
GOT Drive

Support debug of SFC programs

Support maintenance work

■ Motion SFC monitor function

Having problems?



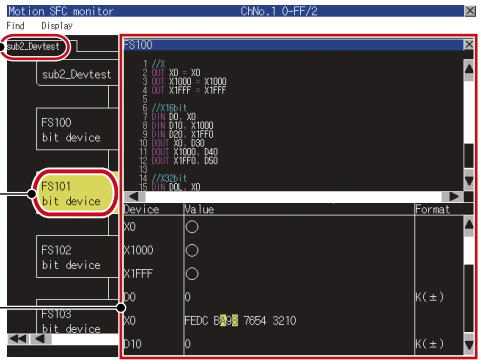
How can I check motion SFC programs without a personal computer?

GOT will solve your problems!

Program tabs
Touch a tab to display the program.

Step/transition
The active step is highlighted. Touch the step to display the detail program window. The SFC diagram scrolls automatically along with the progress of active steps.

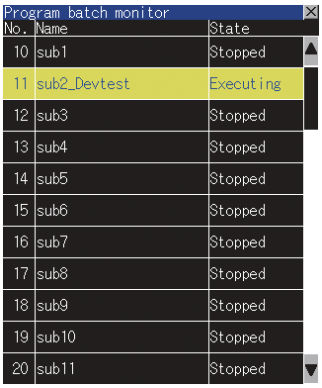
Detail program window
Displays the program and the present value of the calculation control step/transition.



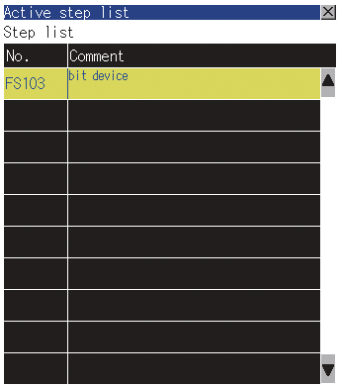
GOT can monitor motion SFC programs in the motion controller CPU (Q series) and display them in the SFC diagram format.

Function features

GOT can be used to monitor motion SFC programs and device values of a motion controller CPU (Q Series) which is connected to the GOT. Viewing the program batch monitor or active step list enables you to check the complete status at a glance.



Program batch monitor



Active step list

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 122).

● **Target models** Motion controller CPU (Q Series) *1*2

*1 Use the following production number motion controller CPU when using the Q172CPU or Q173CPU.

- Bus connection, direct CPU connection
  Q172CPU: production number K******* or later Q173CPU: production number J******* or later
- Other than bus connection, direct CPU connection
  Q172CPU: production number N******* or later Q173CPU: production number M******* or later

*2 Operating system software packages for motion controller CPU (Q Series) should be SV13 or SV22.
Use a motion control CPU with the following OS installed when using the Q172CPU, Q173CPU, Q172CPUN, or Q173CPUN.

- SW6RN-SV13Q☐: 00H or later (00E or later for using the Q172CPU or Q173CPU with the bus connection or direct CPU connection)
- SW6RN-SV22Q☐: 00H or later (00E or later for using the Q172CPU or Q173CPU in the bus connection or direct CPU connection)

● **Supported connection types*1** Ethernet connection*2, direct CPU connection, serial communication connection, CC-Link IE Controller 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 126).
*2 When the CC-Link IE Field Network Ethernet adapter module is used, the motion SFC monitor function cannot be used.

Recommended industries

Automotive | Plant

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Robot | CNC

Support debug of SFC programs

Support maintenance work

■ Sequence program monitor (SFC) function

Having problems?

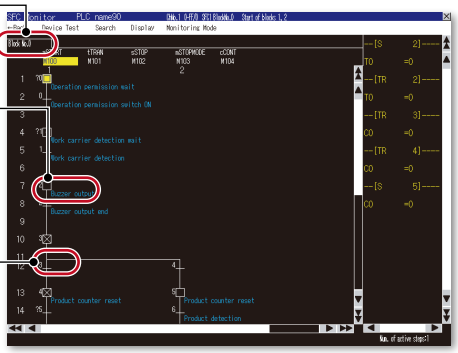
How can I debug SFC programs without a personal computer?

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.

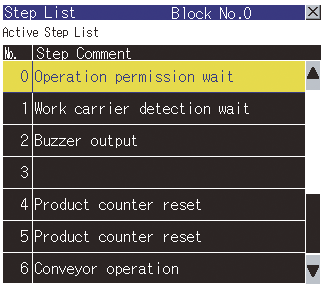
Transition condition
Touching a transition condition displays a window for turning on or off a bit device.



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

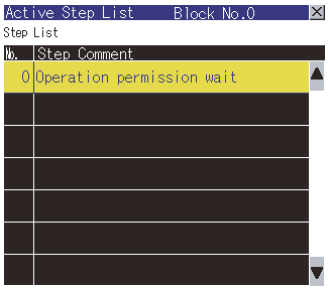
Function features

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

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 122).

● **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 126).

*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

Supported devices

PLC | Servo | Inverter | Robot | CNC

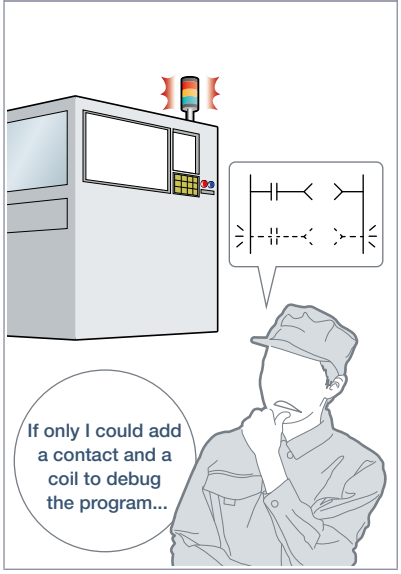
Support RCPU, QCPU, LCPU maintenance

Support maintenance work

NEW

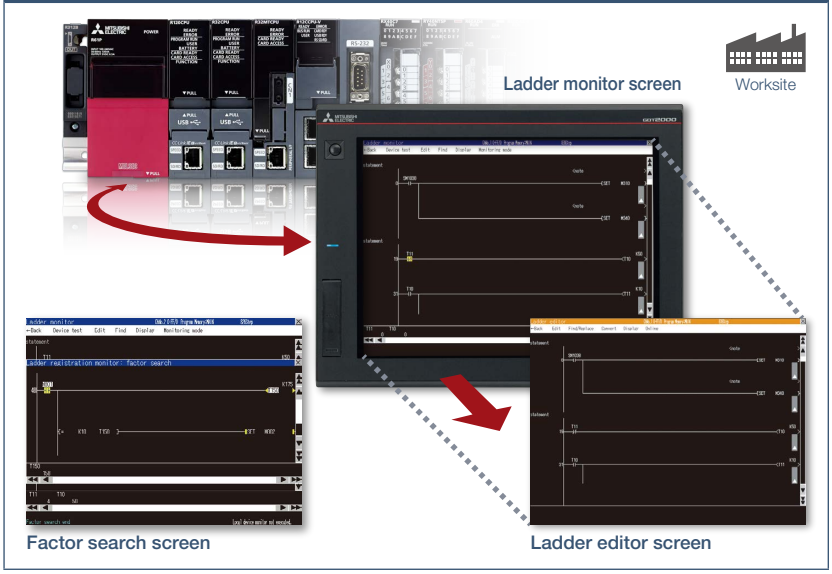
■ Sequence program monitor (Ladder)/Sequence program monitor (iQ-R ladder) function

Having problems?



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

GOT will solve your problems!



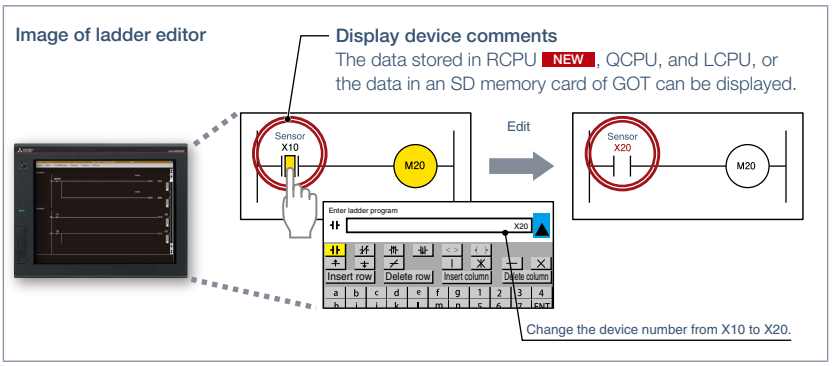
When an error occurs, monitor the ladder program and identify the cause of error. There is no need for a personal computer on the production floor. Just touch the GOT screen and easily edit the ladder program to make simple changes.

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 NEW, QCPU, and LCPU can be monitored in the ladder format.



Ladder editor

Sequence programs of RCPU NEW, 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 122).

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

*1 R08PCPU, R16PCPU, R32PCPU, and R120PCPU can be monitored only when the operation mode is the process mode. R08SFCPU, R16SFCPU, R32SFCPU, and R120SFCPU 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 Q170MCPU(-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 126).

*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

Supported devices

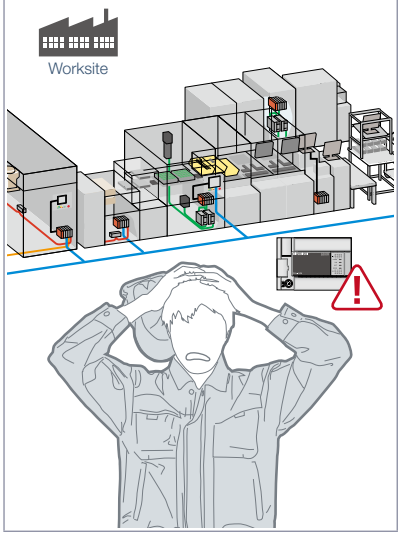
PLC | Servo | Inverter | Robot | CNC

Support FXCPU maintenance

Support maintenance work

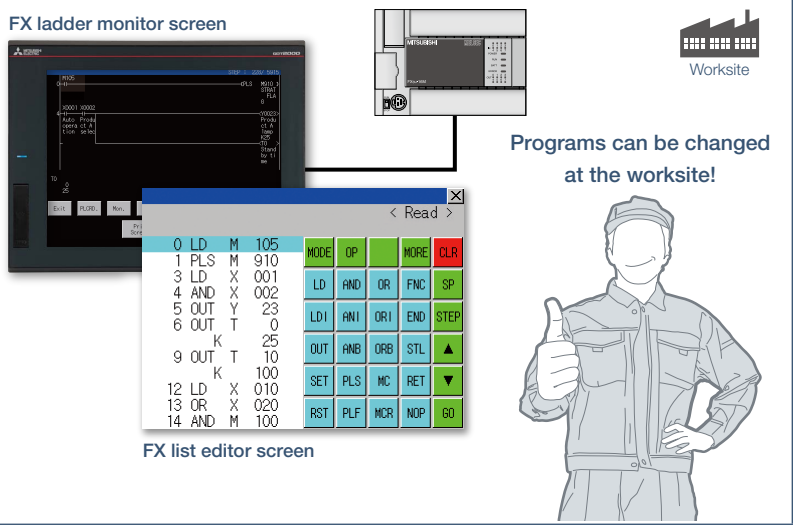
■ FX list editor function & FX ladder monitor function

Having problems?



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

GOT will solve your problems!



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.

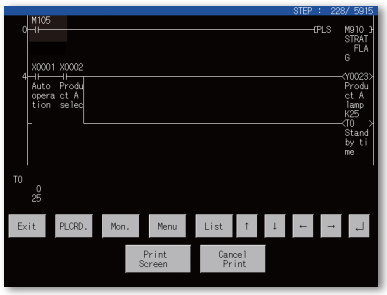
FX list editor

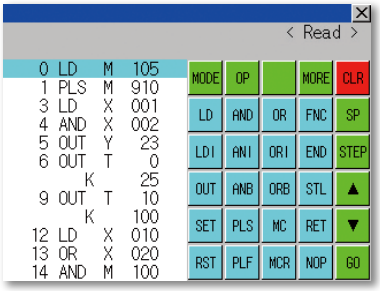
Just by simple key operations you can check, partially correct, change, or add parameters or sequence programs of an FXCPU.

* Supported by GT2104-R only 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.

Specification details and restrictions

<FX list editor>

● **Target models** FXCPU (excluding FX5U, FX5UC)

● **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 126).

*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.

<FX ladder monitor>

● **Target models** FXCPU (FX3U, FX3UC only)

● **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 126).

● **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.

Recommended industries

Electronics | F & B

Supported GOT types

GT27 | GT25* | GT23* | GT21*

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

Supported devices

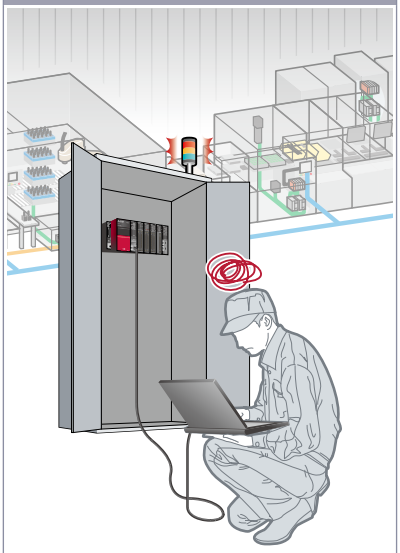
PLC | Servo | Inverter | Robot | CNC

Visually check logging data

Support system operation

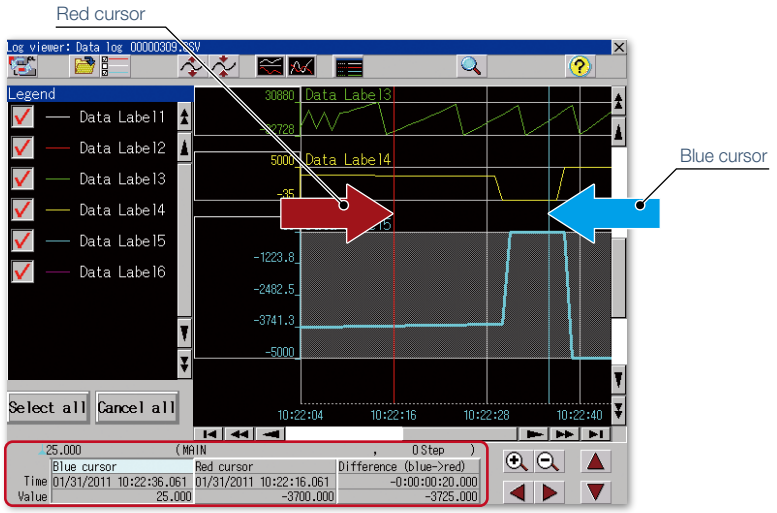
■ Log viewer function

Having problems?



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

GOT will solve your problems!



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

Function features

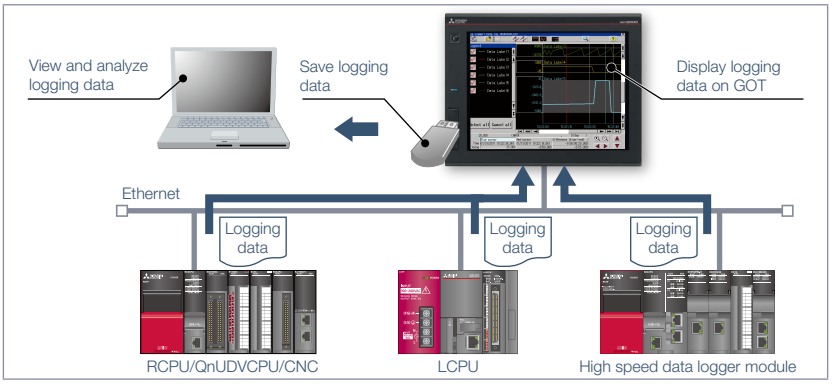
GOT displays the logging data collected by the data logging function of programmable controller CPUs or other modules.

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 50) 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 122).

● **Target models** RCPU*1, QCPU*2, LCPU*3, high speed data logger module (MELSEC iQ-R Series/Q Series), BOX data logger, CNC (C80, C70)
*1 Excluding the R08SFCPU, R16SFCPU, R32SFCPU, R120SFCPU, R08PCPU, R16PCPU, R32PCPU, R120PCPU.
*2 Supported by 03UDVCPU, Q04UDVCPU, Q06UDVCPU, Q13UDVCPU, Q26UDVCPU only.
*3 Excluding L02SCPU, L02SCPU-P.
● **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 126).
*2 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

Supported devices

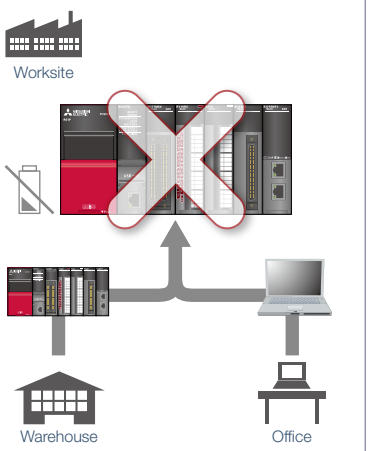
PLC | Servo | Inverter | Robot | CNC

In case of PLC error

Support maintenance work

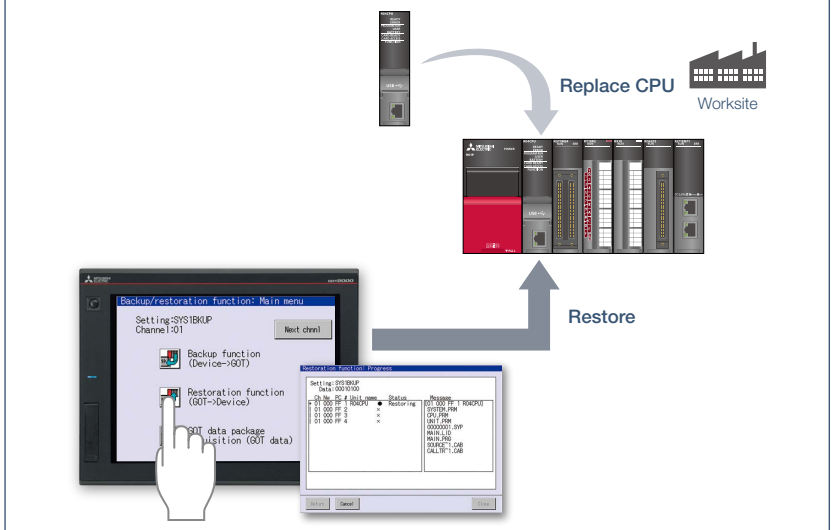
■ Backup/Restoration function

Having problems?



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.

GOT will solve your problems!

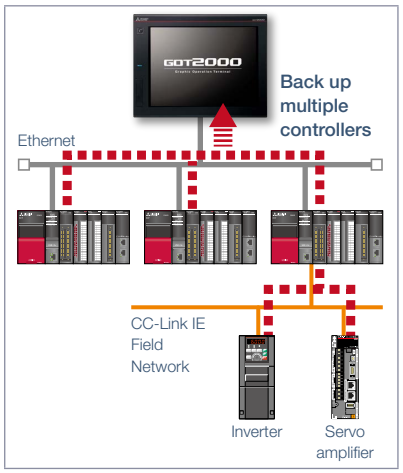


There is no need for a personal computer on the production floor. Simply use the GOT to write sequence programs to the controller and you can quickly recover the problem.

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.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 122).

● **Target models** RCPU (R04CPU, R08CPU, R16CPU, R32CPU, R120CPU only)*1, QCPU (Q mode) (excluding Q12PRHCPU, Q25PRHCPU), LCPU, FXCPU (excluding FX5U, FX5UC), motion controller CPU (MELSEC iQ-R Series/Q Series (SV13/SV22 only))*1, robot controller*1 (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), CNC (C80, C70)*1, inverter (FREQROL-A800/A800Plus/F800 Series)*1*2, servo amplifier (MR-J4-□GF)*1*2

*1 Not supported by GT21.

*2 Supported only when the GOT and the programmable controller (RCPU) are connected via Ethernet and the programmable controller (RCPU) 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 126).

*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*

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

Supported devices

PLC | Servo | Inverter | Robot | CNC

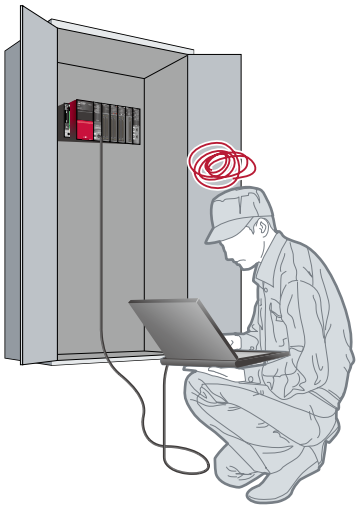
Check the PLC module status

Upgraded

Support maintenance work

■ System launcher function

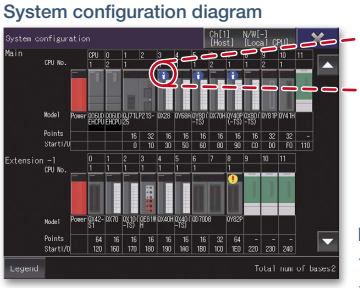
Having problems?



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

GOT will solve your problems!

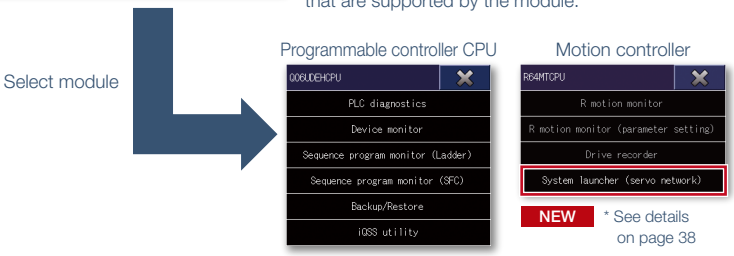
System configuration diagram



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.



NEW * See details on page 38

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

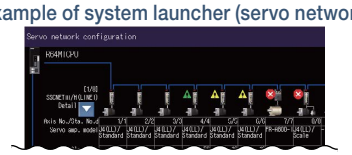
The programmable controller system can easily be checked on GOT without a personal computer at the worksite.

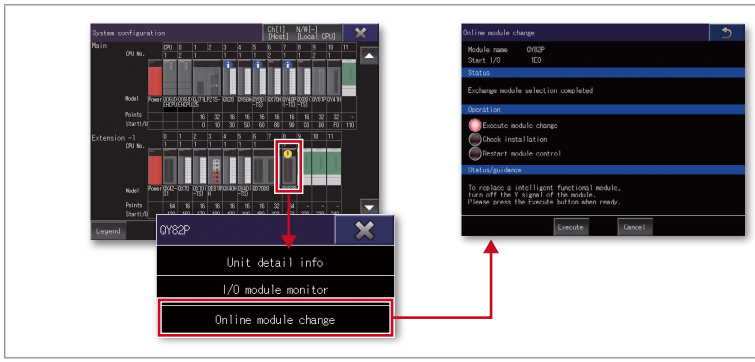
Starting extended function quickly

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

NEW * See details on page 38

Example of system launcher (servo network)





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** RCPU, QCPU (Q mode), LCPU, motion controller CPU (MELSEC iQ-R Series/Q Series), CNC (C80, C70), robot controller (FR Series CR800-R (R16RTCPU), F Series (CR750-Q (Q172DRCPU), CR751-Q (Q172DRCPU)), SQ Series CRnQ-700 (Q172DRCPU))

● **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 126).

*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 (Ladder), sequence program monitor (iQ-R 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)

*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** QCPU (Q mode) input/output/I/O module, analog input/output module, temperature input/temperature control module

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Robot | CNC

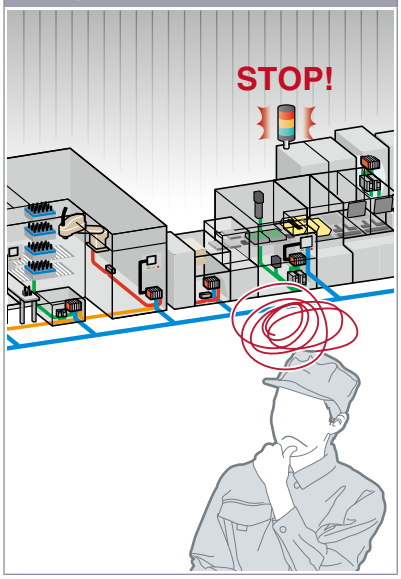
Graphically monitor the network status

NEW

Support maintenance work

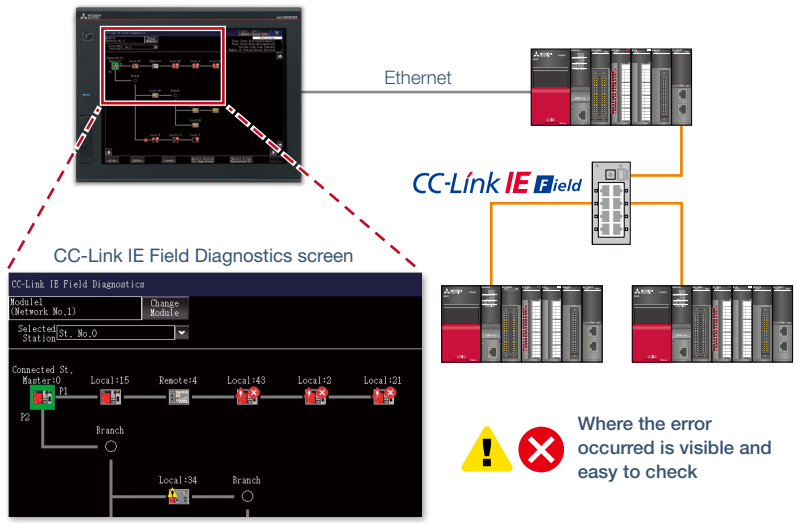
■ CC-Link IE Field Network diagnostics

Having problems?



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

GOT will solve your problems!



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.

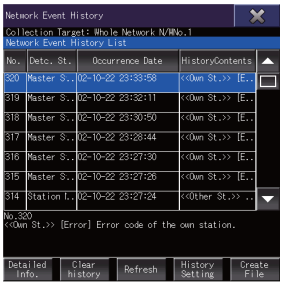
Function features

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.

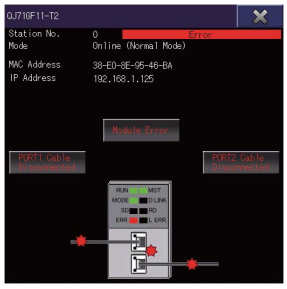
* Not available when the connection destination is an RCPU, FX5UCPU, or FX5UCCPU.



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), LCPU, FX5UCPU, FX5UCCPU
- **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 126).
*2 Connection to the Ethernet interface module of a programmable controller is not supported.
*3 RCPU, FX5UCPU, and FX5UCCPU do not support direct CPU connection.
*4 FX5UCPU and FX5UCCPU do not support serial communication connection.

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

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.

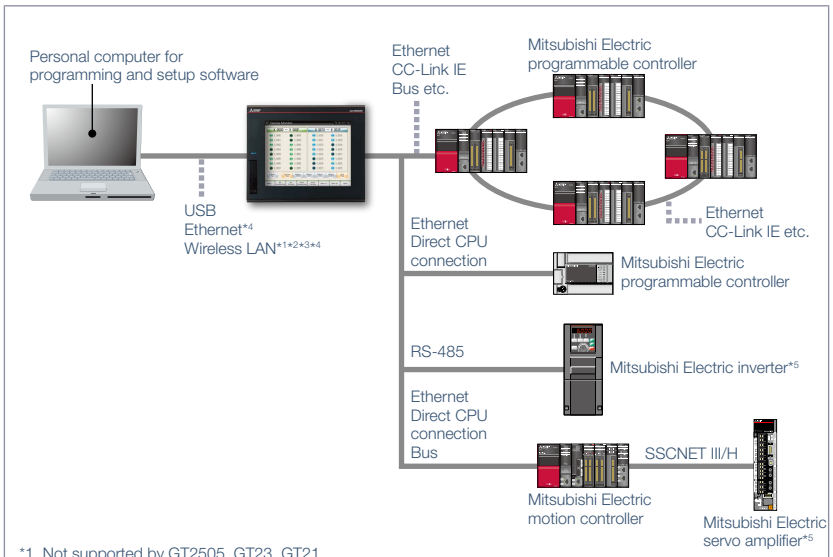
Function features

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 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.

* This feature does not apply to GOT connected to the CPU's built-in Ethernet port. (Excluding QnUDVCPU)
* Not supported by GT21.



*1 Not supported by GT2505, GT23, GT21.
*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 58.
*4 Not supported by GT2505, GT23, and GT21 when the GOT is connected to controllers via Ethernet connection.
*5 GT21 does not support connection to Mitsubishi Electric inverters and 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*

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

Supported devices

PLC | Servo | Inverter | Robot | CNC

Check status of industrial devices

Support maintenance work

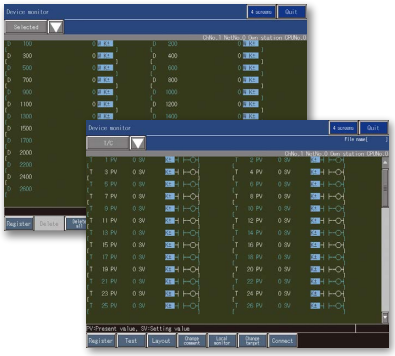
■ Device monitor function

Having problems?

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

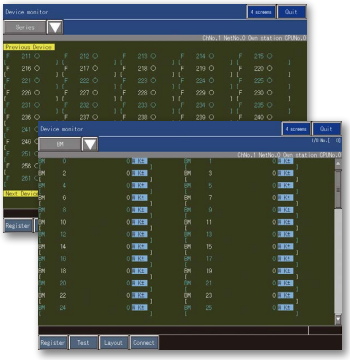
GOT will solve your problems!

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

Supported devices

PLC | Servo | Inverter | Robot | CNC

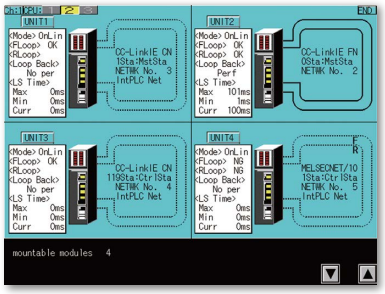
■ Network monitor function

Having problems?

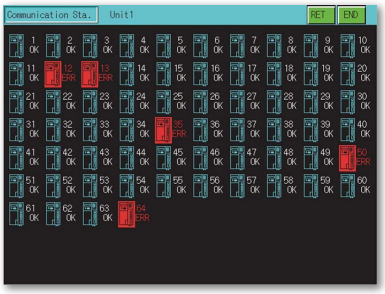
Can I check the network status without a personal computer?

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

Supported devices

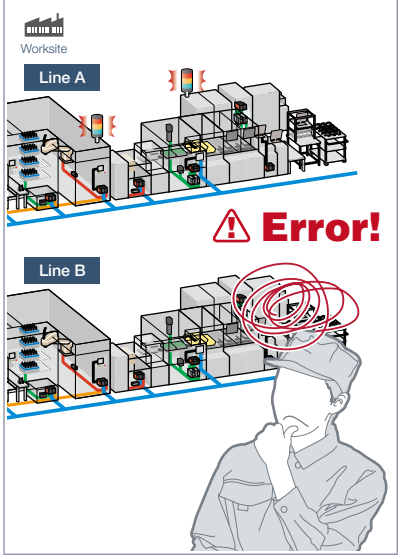
PLC | Servo | Inverter | Robot | CNC

Easily identify the cause of alarms

Support maintenance work

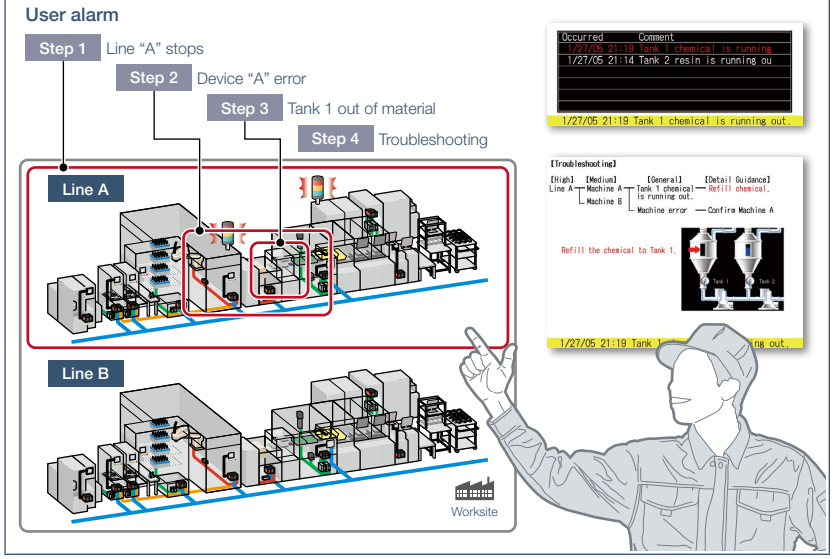
■ Alarm function

Having problems?



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

GOT will solve your problems!



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).

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.

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.

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.

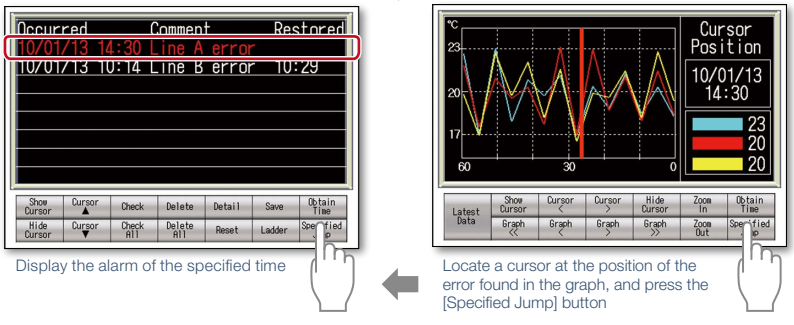
Interaction with other functions [User alarm]

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.

Interaction of user alarm and historical trend graph

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

Display the graph recorded when the alarm occurred



Display the alarm of the specified time

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

* For the necessary option devices, please refer to the "Function list" (page 122).

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21*

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

Supported devices

PLC | Servo | Inverter | Robot | CNC

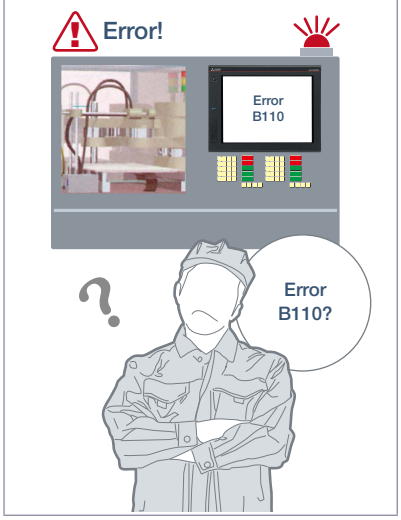
Quick troubleshooting at worksite

Support maintenance work

Upgraded

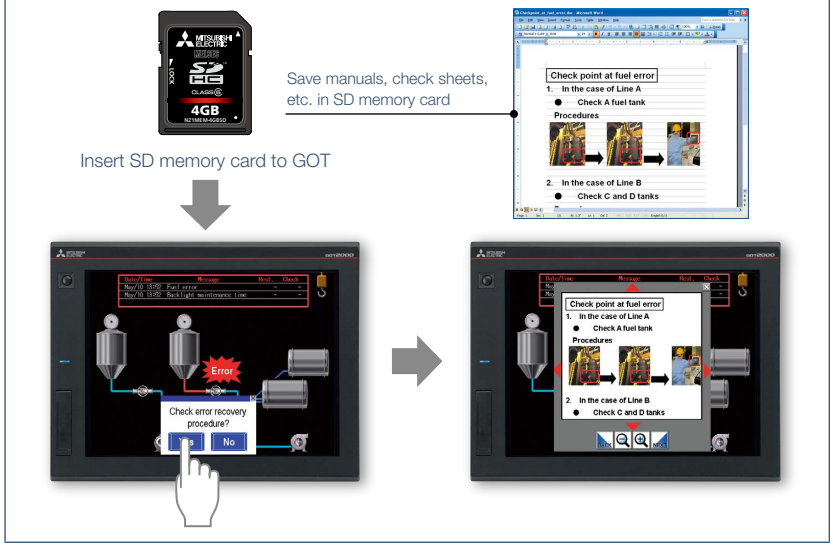
■ Document display function

Having problems?



How can I recover from errors?

GOT will solve your problems!



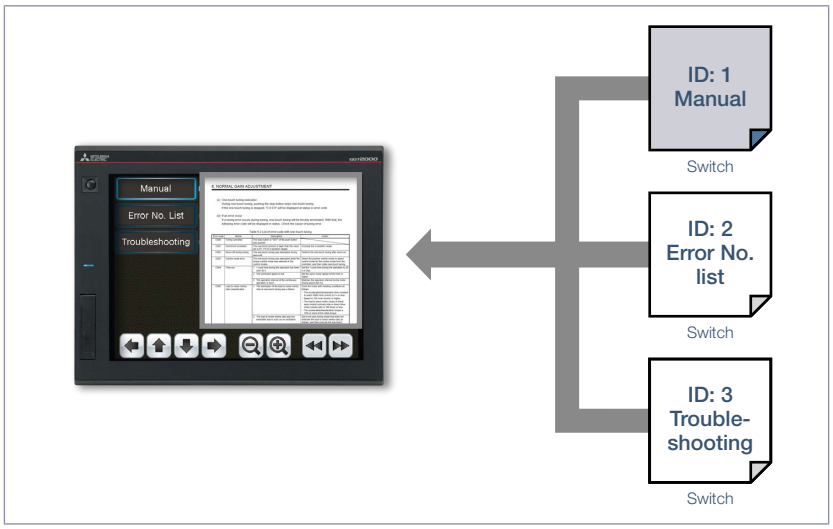
GOT displays manuals or check sheets with instructions on how to restore the system, which reduces the downtime.

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 NEW

PDF files can be viewed directly on GOT.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 122).

● **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 with GT Works3.

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Robot | CNC

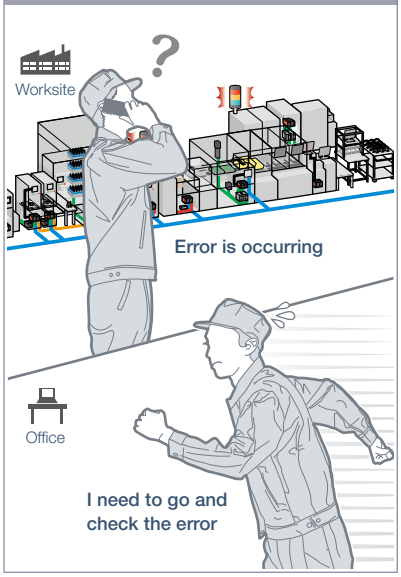
Quick troubleshooting from your office

Support maintenance work

Upgraded

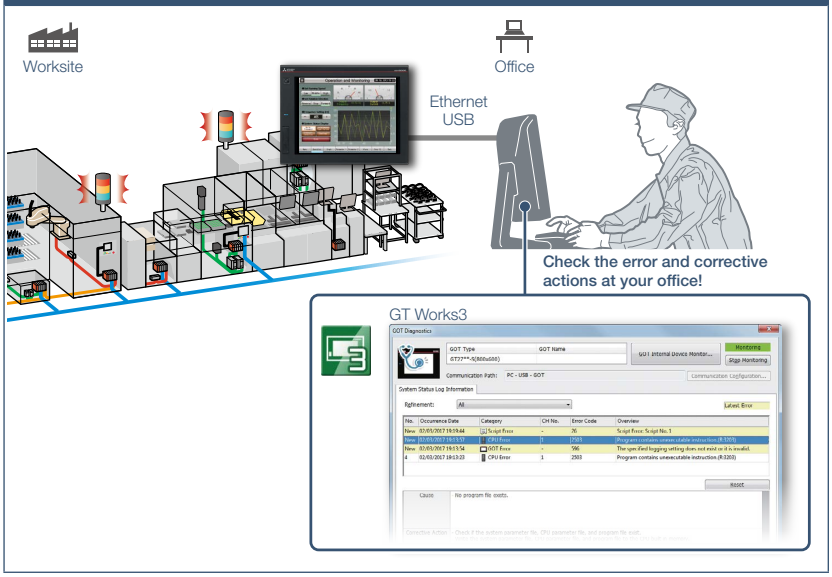
■ GOT diagnostics function

Having problems?



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

GOT will solve your problems!



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.

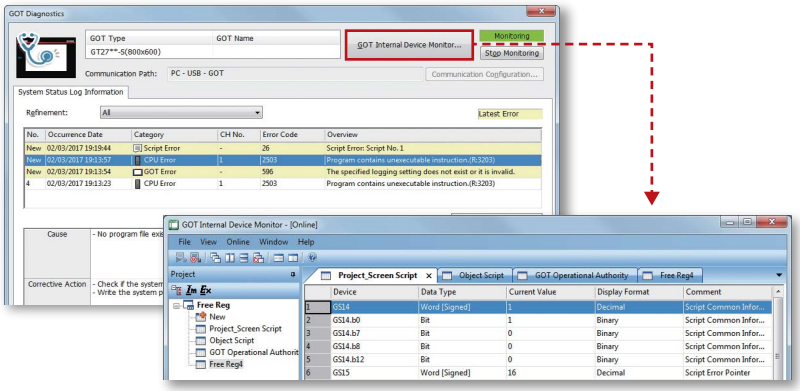
Checking system alarms*

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.

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 NEW

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.

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21*

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

Supported devices

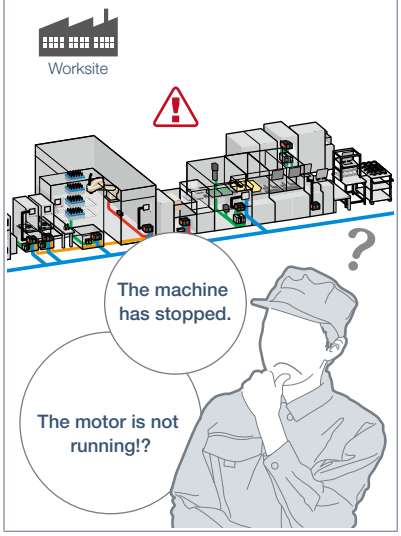
PLC | Servo | Inverter | Robot | CNC

Check corrective actions with e-Manual

Support maintenance work

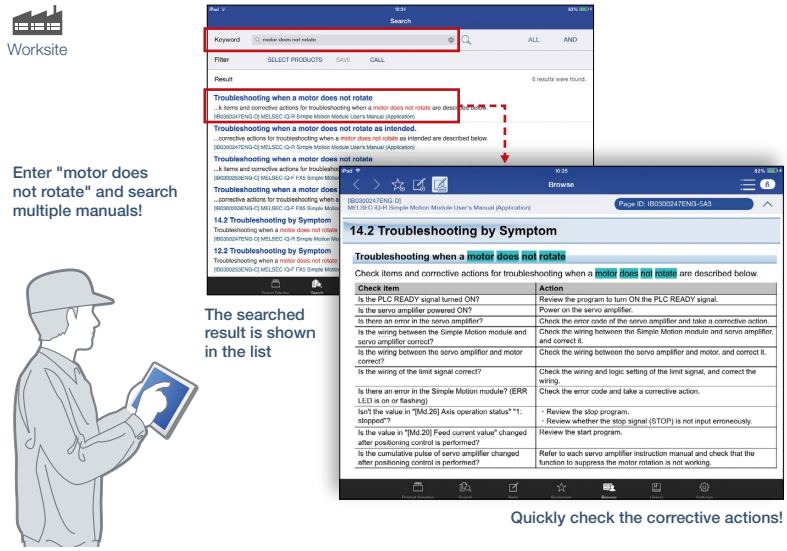
■ e-Manual

Having problems?



A problem occurred, but how can I solve the problem?

GOT will solve your problems!



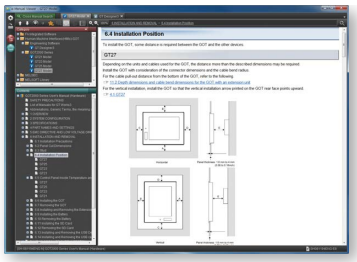
e-Manual enables you to easily search pertinent information and quickly troubleshoot the problem. Use this powerful tool to help your maintenance work at the worksite.

Function features

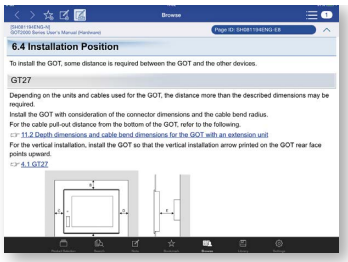
e-Manual is the Mitsubishi Electric FA Electrical Document Manual with a dedicated viewer (e-Manual Viewer). (page 91)

Improve maintenance efficiency

Useful functions are included such as keyword search of multiple manuals, saving your favorites, saving memos, and others.



e-Manual Viewer Windows® version



e-Manual Viewer tablet version

* 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 with 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

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

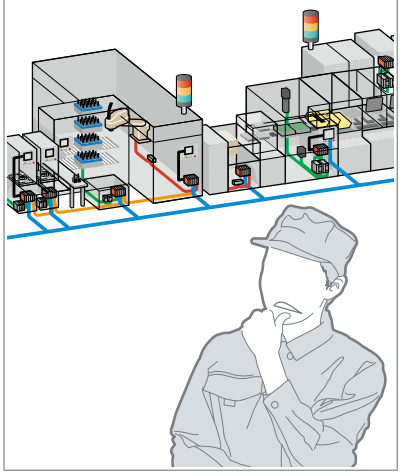
PLC | Servo | Inverter | Robot | CNC

Extensive lineup

Support system design

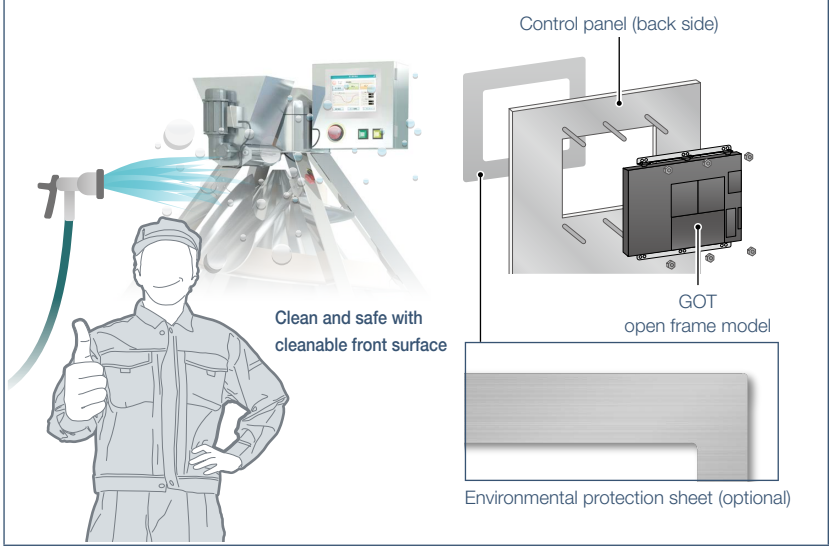
■ Enhanced lineup

Having problems?



How can I keep the machine clean in the food production line?

GOT will solve your problems!



Installing the GOT2000 from the back side of the control panel complements the machine-design surface. You can keep the machine clean by wiping with a damp cloth and washing with water.

Function features

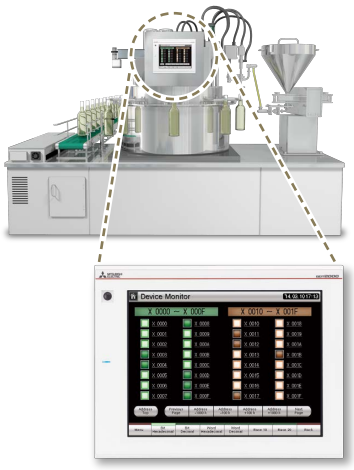
The powerful and flexible lineup including open frame GOTs fits various applications you may encounter.

Open frame model

Using a stainless-look environmental protection sheet allows the touch panel to blend into the production machines for the pharmaceutical and food industries.
(GT25 model)

Recommended industries

F & B | Pharma | Cosmetics



White model

Flush frame without a USB port reduces the time to clean the GOT.
(GT27 model, GT25 model)

Recommended industries

F & B | Pharma | Cosmetics

Compact model

The GOT can be installed vertically in confined spaces, which offers extra flexibility and suitability for applications in various kinds of industries.
(GT21 model)

Recommended industries

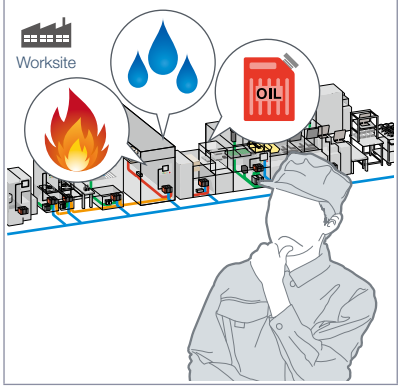
F & B | Pharma | Transport

Support various international standards

Support system design

■ Compatible with environmental standards

Having problems?



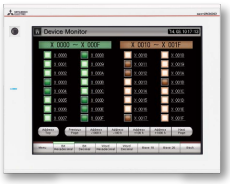
I want to use an HMI which is designed to be safely used in hazardous locations.

GOT will solve your problems!

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.



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.

Approval standards list (as of October 2017)

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

○: Supported ×: Not supported

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

*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

● **Target models** 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).
● **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?

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

GOT will solve your problems!

The wireless LAN connection between GOT and a personal computer is supported.*1*2*3 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, and GT21 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

* For the necessary option devices, please refer to the "Function list" (page 122).

● **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

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

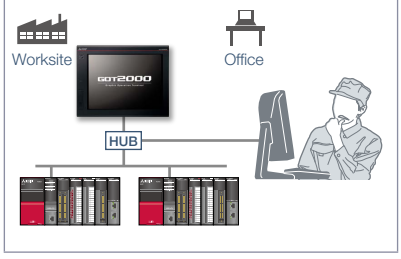
Design secure network configuration

NEW

Support system design

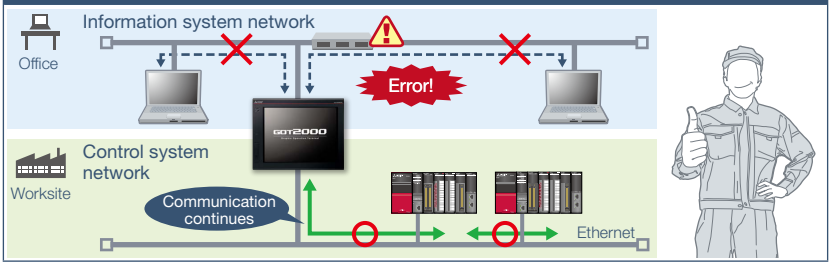
■ Ethernet communication unit

Having problems?



I want to separate the network for security reason.

GOT will solve your problems!



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, and GT21 because the Ethernet communication unit cannot be installed on these models.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 122).

● **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

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

Implement the sound notification system easily

NEW

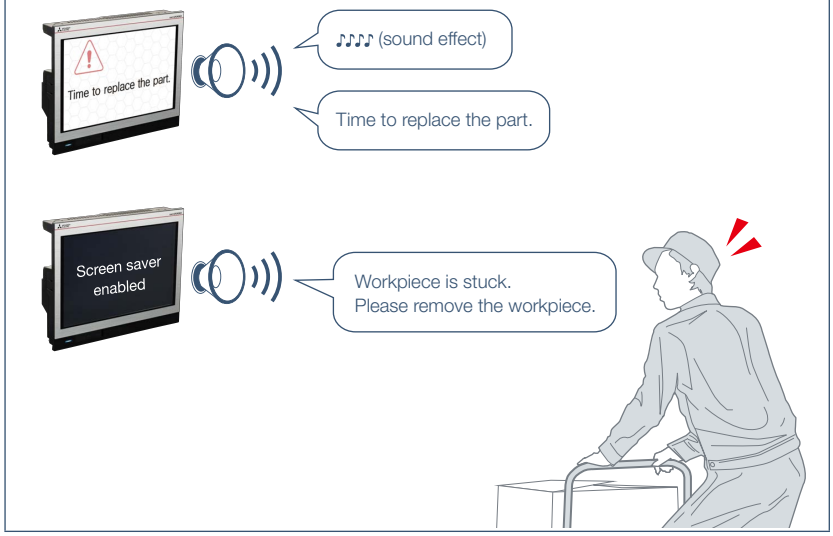
Support system design

■ Sound output function

Having problems?

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

GOT will solve your problems!



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 94)

There are three types of sound files: messages, sound effects, and melodies. Messages can easily be created by using the speech synthesis function* (page 94). 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	Melody
Create from arbitrary text	More than 50 files are included	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.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 122).

- **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

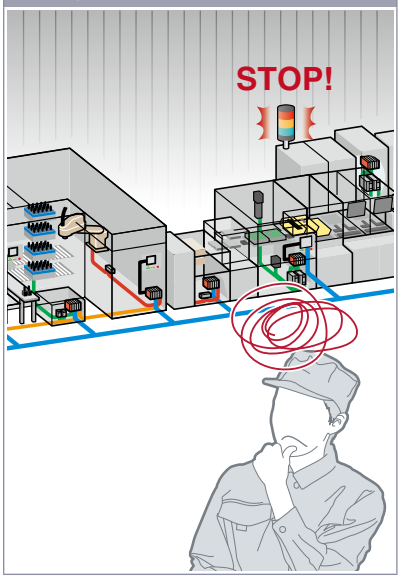
* Excluding GT2505. For the details, refer to the function descriptions above.

Record/Playback videos to see what happened at worksite

Support system design

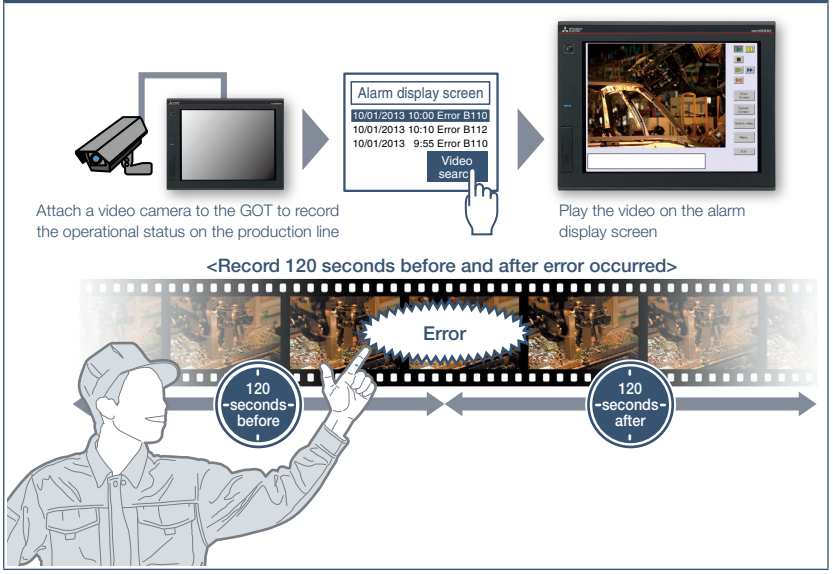
■ Multimedia function

Having problems?



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

GOT will solve your problems!

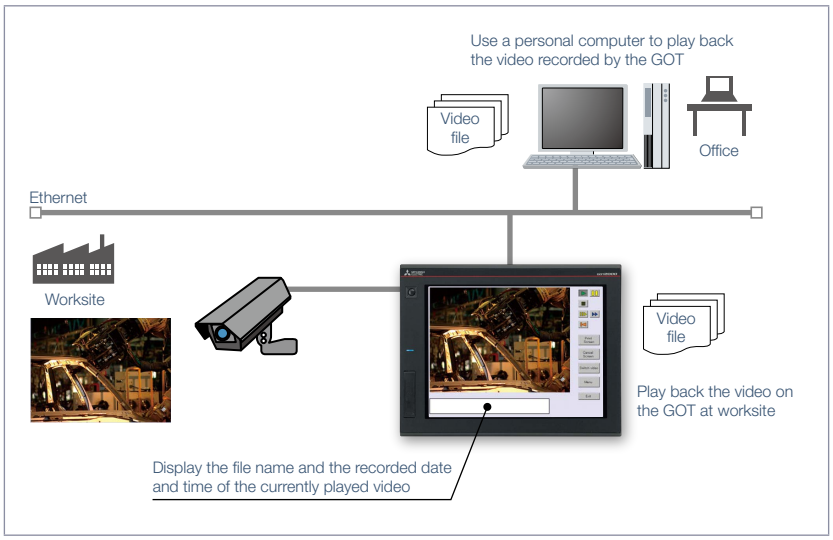


GOT records the operational status on the production line and plays back the recorded video image. Visual clarity of the image helps you to analyze the cause of the error.

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 122).

● **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** Any one of the following units can be installed: multimedia unit, video input 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

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

Supported devices

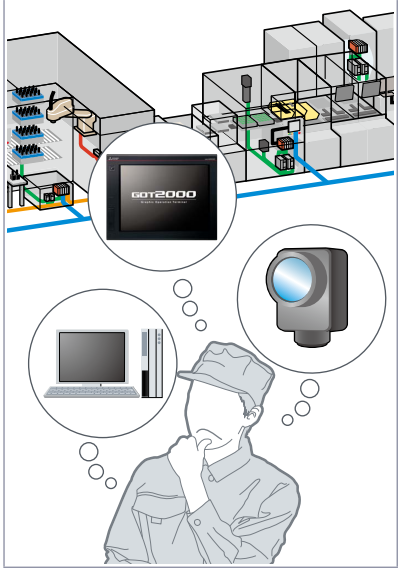
PLC | Servo | Inverter | Robot | CNC

Monitor worksite using video images

Support system design

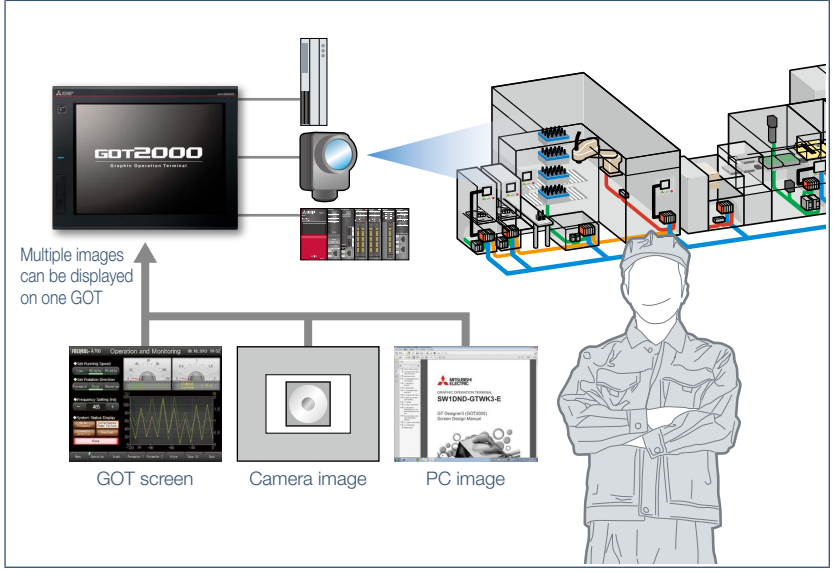
■ Video/RGB function

Having problems?



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

GOT will solve your problems!



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*2

RGB images can be displayed on the GOT. Simultaneous display of two screens is also possible*3. 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*3.

*1 RGB input unit (GT27-R2 or GT27-R2-Z) or video/RGB input unit (GT27-V4R1-Z) is required.
*2 Setting for GT27-R2 is different from that for GT27-R2-Z on the screen design software.
*3 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 or GT27-ROUT-Z) is required.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 122).

● **Unit installation** Any one of the following units can be installed: multimedia unit, video input 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.

Recommended industries

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

Supported GOT types

GT27* | GT25 | GT23 | GT21

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

Supported devices

PLC | Servo | Inverter | Robot | CNC

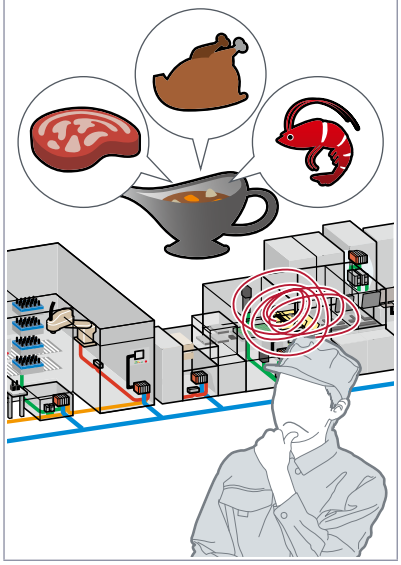
Quick changeover

Upgraded

Support system operation

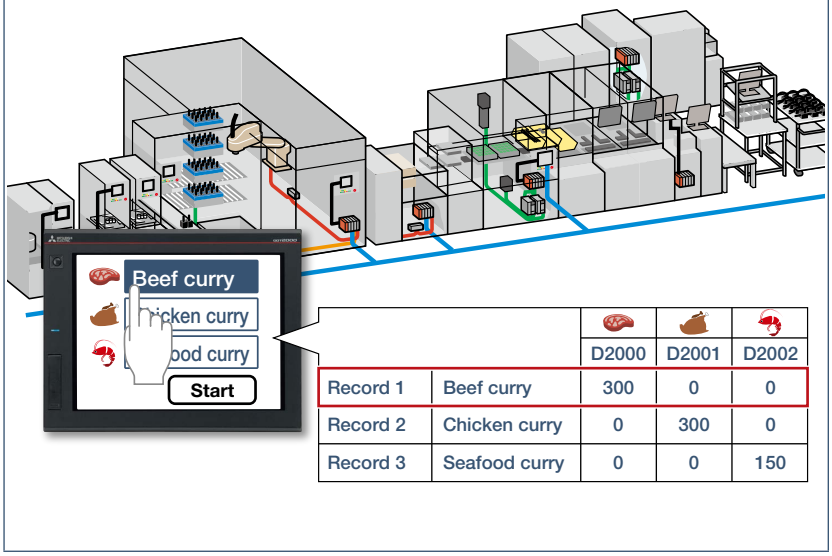
■ Recipe function

Having problems?



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

GOT will solve your problems!



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

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.

Checking record values before recipe change NEW

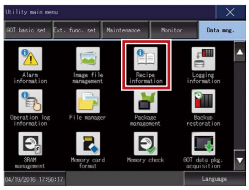
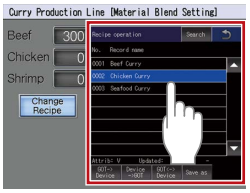
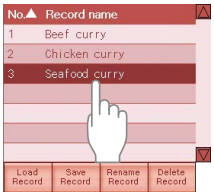
Without writing records to programmable controllers, record values can be checked and changed. By overwriting a recipe file with the changes, the changed values can be written to devices in programmable controllers. (Recipe special control)

* Not supported by GT21.

Easy changeover

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

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

Change recipes in the utility screen	Change recipes from user-created screens*	
	Recipe operation window	Recipe display (record list)
		
Secured by setting passwords to activate the utility screen.	Without creating recipe change screen, recipes can be changed by using a standard recipe operation window.	Record selection screen can be created by the users. Various functions and designs are available.

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

Specification details and restrictions

* For the necessary option devices, please refer to the “Function list” (page 122).

- **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*

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

Supported devices

PLC | Servo | Inverter | Robot | CNC

Support recipe setting (record) selection

Support system operation

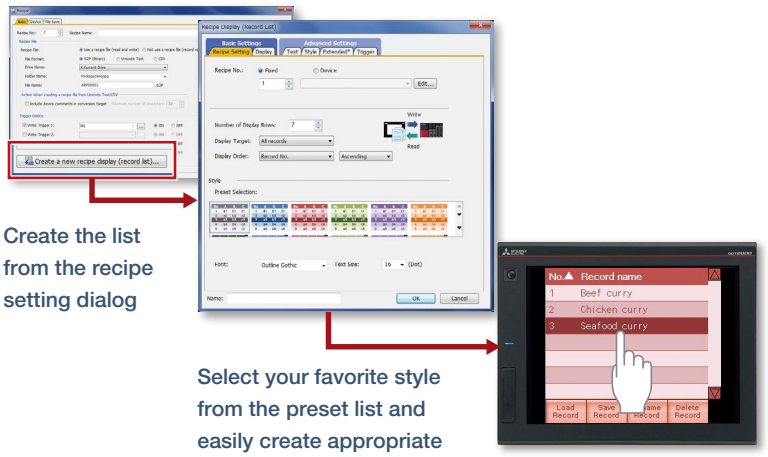
■ Recipe display (record list)

Having problems?

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

GOT will solve your problems!

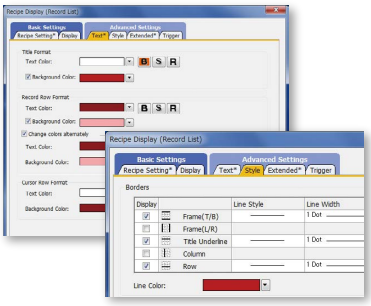
GT Works3



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

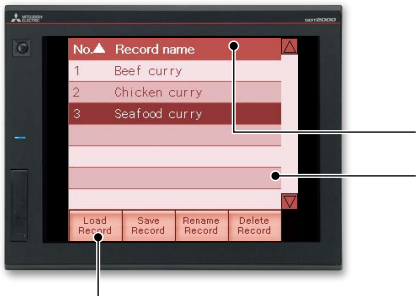
Create the recipe display (record list) easily just by selecting required items in GT Works3. Colors, line styles, and borders can be changed as you need.



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 with 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

Supported devices

PLC | Servo | Inverter | Robot | CNC

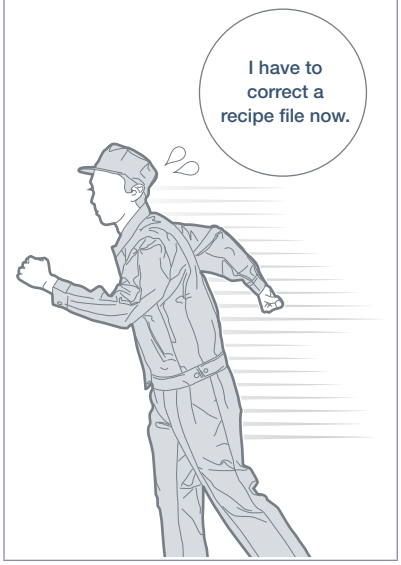
Increase efficiency of maintenance work

NEW

Support system operation

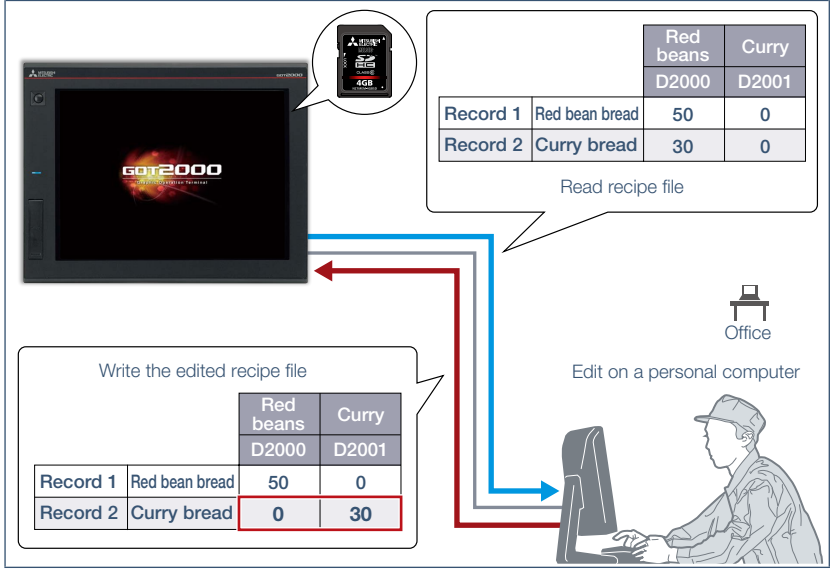
■ Writing resource data

Having problems?



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

GOT will solve your problems!



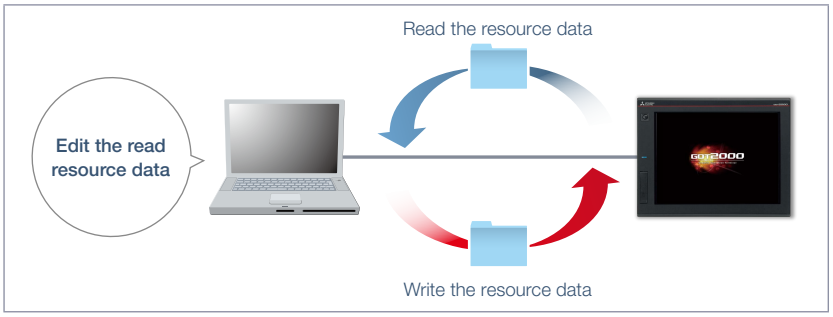
Recipe files read from GOT can be edited and written back to an SD memory card in the GOT. Without ejecting the SD memory card, you can read, edit, and write recipe files in your office.

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

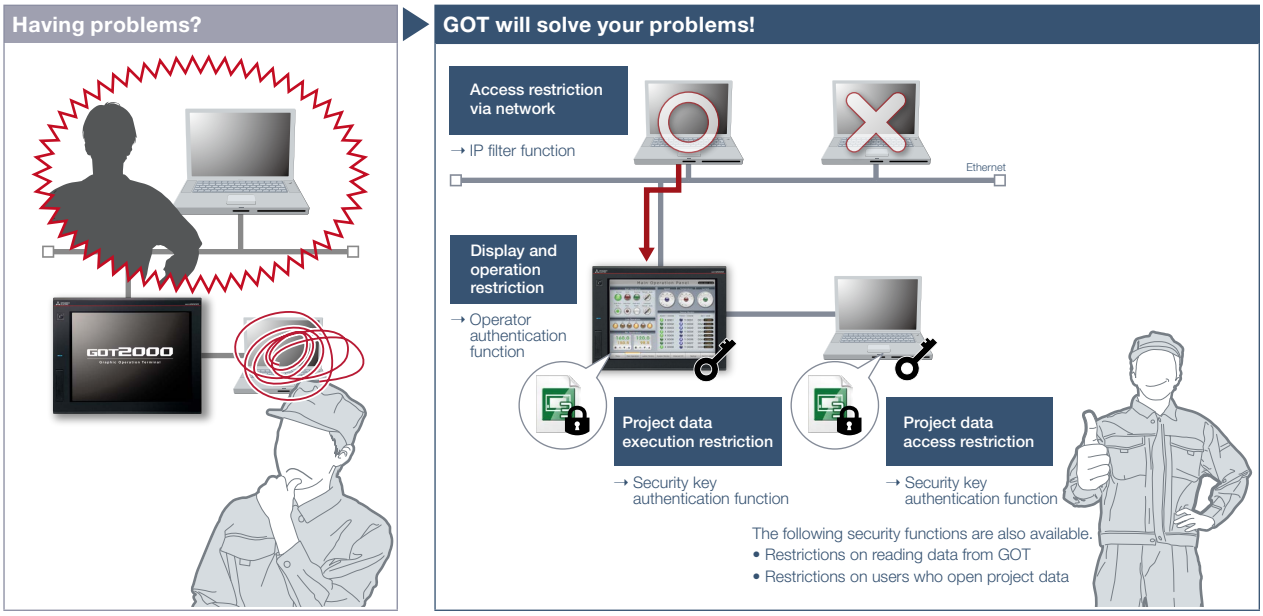
Supported devices

PLC | Servo | Inverter | Robot | CNC

Protect valuable assets

Support system operation

■ 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.

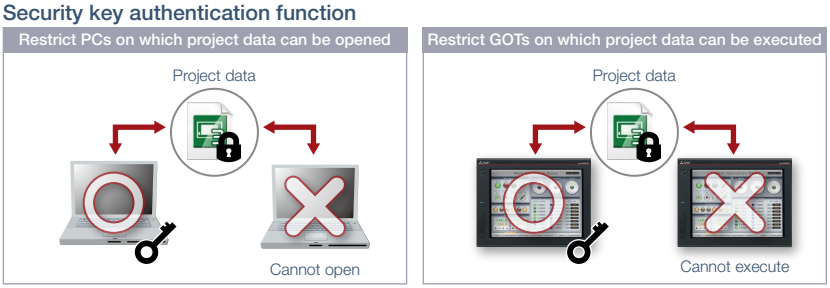
Prevent data alteration and duplication [Security key authentication function]

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.

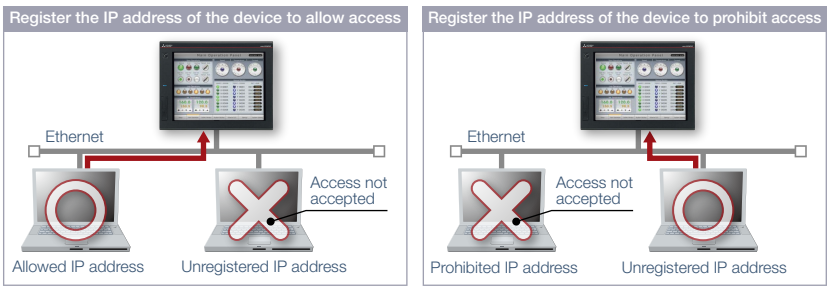
Reduce risk of unauthorized access through network [IP filter function]

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

Supported devices

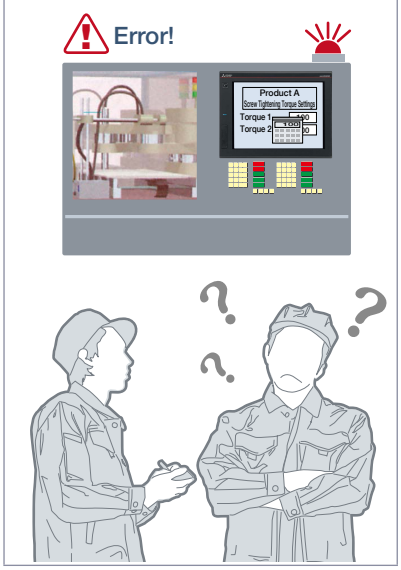
PLC | Servo | Inverter | Robot | CNC

Identify error cause based on history information

Support system operation

■ Operation log function

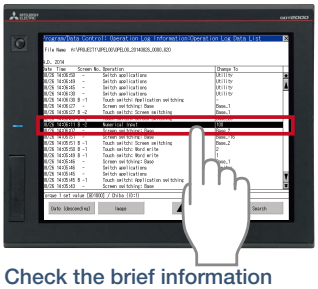
Having problems?



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

GOT will solve your problems!

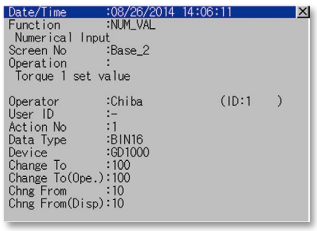
Operation log list



Check the brief information of the log

for more details...

Detailed information



Check the detailed information of the log

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

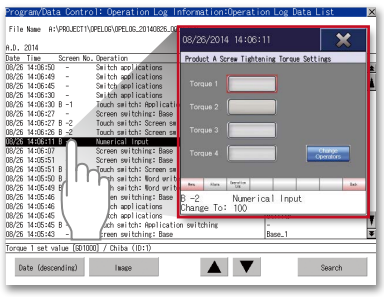
GOT records the operation information, such as “when, how, for what” the operation was performed, in chronological order in an SD memory card or USB memory.
Use of the operation log function combined with the operator authentication function (page 67) records additional information of “who” performed 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.

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 122).

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Robot | CNC

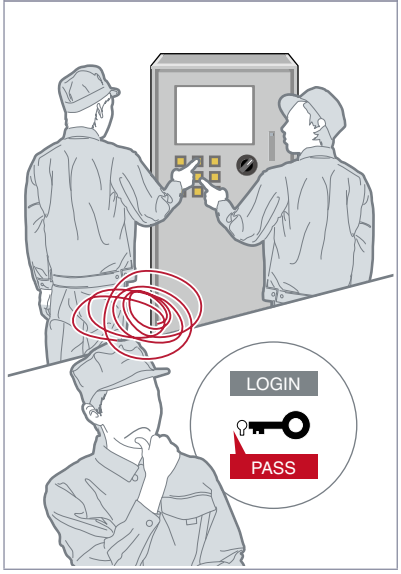
Security with password management

Support system operation

Upgraded

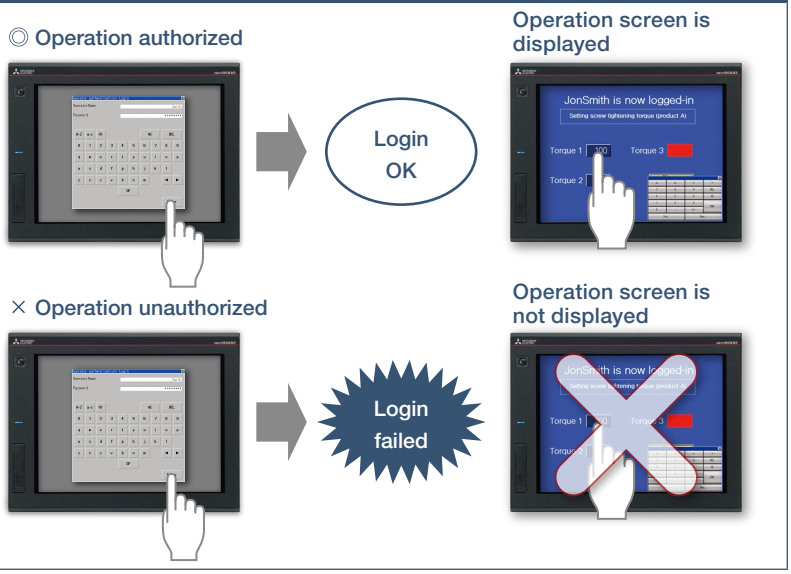
■ Operator authentication function

Having problems?



How can I restrict the unauthorized operators?

GOT will solve your problems!



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 66) enables you to check the "who, what, when, and how" of an operation performed.

Enhanced password security NEW

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.

How to authenticate the operator

Method ①

Input an operator name and password for login

Method ②

Use an ID card or ID tag for login

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

Set the authority to allow John Smith to adjust “Torque 1” and “Torque 2”.

John Smith can adjust “Torque 1” and “Torque 2”.

John Smith cannot adjust “Torque 3”.

* For the necessary option devices, please refer to the “Function list” (page 122).

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21*

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

Supported devices

PLC | Servo | Inverter | Robot | CNC

Support FDA 21 CFR Part 11

NEW

Support system operation

■ Regarding FDA 21 CFR Part 11 support

Having problems?

How can I support FDA 21 CFR Part 11 easily?

GOT will solve your problems!

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.

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.

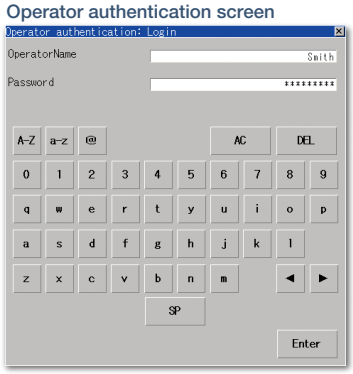
* The range that GOT can support is limited. For the details, please refer to the Technical Bulletin No. GOT-A-0077.

Access management per operator

The operator authentication function enables management of users who can login to GOT. (Operator authentication function (page 67))

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

Operator authentication screen



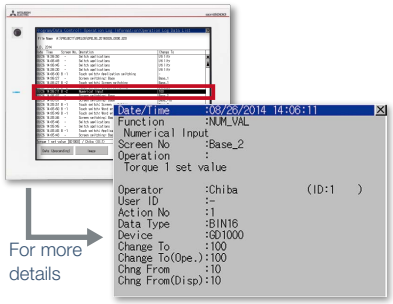
Input an operator name and password for login

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

Audit trails can be recorded by setting the operation log appropriately. (Operation log function (page 66))

<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



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.
● **How to obtain sample screens** Sample screens are included with 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

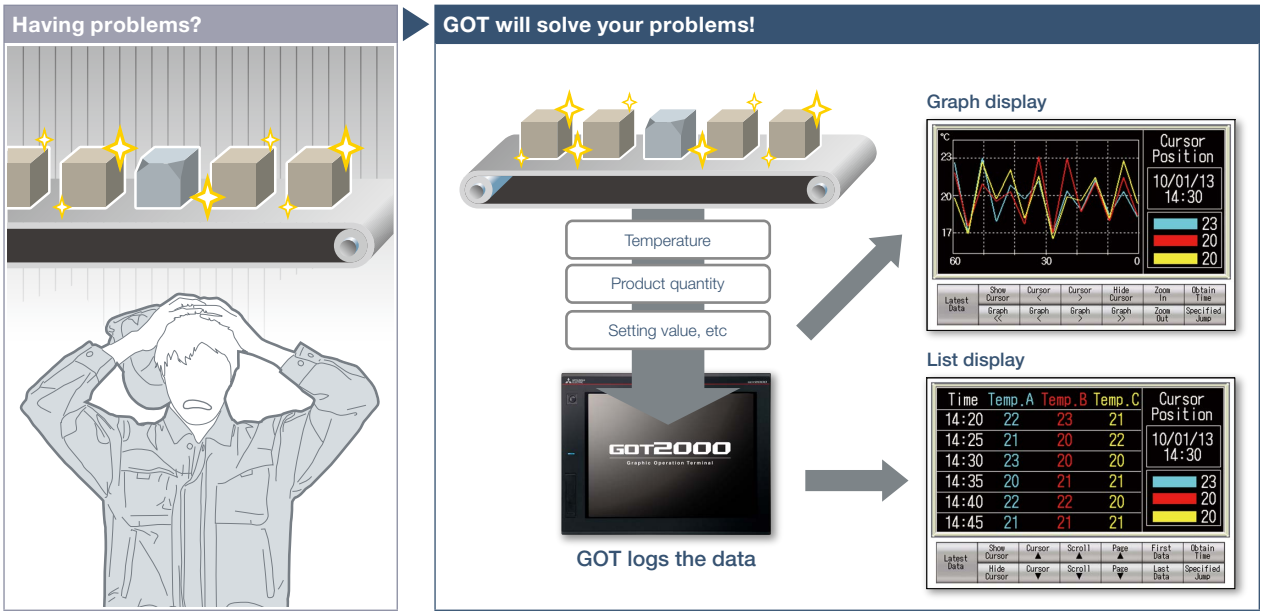
Supported GOT types

GT27 | GT25 | GT23 | GT21

Easy data collection

Support system operation

■ 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.

Analyze data on personal computer

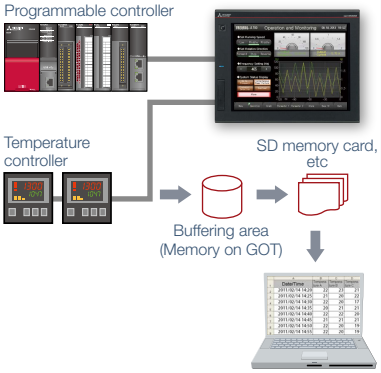
The logging data can be converted into a CSV file or Unicode® text file and saved to an SD memory card or USB memory so that the data can be displayed on a personal computer.

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.



Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 122).

● **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*

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

Supported devices

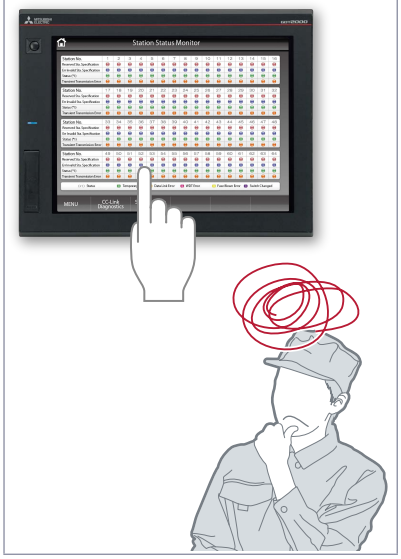
PLC | Servo | Inverter | Robot | CNC

Simple touch operations

Support system operation

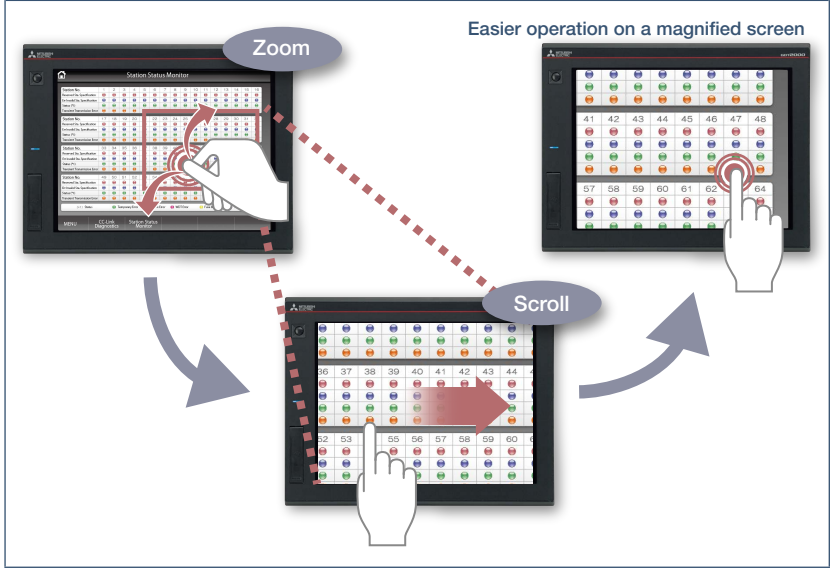
■ Gesture function

Having problems?



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

GOT will solve your problems!



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

*1 Not supported by GT2705.

Recommended industries

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

Supported GOT types

GT27* | GT25 | GT23 | GT21

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

Supported devices

PLC | Servo | Inverter | Robot | CNC

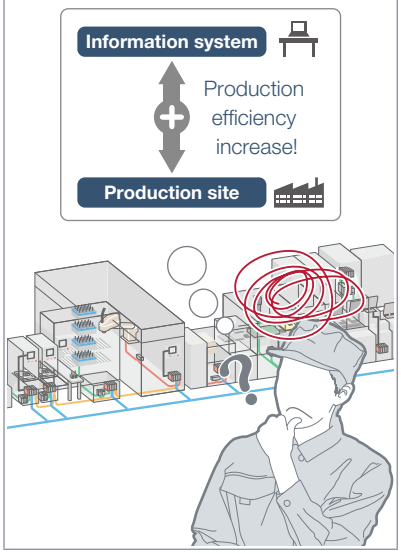
Easy interaction with database

Support system design

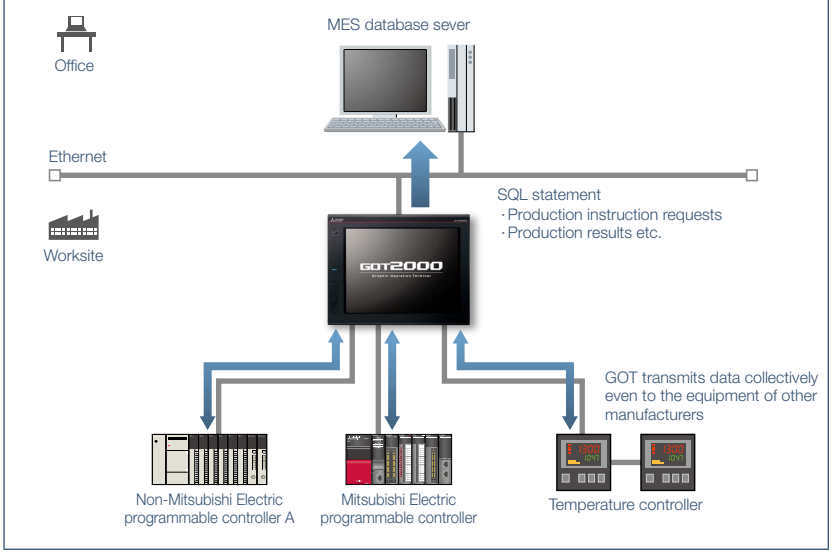
Upgraded

■ MES interface function

Having problems?



GOT will solve your problems!



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.

* <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.

Function features

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

*1 SELECT (Select/MultiSelect), UPDATE, INSERT
*2 A separate license (GT25-MESIFKEY) is required.

Easy communication without programming

Communication with databases is configured in GT Works3 without any programming.

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.

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.

NEW

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.

e-F@ctory

For further total solution

In the future, factories will need to "increase production value" while "living in coexistence with society / environment." Mitsubishi Electric's extensive FA product lineup and key partnerships will effectively address these issues.
By collecting and analyzing production data, factories will be able to make "visible" the processes needed to increase productivity, reduce waste / emissions, and maintain safety. Mitsubishi Electric provides a total solution for greater improvements.

* For the details, please refer to page 96.

Specification details and restrictions

* For the necessary option devices, please refer to the "Function list" (page 122).

● **Function list** ・DB interface function (tag function / trigger buffering function / trigger monitoring function / SQL text transmission function / arithmetic processing function / program execution function / DB buffering function) ・SNTP time synchronization function ・Resource data send function ・Diagnosis function ・DB server function (ODBC connection function / connection setting function / log output function)

● **Usable databases** ・Oracle®12c*1 ・Oracle®11g*2 ・Oracle®10g/9i/8i*3 ・Microsoft® SQL Server® 2016 Standard/Enterprise*1 ・Microsoft® SQL Server® 2014/2012/2008 R2/2008*2 ・Microsoft® SQL Server® 2005/2000*3 ・Microsoft® SQL Server® 2000 Desktop Engine (MSDE2000) ・Microsoft® Access® 2016/2013*3 ・Microsoft® Access® 2010*3 ・Microsoft® Access® 2007/2003/2000

*1 Compatible with 64-bit version only. *2 Compatible with 32-bit and 64-bit versions. *3 Compatible with 32-bit version only.

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

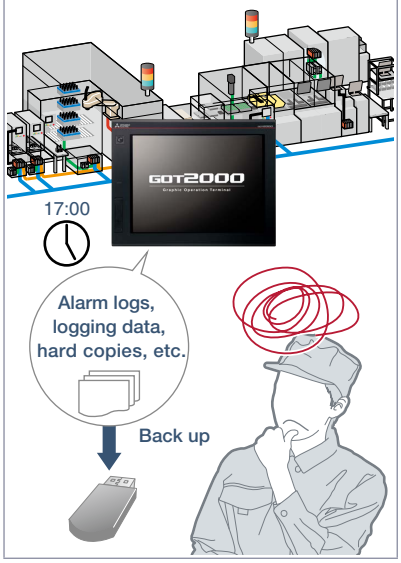
PLC | Servo | Inverter | Robot | CNC

Support management of on-site data

Support system operation

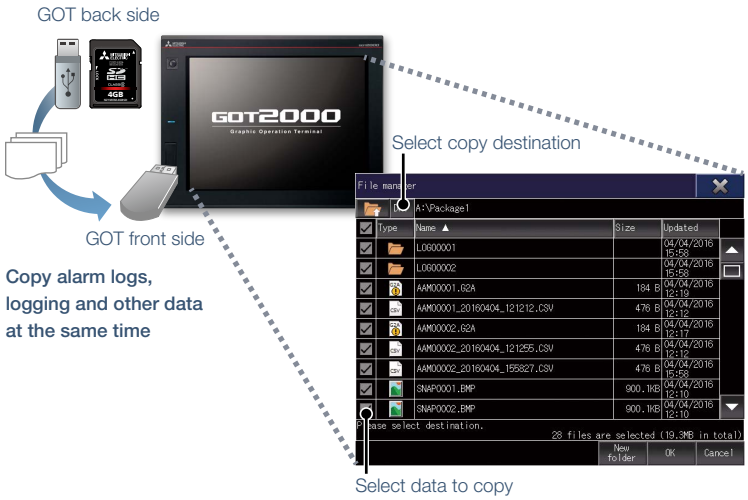
■ File manager function

Having problems?



How can I make backup of alarm and logging data? It's bothersome to back up data separately.

GOT will solve your problems!



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

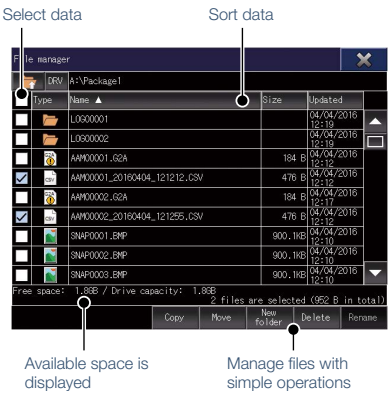
File types can be identified with icons at a glance.

Various file operations

Copy, delete, move, rename, or create files and folders. Multiple selection of files and folders is also possible.

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.



* For the necessary option devices, please refer to the “Function list” (page 122)

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Robot | CNC

Send and retrieve files between GOT and PC

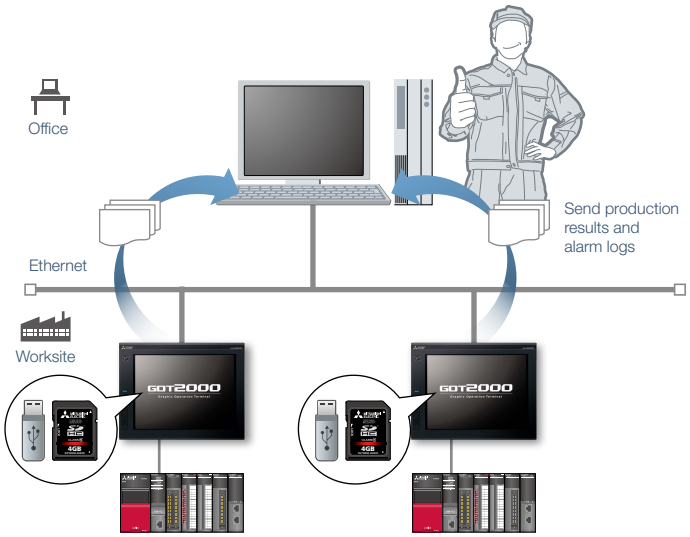
Support system operation

■ File transfer function

Having problems?

How can I check daily production results?

GOT will solve your problems!



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.

FTP transfer

By using GOT, files stored on the GOT's SD memory card or USB memory can be sent to or received from a personal computer. File transfer triggers (sampling, bit rise, etc.) can be used to set file transfer timing.

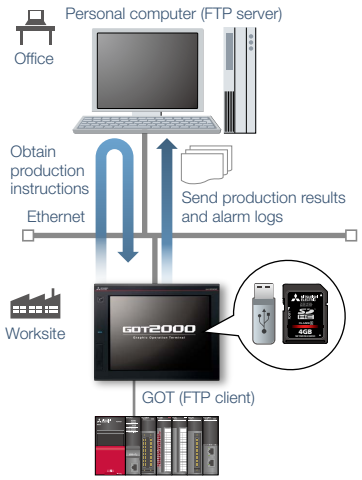
* Supported by GT2107-W, GT2104-R, and GT2103-PMBD among GT21 models.

GOT internal transfer

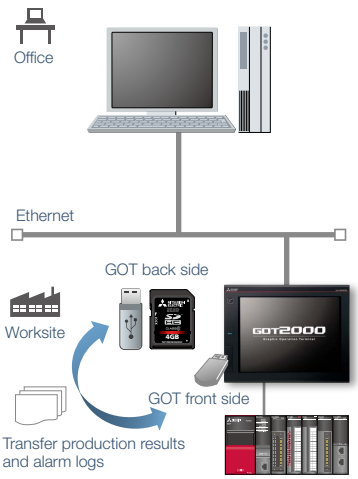
Files stored on the SD memory card or USB memory connected to the back side of GOT can be transferred to the USB memory on the front face of the GOT so that data can be obtained easily.

* Not supported by GT21.

FTP transfer



GOT internal transfer



* For the necessary option devices, please refer to the "Function list" (page 122)

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21*

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

Supported devices

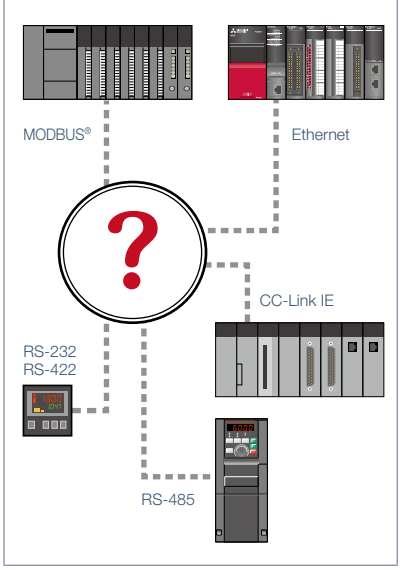
PLC | Servo | Inverter | Robot | CNC

Various controllers and connection types

Support system design

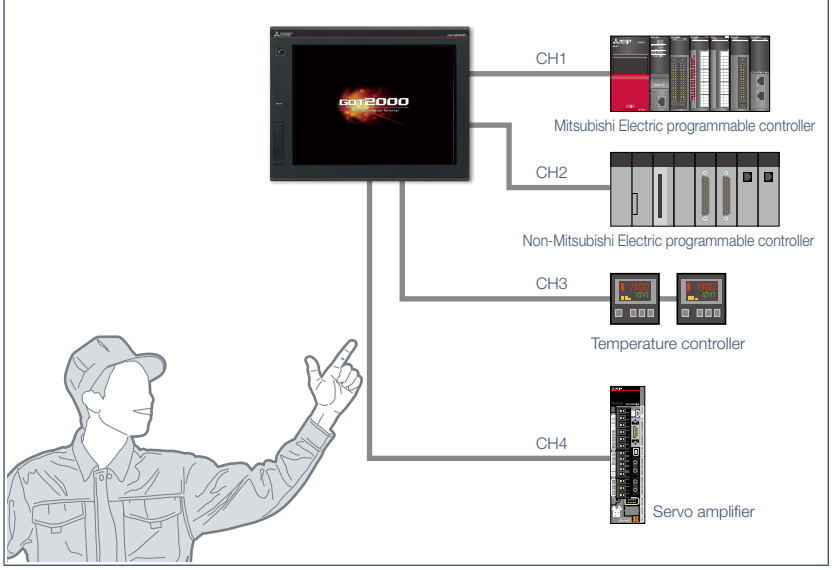
■ Multi-channel function/Device data transfer function

Having problems?



How can I connect various industrial devices in various connection types?

GOT will solve your problems!



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

<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®

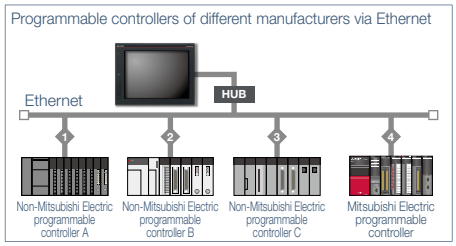
* Including MELSECNET/10 mode.

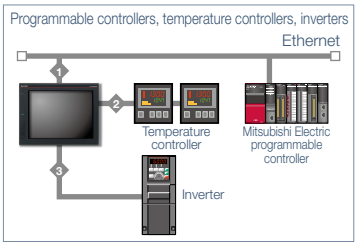
Multi-channel function

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

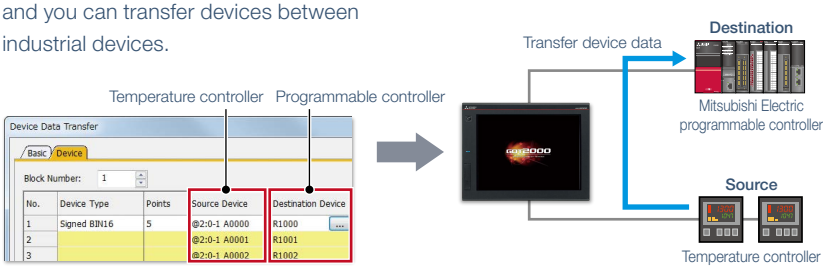
<Typical applications>





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 126).

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21*

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

Supported devices

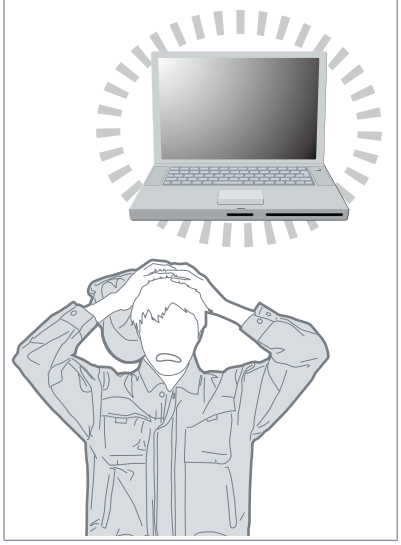
PLC | Servo | Inverter | Robot | CNC

Support startup, maintenance of inverters

Support system startup/ adjustment

■ Interaction function with inverters

Having problems?



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

GOT will solve your problems!

Sample screens are available!

GOT can be used to perform speed control, position control, and parameter setting. Connected with a personal computer, the GOT acts as a transparent gateway to enable startup and adjustment of equipment using FR Configurator2/FR Configurator. Users do not have to bother with opening the cabinet or changing cable connections.

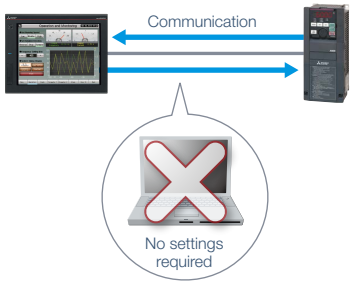
* Not supported by GT21. For the details of supported devices, connection types, and compatible software, please refer to the relevant product manual.

Function features

Without a personal computer or a parameter unit, GOT can be used to control or set parameters of inverters.

Easy connection

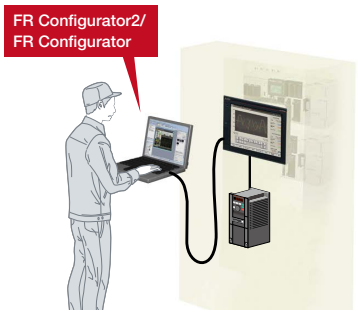
Just by connecting inverters (A800 Series, F800 Series) and GOT, communication is established automatically without setting parameters.



FA transparent function*

Without opening the cabinet, you can use the FA transparent function to enable startup and adjustment of inverters.

* Not supported by GT21.



Specification details and restrictions

● **Target models** FREQROL-A800*1/A800Plus/F800*1/E700*1/F700PJ/D700*1 Series

*1 Sample screens are available.

● **Supported connection types*1** Ethernet connection, serial communication connection

*1 For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 126).

● **How to obtain sample screens** Sample screens are included with GT Works3. For the details, please contact your local sales office. The sample screens are supported by the following GT Works3 versions: Ver.1.126G or later.

Recommended industries

Automotive | Electronics | F & B | Pharma

Supported GOT types

GT27 | GT25 | GT23 | GT21*

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

Supported devices

PLC | Servo | Inverter | Robot | CNC

Support startup, maintenance of robots

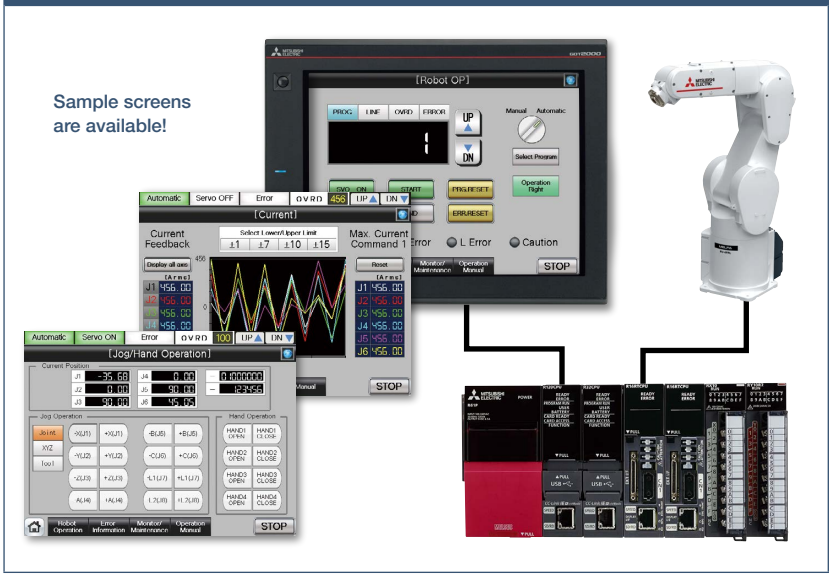
Support system startup/ adjustment

■ Interaction function with robots

Having problems?

How can I startup and adjust robots easily?

GOT will solve your problems!

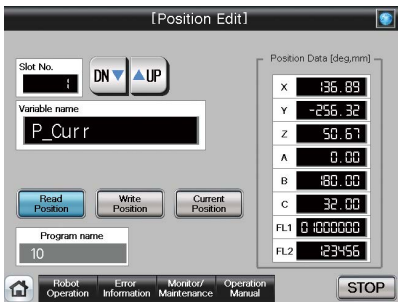


Use GOT to operate or monitor the status of a robot. The robot can be started and stopped, and the error information can be monitored easily from the GOT.

* For the details of connectable models, please refer to the “Connectable model list” (page 126).

Function features

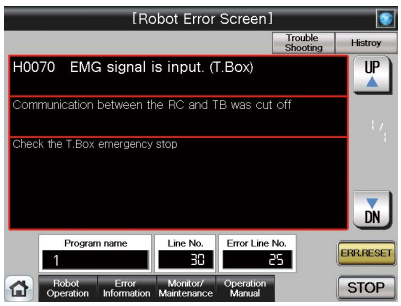
GOT can be used for simple adjustment of robots. The robot error information can also be checked; therefore, it is useful for troubleshooting.



Position edit screen

Position variables of robots can be edited.

* Ready to use sample screens (VGA) are available. (CR800-R(R16RTCPU), CR800-D, CR750-D, CR751-D)



Robot error screen

The details of errors on robots can be checked.

* Ready to use sample screens (VGA) are available. (CR800-R(R16RTCPU), CR800-D, CR750-D, CR751-D)

Specification details and restrictions

● **Target models** FR Series (CR800-R (R16RTCPU), 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.

● **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 126).

● **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-D): Ver.1.178L 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

Supported devices

PLC | Servo | Inverter | Robot | CNC

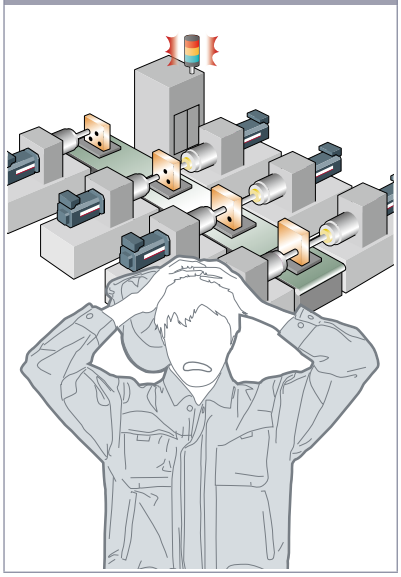
Support CNC maintenance

Upgraded

Support maintenance work

■ Interaction function with CNCs

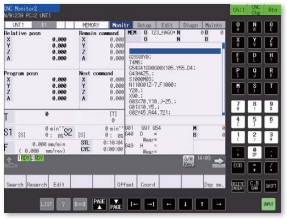
Having problems?



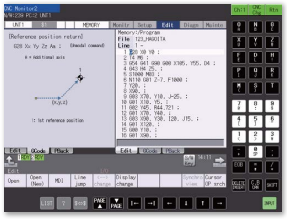
"NC alarm" occurred on a GOT!
How can I maintain the system quickly?

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)

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.
* CNC monitor 2 is supported by GOTs with a resolution of VGA or higher (excluding GT2505).
* Not supported by GT25 wide models.

NEW

CNC monitor 2 function (CNC C80)

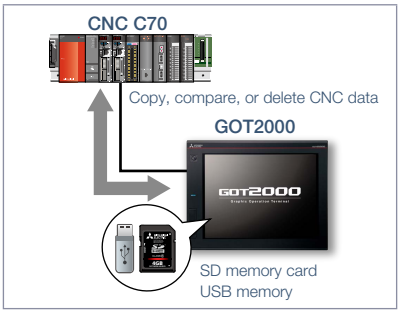
The function enables monitoring and operation of the standard screens (monitor, setup, edit, diagnosis, and maintenance) of the C80 Series CNC connected to the GOT. You can also use this function to input/output data or edit machining program of the CNC C80.

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 122).

- **Target models** CNC C70
- **Supported connection types** Ethernet connection (DISPLAY I/F connection only), bus connection
- **Target data**

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

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

Supported devices

PLC | Servo | Inverter | Robot | CNC

Easily build networks

Support system operation

NEW

■ CC-Link IE Field Network Basic compatible

Having problems?

I need to connect various industrial devices but how can I select appropriate cables to build a network?

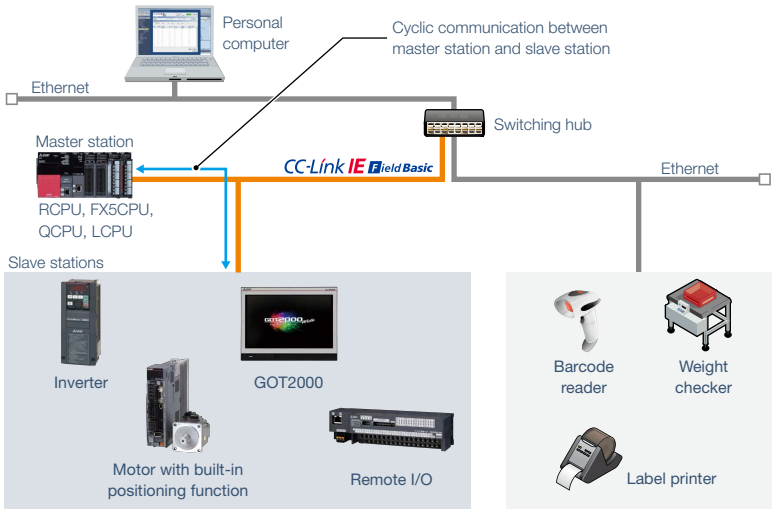
GOT will solve your problems!

The Ethernet-based network realizes connection to various devices only with Ethernet cables so that the maintenance operations can be integrated.

Function features

Use the Ethernet interface and connect GOT with CC-Link IE Field Network Basic compatible devices. The GOT operates as a slave station and is connectable to the master station using cyclic communication. Using the standard Ethernet interface contributes to space saving and cost reduction.

* Supported by GT2107-W, GT2104-R, and GT2103-PMBD among GT21 models.
* For the details, please refer to the Technical Bulletin No. GOT-A-0104.



CC-Link IE Field Network Basic compatible devices

Ethernet compatible devices

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21*

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

Supported devices

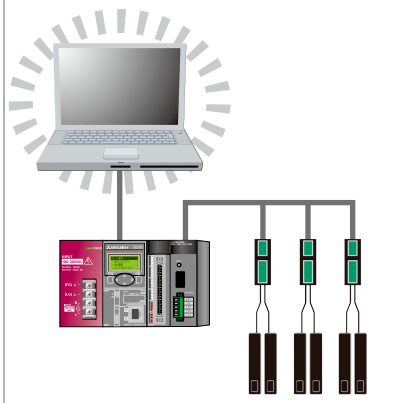
PLC | Servo | Inverter | Robot | CNC

Support iQSS-compatible devices

Support maintenance work

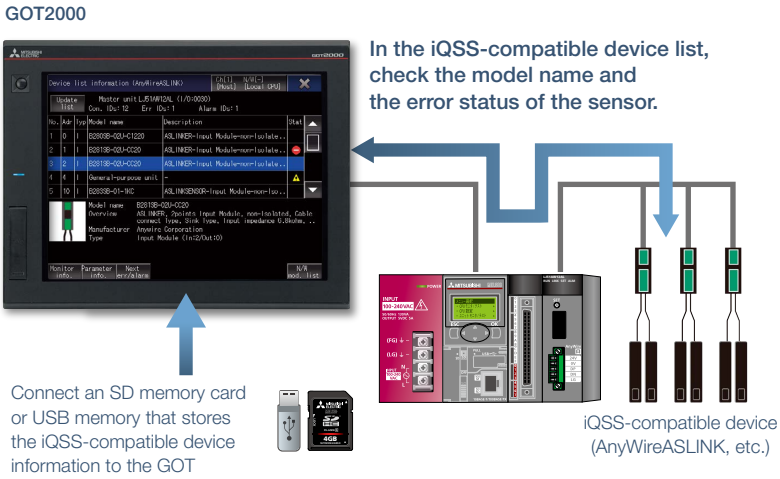
■ iQSS utility function

Having problems?



How can I check the status of iQSS-compatible devices without a personal computer?

GOT will solve your problems!

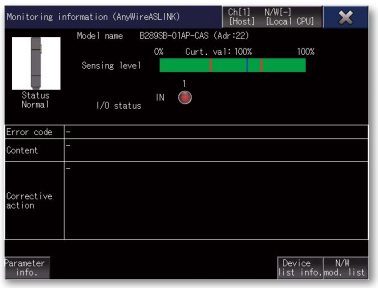


Check the iQSS-compatible device (AnyWireASLINK, etc.) status and parameter information on the GOT without a personal computer.

Function features

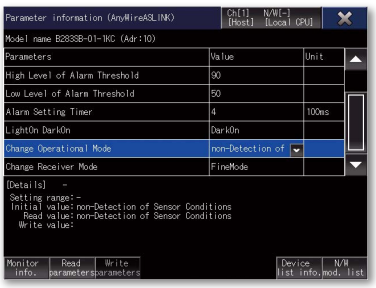
Just enable the iQSS utility function to automatically generate monitoring screens. There is no need to create monitoring screens for every sensor and thus you can reduce time for startup, operation, and maintenance of the sensor system.

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

* For the necessary option devices, please refer to the “Function list” (page 122).

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

● **Supported connection types*1** Ethernet connection*2, direct CPU connection*3, serial communication connection, CC-Link IE Controller Network connection*5, CC-Link IE Field Network connection*4, CC-Link connection, bus connection*5, MELSECNET connection*5

*1 For the details of connectable models of each connection type, please refer to the “Connectable model list” (page 126).

*2 L02SCPU or L02SCPU-P cannot be used.

*3 When connecting the GOT with the LCPU, use L6ADP-R2.

*4 Cannot be used to connect a Q00JCPU, Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU or Q25HCPU.

*5 RCPU and LCPU are not supported.

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

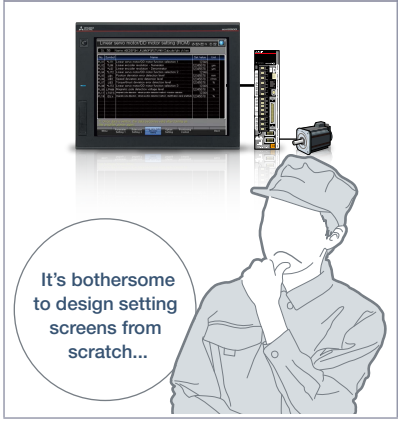
PLC | Servo | Inverter | Robot | CNC

Support screen design

Support system design

■ Standard screen samples

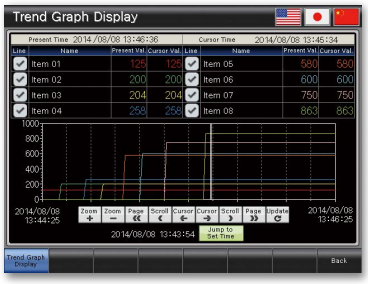
Having problems?



Now we have HMIs but it's hard to design screens from scratch.

GOT will solve your problems!

Standard screens are grouped into 17 categories by purpose.
Frequently used screens are available as sample screens.

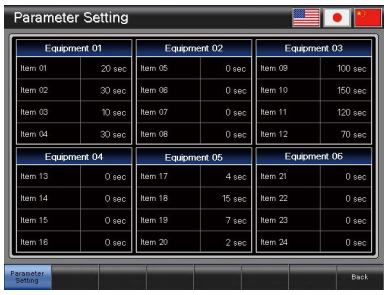


Trend graph display (7 patterns)

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

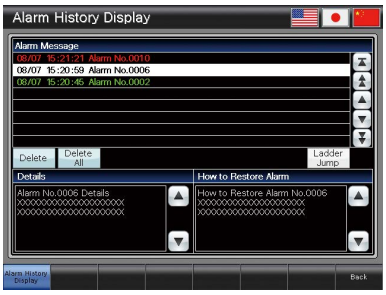


Parameter setting (3 patterns)

Displays set items and enables input of set values for various parameters

Manual operation (6 patterns)

Executes ON/OFF operations of signals (bit devices)

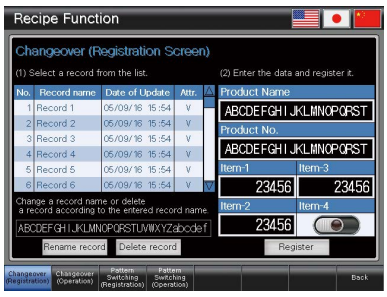


Alarm history (2 patterns)

Displays alarms in the history format and enables checking of the details and recovery methods of a selected alarm

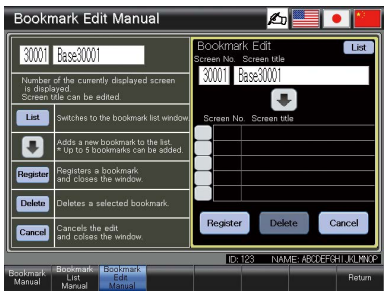
■ Function samples

These are sample screens that you can feel GOT2000 recommended functions.



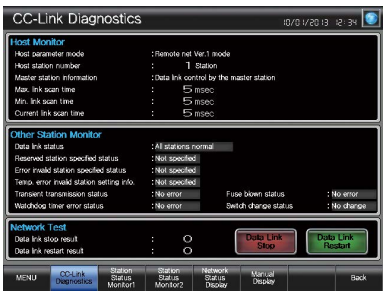
Recipe

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

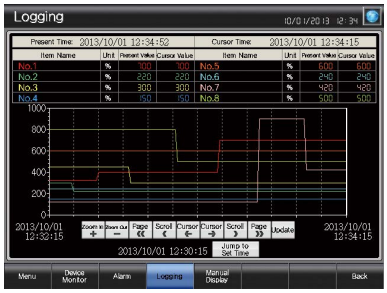
- **Other standard screen samples** I/O signal display, numerical data display, start-up condition display, operation ready signal display, interlock display, interlock setting, machine selection setting, alarm frequency display, alarm status display, current alarm display, home position return, cycle 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, etc.
- **How to obtain sample screens** Sample screens are included with 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

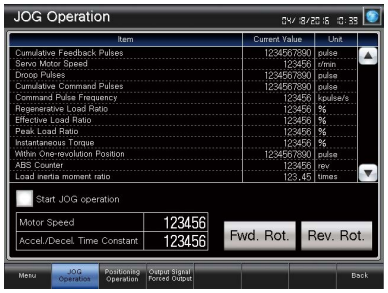
■ Connection samples

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

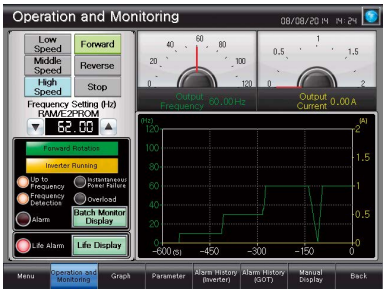
- MELSEC iQ-R Series R08CPU
- MELSEC iQ-F Series FX5U-32MCPU
- MELSEC-L Series L06CPU
- MELSEC-Q Series Q06UDEHCPU
- MELSEC-F Series FX3U-16MCPU



Mitsubishi Electric servo amplifier

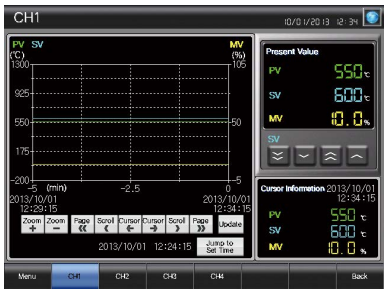
GOT Drive

- 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



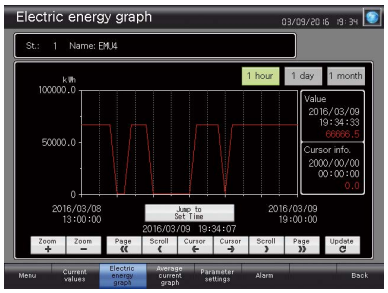
Mitsubishi Electric inverter

- FREQROL-A800 Series FR-A820-15K
- FREQROL-F800 Series FR-F820-15K
- 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

- Motion controller
- Simple Motion module
- Energy measuring unit EcoMonitorLight/ Electric multi-measuring instrument

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].

Select "Sample Project" as the Target on the Utilize Data screen

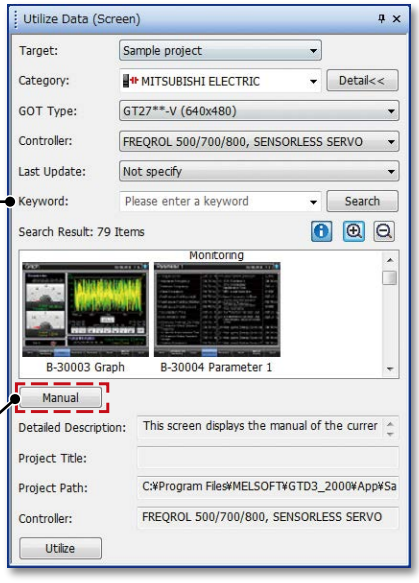
↓

Select or input (arbitrary) a keyword

↓

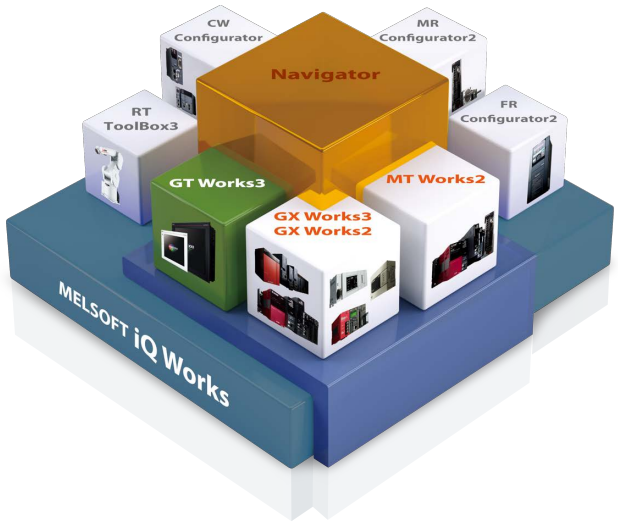
Select from the search results, and press the Utilize button

In the sample screen manual, check the details of settings and functions



FA Integrated Engineering Software
MELSOFT iQ Works

MELSOFT iQ Works is an integrated software suite consisting of GX Works3/GX Works2, MT Works2, GT Works3, RT ToolBox3*1, FR Configurator2, CW Configurator, and MR 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.

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.

Robot engineering software
MELSOFT RT ToolBox3*1

This robot setup software supports various steps from programming, to commissioning, evaluation, and maintenance. In addition, improved preventative maintenance is realized through the use of an integrated 3D robot simulator.

Programmable controller engineering software
MELSOFT GX Works3
MELSOFT GX Works2

This integrated programming and maintenance software for MELSEC programmable controllers includes many features such as graphic-based system configuration, an intuitive engineering environment solution, and backward compatibility of programs to enable the reduction of engineering costs.

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.

Inverter setup software
MELSOFT FR Configurator2

This software simplifies the setup and maintenance of AC Inverters. Parameters can be registered easily and distributed to multiple inverters when replacing, and activation of the PLC function all from one setup screen.

C Controller setting and monitoring tool
MELSOFT CW Configurator

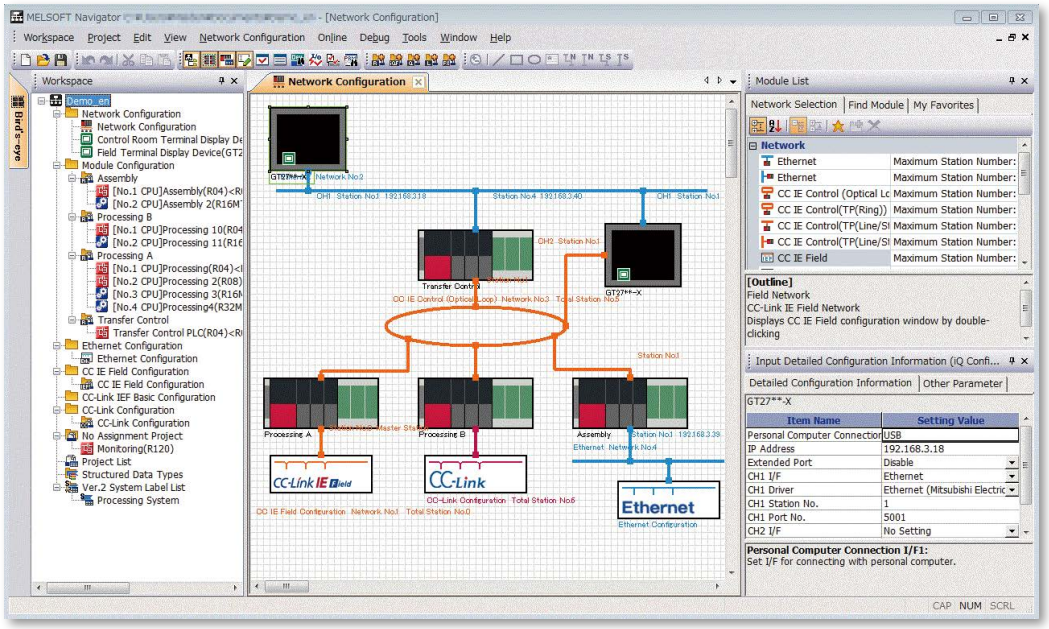
This software package enables parameter setup, module diagnosis and monitoring of C Controller modules. Using CW Configurator is as easy as using the MELSEC iQ-R engineering software GX Works3, which shares similar interfaces.

Servo setup software
MELSOFT MR Configurator2

By using this servo amplifier setup software, tuning, monitor display, diagnosis, reading/writing parameters, and test operations are easily performed on a personal computer.

*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

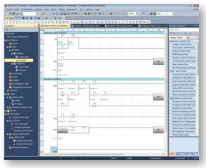
Share labels among projects

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.

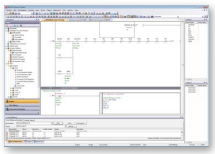
No need to set parameters for each tool*2

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.



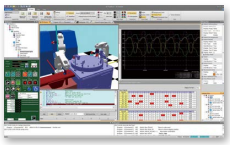
Programmable Controller Engineering Software MELSOFT GX Works3



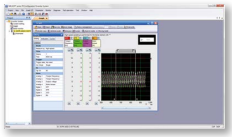
Programmable Controller Engineering Software MELSOFT GX Works2

Motion Controller Engineering Software MELSOFT MT Works2

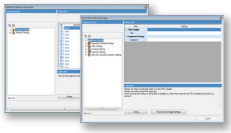
HMI/GOT Screen Design Software MELSOFT GT Works3



Robot Engineering Software MELSOFT RT ToolBox3*1



Inverter Setup Software MELSOFT FR Configurator2

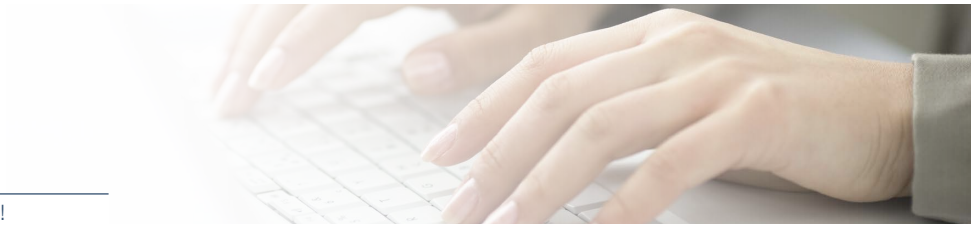


C Controller Setting and Monitoring Tool MELSOFT CW Configurator

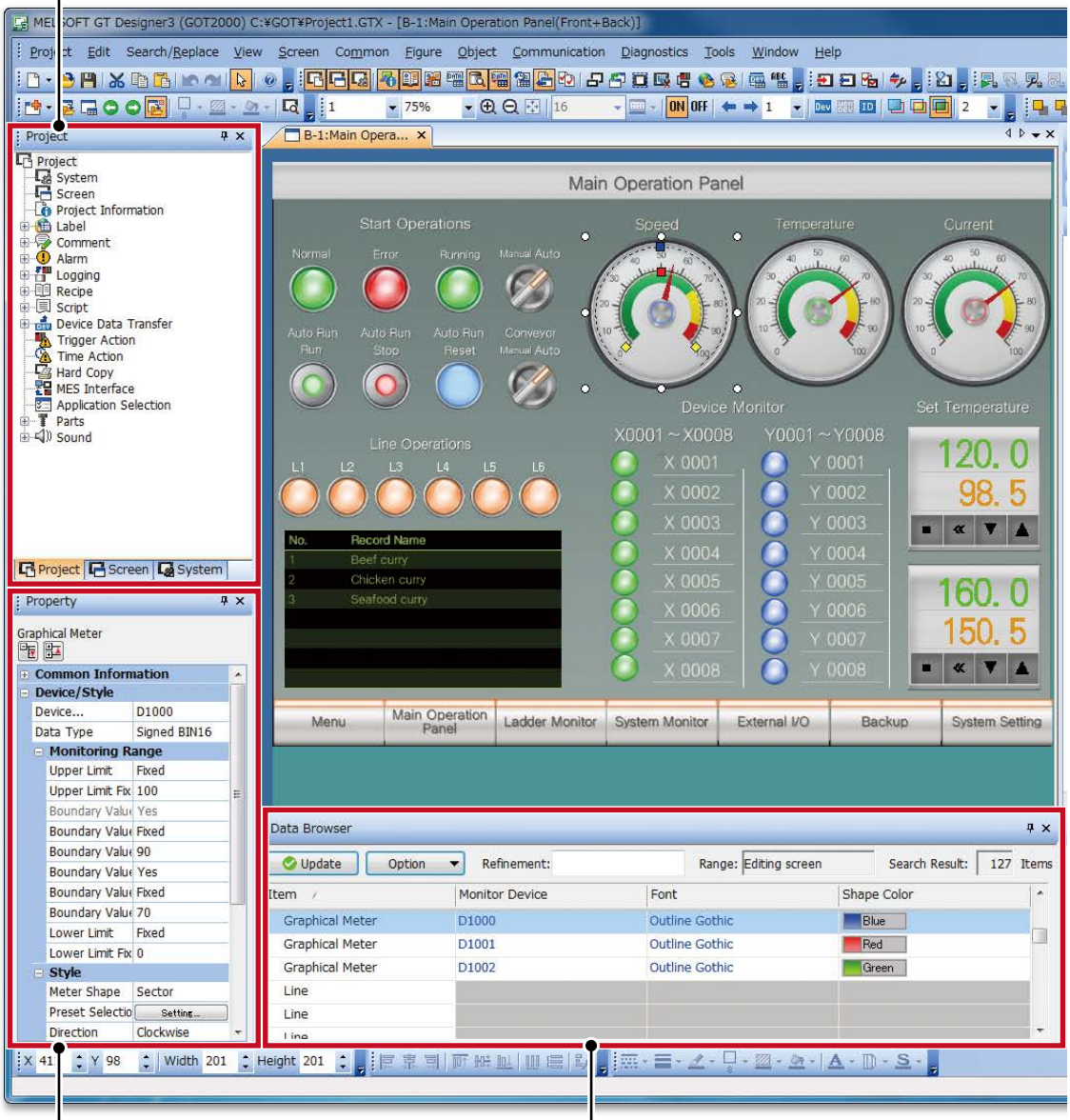
Servo Setup Software MELSOFT MR Configurator2

*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 make batch changes!
Property sheet

Easily check the settings!
Data browser

■ Support screen creation

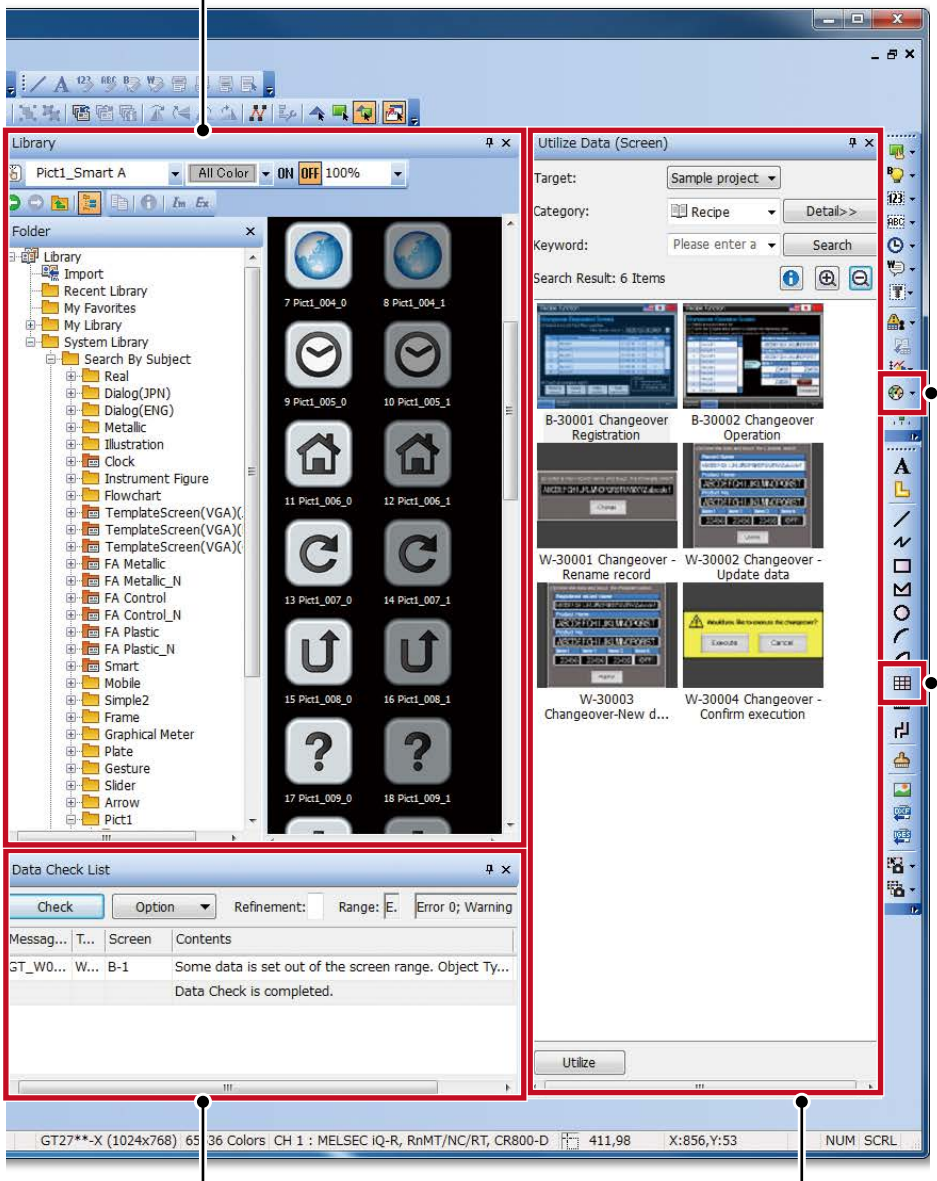
Screen design tips movie (Japanese)

■ Support debugging

■ Support globalization

Easily create stylish screens!

Library



Graphical meter

Create stylish, clear meters

Table

Easily create tables

Identify errors quickly!

Data check list

Search by keywords and effectively use data!

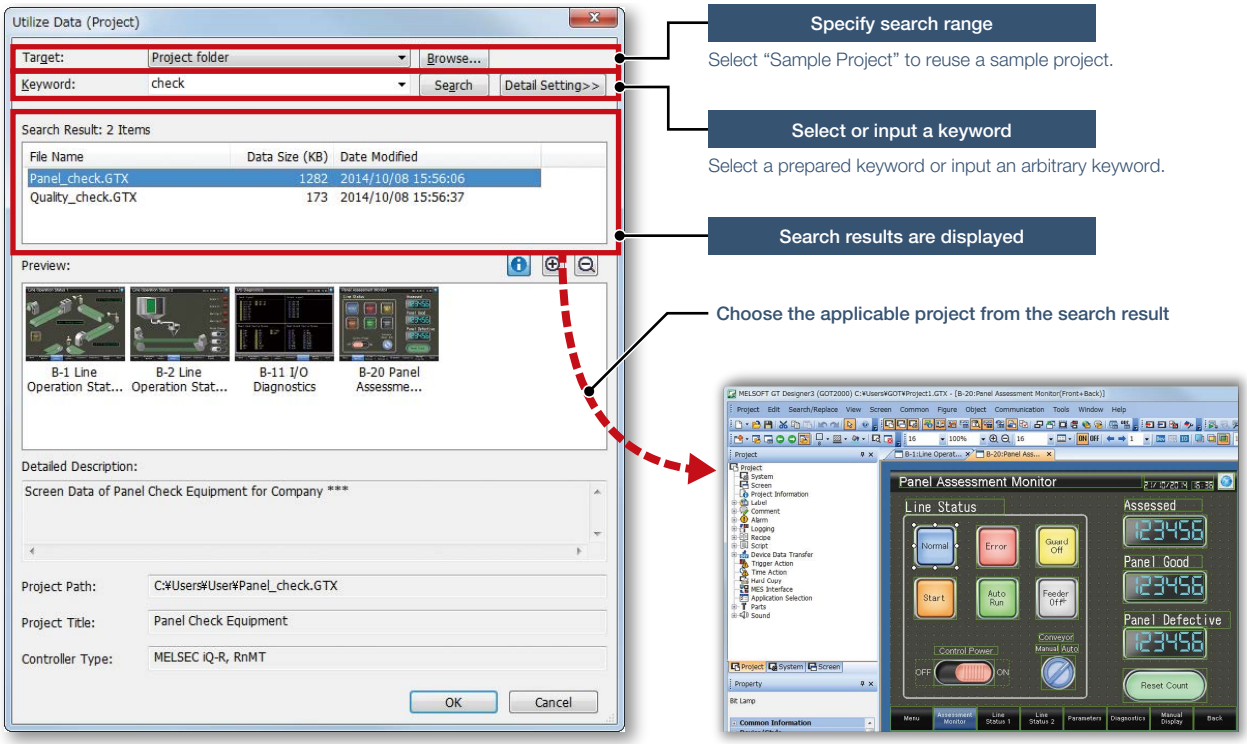
Utilize data (screen) window

Support screen creation

■ Utilize data

Reuse previous projects

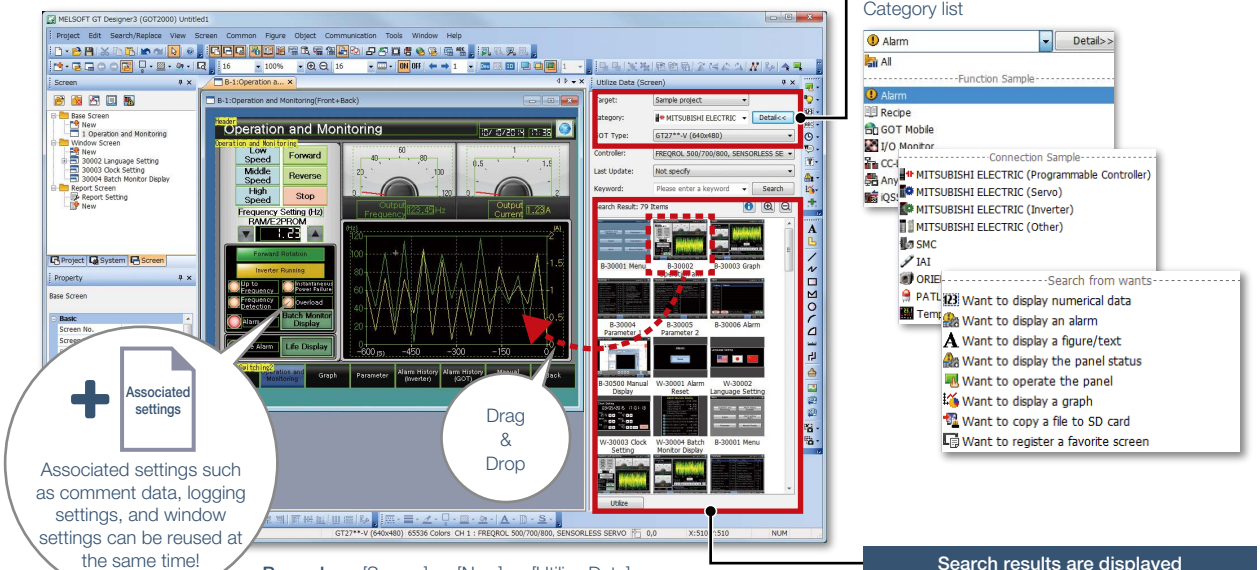
When creating a new project, search through the existing projects to find any existing projects that may be reused.
Keyword search helps narrow down the search.



Procedure: [Project] → [New] → [Utilize Data]

Reuse previous screens

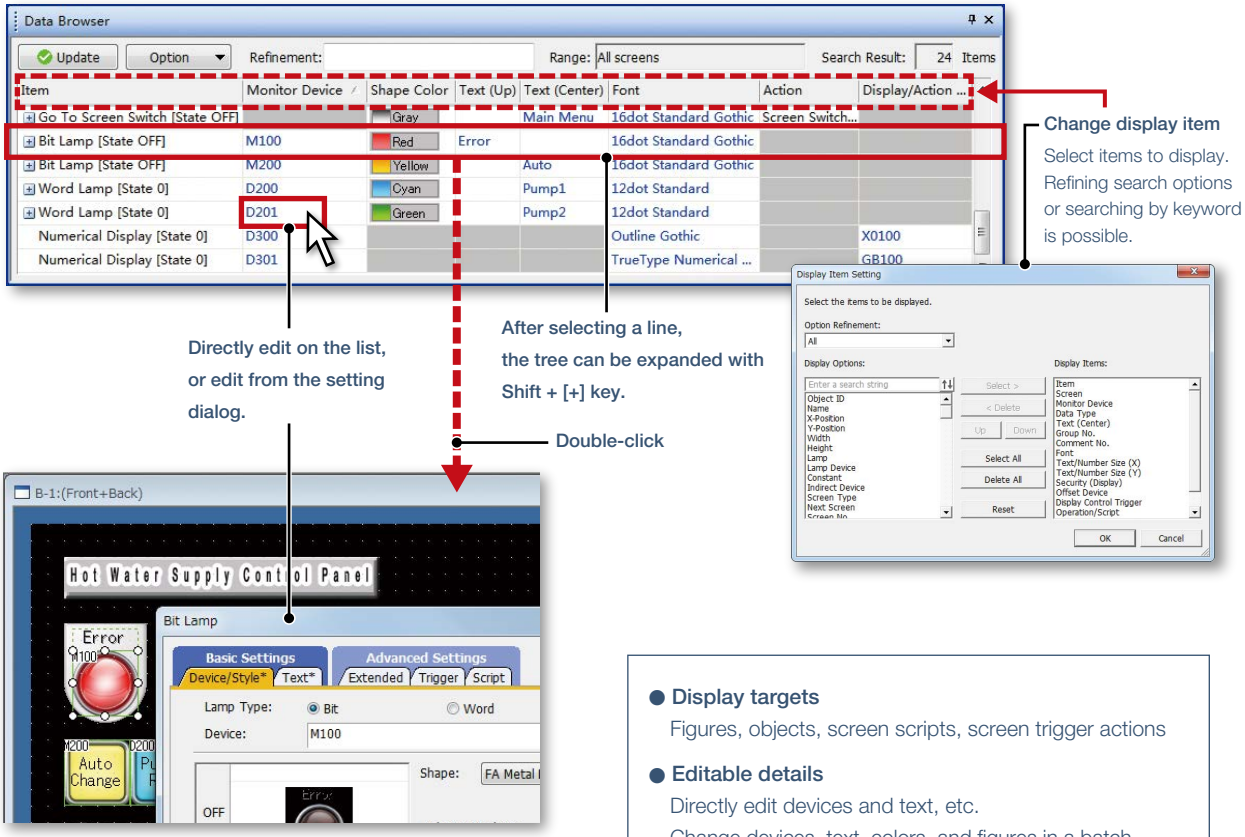
Reuse individual screens from past or sample projects. The settings are also applied and reused so that you can create project data easily.



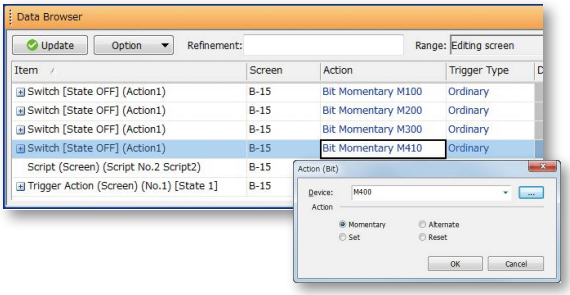
Procedure: [Screen] → [New] → [Utilize Data]
Shortcut key: Ctrl + Shift + F

■ 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.

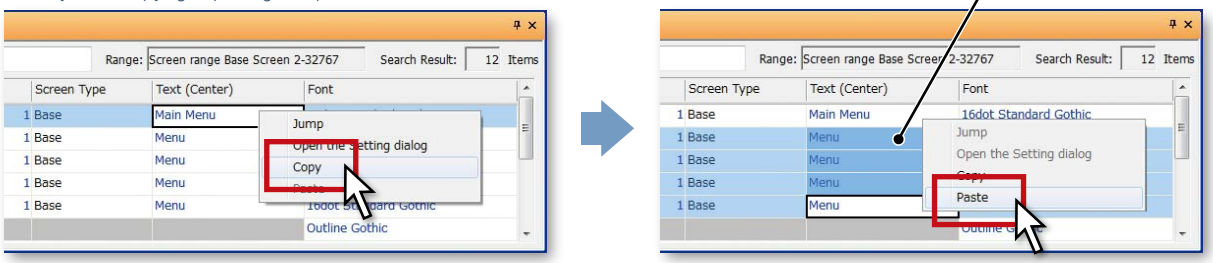


Example 1: Changing operation settings



- **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

Example 2: Copying or pasting multiple cells (change names of switches from "Menu" to "Main Menu" on multiple screens)



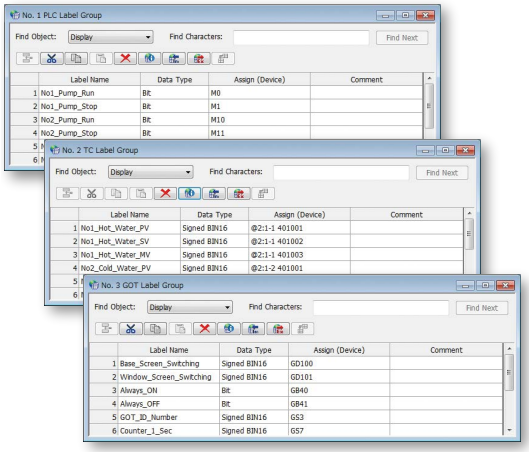
Procedure: [View] → [Docking Window] → [Data Browser]
Shortcut key: Ctrl + E

Support screen creation

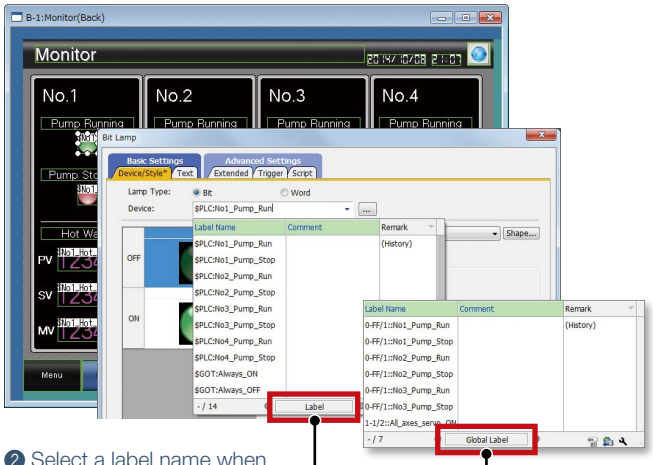
■ Label/Global label

<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.



❶ Set label names and assign devices



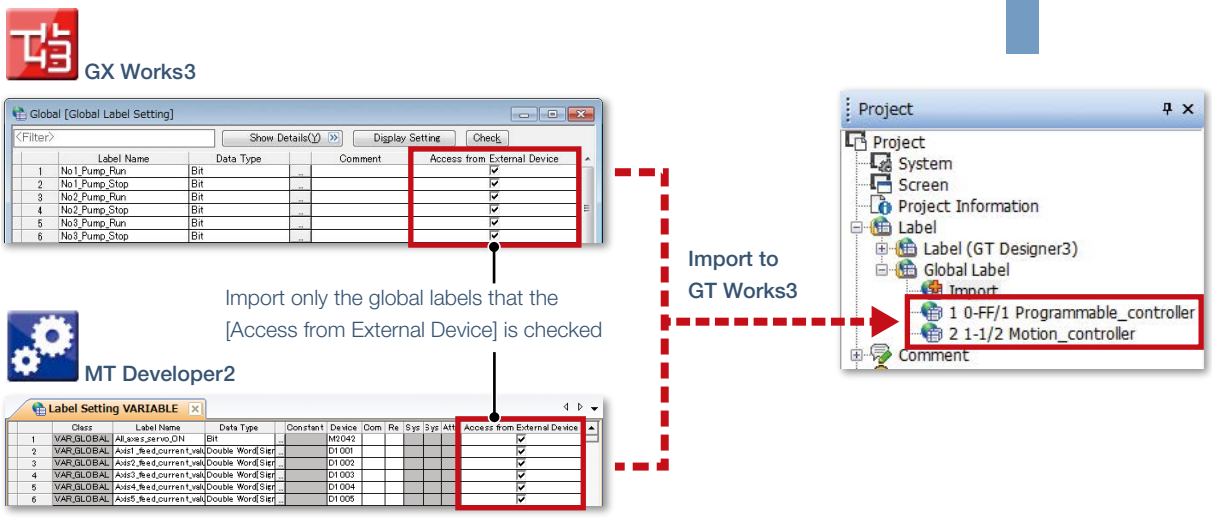
❷ Select a label name when setting objects (Direct input is also possible.)

Procedure: [Common] → [Label] → [New Label Group]

<Global label>

Global labels can be imported from GX Works3 and labels can be imported from MT Developer2. Arrays and structures are supported.

* Not supported by GT21.



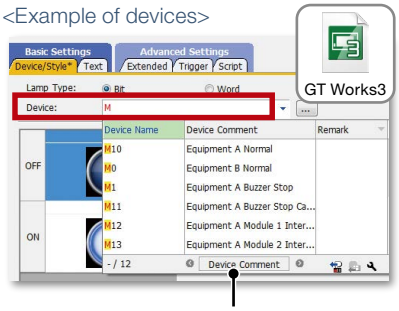
❶ Import global labels from the project tree

Procedure: [Project] window → [Label] → [Global label] → [Import]

■ Input assist

When setting your labels/devices, “Input Assist” provides a list of applicable labels/devices, complete with label comments, device comments, and device definitions.

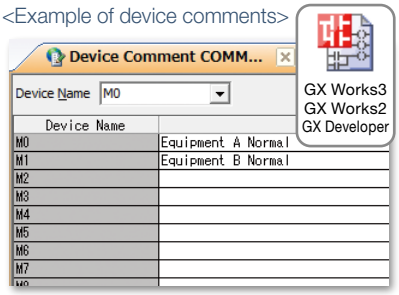
<Example of devices>



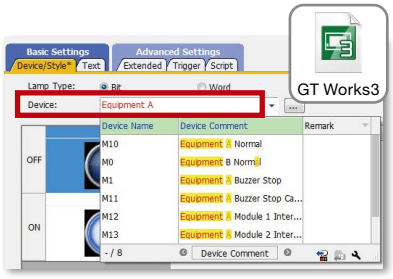
Switch display contents

❶ Input device name*
❷ Devices corresponding to the input device name are displayed from the devices preset in the project or from the history of recently set devices
❸ Select from the list and set the device

<Example of device comments>



❶ Import a device comment file of GX Works3/GX Works2/GX Developer

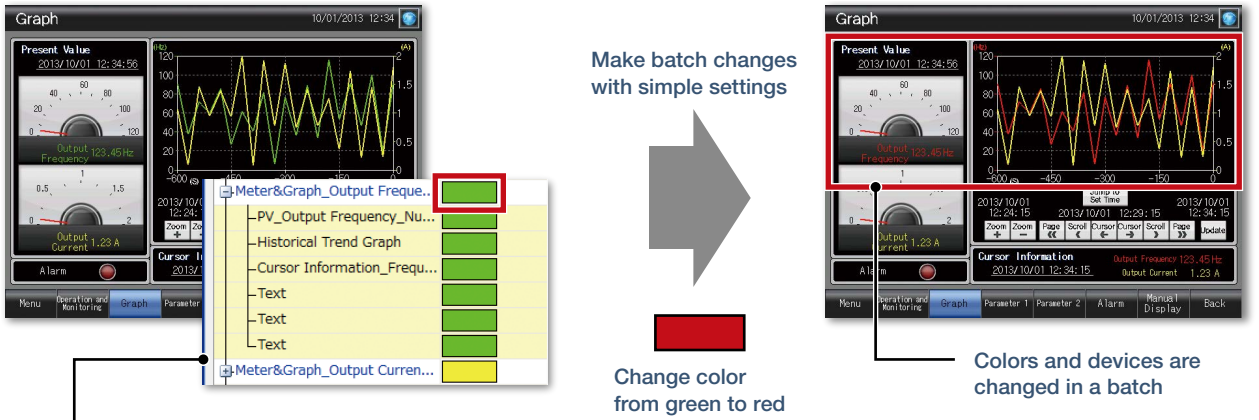


❷ Input a keyword
❸ The list shows the devices that have the input keyword in their device comments
❹ Select from the list and set the device

* When entering a device, it is possible to disable IME to enter only one-byte characters.
(Setting method: [Tools] → [Option] → [Turn off IME at the time of device input])
Procedure: List appears when entering a device

■ 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.



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

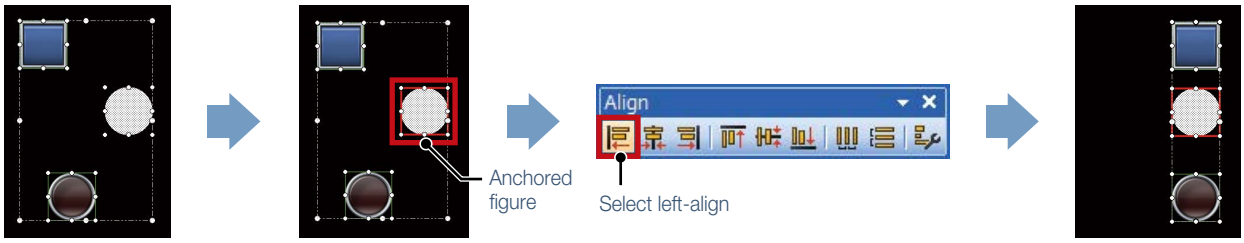
・Creating template
Procedure: Select object → Right-click → [Template Registration] → [Register to Template]

Support screen creation

NEW

■ Align

Selected figures and objects are aligned to the anchored figure or object according to the specified alignment type.



❶ Select multiple figures and objects

❷ Click (or double click) a figure or an object to use as an anchor

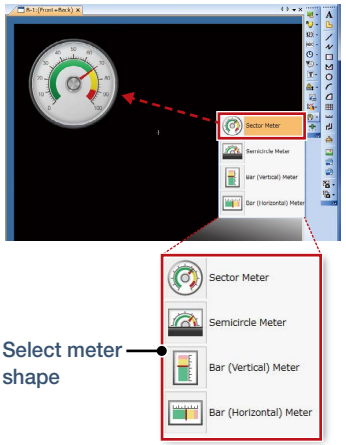
❸ Select alignment direction from the Align toolbar

❹ Alignment completed!

■ Graphical meter

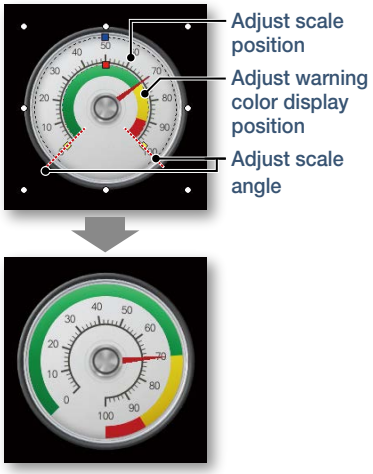
Just select a meter from the preset list and you can create stylish, clear meters. The position and angle of scales can be adjusted by mouse operation and the shape and design can be changed easily. Warning color display indicates the machine status clearly.

Select from the toolbar



Select from the preset list

Easy to adjust settings by mouse operation



Procedure: [Object] → [Graphical Meter]

■ Antialiasing

Antialiasing smoothes out jagged text edges and displays elegant characters. * Outline font only.

Antialiasing disabled

Antialiasing enabled

Procedure: [Common] → [GOT Type Setting] → [Enable the antialiasing to smooth jagged text edges]

Specification details and restrictions

- **Font usable with antialiasing** Outline font
- **Precautions when creating screens** When antialiasing is enabled, place the object using an outline font on the back layer. If you place such an object on the front layer, antialiasing may not be processed properly.

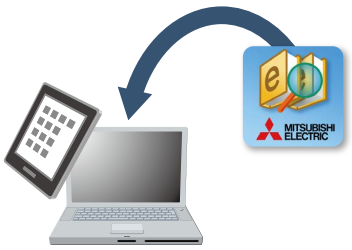
Concept movie

Windows® version

Tablet version

■ 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.



❶ Install e-Manual Viewer

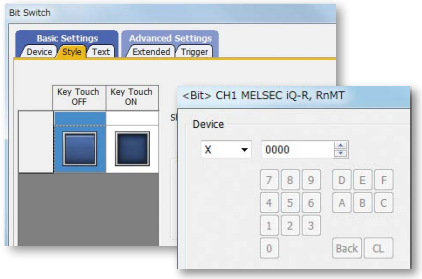
❷ Always download the latest manuals.
Easy to update with just one click!

❸ Increase your screen design efficiently

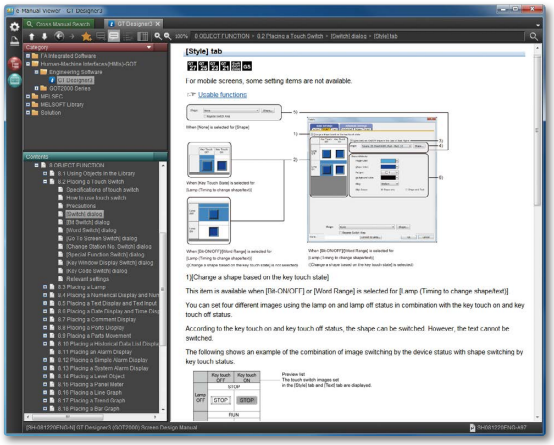
Quickly confirm with F1 key

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

Search required information from multiple manuals by keyword. You can get to the information you need without opening manuals one by one.

Procedure: [Help] → [GT Designer3 Help]
Shortcut key: F1

Bookmark

Bookmark frequently used manuals and pages and you can check the information quickly.

Note

Take a memo, such as know-how, and add it to the manual and you can customize manuals as you like.

* 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 with 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

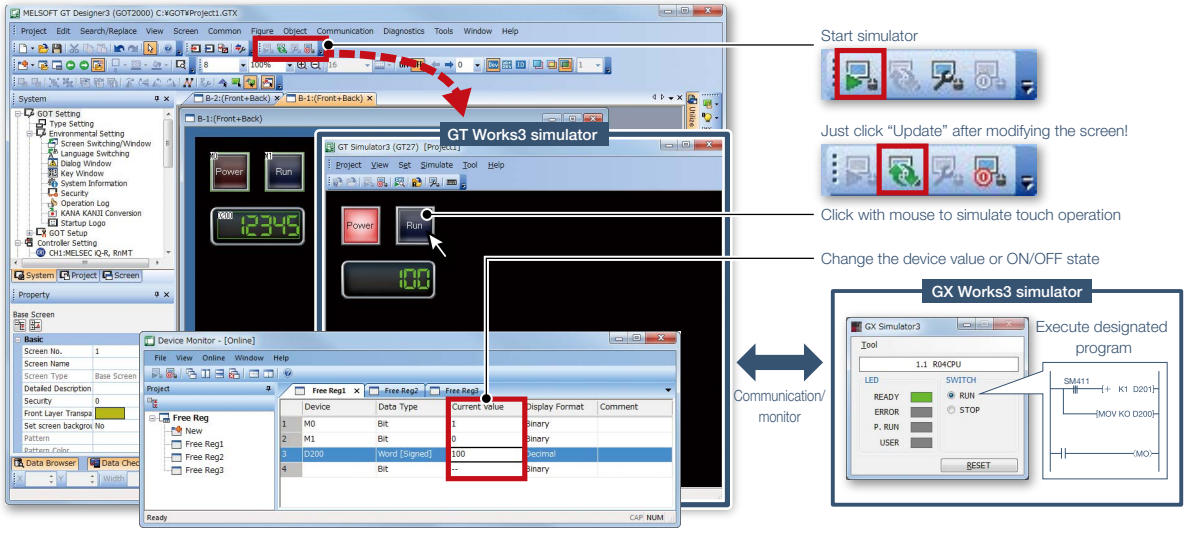
Tablet version (iOS)
* Japanese site

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.

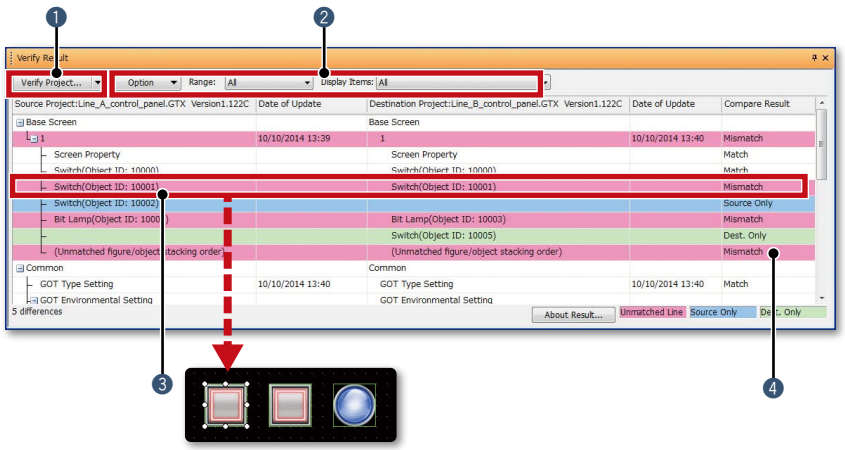
* GX Works3, GX Works2, GX Simulator, or MT Works2 is required separately. (It varies depending on the CPU to simulate.)



Procedure: [Tools] → [Simulator] → [Activate]
Shortcut key: Ctrl + F10

■ 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.

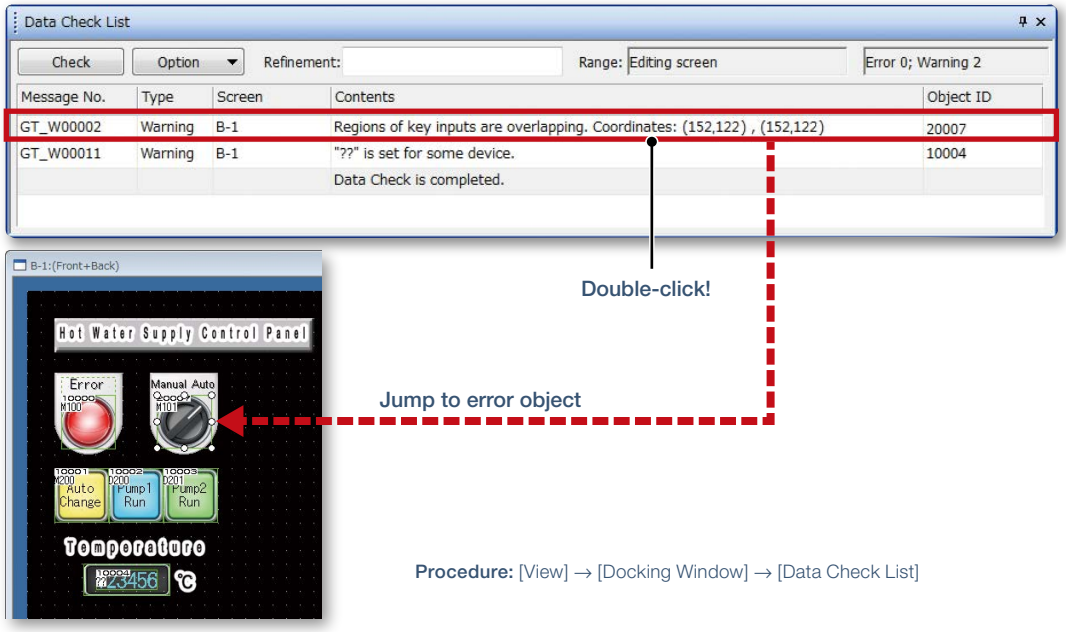


1. Verify Project (verifying the project being edited against one in a personal computer) and GOT Verification (verifying the project being edited against one in the GOT) are available.
2. Export of verified results and refinement by items such as screen type are possible.
3. Double-click on an error 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

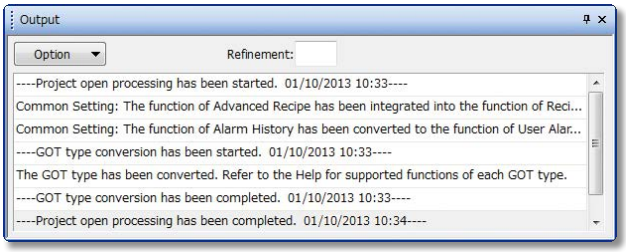
The touch switch quantity and overlapping state, object quantity and illegal devices are checked and the results are displayed as a list. Double-click on an error or warning line to jump to the corresponding object. Quickly identify errors and warning objects.



Procedure: [View] → [Docking Window] → [Data Check List]

■ Output window

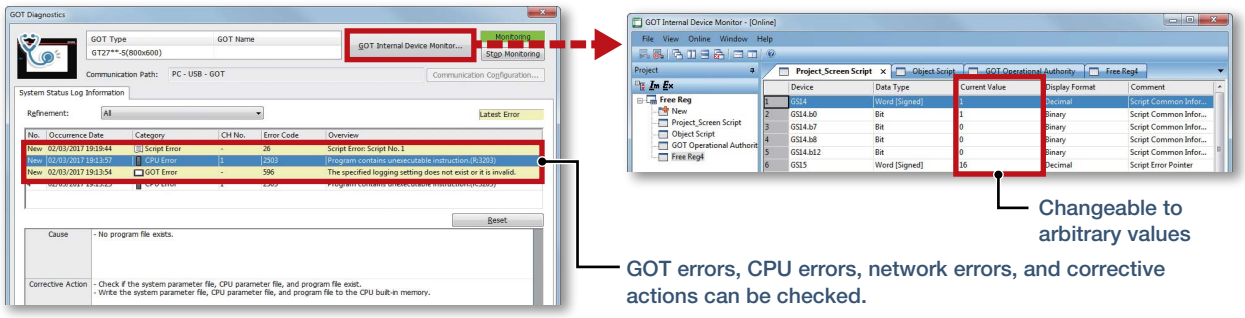
Messages indicating the progress of processes such as the GOT type conversion and utilizing other projects, errors and warnings are displayed as a list. Any incompatible functions found are displayed as warnings when opening the project data edited with a newer version of screen design software with an older version software.



Procedure: [View] → [Docking Window] → [Output]

■ GOT diagnostics

Without visiting worksites, you can use GT Works3 and check the system alarms and system errors. Monitoring and changing the values of GOT internal devices is supported. For the details, please refer to page 54.



Procedure: [Diagnosis] → [GOT Diagnostics]

Support globalization

NEW

■ Speech synthesis function

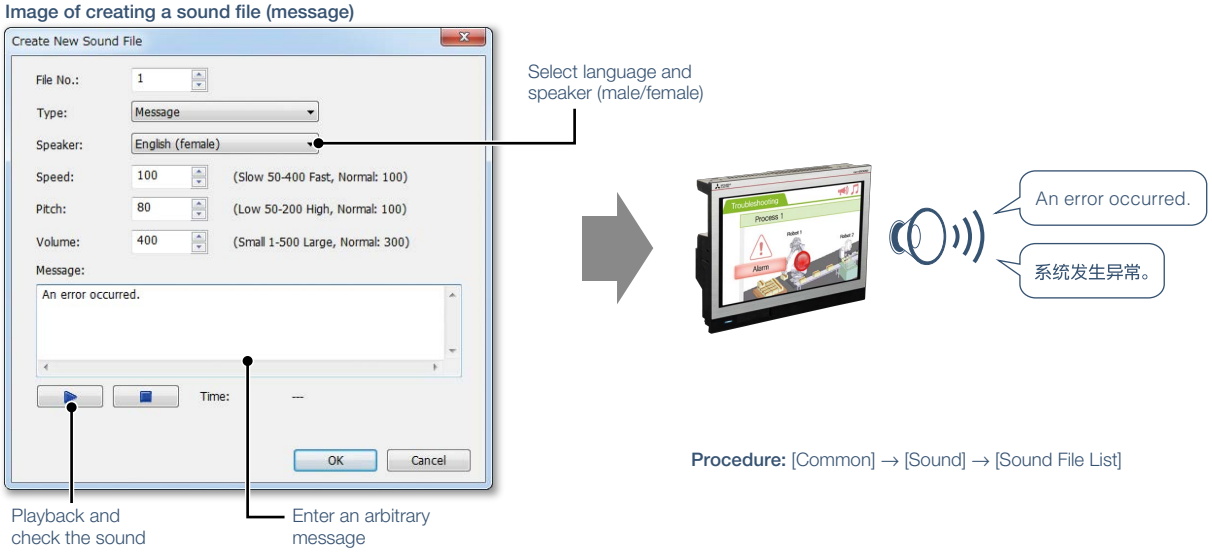
Just enter arbitrary text in GT Works3 to create a sound file. It is easy to create a sound file of a message that is needed to output sound on GOT. The speaker (female/male), language, speed, pitch, and volume of the voice can be set. Messages can be created in 6 languages and you can create the sound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

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

Supported language

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

Image of creating a sound file (message)

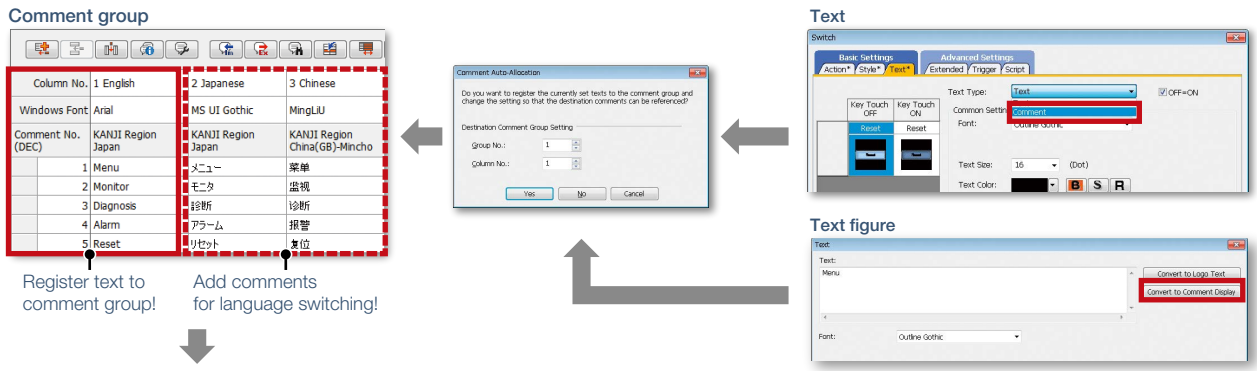


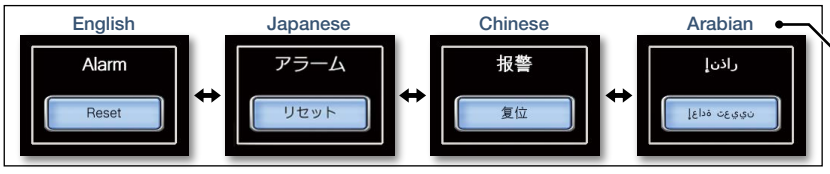
Procedure: [Common] → [Sound] → [Sound File List]

Upgraded

■ 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.





Comment group for easy language switching!

NEW

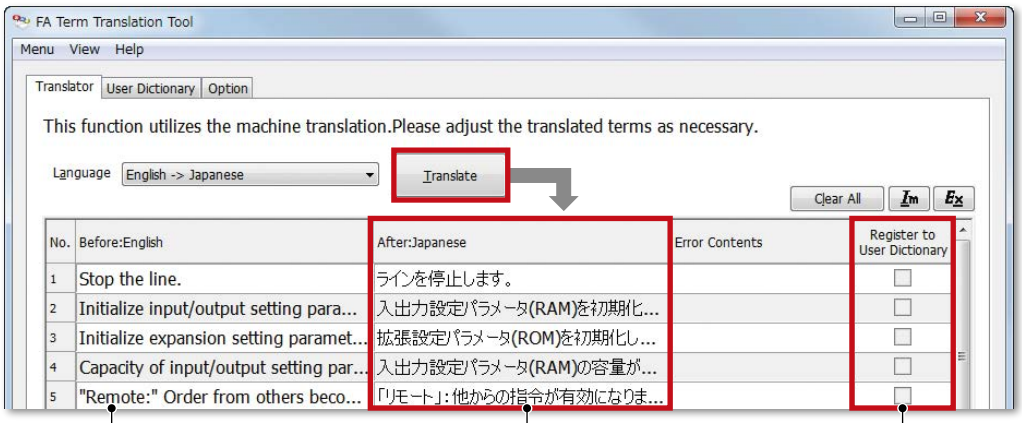
Various languages are supported because Windows fonts can be used for comment groups.

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

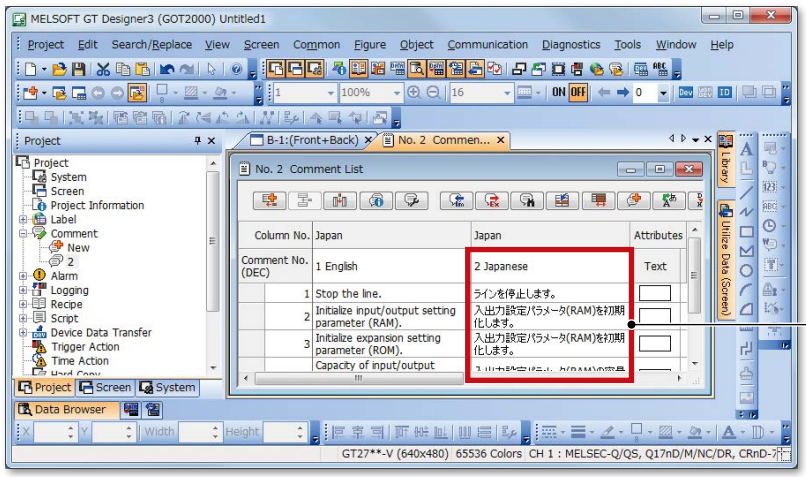


❶ Copy comments to translate (e.g. from GT Works3) and paste them to the FA Term Translation Tool window

❷ Translated results are displayed

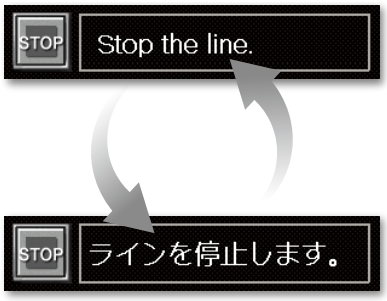
❸ Check a checkbox to save it to the dictionary

GT Works3



❹ Copy the comments translated with FA Term Translation Tool and paste them to where you want to use them (e.g. GT Works3).

❺ 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® 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 with 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

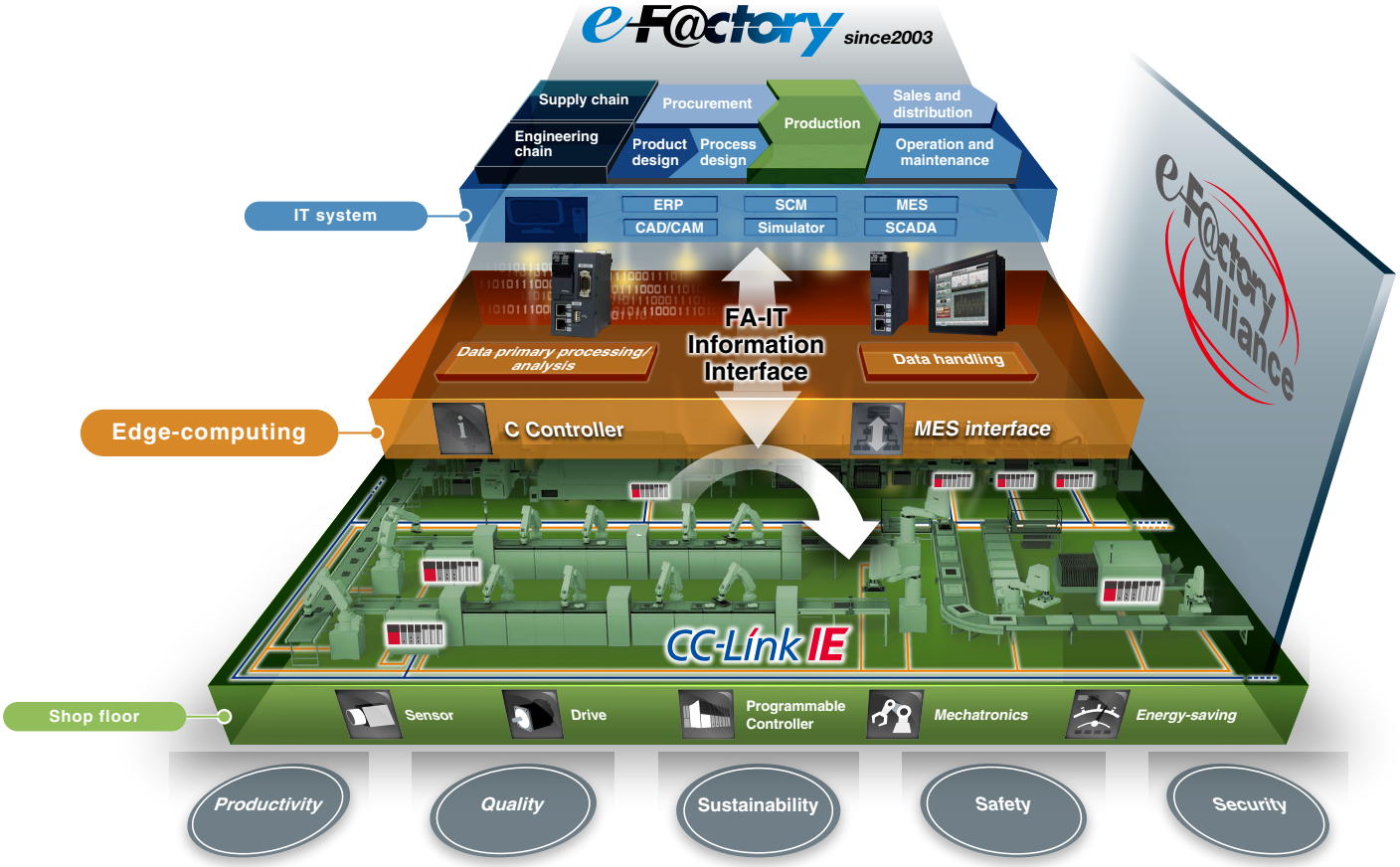
Reduce setup and maintenance costs

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

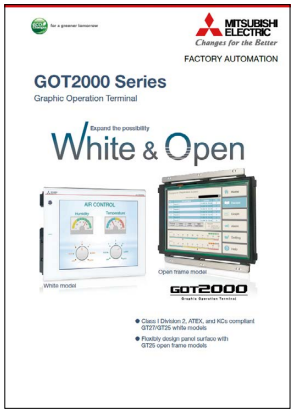
e-F@ctory Alliance

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 for various applications

GOT2000 Series Wide Model
L(NA)08461ENG



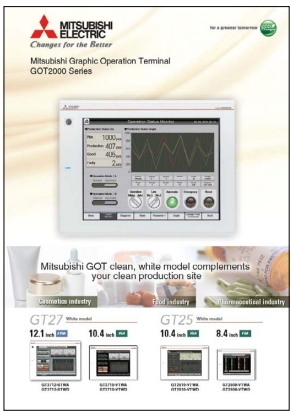
GOT2000 Series White & Open
L(NA)08414ENG

GT2104-RTBD New Product Release
L(NA)08362ENG

GT2103 New Product Release
HIME-L078

GOT2000 Series GT2505-VTBD
L(NA)08530ENG

GOT2000 Series Open Frame Model
L(NA)08392ENG



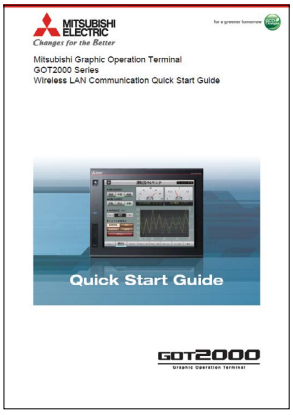
GOT2000 Series White Model
L(NA)08328ENG

GOT2000 Series
Ethernet Communication Unit
L(NA)08424ENG

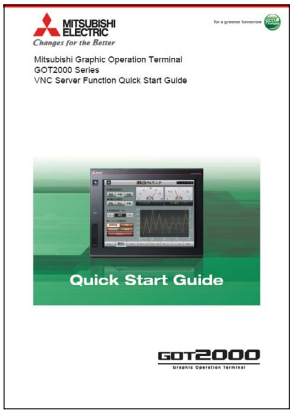
■ GOT2000 First Guide

GOT2000 Series Quick Start Guide
L(NA)08311ENG

GOT Mobile Function
Quick Start Guide
L(NA)08385ENG



GOT2000 Series
Wireless LAN Communication
Quick Start Guide
L(NA)08344ENG Coming soon



GOT2000 Series
VNC Server Function Quick Start Guide
L(NA)08346ENG Coming soon

Specifications, Product List, Support INDEX

Specifications

GT27

General specifications

Item	Specifications					
Operating ambient temperature *1	0 ºC to 55 ºC *2					
Storage ambient temperature	–20 ºC to 60 ºC					
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		Frequency	Acceleration	Half amplitude	Sweep count
		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/s²	—	
		Under continuous vibration	5 to 8.4 Hz	—	1.75 mm	—
			8.4 to 150 Hz	4.9 m/s²	—	
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 (147 m/s² (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 mm² 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/**).

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

*2 When any of the following units 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).

*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 the details, please contact your local sales office.

Performance specifications

Item		Specifications			
		GT2715-XTBA GT2715-XTBD	GT2712-STBA GT2712-STBD	GT2712-STWA GT2712-STWD	GT2710-STBA GT2710-STBD
Display section *1 *2	Display device	TFT color LCD			
	Screen size	15"	12.1"		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 *8 (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		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)
		Maximum transfer rate: High-Speed 480 Mbps Connector shape: USB-A			
	USB (device)	1 channel (front face)		1 channel (rear face)	1 channel (front face)
		Maximum transfer rate: High-Speed 480 Mbps Connector shape: USB Mini-B			
	SD memory card *12	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 October 2017)		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 Version1.180N 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				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								

Item		Specifications				
		GT2710-VTBA GT2710-VTBD	GT2710-VTWA GT2710-VTWD	GT2708-STBA GT2708-STBD	GT2708-VTBA GT2708-VTBD	GT2705-VTBD
Display section *1 *2	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) 12-dot standard font: 53 characters × 40 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)	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 *11	Type	Analog resistive film				
	Key size	Minimum 2 × 2 dots *8 (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)		
		Maximum transfer rate: High-Speed 480 Mbps Connector shape: USB-A				
	USB (device)	1 channel (front face)	1 channel (rear face)	1 channel (front face)		
		Maximum transfer rate: High-Speed 480 Mbps Connector shape: USB Mini-B				
	SD memory card *12	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 October 2017)		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		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 Version1.180N 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.

Specifications

GT25

* For the specifications of GT25 wide models, please refer to page 104.

General specifications

Item	Specifications					
Operating ambient temperature *1	0 ºC to 55 ºC *2 *7					
Storage ambient temperature	–20 ºC to 60 ºC					
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	—	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)					
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.					

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/**).

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

*2 When any of the following units 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). (Except for GT2505-VTBD)

*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 the details, please contact your local sales office.

*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.

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	Display device	TFT color LCD				
	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)	
		Maximum transfer rate: High-Speed 480 Mbps Connector shape: USB-A				
	USB (device)	1 channel (front face)	1 channel (rear face)	1 channel (front face)	1 channel (rear face)	
		Maximum transfer rate: High-Speed 480 Mbps Connector shape: USB Mini-B				
	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 *8 *10 Inside control panel: IP2X	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 October 2017)		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		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)	269(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 Version1.180N 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 GT2510-VTWA GT2510F-VTNA	GT2508-VTBA GT2508-VTWA GT2508F-VTNA	GT2512-STBD GT2512F-STND	GT2510-VTBD GT2510-VTWD GT2510F-VTND	GT2508-VTBD GT2508-VTWD GT2508F-VTND	GT2505-VTBD
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	8.4 W or less
	Main unit	14 W	12 W	11 W	13 W	10 W	8 W	4.3 W
	Main unit (backlight OFF)	7 W	7 W	7 W	6 W	6 W	6 W	2.6 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	Display device	TFT color LCD			
	Screen size	8.4"			5.7"
	Resolution	VGA: 640 × 480 dots			
	Display size	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) 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	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)	1 channel (rear face)		1 channel (rear face)
		Maximum transfer rate: High-Speed 480 Mbps Connector shape: USB-A			
	USB (device)	1 channel (front face)	1 channel (rear face)		1 channel (front face)
		Maximum transfer rate: High-Speed 480 Mbps Connector shape: USB Mini-B			
	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	Front: IP67F *7 *10 Inside control panel: IP2X
Safety standards, radio laws (as of October 2017)		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) × 194(7.64) (H) × 52(2.05) (D) mm(inch)		236(9.29) (W) × 185(7.28) (H) × 54(2.13) (D) mm(inch)	164(6.46) (W) × 139(5.47) (H) × 53.5(2.11) (D) mm(inch)
Panel cut dimensions		227(8.94) (W) × 176(6.93) (H) mm(inch)		194(7.64) (W) × 158(6.22) (H) mm(inch)	153(6.02) (W) × 121(4.76) (H) mm(inch)
Weight (excluding a fitting)		1.5(3.3) kg(lb)			0.6(1.3) kg(lb)
Compatible software package		GT Works3 Version1.180N 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 × 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.

Specifications

GT25 Wide

General specifications

Item	Specifications					
Operating ambient temperature *1	0 ºC to 55 ºC					
Storage ambient temperature	-20 ºC to 60 ºC					
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		Frequency	Acceleration	Half amplitude	Sweep count
		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/s²	—	
		Under continuous vibration	5 to 8.4 Hz	—	1.75 mm	—
			8.4 to 150 Hz	4.9 m/s²	—	
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 (147 m/s² (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 mm² 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/**).

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

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

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

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

Performance specifications

Item		Specifications	
		GT2510-WXTBD	GT2510-WXTSD
Display section *1 *2	Display device	TFT color LCD	
	Screen size	10.1" Wide	
	Resolution	WXGA: 1280 × 800 dots	
	Display size	216.96(8.54) (W) × 135.6(5.34) (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)	
	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
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 ºC)	
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 ºC)	
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)	
		Maximum transfer rate: High-Speed 480 Mbps Connector shape: USB-A	
	USB (device)	1 channel (front face)	
		Maximum transfer rate: 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)	
Buzzer output		Single tone (tone and tone length adjustable)	
POWER LED		2 colors (blue and orange)	
Protective structure *6		Front: IP67F *7 *9 Inside control panel: IP2X	
Safety standards, radio laws (as of October 2017)		CE, UL, cUL, EAC, KC	
External dimensions		252(9.92) (W) × 194(7.64) (H) × 48(1.89) (D) mm(inch)	
Panel cut dimensions		243.5(9.59) (W) × 185.5(7.30) (H) mm(inch)	
Weight (excluding a fitting)		1.2(2.6) kg(lb)	
Compatible software package		GT Works3 Version1.180N 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	
		GT2510-WXTBD GT2510-WXTSD	GT2507-WTBD GT2507-WTSD
Power supply voltage		24 V DC (+25%, -20%)	
Power consumption	Under the maximum load	16 W or less	
	Main unit	9 W	
	Main unit (backlight OFF)	5 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	

Item		Specifications	
		GT2507-WTBD	GT2507-WTSD
Display section *1 *2	Display device	TFT color LCD	
	Screen size	7" Wide	
	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 *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
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)	
Battery		GT11-50BAT lithium battery	
	Data to be backed up	SRAM data, clock data, system status log data	
	Life	Approx. 5 years (ambient temperature: 25 °C)	
Built-in interface	RS-232	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (male)	
	RS-422/485	1 channel Transmission speed: 115200, 57600, 38400, 19200, 9600, 4800 bps Connector shape: D-sub 9-pin (female)	
	Ethernet	2 channel Data transfer method: 100BASE-TX, 10BASE-T Connector shape: RJ-45 (modular jack)	
	USB (host)	1 channel (rear face)	
		Maximum transfer rate: High-Speed 480 Mbps Connector shape: USB-A	
	USB (device)	1 channel (front face)	
		Maximum transfer rate: 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)	
Buzzer output		Single tone (tone and tone length adjustable)	
POWER LED		2 colors (blue and orange)	
Protective structure *6		Front: IP67F *7 *9 Inside control panel: IP2X	
Safety standards, radio laws (as of October 2017)		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)		0.75(1.7) kg(lb)	
Compatible software package		GT Works3 Version1.180N or later	

*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.

*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.

Specifications

GT23

General specifications

Item	Specifications					
Operating ambient temperature *1	0 ºC to 55 ºC					
Storage ambient temperature	–20 ºC to 60 ºC					
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	Acceleration	Half amplitude	Sweep count
		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/s²	—	
		Under continuous vibration	5 to 8.4 Hz	—	1.75 mm	—
			8.4 to 150 Hz	4.9 m/s²	—	
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 (147 m/s² (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 mm² or more. If impossible, connect the ground cable to the control panel.					

Operate and store the GT 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/**).

*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.

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"	8.4"
	Resolution	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)
	Number of displayed 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	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 × 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		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		GT11-50BAT lithium battery (option)	
	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)	1 channel (rear face)	
		Maximum transfer rate: Full-Speed 12 Mbps Connector shape: USB-A	
	USB (device)	1 channel (rear face)	
		Maximum transfer rate: 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 October 2017)		CE, UL, cUL, EAC, KC	
External dimensions		303(11.93) (W) × 218(8.58) (H) × 56(2.20) (D) mm(inch)	241(9.49) (W) × 194(7.64) (H) × 56(2.20) (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)
Weight (excluding a fitting)		1.9(4.2) kg(lb)	1.5(3.3) kg(lb)
Compatible software package		GT Works3 Version1.180N 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

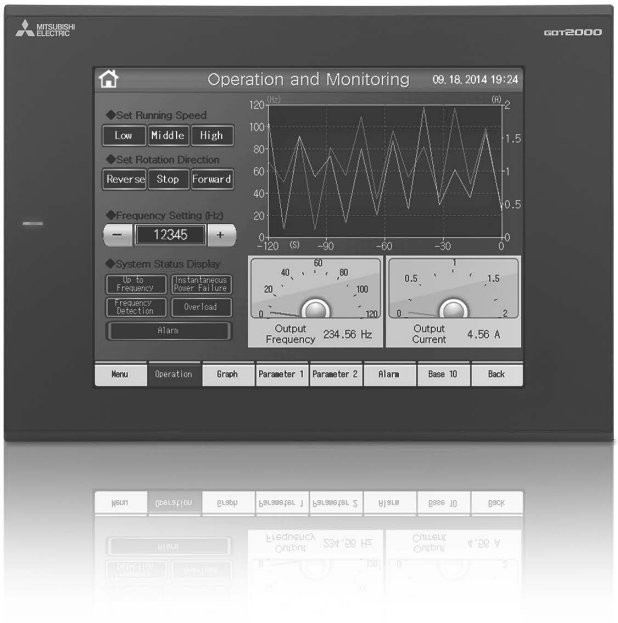
*8 The suffix "F" of IP67F is a symbol that indicates protection rate against oil. It is described in the Appendix of Japanese Industrial Standard JIS C 0920.

*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	16 W or less	11 W or less
	Main unit	15 W	9 W	13 W	8 W
	Main unit (backlight OFF)	8 W	6 W	7 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			



Specifications

GT21/GT21 Wide

General specifications

Item	Specifications					
Operating ambient temperature *1	0 °C to 55 °C (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	Acceleration	Half amplitude	Sweep count
		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/s²	—	
		Under continuous vibration	5 to 8.4 Hz	—	1.75 mm	—
			8.4 to 150 Hz	4.9 m/s²	—	
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 (147 m/s² (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	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 mm² (single wire), 0.14 to 1.0 mm² (stranded wire), or 0.25 to 0.5 mm² (rod terminal with an insulation sleeve). If impossible, connect the ground cable to the control panel.*6 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 mm² 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/**).

*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.

Performance specifications

Item		Specifications				
		GT2104-RTBD	GT2103-PMBD	GT2103-PMBDS	GT2103-PMBDS2	GT2103-PMBLS
Display section *1 *2	Display device	TFT color LCD	TFT monochrome LCD			
	Screen size	4.3"	3.8"			
	Resolution	480 × 272 dots	320 × 128 dots			
	Display size	95.0(3.74) (W) × 53.8(2.12) (H) mm(inch)	89.0(3.50) (W) × 35.6(1.40) (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)	16-dot standard font: 20 characters × 8 lines (two-byte characters) 12-dot standard font: 26 characters × 10 lines (two-byte characters)			
	Display color	65536 colors	Monochrome (black/white) 32 shade grayscale			
	Brightness adjustment	32 levels				
	Backlight	LED (not replaceable)	5-color LED (white, green, pink, orange, red) (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				
User memory	User memory capacity	Memory for storage (ROM) *12: 9 MB	Memory for storage (ROM) *12: 3 MB			
	Life (number of write times)	100000 times				
Battery		GT11-50BAT lithium battery	—			
	Data to be backed up	SRAM 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: 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)				
		Maximum transfer rate: 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 October 2017)		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)	105(4.13) (W) × 66(2.60) (H) mm(inch)			
Weight (excluding a fitting)		0.4(0.88) kg(lb)	0.2(0.44) kg(lb)			0.18(0.40) kg(lb)
Compatible software package		GT Works3 Version1.180N 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

Power supply specifications

Item		Specifications					
		GT2104-RTBD	GT2103-PMBD	GT2103-PMBDS	GT2103-PMBDS2	GT2103-PMBLS	GT2107-WTBD GT2107-WTSD
Power supply voltage		24 V DC (+10%, –15%)				5 V DC (+5%, –5%) Power from the PLC	24 V DC (+10%, -15%)
Power supply frequency		—					
Power consumption	Under the maximum load	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	11.3 W or less
	Main unit (backlight OFF)	2.9 W	2.0 W	1.3 W	1.6 W	0.7 W	7.0 W
Inrush current		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)			—	35 A or less (3 ms, ambient temperature: 25 °C, under the maximum load)
Permissible instantaneous power failure time		5 ms or less				—	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				—	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				—	500 V DC across power terminals and earth, 10 MΩ or more by an insulation resistance tester

Item		Specifications	
		GT2107-WTBD	GT2107-WTSD
Display section *1 *2	Display device	TFT color LCD	
	Screen size	7" Wide	
	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	SRAM 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)	
		Maximum transfer rate: Full-Speed 12 Mbps Connector shape: USB-A	
	USB (device)	1 channel (front face)	
		Maximum transfer rate: 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 October 2017)		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 Version1.180N or later	

*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
*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.
*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.

Specifications

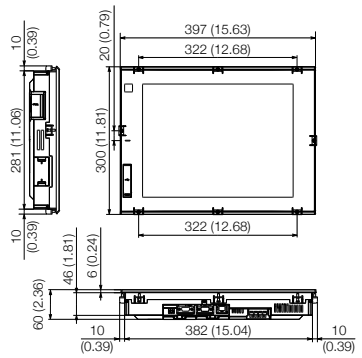
GT27/GT25

* For the external dimensions and panel cut dimensions of GT25 wide models, please refer to page 112.

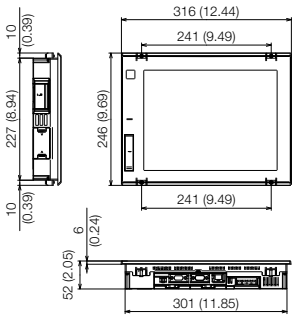
External dimensions

Unit: mm (inch)

GT2715

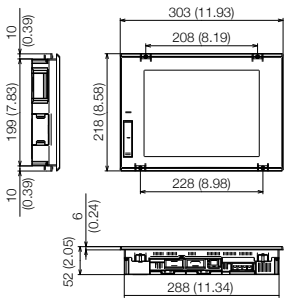


GT2712/GT2512

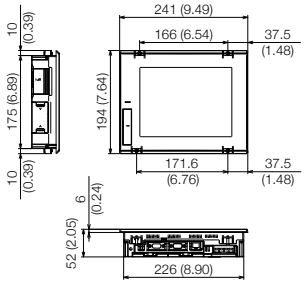


* Human sensor is on GT2712 only.

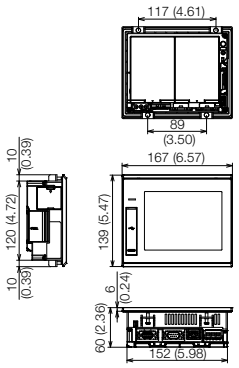
GT2710/GT2510-V



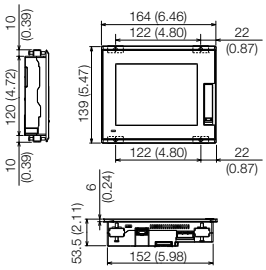
GT2708/GT2508



GT2705



GT2505

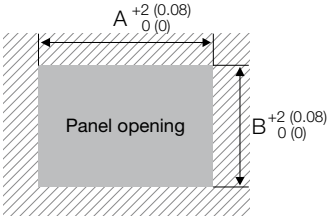


Panel cut dimensions

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.

GT27/GT25



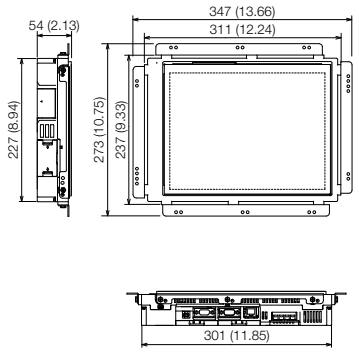
* Panel thickness: 1.6 mm to 4 mm (0.06 inch to 0.16 inch)

GT25 Open Frame

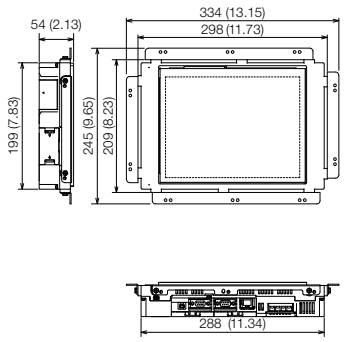
External dimensions

Unit: mm (inch)

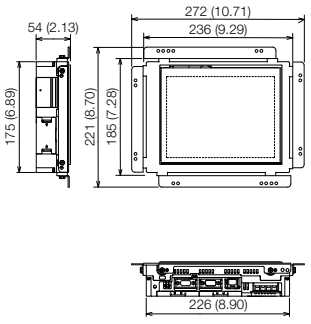
GT2512F



GT2510F



GT2508F



* 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))

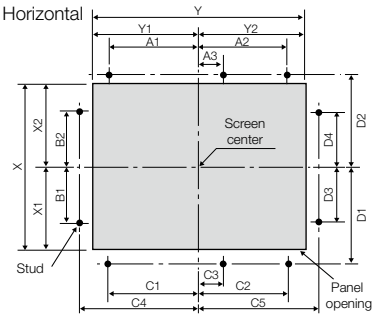
Screen size	Model	Distance between studs *				
		A1	A2	A3	B1	B2
12.1"	GT2512F	98(3.86)± 0.15(0.01)	113(4.45)± 0.15(0.01)	7.5(0.30)± 0.15(0.01)	75.5(2.97)± 0.15(0.01)	79.5(3.13)± 0.15(0.01)
10.4"	GT2510F	105.5(4.15)± 0.15(0.01)	105.5(4.15)± 0.15(0.01)	0(0)	58(2.28)± 0.15(0.01)	58(2.28)± 0.15(0.01)
8.4"	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)

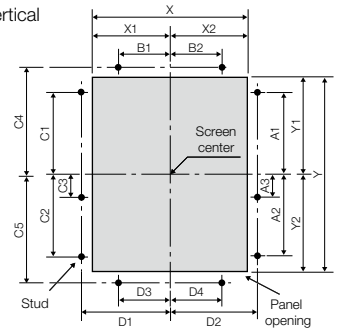
GT25 Open Frame

· Horizontal



Back of the control panel

· Vertical



Back of the control panel

* Panel thickness: 1.5 mm to 4 mm (0.06 inch to 0.16 inch)

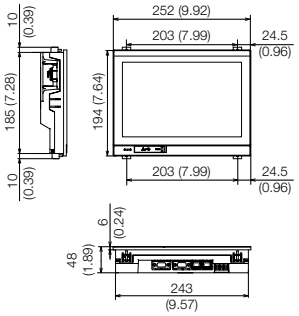
* To mount the GOT on the control panel, studs are necessary. Align the studs with the installation holes of the fittings, and install the studs.
The fittings must be installed on the top and bottom, or the right and left of the GOT. For GT2512F, you are recommended to install the fittings on the long sides of the GOT.

GT25 Wide

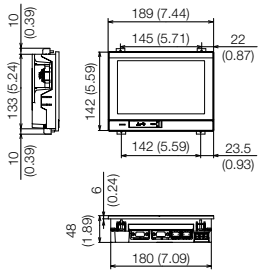
External dimensions

Unit: mm (inch)

GT2510-WX



GT2507-W

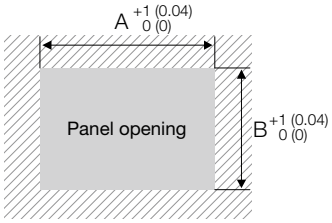


Panel cut dimensions

Unit: mm (inch)

Screen size	Model	A	B	Remarks
10.1" Wide	GT2510-WX	243.5 (9.59)	185.5 (7.30)	—
7" Wide	GT2507-W	180.5 (7.11)	133.5 (5.26)	—

GT25 Wide



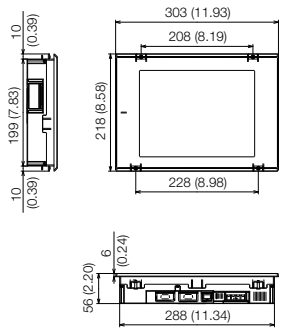
* Panel thickness: 1.6 mm to 4 mm
(0.06 inch to 0.16 inch)

GT23

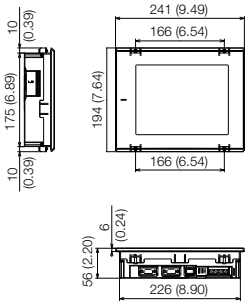
External dimensions

Unit: mm (inch)

GT2310



GT2308

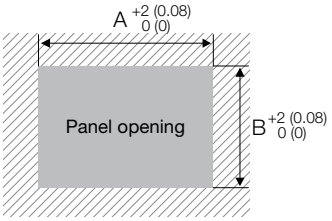


Panel cut dimensions

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.

GT23



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

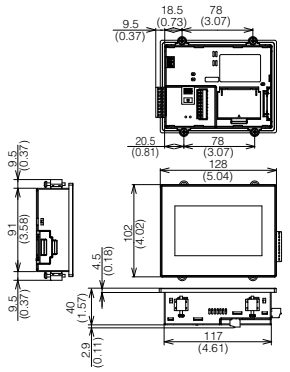
Specifications

GT21

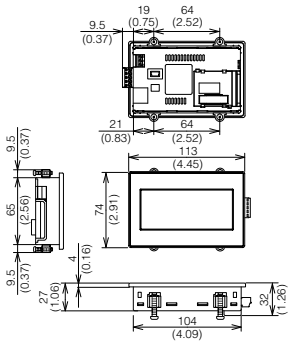
External dimensions

Unit: mm (inch)

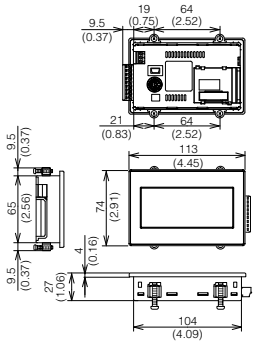
GT2104-RTBD



GT2103-PMBD



GT2103-PMBDS/GT2103-PMBDS2/GT2103-PMBLS

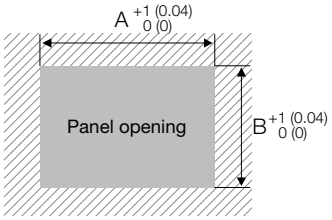


Panel cut dimensions

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.

GT21



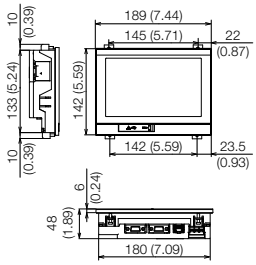
* Panel thickness: 1 mm to 4 mm (0.04 inch to 0.16 inch)

GT21 Wide

External dimensions

Unit: mm (inch)

GT2107-W

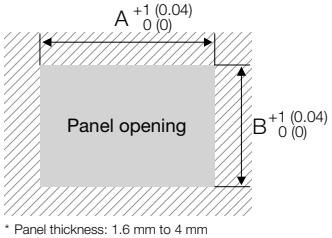


Panel cut dimensions

Unit: mm (inch)

Screen size	Model	A	B	Remarks
7" Wide	GT2107-W	180.5 (7.11)	133.5 (5.26)	—

GT21 Wide

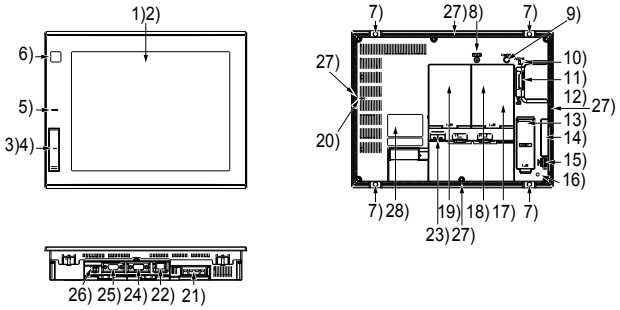


* Panel thickness: 1.6 mm to 4 mm (0.06 inch to 0.16 inch)

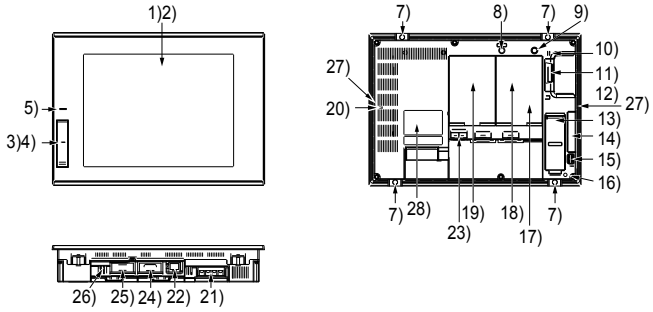
GT27

Components names

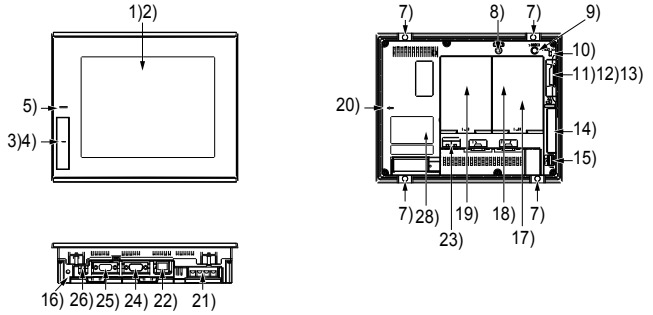
GT2715/GT2712



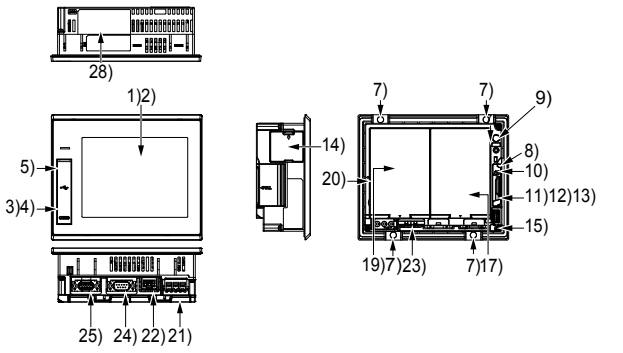
GT2710



GT2708



GT2705



1) Display section
2) Touch panel
3) USB interface (host/front face)
   * Excluding white model
4) USB interface (device/front face)
   * Excluding white model
5) POWER LED
6) Human sensor
   * GT2715, GT2712 only
7) Unit installation fitting
8) Reset switch
9) S.MODE switch
10) SD memory card access LED
11) SD memory card interface (inside the cover)
12) SD memory card cover
13) Battery (inside the cover)
14) Side interface (inside the cover)
15) USB interface (host/rear face)
16) Cable clamp mounting hole
17) Terminating resistor setting switch (inside the cover)
18) Auxiliary extension interface
   * GT27 only (excluding GT2705)
19) Extension interface
20) Vertical installation arrow mark
21) Power terminal
22) Ethernet interface
23) Ethernet communication status LED
24) RS-232 interface
25) RS-422/485 interface
26) USB interface (device/rear face)
   * White model only
27) Special fitting installation hole
   * White model only
   * Special fittings are sold separately
28) Rating plate

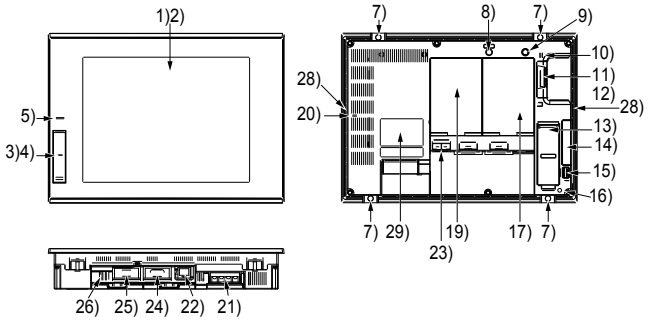
Specifications

GT25

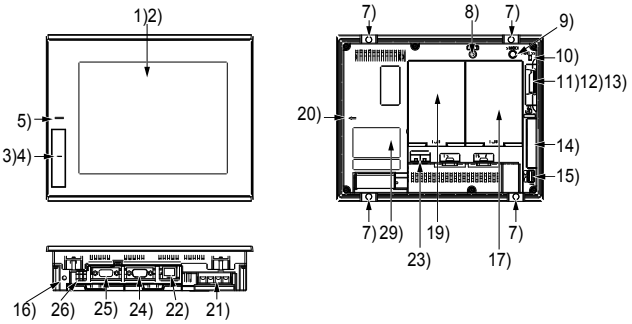
* For the components names of GT25 wide models, please refer to page 117.

Components names

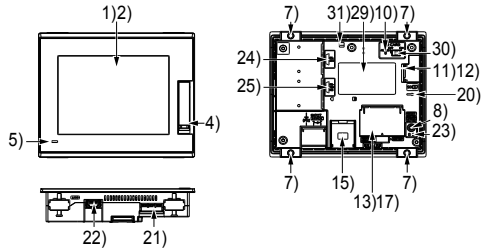
GT2512/GT2510-V



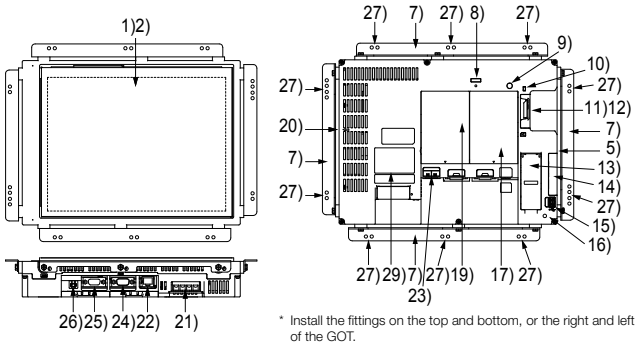
GT2508



GT2505

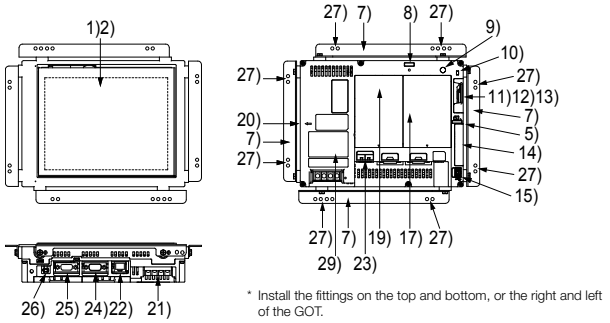


GT2512F/GT2510F



* Install the fittings on the top and bottom, or the right and left of the GOT.

GT2508F



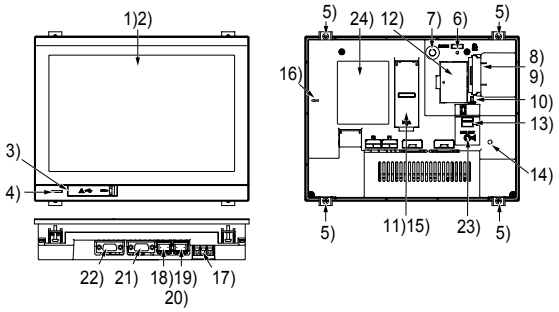
* Install the fittings on the top and bottom, or the right and left of the GOT.

1) Display section
2) Touch panel
3) USB interface (host/front face)
   * Excluding white model, open frame model, GT2505
4) USB interface (device/front face)
   * Excluding white model, open frame model
5) POWER LED
6) Human sensor
   * GT2715, GT2712 only
7) Unit installation fitting
8) Reset switch
9) S.MODE switch
   * Excluding GT2505
10) SD memory card access LED
11) SD memory card interface (inside the cover)
12) SD memory card cover
13) Battery (inside the cover)
14) Side interface (inside the cover)
   * Excluding GT2505
15) USB interface (host/rear face)
16) Cable clamp mounting hole
   * Excluding GT2505
17) Terminating resistor setting switch (inside the cover)
18) Auxiliary extension interface
   * GT27 only (excluding GT2705)
19) Extension interface
   * Excluding GT2505
20) Vertical installation arrow mark
21) Power terminal
22) Ethernet interface
23) Ethernet communication status LED
24) RS-232 interface
25) RS-422/485 interface
26) USB interface (device/rear face)
   * White model, open frame model only
27) Fitting installation hole
   * Open frame model only
28) Special fitting installation hole
   * White model only
   * Special fittings are sold separately
29) Rating plate
30) SD memory card access switch
   * GT2505 only
31) USB cable fixing hole
   * GT2505 only

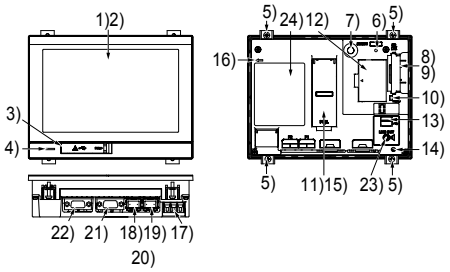
GT25 Wide

Components names

GT2510-WX



GT2507-W

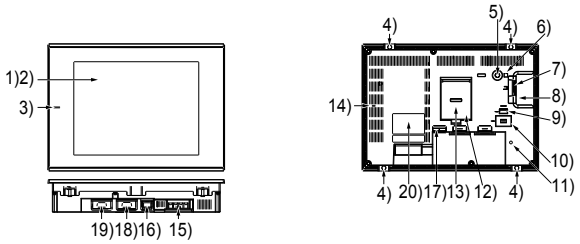


1) Display section
2) Touch panel
3) USB interface (device/front face)
4) POWER LED
5) Unit installation fitting
6) Reset switch
7) S.MODE switch
8) SD memory card interface (inside the cover)
9) SD memory card cover
10) SD memory card access LED
11) Battery (inside the cover)
12) Wireless LAN communication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

GT23

Components names

GT2310/GT2308

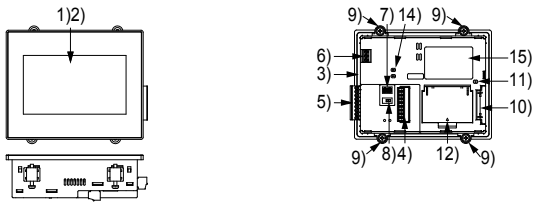


1) Display section
2) Touch panel
3) POWER LED
4) Unit installation fitting
5) S.MODE switch
6) SD memory card access LED
7) SD memory card interface (inside the cover)
8) SD memory card cover
9) USB interface (host)
10) USB interface (device)
11) Cable clamp mounting hole
12) Terminating resistor setting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

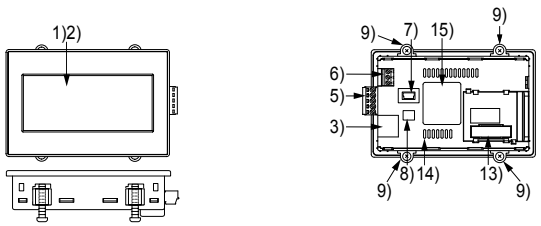
GT21

Components names

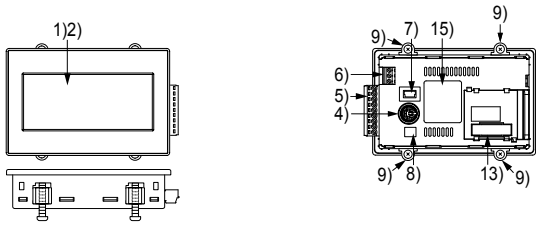
GT2104-RTBD



GT2103-PMBD



GT2103-PMBDS/GT2103-PMBDS2/GT2103-PMBLS

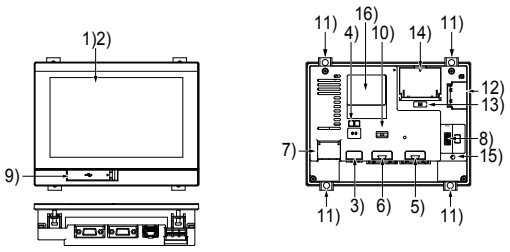


1) Display section
2) Touch panel
3) Ethernet interface
4) RS-232 interface
   * Excluding GT2103-PMBLS
5) RS-422/485 interface
   * RS-232 interface on GT2103-PMBDS2
   * RS-422 interface on GT2103-PMBLS
   (dedicated to FX connection)
6) Power terminal
   * Excluding GT2103-PMBLS
7) USB interface (device)
8) Terminating resistor setting switch
   * Excluding GT2103-PMBDS2, GT2103-PMBLS
9) Unit installation fitting
10) SD memory card interface (inside the cover)
    * Excluding GT2103
11) SD memory card access LED
12) Battery (inside the cover)
13) SD memory card unit connector (inside the cover)
    * GT2103 only (excluding GT2103-PMBLS)
14) Ethernet communication status LED
15) Rating plate

GT21 Wide

Components names

GT2107-W



1) Display section
2) Touch panel
3) Ethernet interface
4) Ethernet communication status LED
5) RS-232 interface
6) RS-422/485 interface
7) Power terminal
8) USB interface (host/rear face)
9) USB interface (device/front face)
10) Terminating resistor setting switch
11) Unit installation fitting
12) SD memory card interface (inside the cover)
13) SD memory card access LED
14) Battery (inside the cover)
15) Cable clamp mounting hole
16) Rating plate

Specifications

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 *2 *4 *6 *7 Microsoft® Windows® 10 (Home) (64 bit/32 bit) *1 *2 *4 *7 Microsoft® Windows® 8.1 (Enterprise, Pro) (64 bit/32 bit) *1 *2 *4 *5 *6 Microsoft® Windows® 8.1 (64 bit/32 bit) *1 *2 *4 *5 Microsoft® Windows® 8 (Enterprise, Pro) (64 bit/32 bit) *1 *2 *4 *5 *6 Microsoft® Windows® 8 (64 bit/32 bit) *1 *2 *4 *5 Microsoft® Windows® 7 (Ultimate, Enterprise, Professional) (64 bit/32 bit) *1 *2 *3 *4 Microsoft® Windows® 7 (Home Premium) (64 bit/32 bit) *1 *2 *4 Microsoft® Windows® 7 (Starter) (32 bit) *1 *2 Microsoft® Windows Vista® (Ultimate, Enterprise, Business, Home Premium, Home Basic) (32 bit) Service Pack1 or later *1 *2 Microsoft® Windows® XP (Professional, Home Edition) (32 bit) Service Pack3 or later *1 *2
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 Version1.180N or later

*1 For installation, the standard user or administrator account is required.
For installation on Windows® XP, the administrator authority is required.
To interact GT Designer3 with other MELSOFT applications which are used under the administrator authority, use GT Designer3 under the administrator authority.

*2 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)

*3 Windows XP Mode is not supported.

*4 The touch feature is not supported.

*5 Modern UI Style is not supported.

*6 Hyper-V is not supported.

*7 Tablet mode is not supported.

Operating environment

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 *8
OS (English, Simplified Chinese, Traditional Chinese, Korean, or German version)	Microsoft® Windows® 10 IoT Enterprise 2016 LTSB (64 bit) (English OPK, language pack installation is recommended for the language to be used) *1 *2 *4 *6 *11 *12 Microsoft® Windows® 10 (Enterprise, Pro) (64 bit/32 bit) *1 *2 *4 *6 Microsoft® Windows® 10 (Home) (64 bit/32 bit) *1 *2 *4 Microsoft® Windows® 8.1 (Enterprise, Pro) (64 bit/32 bit) *1 *2 *4 *5 *6 Microsoft® Windows® 8.1 (64 bit/32 bit) *1 *2 *4 *5 Microsoft® Windows® 8 (Enterprise, Pro) (64 bit/32 bit) *1 *2 *4 *5 *6 Microsoft® Windows® 8 (64 bit/32 bit) *1 *2 *4 *5 Microsoft® Windows® 7 (Ultimate, Enterprise, Professional) (64 bit/32 bit) *1 *2 *3 *4 Microsoft® Windows® 7 (Home Premium) (64 bit/32 bit) *1 *2 *4 Microsoft® Windows® 7 (Starter) (32 bit) *1 *2 Microsoft® Windows Vista® (Ultimate, Enterprise, Business, Home Premium, Home Basic) (32 bit) Service Pack1 or later *1 *2 Microsoft® Windows® XP (Professional, Home Edition) (32 bit) Service Pack3 or later *1 *2 Microsoft® Windows® XP Embedded (32 bit) *1 *2 *7
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 *9	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 *10 The following software is required for interaction with PX Developer. • PX Developer Version1.40S or later • GT Designer3 Version1.105K or later *10 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
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 with another application that runs with administrator authority, GT SoftGOT2000 must also run with administrator authority.

*2 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)

*3 Windows XP Mode is not supported.

*4 Only tapping operation is available.

*5 Modern UI Style is not supported.

*6 Hyper-V is not supported.

*7 For using the PPC-852-22F, GT SoftGOT2000 can be used on the PPC-852-22F with the OS preinstalled only.

*8 Refer to the manual of the PC CPU module to be used.

*9 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.

*10 Use GT Designer3 included in GT Works3 that contains GT SoftGOT2000.

*11 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

*12 The environments that use the following lockdown features are not supported.
• UWF (Unified Write Filter)
• Assigned Access
• USB Filter
• Layout Control
• AppLocker
• Shell Launcher

Specifications

Function list

For 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 NEW
Hardware specifications	Screen size	15"		●	—	—
		12.1"		●	●	—
		10.4"		●	●	—
		10.1" Wide NEW		—	—	●
		8.4"		●	●	—
		7" Wide NEW		—	—	●
		5.7"		●	● NEW	—
		4.3"		—	—	—
		3.8"		—	—	—
	Resolution	WXGA 1280 × 800 NEW		—	—	●
		XGA 1024 × 768		●	—	—
		SVGA 800 × 600		●	●	—
		WVGA 800 × 480 NEW		—	—	●
		VGA 640 × 480		●	●	—
		Other		—	—	—
	Color	65536 colors		●	●	●
		Monochrome (black/white) 32 shade grayscale		—	—	—
	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
		Memory for operation (RAM)		Other than below: 128 MB GT2705: 80 MB	80 MB	128 MB
	Interface	RS-232		●	●	●
		RS-422/485		●	●	●
		Ethernet	(Communication units)	● 2 ports by installing communication unit	● 2 ports by installing communication unit *17	● 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
Screen design	Figure/object functions	Figure		●	●	●
		Logo text		●	●	●
		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	●	●	●
	Functions performed on background of GOT	Logging	(SD memory card or USB memory, battery)	●	●	●
		Recipe	(SD memory card or USB memory)	●	●	●
		Device data transfer		●	●	●
		Trigger action		●	●	●
		Time action	(SD memory card or USB memory)	●	●	●
		Hard copy: File output	SD memory card or USB memory	●	●	●
		Hard copy: Serial printer output		●	●	●
		Hard copy: PictBridge printer output	Printer unit	●	● *17	—
		Project script, Screen script		●	●	●
		Object script		●	●	●

*1 Necessary units when using GT27, GT25, GT25 wide, GT23, GT21, or GT21 wide 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.

For 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	GT21 Wide NEW	GT SoftGOT2000
Hardware specifications	Screen size	15"		—	—	—	
		12.1"		—	—	—	
		10.4"		●	—	—	
		10.1" Wide NEW		—	—	—	
		8.4"		●	—	—	
		7" Wide NEW		—	—	●	
		5.7"		—	—	—	
		4.3"		—	●	—	
		3.8"		—	●	—	
	Resolution	WXGA 1280 × 800 NEW		—	—	—	Flexible resolution 640 to 1920 × 480 to 1200
		XGA 1024 × 768		—	—	—	
		SVGA 800 × 600		—	—	—	
		WVGA 800 × 480 NEW		—	—	●	
		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	GT2104-R: 9 MB GT2103-P: 3 MB	15 MB	57 MB
		Memory for operation (RAM)		9 MB	—	—	—
	Interface	RS-232		●	●	●	● *12
		RS-422/485		●	●	●	● *12
		Ethernet	(Communication units)	●	●	●	● *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		●	●	●	●
		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		●	● NEW	●	●
		Level		●	●	●	●
		Panelmeter		●	●	●	●
		Slider		●	●	●	●
		Document display	SD memory card	—	—	—	●
	Functions performed on background of GOT	Logging	(SD memory card or USB memory, battery)	●	● *6	●	●
		Recipe	(SD memory card or USB memory)	●	● *16	●	●
		Device data transfer		●	●	●	●
		Trigger action		●	●	●	●
		Time action	(SD memory card or USB memory)	●	●	●	●
		Hard copy: File output	SD memory card or USB memory	●	● *6	●	●
		Hard copy: Serial printer output		●	● *6	●	● *2
		Hard copy: 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 126), "Product list" (page 146), 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 (GT21-03SDCD) 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.

Function list

For 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 NEW
Screen design	Functions used with peripheral devices	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	—
		RGB output function		RGB output unit	● *8	—	—
		Report function	Serial printer output	(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
		Server function, Client function			●	●	●
		Mail send function			●	●	●
		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)
		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 GT2505: rotate 90° to right)	● (Rotate 90 ° to left)
Maintenance functions		Device monitor			●	●	●
		Sequence program monitor (iQ-R ladder)		SD memory card or USB memory	●	●	●
		Sequence program monitor (Ladder)		SD memory card or USB memory	●	●	●
		Sequence program monitor (SFC)		SD memory card or USB memory	●	●	●
		Network monitor			●	●	●
		CC-Link IE Field Network diagnostics NEW			●	●	●
		Intelligent module monitor			●	●	●
		Drive recorder		(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 NEW			●	● *17	—
		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			●	●	●
		iQSS utility		SD memory card or USB memory	●	●	●
		System launcher			●	●	●
		System launcher (servo network) NEW			●	●	●
		MELSEC-L troubleshooting			●	●	●

*1 Necessary units when using GT27, GT25, GT25 wide, GT23, GT21, or GT21 wide 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.

For 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	GT21 Wide NEW	GT SoftGOT2000
Screen design	Functions used with peripheral devices	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	—	—	—	●
		RGB output function		RGB output unit	—	—	—	—
		Report function	Serial printer output	(SD memory card or USB memory)	●	● *6	●	● *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			—	—	—	●
		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)	● *6 2 channels (No units can be mounted)	● 2 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)	● (Rotate 90 ° to right)	● (Rotate 90 ° to left)	—
Maintenance functions		Device monitor			●	●	●	—
		Sequence program monitor (iQ-R ladder)		SD memory card or USB memory	—	—	—	—
		Sequence program monitor (Ladder)		SD memory card or USB memory	—	—	—	—
		Sequence program monitor (SFC)		SD memory card or USB memory	—	—	—	—
		Network monitor			—	—	—	—
		CC-Link IE Field Network diagnostics NEW			—	—	—	—
		Intelligent module monitor			—	—	—	—
		Drive recorder		(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 NEW			—	—	—	—
		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) NEW			—	—	—	—
		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, 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 126), "Product list" (page 146), 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 (GT21-03SDCD) 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.

Connectable model list (GOT2000)

◆ Mitsubishi Electric programmable controllers/C Controller modules/Safety controllers/Motion controllers

Series		Model name	Connection type																						
			GT27/GT25												GT23					GT21 *1				
			Ethernet connection	Direct CPU connection	Serial communication connection	CC-Link IE Controller Network connection *42	CC-Link IE Field 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	Multi-drop connection *5	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	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	○	×	○	○	○	○	×	×	×	×	×	○	×	○	×	×	○	×	○	×	×
	MELSEC-Q Series (Q mode)	High-speed type universal model QCPU: Q03UDVCPU Q04UDVCPU Q06UDVCPU Q13UDVCPU Q26UDVCPU	○ *18	○ *8	○	○ *9	○ *10	○	○	○	○ *18	○ *18	○ *8	○ *18	○ *8	○	○	○ *8	○ *18	○ *8	○	○	○ *8
		Universal model QCPU: Q00UJCPU Q00UCPU Q01UCPU Q02UCPU Q03UDCPU Q04UDHCPU Q06UDHCPU Q10UDHCPU Q13UDHCPU Q20UDHCPU Q26UDHCPU	○ *18	○	○	○ *9 ○ *12 ○ *9	○ *10	○	○	○ *11 ○	○ *18	○ *18	○	○ *18	○	○	○	○	○ *18	○	○	○	○
		Built-in Ethernet type: Q03UDECPU Q04UDEHCPU Q06UDEHCPU Q10UDEHCPU Q13UDEHCPU Q20UDEHCPU Q26UDEHCPU Q50UDEHCPU Q100UDEHCPU	○ *18	○ *8	○	○ *12 ○ *9	○ *10	○	○	○	○ *18	○ *18	○ *8	○ *18	○ *8	○	○	○ *8	○ *18	○ *8	○	○	○ *8
		Basic model QCPU: Q00JCPU Q00CPU *16 Q01CPU *16	○ *18	○	○	○ *13	×	○	○	○ *11 ○	○ *18	○ *14 *18	○	○ *18	○	○	○	○	○ *18	○ *15	○	○	○
		High performance model QCPU: Q02CPU *16 Q02HCPU *16 Q06HCPU *16 Q12HCPU *16 Q25HCPU *16	○ *18	○	○	○ *17	×	○	○	○	○ *18	○ *14 *18	○	○ *18	○	○	○	○	○ *18	○	○	○	○
		Process CPU: Q02PHCPU Q06PHCPU Q12PHCPU Q25PHCPU	○ *18	○	○	○ *19 ○ *21	×	○	○	○	○ *18	○ *14 *18	×	○ *18	○	○	○	×	×	×	×	×	×
		Redundant CPU (main base): Q12PRHCPU Q25PRHCPU	○	○	×	○ *21	×	○	○	×	○	○ *14	×	○	○	×	○	×	×	×	×	×	×
		Redundant CPU (extension base): Q12PRHCPU Q25PRHCPU	○	×	○	×	×	○	○	×	×	×	×	○	×	○	○	×	×	×	×	×	×
	MELSEC-QS Series	QS001CPU	○	×	×	○ *22	○ *23	×	×	×	○	○	×	○	×	×	×	×	×	×	×	×	×
	MELSEC-L Series	L02SCPU L02SCPU-P	○ *24 *25	○	○	×	○ *26	○	○	×	×	×	○	○ *24 *25	○	○	○	○	○ *24 *25	○	○	○	○
		L02CPU L02CPU-P L06CPU L06CPU-P L26CPU L26CPU-P L26CPU-BT L26CPU-PBT	○ *24	○ *27	○	×	○ *26	○	○	×	×	×	○ *27	○ *24	○ *27	○	○	○ *27	○ *24	○ *27	○	○	○ *27
	MELSEC iQ-F Series	FX5U FX5UC	○	○	×	×	×	○ *38	×	×	×	×	×	○	○	×	×	×	○	○	×	×	×
	MELSEC-F Series	FX0 FX0S FX0N FX1 FX1S FX1N FX1NC	×	○	×	×	×	×	×	×	×	×	○	×	○	×	×	○	×	○	×	×	○

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

Series		Model name	Connection type																			
			GT27/GT25											GT23					GT21 *1				
			Ethernet connection	Direct CPU connection	Serial communication connection	CC-Link IE Controller Network connection *42	CC-Link IE Field 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	Multi-drop connection *5	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-F Series	FX2	×	○	×	×	×	×	×	×	×	×	○	×	○	×	×	○	×	○	×	×	○
		FX2C																					
		FX2N	×	○	×	×	×	×	×	×	×	×	○	×	○	×	×	○	×	○	×	×	○
		FX2NC																					
		FX3G	○ *20	○	×	×	×	○ *38	×	×	×	×	○	○ *20	○	×	×	○	○ *20	○	×	×	○
		FX3GC																					
		FX3U																					
		FX3UC																					
		FX3S																					
		FX3GE																					
C Controller module	MELSEC iQ-R Series	R12CCPU-V	○ *37	×	○ *28	○	○	○	×	×	×	×	×	○ *37	×	○ *28	×	×	○ *37	×	○ *28	×	×
	MELSEC-Q Series	Q24DHCCPU-V	○	○ *8	○ *28	○ *9	○	○	○	○	○	○	○ *8 *28	○	○ *8	○ *28	○	○ *8 *28	○	○ *8	○ *28	○	○ *8 *28
		Q24DHCCPU-VG																					
		Q24DHCCPU-LS																					
		Q12DCCPU-V *29																					
		Q26DHCCPU-LS																					
Safety controller	MELSEC-WS Series	WS0-CPU0	×	○	×	×	×	×	×	×	×	×	×	×	○	×	×	×	×	○ *30	×	×	×
		WS0-CPU1																					
		WS0-CPU3																					
Motion controller	MELSEC iQ-R Series	R16MTCPU	○	×	○	○	○	○	×	×	×	×	×	○	×	○	×	×	○ *40	×	○ *40	×	×
		R32MTCPU																					
		R64MTCPU																					
	MELSEC-Q Series	Q172CPU *32	○ *18 *31	○ *33	○ *31	×	×	○ *31	○ *31	○ *33	○ *18 *31	○ *18 *31	○ *31 *33	○ *18 *31	○ *33	○ *31	○ *31	○ *31 *33	○ *18 *31	○ *33	○ *31	○ *31	○ *31 *33
		Q173CPU *32																					
		Q172CPUN *32	○ *18	○	○	×	×	○	○	○	○ *18	○ *18	○	○ *18	○	○	○	○	○ *18	○	○	○	○
		Q173CPUN *32																					
		Q172HCPU	○ *18	○ *8	○	×	×	○	○	○	○ *18	○ *18	○ *8	○ *18	○ *8	○	○	○ *8	○ *18	○ *8	○	○	○ *8
		Q173HCPU																					
		Q172DCPU	○ *18	○ *8	○	○	×	○	○	○	○ *18	○ *18	○ *8	○ *18	○ *8	○	○	○ *8	○ *18	○ *8	○	○	○ *8
		Q173DCPU																					
		Q172DCPU-S1	○ *18 *34	○ *8	○	○	×	○	○	○	○ *18	○ *18	○ *8	○ *18 *34	○ *8	○	○	○ *8	○ *18 *34	○ *8	○	○	○ *8
		Q173DCPU-S1																					
		Q172DSCPU	○ *18	○ *8	○	○	×	○	○	○	○ *18	○ *18	○ *8	○ *18	○ *8	○	○	○ *8	○ *18	○ *8	○	○	○ *8
		Q173DSCPU																					
		Q170MCPU *35	○ *18 *34	○	○	○	○ *10 *36	○	○	○	○ *18	○ *18	○	○ *18 *34	○	○	○	○	○ *18 *34	○	○	○	○
		Q170MCPU	○ *18	○	○	○	○ *36	○	○	○	○ *18	○ *18	○	○ *18	○	○	○	○	○ *18	○	○	○	○
		Q170MSCPU-S1																					
		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 NEW	○	×	○	×	○	×	×	×	×	×	×	○	×	○	×	×	○	×	○	×	×
	MELSEC-L Series	LJ72GF15-T2	×	×	○	×	○	×	×	×	×	×	×	×	×	○	×	×	×	×	○	×	×
CC-Link IE Field Network Ethernet adapter module		NZ2GF-ETB	○	×	×	×	○	×	×	×	×	×	×	○	×	×	×	×	○	×	×	×	×

*1 GT2103-PMBLS supports connection with MELSEC iQ-F Series and MELSEC-F Series only.
*2 CC-Link (via G4): connect to the CC-Link system via AJ65BT-G4-S3 or AJ65BT-R2N.
*3 When using bus connection, follow the precautions below.
- When multiple GOTs are connected, the GOT2000 Series cannot be connected with the GOT800 Series or A77GOT.
- Bus connection cannot be established with QCPU (A mode).
- The number of connectable GOTs is restricted according to the CPU type and the number of intelligent function modules.
- The GOT2000 Series, GOT1000 Series, and GOT-A900 Series can be connected together in a system. Please refer to the following Technical Bulletins.
"Precautions when Replacing GOT1000 Series with GOT2000 Series" No. GOT-A-0061
"Precautions when Replacing GOT-A900 Series with GOT2000 Series" No. GOT-A-0062

*4 Includes the case on the MELSECNET/H network system in the MNET/10 mode. The GOT cannot be connected to the remote I/O network.
*5 When the number of connected slave GOTs and the device points of each GOT increase, the device update cycle on the screen may get slower.
(Please consider 250 points as a guide of 1 GOT, and 750 points as a guide of the total points.)
*6 Only supported by GT2107-WTBD, GT2107-WTSD, GT2104-RTBD, and GT2103-PMBD.
*7 GT2103-PMBDS2 and GT2103-PMBLS are not supported.
*8 Access via the serial port (RS-232) of QCPU in the multiple CPU system since the CPU has no serial port.
*9 Use a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042.
*10 Use a CPU with the upper five digits of the serial No. later than 12012.
*11 When using the bus extension connector box (A9GT-QCNB), attach it to the extension base unit. (Connecting it to the main base unit is not allowed.)
*12 Use a CPU and a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042.
*13 Use a CPU of function version B or later or a CC-Link IE Controller Network module of function version D or later.
*14 In the multiple CPU system, use a CPU or a MELSECNET/H network module of function version B or later.
*15 GT2103-PMBD and GT2103-PMBLS cannot be connected to Q00J, Q00, or Q01CPU.
*16 When in multiple CPU system configuration, use a CPU of function version B or later.
*17 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.
*18 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.
*19 Use a CC-Link IE Controller Network module of function version D or later.
*20 The supported version of the main units varies depending on the Ethernet module to be used as shown below.

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 a FX3SCPU, use a FX3U-ENET-ADP Ver.1.20 or later.

*21 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.
*22 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.
*23 Use a CPU with the upper five digits of the serial No. later than 13042.
*24 When using a LJ71E71-100, use a CPU with the upper five digits of the serial No. later than 14112.
*25 Use a LJ71E71-100 since the CPU has no built-in Ethernet port.
*26 Use a CPU with the upper five digits of the serial No. later than 13012.
*27 The adapter L6ADP-R2 or L6ADP-R4 is required. When using the L6ADP-R4 adapter, use a CPU with the upper five digits of the serial No. later than 15102.
*28 Use the serial port of a serial communication module controlled by another CPU on the multiple CPU system.
*29 Use a CPU with the upper five digits of the serial No. later than 12042.
*30 GT2103-PMBD and GT2103-PMBLS cannot be connected to the MELSEC-WS Series.
*31 In Ethernet connection, serial communication connection, CC-Link (intelligent device station) connection, CC-Link (via G4) connection, MELSECNET/H connection, or MELSECNET/10 connection, use main modules with the following product numbers.
Q172CPU: Product number N******* or later
Q173CPU: Product number M******* or later
*32 When using SV13, SV22, or SV43, use the motion controller CPU on which any of the following main OS software version is installed.
■ Ethernet connection, serial communication connection, CC-Link (intelligent device station) connection, CC-Link (via G4) connection, MELSECNET/H connection, MELSECNET/10 connection
SW6RN-SV13Q□: 00H or later
SW6RN-SV22Q□: 00H or late
SW5RN-SV43Q□: 00B or later
■ Direct CPU connection, bus connection, multi-drop connection
SW6RN-SV13Q□: 00E or later
SW6RN-SV22Q□: 00E or later
SW5RN-SV43Q□: 00B or later
*33 In direct CPU connection, bus connection, or multi-drop connection, use main modules with the following product numbers.
Q172CPU: Product number K******* or later
Q173CPU: Product number J******* or later
*34 PERIPHERAL I/F can be used.
*35 When using SV43, use the CPU on which any of the following main OS software version is installed.
SW7DNC-SV43Q□: 00F or later
*36 Only the PLC CPU area (CPU No.1) can be monitored.
*37 Use the built-in Ethernet port since RJ71EN71 is not supported.
*38 Only cyclic transmission can be used.
*39 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.
*40 Up to 32 axes are supported by GT21. R standard placement method is not supported.
*41 Mount a redundant function module R6RFM next to the RnPCPU on the base unit when building a redundant system.
*42 GT2510-WXTBD, GT2510-WXTSD, GT2507-WTBD, GT2507-WTSD, and GT2505-VTBD are not supported.

Connectable model list (GOT2000)

■ 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
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.

● 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	RS-232	RS-422/485
	RJ71C24-R2 *4	RS-232	RS-232
	RJ71C24-R4 *4	RS-422/485	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	RS-232	RS-422/485
	QJ71C24-R2 *2	RS-232	RS-232
	QJ71C24N	RS-232	RS-422/485
	QJ71C24N-R2	RS-232	RS-232
	QJ71C24N-R4	RS-422/485	RS-422/485
	QJ71CMO *3	Modular connector	RS-232
	QJ71CMON *3	Modular connector	RS-232
MELSEC-L Series CC-Link IE Field Network head module (MELSEC-L Series)	LJ71C24	RS-232	RS-422/485
	LJ71C24-R2	RS-232	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 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 QD77GF16
MELSEC-QS Series	QS0J71GF11-T2
MELSEC-L Series	LJ71GF11-T2
MELSEC iQ-F Series NEW	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 NEW
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 inverters

Series		GT27/GT25/GT23/GT21 *1			
		RS-485	RS-232	Multi-drop connection	Ethernet
FREQROL Series	FREQROL-A800	○	×	×	×
	FREQROL-F800	○	×	×	×
	FREQROL-F700P	○	×	×	×
	FREQROL-F700	○	×	×	×
	FREQROL-E700	○	×	×	×
	FREQROL-F700PJ	○	×	×	×
	FREQROL-D700	○	×	×	×
	FREQROL-A800 Plus NEW	○	×	×	×
	FREQROL-B NEW	○	×	×	×
	FREQROL-B3 NEW	○	×	×	×
	FREQROL-F800-E NEW	○	×	×	○
MELIPM Series	MD-CX522-□□K	○	×	×	×
	MD-CX522-□□K-A0	○	×	×	×

*1 Except GT2103-PMBDS2 and GT2103-PMBLS.

◆ Mitsubishi Electric servo amplifiers (general-purpose)

Series	Model name	GT27/GT25/GT23/GT21 *1		
		RS-422	RS-232	Multi-drop connection
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	○	○	×
	MR-J2S-□CL	○	○	×
MELSERVO-J2M Series	MR-J2M-P8A	○	○	×
	MR-J2M-□DU	○	○	×
MELSERVO-JE Series	MR-JE-□A	○	×	×

*1 Except GT2103-PMBLS.
*2 RS-422/232 interface converter or RS-422/232 conversion cable is required.

Connectable model list (GOT2000)

◆ 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 CPU, or programmable controller		GT27/GT25/GT23/GT21 *6 *7										
				Connection type										
		Simple motion module	CPU type	Ethernet connection	Direct CPU connection	Serial communication 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 NEW	FX5UCPU	○	○	×	×	×	○	×	×	×	×	×
MELSERVO-JE Series	MR-JE-□B	RD77MS *4	RnCPU	○	×	○	○	○	○	×	×	×	×	×
		QD77MS *5	QnCPU	○	○	○	○	○	○	○	○	○	○	×
		LD77MS *5	LnCPU	○	○	○	×	○	○	○	×	×	×	×
		FX5-40SSC-S	FX5CPU	○	○	×	×	×	○	×	×	×	×	×
		FX5-80SSC-S NEW	FX5UCPU	○	○	×	×	×	○	×	×	×	×	×

*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 supports connection using Ethernet connection, direct CPU connection, serial communication connection, or CC-Link connection (via G4).
*7 GT21 supports 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) NEW

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 CPU, or programmable controller		GT27/GT25/GT23/GT21 *6 *7										
				Connection type										
		Simple motion module, or master/local module	CPU type	Ethernet connection	Direct CPU connection	Serial communication 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 motion 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 supports 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 *5 *6										
		Connection type										
		Ethernet connection	Direct CPU connection	Serial communication 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	○ *7	×	×	×	×	×	×	×	×	×	×
NEW	CR800-R (R16RTCPU)	○	×	○	○	○	○	×	×	×	×	×

*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 and CR750/751-Q have no serial ports.
*5 GT23 supports connection using Ethernet connection, direct CPU connection, serial communication connection, or CC-Link connection (via G4).
*6 GT21 supports connection using Ethernet connection, direct CPU connection, serial communication connection, or CC-Link connection (via G4).
*7 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 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 NEW	○	×	○	○	○	○	×	×	×	×	×
CNC C70 (Q173NCCPU) *3	○	○ *4	○	○	○	○	○	○	○	○	×
CNC M700VS	×	×	×	×	×	○ *5	×	×	×	×	×
CNC M70V	×	×	×	×	×	○ *5	×	×	×	×	×

*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).

◆ Mitsubishi Electric power monitoring products

Series	Model name	GT27/GT25/GT23/GT21 *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)	×	×	×
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-WX, GT2507-W, and GT2505.)	
GT23	RS-232	All models (Built-in interfaces of the GOT can be used.)	
	RS-422/485		
	Ethernet		
	CC-Link (via G4)		
GT21	RS-232	GT2107-WTBD GT2107-WTSD GT2104-RTBD	GT2103-PMBDS GT2103-PMBDS2
	RS-422/485	GT2107-WTBD GT2107-WTSD GT2104-RTBD	GT2103-PMBD GT2103-PMBDS GT2103-PMBLS *1
	Ethernet	GT2107-WTBD GT2107-WTSD	GT2104-RTBD GT2103-PMBD
	CC-Link (via G4)	GT2107-WTBD GT2107-WTSD GT2104-RTBD	GT2103-PMBD GT2103-PMBDS GT2103-PMBDS2

*1 Only connection with MELSEC iQ-F Series and MELSEC-F Series is supported.

Connectable model list (GOT2000)

◆ Non-Mitsubishi programmable controllers/Motion controllers/Safety controllers

Manufacturer		Model name		GT27/GT25/GT23/GT21 *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 CJ1G	CJ1M	○	×	○	○ *4		×
	SYSMAC CJ2	CJ2H		○	×	○	○ *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 *7	○ *6 *7	×
	SYSMAC CS1	CS1H CS1G	CS1D *3	○	×	○	○	○	×
	SYSMAC CVM1/CV *9	CVM1-CPU11-V□ CVM1-CPU01-V□ CV500-CPU01-V□	CV1000-CPU01-V□ CV2000-CPU01-V□	×	○ *4		×	×	×
	SYSMAC C200HS	C200HS		×	×	×	○	○	×
	SYSMAC C200H	C200H		×	×	×	○	○	×
	SYSMAC C1000H	C1000H		×	×	×	○ *4		×
	SYSMAC C2000H	C2000H		×	×	×	○ *4		×
	SYSMAC α	C200HX C200HG	C200HE	×	×	○	○	○	×
	NJ NEW	NJ501-□□□□ NJ101-□□□□	NJ301-□□□□	×	×	×	×	×	○
KEYENCE CORPORATION		KV-700 KV-1000	KV-3000	○	×	○	○	○	×
		KV-5000	KV-5500	○	×	×	○	○	×
		KV-7300 NEW		○	○	○	○	○	×
		KV-7500 NEW		○	×	×	○	○	×
KOYO ELECTRONICS INDUSTRIES CO., LTD. *2	DirectLOGIC 05 Series	D0-05AA D0-05AD D0-05AR D0-05DA	D0-05DD D0-05DD-D D0-05DR D0-05DR-D	×	×	○	○	○	×
	DirectLOGIC 06 Series	D0-06DD1 D0-06DD2 D0-06DR D0-06DA D0-06AR	D0-06AA D0-06DD1-D D0-06DD2-D D0-06DR-D	×	○	○	○	○	×
	DirectLOGIC 205 Series	D2-240		×	×	○	○	○	×
		D2-250-1	D2-260	×	○	○	○	○	×
	KOSTAC SU Series	SU-5E SU-6B	SU-5M SU-6M	×	○	○	○	○	×
	PZ Series	PZ3		×	○	○	×	×	×
Sharp Corporation *2		JW-21CU JW-31CUH	JW-50CUH	×	×	×	○	×	×
		JW-22CU JW-32CUH JW-33CUH	JW-70CUH JW-100CUH JW-100CU	×	○ *4		○	×	×
		Z-512J		×	○ *4		×	×	×
JTEKT Corporation *2	TOYOPUC Series	PC2JC-CPU PC2J16P-CPU	PC2J16PR-CPU	×	×	○ *10	○	○ *10	×
		PC2J-CPU PC2JS-CPU	PC2JR-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 (PU224)		×	○	×	×	×	×
		T2E	T2N	×	○ *4		×	×	×
		T3	T3H	×	○	×	×	×	×
	PROSEC V Series	model 2000 (S2E) model 2000 (S2T)	model 2000 (S2) model 3000 (S3)	×	○	×	×	×	×
	Unified Controller nv Series	PU811		○	×	×	×	×	×
TOSHIBA MACHINE CO., LTD.	TCmini Series	TC3-01 TC3-02	TC6-00 TC8-00	×	×	○	×	×	×
		TC5-02	TC5-03	×	○ *20	×	×	×	×
	Robot controller	TS2000	TS2100	×	×	○	×	×	×
HITACHI Industrial Equipment Systems Co., Ltd. *2	Large-sized H Series	H-302 H-1002 H-300 H-2000	H-702 H-2002 H-700 H-4010	×	×	○	○ *4		×
	H-200 to 252 Series	H-200 H-252 H-252B	H-250 H-252C	×	×	○	×	×	×
	H Series board type	HL-40DR HL-64DR H-20DR H-20DT H-28DR	H-28DT H-40DR H-40DT H-64DR H-64DT	×	×	○	×	×	×
	EH-150 Series	EH-CPU104 EH-CPU208 EH-CPU308	EH-CPU316 EH-CPU516 EH-CPU548	×	×	○	×	×	×
Hitachi Ltd. *2	S10V	LQP510		×	○	×	○	○	×
		LQP520		×	×	×	○	○	×
	S10mini	LQP000 LQP010 LQP011	LQP120 LQP800	×	×	×	○	○	×
FUJI ELECTRIC CO., LTD. *2	MICREX-F	F55 F120S F140S	F70 F15□S	×	×	×	○	○	×
	MICREX-SX SPH	SPH200 SPH2000	SPH300 SPH3000	○	×	○	○	○	×

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

Manufacturer		Model name		GT27/GT25/GT23/GT21 *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 FP0-C16CT FP0-C32CT	FP1-C24C FP1-C40C	×	×	○	×	×	×
		FP2 FP2SH FP3	FP5 FP10(S) FP10SH	×	×	○	×	○	×
		FP-M(C20TC) FP-M(C32TC)	FP-Σ	×	×	○	×	×	×
		FP-X		×	×	○	○	○	×
		AFP7CPS41E(S) NEW	AFP7CPS31E(S) NEW	×	×	○	○	○	×
		AFP7CPS31(S) NEW	AFP7CPS21 NEW	×	×	○	○	○	×
YASKAWA Electric Corporation		GL120	GL130	×	×	○ *2	○ *2	×	×
		GL60S GL60H	GL70H	×	×	×	○ *2	○ *2	×
		CP-9200SH		○	×	×	×	○	×
		CP-9300MS		×	×	○ *2	×	×	×
		MP920		○	×	○	○	○	×
		MP930		×	×	○	×	×	×
		MP940		×	○	○	×	×	×
		PROGIC-8		×	×	○ *2	×	×	×
		CP-9200(H)		×	×	○ *2	×	×	×
		CP-312		○	×	×	×	○	×
		CP-317		○	×	×	×	○	×
		MP2200 MP2300	MP2300S	○	×	×	○	○	×
		MP3200	MP3300	○	×	×	×	×	×
Yokogawa Electric Corporation *2	FA500	FA500		×	×	×	○ *4		×
	FA-M3	F3SP05	F3SP08	○	×	○	○	○	×
		F3SP10		×	×	×	×	○	×
		F3SP20	F3SP30	×	×	×	○	○	×
		F3FP36		○	×	×	○	○	×
		F3SP21 F3SP25 F3SP28 F3SP35	F3SP38 F3SP53 F3SP58 F3SP59	○	×	○	○	○	×
		F3SP66	F3SP67	○	×	○	○	○	×
		F3SP22-0S		×	×	○	×	×	×
	FA-M3V	F3SP71-4N		○	×	×	×	×	×
		F3SP71-4S		○	×	×	○	○	×
		F3SP76-7S		○	×	×	×	○	×
	STARDOM	NFCP100	NFJT100	○ *14	×	○	×	×	×
Allen-Bradley (Rockwell Automation, Inc.)	SLC500 Series *11	SLC500-20 SLC500-30 SLC500-40	SLC5/01 SLC5/02	×	×	○ *2	×	×	×
		SLC5/03 SLC5/04	SLC5/05	×	×	○	×	×	×
	MicroLogix1000 Series (digital CPU) *11 *12 *13	1761-L10BWA 1761-L10BWB 1761-L16AWA 1761-L16BWA 1761-L16BWB 1761-L16BBB	1761-L32AAA 1761-L32AWA 1761-L32BWA 1761-L32BWB 1761-L32BBB	×	×	○	×	×	×
	MicroLogix1000 Series (analog CPU) *11	1761-L20AWA-5A 1761-L20BWA-5A	1761-L20BWB-5A	×	×	○	×	×	×
	MicroLogix1100 Series *11 NEW	1763-L16BWA		×	×	○	×	×	×
	MicroLogix1200 Series *11	1762-L24BWA		×	×	○	×	×	×
	MicroLogix1400 Series *11	1766-L32AWA		×	×	○	×	×	×
	MicroLogix1500 Series *11	1764-LSP		×	×	○	×	×	×
	ControlLogix Series	1756-L 1756-L1M1	1756-L1M2 1756-L1M3	○ *15	×	○ *2	×	×	○ *21
		1756-L55M12 1756-L55M13 1756-L55M14 1756-L55M16	1756-L55M22 1756-L55M23 1756-L55M24	○ *15	×	○ *2	×	×	○ *21
		1756-L61 1756-L62	1756-L63 1756-L64 NEW	○ *15	×	○ *2	×	×	○ *21
		1756-L72S		○ *15	×	×	×	×	○ *21
	CompactLogix Series	1769-L31 1769-L32C 1769-L35CR		×	×	○ *2	×	×	×
		1769-L32E 1769-L35E		○ *15	×	○ *2	×	×	○ *21
	FlexLogix Series *2	1794-L33 1794-L34		×	×	○	×	×	○ *16

Connectable model list (GOT2000)

◆ Non-Mitsubishi programmable controllers/Motion controllers/Safety controllers

Manufacturer		Model name	GT27/GT25/GT23/GT21 *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 IC693CPU366 IC693CPU360 IC693CPU367 IC693CPU363 IC693CPU374	×	○	×	○	○	×
	Series 90-70	IC697CGR772 IC697CPX772 IC697CGR935 IC697CPX782 IC697CPM790 IC697CPX928 IC697CPU731 IC697CPX935 IC697CPU780 IC697CPU788 IC697CPU789	×	×	×	○	○	×
	VersaMax Micro	IC200UAA003	×	○	○	×	×	×
		IC200UAR014 IC200UDR001 IC200UDD104 IC200UDR002 IC200UDD112 IC200UDR003	×	×	○	×	×	×
		IC200UAA007 IC200UDD120 IC200UAL004 IC200UDD212 IC200UAL005 IC200UDR005 IC200UAL006 IC200UDR006 IC200UAR028 IC200UDR010 IC200UDD064 IC200UDR064 IC200UDD164 IC200UDR164 IC200UDD110	×	○	○	×	×	×
LS Industrial Systems Co., Ltd.	K300S	K4P-15AS	×	×	×	○	○	×
	K200S	K3P-07□S	×	×	×	○	○	×
	K120S	K7M-D□□□U	×	×	○	○	○	×
	K80S	K7M-D□□□S (/DC)	×	×	○	○	○	×
Mitsubishi Electric India Pvt. Ltd.	Nexgenie 2000 PLC	P2210 P2213A P2211 P2214	×	○	○	×	×	×
	Nexgenie 1000 PLC	NG14RL NG16DL NG14RN NG16DN NG16ADL NG16ADN	×	○	○	×	×	×
Schneider Electric SA		Twido Series	○ *14	×	×	×	×	×
		Modicon Premium Series	○ *14	×	×	×	×	×
		Modicon Quantum Series	○ *14	×	×	×	×	×
SICK AG	Flexi Soft Series	FX3-CPU000000 FX3-CPU320002 FX3-CPU130002	×	×	○	×	×	×
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 138.
*2 GT21 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 (PCCC 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.
*20 Only RS-485 is supported.
*21 GT21 does 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	Host link unit Communication unit Communication board Ethernet module	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 NEW
KEYENCE CORPORATION	Multi-communication unit Ethernet module	KV-LE20V KV-LE21V KV-EP21V NEW	KV-L20 KV-L20R KV-L20V	KV-L20 KV-L20R KV-L20V	—
KOYO ELECTRONICS INDUSTRIES CO., LTD.	Data communications module Host link module	—	D0-DCM D2-DCM U-01DM	D0-DCM D2-DCM U-01DM	—
Sharp Corporation	Link unit	—	JW-10CM JW-21CM ZW-10CM	—	—
JTEKT Corporation	Link unit	—	THU-2755 THU-2927 THU-5139	—	—
Hitachi Industrial Equipment Systems Co., Ltd.	Intelligent serial port module	—	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	—
FUJI 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 NEW AFP7CCM2 NEW AFP7CCS1M1 NEW	AFPG801 AFPG802 AFPX-COM1 AFPX-COM2 AFPX-COM4 AFP2462 AFP3462 AFP5462 AFP7CCS1 NEW AFP7CCS2 NEW AFP7CCS1M1 NEW	—
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-EN2TR	—	—	1756-ENBT 1756-ENET *2 1756-EN2T NEW 1756-EN2TR 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.

◆ 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)

◆ Robot controllers

Manufacturer		Model name			GT27/GT25/GT23/GT21 RS-422	GT27/GT25/GT23/GT21 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	TS2000 TS2100			×	○

*1 Use PCON-CA or PCON-CFA of V0002 or later.

◆ Temperature controllers/Other control equipment

Manufacturer		Model name			GT27/GT25/GT23/GT21 RS-485	GT27/GT25/GT23/GT21 RS-422	GT27/GT25/GT23/GT21 RS-232	GT27/GT25/GT23/GT21 Ethernet
Azbil Corporation *12	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 NEW E5AN-HT NEW	E5EN-H NEW E5EN-HT NEW		○ (2-wire type *1)	○	○ *2	×
		E5CN-H NEW	E5CN-HT NEW		○ (2-wire type *1)	×	○	×
	E5□C NEW	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	×
	THERMAC R NEW	E5AR E5AR-T	E5ER E5ER-T		○ (2-wire type *1)	×	○ *2	×
Shinko Technos Co., Ltd. *12	ACS-13A Series	ACS-13A-□/□,□,C5 *8			○ (2-wire type *1)	×	○ *2	×
	DCL-33A Series	DCL-33A-□/M,□,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						
	JCM-33A Series	JCM-33A-□/□,□,C5 *8			○ (2-wire type *1)	×	○ *2	×
	FCR-100 Series	FCR-13A-□/M,C	FCR-15A-□/M,C		×	×	○ *4	×
	FCD-100 Series	FCD-13A-□/M,C	FCD-15A-□/M,C		×	×	○ *4	×
	FCR-23A Series	FCR-23A-□/M,C			×	×	○ *4	×

For the details of the connection configuration, please refer to the GOT2000 Series Connection Manual.

Manufacturer		Model name		GT27/GT25/GT23/GT21			
				RS-485	RS-422	RS-232	Ethernet
Shinko Technos Co., Ltd. *12	PC-900 Series	PC935-□/M,C		×	×	○ *4	×
		PC935-□/M,C5 *8		○ (2-wire type *1)			
		PC955-□/M,C		×			
		PC955-□/M,C5 *8		○ (2-wire type *1)			
	PCD-300 Series	PCD-33A-□/M,C5 *8		○ (2-wire type *1)	×	○ *4	×
	FIR Series	FIR-201-M,C		×	×	○ *4	×
	JIR-301-M Series	JIR-301-M□,C5 *8		○ (2-wire type *1)	×	○ *2	×
CHINO CORPORATION *12	AH3000 Series	AH3000		○ (2-wire type *1)	○	○	×
	AL3000 Series	AL3000		○ (2-wire type *1)	○	○	×
	DB1000 Series	DB1000		○ (2-wire type *1)	○	○	×
	DB2000 Series	DB2000		○ (2-wire type *1)	○	○	×
	DZ1000 Series	DZ1000 *7		○ (2-wire type *1)	○	○	×
	DZ2000 Series	DZ2000 *7		○ (2-wire type *1)	○	○	×
	GT120 Series	GT120		○ (2-wire type *1)	×	○ *2	×
	JU Series	JU		○ (2-wire type *1)	○	×	×
	KE Series	KE3000		○ (2-wire type *1)	○	×	×
	KP Series	KP1000	KP2000	○ (2-wire type *1)	○	○	×
	LE5000 Series	LE5000		○ (2-wire type *1)	○	×	×
	LT230 Series	LT230		○ (2-wire type *1)	×	○ *2	×
	LT300 Series	LT350	LT370	○ (2-wire type *1)	○	○	×
	LT400 Series	LT450	LT470	○ (2-wire type *1)	○	○	×
	LT830 Series	LT830		○ (2-wire type *1)	×	○ *2	×
	SE3000 Series	SE3000		○ (2-wire type *1)	○	○	×
FUJI ELECTRIC CO., LTD. *12	Micro Controller X	PXH PXG PXR	PXH9 PXG4/5/9 PXR3/4/5/9	○ (2-wire type *1)	×	○ *2	×
Yokogawa Electric Corporation *12	GREEN Series (UM)	UM330 UM331	UM350 UM351	○ (2-wire type *1)	×	○ *2	×
	GREEN Series (UP)	UP350 UP351	UP550	○ (2-wire type *1/4-wire type)	×	○ *2	×
		UP750		○ (2-wire type *1)	×	○ *2	×
	GREEN Series (US)	US1000		○ (2-wire type *1)	×	○ *2	×
	GREEN Series (UT)	UT320 UT321 UT350 UT351 UT420	UT450 UT520 UT550 UT551	○ (2-wire type *1/4-wire type)	×	○ *2	×
		UT750		○ (2-wire type *1)	×	○ *2	×
	UT100 Series (UP)	UP150		○ (2-wire type *1)	×	○ *2	×
	UT100 Series (UT)	UT130 UT150	UT152 UT155	○ (2-wire type *1)	×	○ *2	×
	UT2000 Series	UT2400	UT2800	○ (4-wire type)	×	○ *2	×
	UTAdvanced Series (UM)	UM33A		○ (2-wire type *1/4-wire type)	×	○ *2	○ *10
	UTAdvanced Series (UP)	UP35A	UP55A	○ (2-wire type *1/4-wire type)	×	○ *2	○ *10
	UTAdvanced Series (UT)	UT32A UT35A	UT55A UT75A	○ (2-wire type *1/4-wire type)	×	○ *2	○ *10
		UT52A		○ (2-wire type *1)			
RKC INSTRUMENT INC. *12	SR Mini HG	H-PCP-J		○ (2-wire type *1)	○	○	×
		H-PCP-A	H-PCP-B *7	×	○	○	×
	SRZ	Z-CT Z-DIO Z-TIO		○ (2-wire type *1 *6)	○ *5	○ *2	○ *10
	CB *7	CB100 CB400 CB500	CB700 CB900	○ (2-wire type *1)	×	○ *2	×
	FB	FB100		○ (2-wire type *1/4-wire type)	×	○ *2	○ *10
		FB400	FB900	○ (2-wire type *1/4-wire type)	○	○	○ *10
	RB	RB100 RB400 RB500	RB700 RB900	○ (2-wire type *1)	×	○ *2	×
	PF	PF900	PF901	○ (2-wire type *1/4-wire type)	○	○	×
	HA	HA400 HA401	HA900 HA901	○ (2-wire type *1/4-wire type)	○	○	×
	RMC	RMC500		○ (2-wire type *1)	×	○ *2	×
	MA	MA900	MA901	○ (2-wire type *1/4-wire type)	○	○	×
	AG	AG500		○ (2-wire type *1/4-wire type)	○	×	×
	THV	THV-A1		○ (2-wire type *1/4-wire type)	○	×	×
	SA	SA100	SA200	○ (2-wire type *1)	×	○ *2	×
	SRX	X-TIO		○ (2-wire type *1)	×	○ *2	×
	SB1	SB1		○ (2-wire type *1)	×	○ *2	×
	B400	B400		○ (2-wire type *1)	○	×	×
	FZ NEW	FZ110		○ (2-wire type *1)	×	○ *2	×
		FZ400	FZ900	○ (2-wire type *1)	○	○ *2	×
	RZ NEW	RZ100	RZ400	○ (2-wire type *1)	×	○ *2	×

*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 cannot be connected.

Connectable model list (GOT2000)

◆ 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.

◆ 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.

◆ 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.

◆ Computer connection

By connecting a PC, 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.

◆ 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.

■ 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-WX, GT2507-W, and GT2505.)	
GT23	RS-232	All models (Built-in interfaces of the GOT can be used.)	
	RS-422/485		
	Ethernet		
	CC-Link (via G4)		
GT21	RS-232	GT2107-WTBD GT2107-WTSD GT2104-RTBD	GT2103-PMBDS GT2103-PMBDS2
	RS-422/485	GT2107-WTBD GT2107-WTSD GT2104-RTBD	GT2103-PMBD GT2103-PMBDS GT2103-PMBLS *1
	Ethernet	GT2107-WTBD GT2107-WTSD	GT2104-RTBD GT2103-PMBD
	CC-Link (via G4)	GT2107-WTBD GT2107-WTSD GT2104-RTBD	GT2103-PMBD GT2103-PMBDS GT2103-PMBDS2

*1 Only connection with MELSEC iQ-F Series and MELSEC-F Series is supported.

For the details of the connection configuration, please refer to the GT SoftGOT2000 Version1 Operating Manual.

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 IE Controller Network connection	CC-Link IE Field Network connection	MELSECNET/H connection	MELSECNET/10 connection *1
					RS-232	USB					
Programmable controller	MELSEC iQ-R Series		R04CPU	○	×	○	○	○	○	×	×
			R08CPU								
			R16CPU								
			R32CPU								
			R120CPU								
			R04ENCPU								
			R08ENCPU								
			R16ENCPU								
			R32ENCPU								
			R120ENCPU								
		Safety CPU	R08SFCPU *27	○	×	○	○	○	○	×	×
			R16SFCPU *27								
			R32SFCPU *27								
			R120SFCPU *27								
		Process CPU	R08PCPU*28	○	×	○	○	○	○ *29	×	×
			R16PCPU*28								
			R32PCPU*28								
			R120PCPU*28								
	MELSEC-Q Series (Q mode)	High-speed universal model QCPU	Q03UDVCPU	○ *23	○ *18	○	○	○ *2	○ *4	○ *23	○ *23
			Q04UDVCPU								
			Q06UDVCPU								
			Q13UDVCPU								
			Q26UDVCPU								
		Universal model QCPU	Q00UJCPU	○ *23	○	○	○	○ *2	○ *4	○ *23	○ *23
			Q00UCPU								
			Q01UCPU								
			Q02UCPU					○ *3			
			Q03UDCPU					○ *2			
			Q04UDHCPU								
			Q06UDHCPU								
			Q10UDHCPU								
			Q13UDHCPU								
			Q20UDHCPU								
			Q26UDHCPU								
		Built-in Ethernet type	Q03UDECPU	○ *23	○ *18	○	○	○ *3	○ *4	○ *23	○ *23
			Q04UDEHCPU					○ *2			
			Q06UDEHCPU								
			Q10UDEHCPU								
			Q13UDEHCPU								
			Q20UDEHCPU								
			Q26UDEHCPU								
			Q50UDEHCPU								
			Q100UDEHCPU								
		Basic model QCPU	Q00JCPU	○ *23	○	×	○	○ *5	×	○ *23	○ *23
			Q00CPU *6								
			Q01CPU *6								
		High performance model QCPU	Q02CPU *6	○ *23	○	×	○	○ *7	×	○ *23	○ *23
			Q02HCPU *6			○					
			Q06HCPU *6								
			Q12HCPU *6								
			Q25HCPU *6								
		Process CPU	Q02PHCPU	○ *23	○	○	○	○ *8	×	○ *23	○ *23
			Q06PHCPU					○ *9			
			Q12PHCPU								
			Q25PHCPU								
		Redundant CPU (main base)	Q12PRHCPU	○	○	○	×	○ *9	×	○ *10	○ *10
			Q25PRHCPU								
		Redundant CPU (extension base)	Q12PRHCPU	○	×	×	○	×	×	×	×
			Q25PRHCPU								
	MELSEC-QS Series		QS001CPU	○	×	○ *11	×	○ *12	○ *13	○	○
	MELSEC-L Series		L02SCPU	○ *14 *15	○	○	○	×	○ *16	×	×
			L02SCPU-P								
			L02CPU	○ *14	○ *17	○	○	×	○ *16	×	×
			L02CPU-P								
			L06CPU								
			L06CPU-P								
			L26CPU								
			L26CPU-P								
			L26CPU-BT								
			L26CPU-PBT								
	MELSEC iQ-F Series		FX5U	○	○	×	×	×	×	×	×
			FX5UC								
	MELSEC-F Series		FX0	×	○	×	×	×	×	×	×
			FX0S								
			FX0N								
			FX1	×	○	×	×	×	×	×	×
			FX1S								
			FX1N								
			FX1NC								
			FX2	×	○	×	×	×	×	×	×
			FX2C								
			FX2N	×	○	×	×	×	×	×	×
			FX2NC								
			FX3G	○	○	○	×	×	×	×	×
			FX3GC								

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 IE Controller Network connection	CC-Link IE Field Network connection	MELSECNET/H connection	MELSECNET/10 connection *1
				RS-232	USB					
Programmable controller	MELSEC-F Series	FX3U	○	○	×	×	×	×	×	×
		FX3UC								
		FX3S								
		FX3GE								
C Controller module	MELSEC iQ-R Series	R12CCPU-V	○ *25	×	○ *26	○ *19	○	○	×	×
	MELSEC-Q Series	Q24DHCCPU-V	○	○ *18	○	○ *19	○ *2	○	○	○
		Q24DHCCPU-VG								
		Q24DHCCPU-LS								
		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								
	MELSEC-Q Series	Q172CPU	×	×	×	×	×	×	×	×
		Q173CPU								
		Q172CPUN	×	×	×	×	×	×	×	×
		Q173CPUN								
		Q172HCPU	×	×	×	×	×	×	×	×
		Q173HCPU								
		Q172DCPU	×	×	×	×	×	×	×	×
		Q173DCPU								
		Q172DCPU-S1	×	×	×	×	×	×	×	×
		Q173DCPU-S1								
		Q172DSCPU	○ *23	○ *18	○	○	○	×	○ *23	○ *23
		Q173DSCPU								
		Q170MCPU *21 *22	○ *23	○	○	○	○	○ *4	○ *23	○ *23
		Q170MSCPU *22	○ *23	○	○	○	○	○	○ *23	○ *23
		Q170MSCPU-S1 *22								
		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 NEW	○	×	○	○	×	○ *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 (SW0DNC-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 controller CPU on which any of the following main OS software version is installed.
SW7DNC-SV43Q□: 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.

For the details of the connection configuration, please refer to the GT SoftGOT2000 Version1 Operating Manual.

■ 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
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

*1 When connecting to a Q170MCPU/Q170MSCPU(-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.

● 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-232 communication can be used.
*2 When connecting to a Q170MCPU/Q170MSCPU(-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 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 Q170MCPU/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 Controller Network	Q80BD-J71GP21-SX Q80BD-J71GP21S-SX
	Q81BD-J71GP21-SX (optical loop) Q81BD-J71GP21S-SX (optical loop, with external power supply function)

● 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 NEW
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 NEW	FX5-CCLIEF

*1 When connecting to a Q170MCPU/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

Connectable model list (GT SoftGOT2000 Version1)

● 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 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.

*2 When connecting to a Q170MCPU/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 servo amplifiers (SSCNET III/H) NEW

Series	Model name	Motion controller CPU, or programmable controller		Connection type							
		Simple motion module	CPU type	Ethernet connection	Direct CPU connection		Serial communication connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	MELSECNET/H connection	MELSECNET/10 connection *1
					RS-232	USB					
MELSERVO-J4 Series	MR-J4-□B MR-J4-□B-RJ MR-J4W2-□B MR-J4W3-□B	—	RnMTCPU	○	×	○	○	○	○	×	×
		RD77MS	RnCPU	○	×	○	○	○	○	×	×
		FX5-40SSC-S	FX5CPU	○	○	○	×	×	×	×	×
		FX5-80SSC-S	FX5UCPU	○	○	○	×	×	×	×	×
MELSERVO-JE Series	MR-JE-□B	RD77MS *2	RnCPU	○	×	○	○	○	○	×	×
		FX5-40SSC-S	FX5CPU	○	○	×	×	×	×	×	×
		FX5-80SSC-S	FX5UCPU	○	○	×	×	×	×	×	×

*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 Controller Network connection	CC-Link IE Field Network connection	MELSECNET/H connection	MELSECNET/10 connection *1
			RS-232	USB					
F Series	CR750-Q(Q172DRCPU)	○ *2	○ *3	○ *5	○	○ *4	○	○	○
	CR751-Q(Q172DRCPU)								
	CR750-D	○	×	×	×	×	×	×	×
	CR751-D								
SQ Series	CRnQ-700(Q172DRCPU)	○ *2	○ *3	○ *5	○	○ *4	○	○	○
SD Series	CRnD-700	○	×	×	×	×	×	×	×
FR Series NEW	CR800-D	○	×	×	×	×	×	×	×
	CR800-R (R16RTCPU)	○	×	○ *6	×	×	×	×	×

*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 and CR750/751-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, and CRnQ-700 have no USB port.

*6 Access via RCPU in the multiple CPU system since CR800-R has no USB port.

For the details of the connection configuration, please refer to the GT SoftGOT2000 Version1 Operating Manual.

◆ Mitsubishi Electric CNCs

Series	Connection type							
	Ethernet connection	Direct CPU connection		Serial communication connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	MELSECNET/H connection	MELSECNET/10 connection *1
		RS-232	USB					
CNC C80 (R16NCCPU-S1) NEW	○	×	○ *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)
OMRON Corporation	SYSMAC CJ1	CJ1H CJ1G	CJ1M	○	○	×
	SYSMAC CJ2	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□ CV500-CPU01-V□	CV1000-CPU01-V□ CV2000-CPU01-V□	×	○	×
	SYSMAC α	C200HX C200HG	C200HE	×	○	×
	NJ	NJ501-□□□□ NJ101-□□□□	NJ301-□□□□	×	×	×
KEYENCE CORPORATION		KV-700 KV-1000	KV-3000	○	×	×
		KV-5000	KV-5500	○	×	×
		KV-7300 NEW		○	×	×
		KV-7500 NEW		○	×	×
TOSHIBA CORPORATION	Unified Controller nv Series	PU811		○	×	×
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	○	×	×
	FA-M3V	F3SP71-4N F3SP71-4S	F3SP76-7S	○	×	×
	STARDOM	NFCP100	NFJT100	○ *7	×	×
Siemens AG		SIMATIC S7-200 series *5 SIMATIC S7-300 series	SIMATIC S7-400 series SIMATIC S7-1200 series *5	○	×	×

*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.

Connectable model list (GT SoftGOT2000 Version1)

■ 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-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	F3LE01-5T F3LE11-0T F3LE12-0T		—	
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.

◆ 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.

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 "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, GT1595 *1	Same dimensions as GT2715.
12.1"	GT1685, GT1585 *1	Same dimensions as GT2712, GT2512.
10.4"	GT167□, GT157□ *1, GT1275 *1	Same dimensions as GT2710, GT2510-V, GT2310.
8.4"	GT166□, GT156□ *1, GT1265 *1	Same dimensions as GT2708, GT2508, GT2308.
5.7"	GT1655, GT155□ *1, GT145□, GT115□ *1, GT105□	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.

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	Use the built-in RS-422/485 interface or GT15-RS4-9S (serial communication unit)	—
		GT15-RS2T4-25P		
	MELSECNET/10 communication unit	GT15-75J71LP23-Z *1	GT15-J71LP23-25 (MELSECNET/H communication unit)	Use MELSECNET/H communication unit in MELSECNET/10 mode.
		GT15-75J71BR13-Z *1	GT15-J71BR13 (MELSECNET/H communication unit)	
	CC-Link communication unit (CC-Link (ID) Ver.1)	GT15-75J61BT13-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	GT27-MMR-Z (multimedia unit)	A CF card is used with the unit.
	Video input unit	GT16M-V4	GT27-V4-Z (video input unit)	—
		GT15V-75V4 *1		
	RGB input unit	GT16M-R2	GT27-R2 (RGB input unit) GT27-R2-Z (RGB input unit)	—
		GT15V-75R1 *1		
	Video/RGB input unit	GT16M-V4R1	GT27-V4R1-Z (video/RGB input unit)	—
		GT15V-75V4R1 *1		
	RGB output unit	GT16M-ROUT	GT27-ROUT (RGB output unit) GT27-ROUT-Z (RGB output unit)	—
		GT15V-75ROUT *1		
	CF card unit	GT15-CFCD	—	A CF card cannot be used with the GOT2000 Series. Use an SD memory card with the built-in SD memory card slot.
	CF card extension unit	GT15-CFEX-C08SET	—	

*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.

<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 and Renewal Guidance, please contact your local sales office.

Product List

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 □ - X T B A □

Symbol	Screen size
15	15"
12	12.1"
10	10.4" or 10.4" Wide
08	8.4"
07	7" Wide
05	5.7"
04	4.3"
03	3.8"

Symbol	Structure
None	Standard
F	Open frame

Symbol	Resolution
WX	WXGA
X	XGA
S	SVGA
W	WVGA
V	VGA
R	480 × 272 dots
P	320 × 128 dots

Symbol	Display section
T	TFT color
M	TFT monochrome

Symbol	Panel color
B	Black
W	White
S	Silver
N	No frame

Symbol	Power type
A	100 V AC to 240 V AC
D	24 V DC
L	5 V DC

Symbol	Communication interface
None *1	Refer to Remarks column of GOT
S *1	RS-232 and RS-422/485 interfaces, or RS-422 interface only
S2 *1	Two RS-232 interfaces
-GF *2	CC-Link IE Field Network communication unit set

*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

GOTs

Classification		Model	Screen size	Display section Display color	Panel color	Power	Remarks
GT27	GT2715	GT2715-XTBA	15" XGA	TFT color 65536 colors	Black	100 to 240 V AC	Multimedia & Video/RGB compatible Multi-touch compatible
		GT2715-XTBD				24 V DC	
	GT2712	GT2712-STBA	12.1" SVGA		Black	100 to 240 V AC	
		GT2712-STBD				24 V DC	
		GT2712-STWA			White	100 to 240 V AC	
		GT2712-STWD *1				24 V DC	
	GT2710	GT2710-STBA	10.4" SVGA		Black	100 to 240 V AC	
		GT2710-STBD				24 V DC	
		GT2710-VTBA	10.4" VGA			100 to 240 V AC	
		GT2710-VTBD				24 V DC	
		GT2710-VTWA			White	100 to 240 V AC	
		GT2710-VTWD *1				24 V DC	
	GT2708	GT2708-STBA	8.4" SVGA		Black	100 to 240 V AC	
		GT2708-STBD				24 V DC	
		GT2708-VTBA	8.4" VGA			100 to 240 V AC	
		GT2708-VTBD				24 V DC	
	GT2705	GT2705-VTBD	5.7" VGA		Black	24 V DC	Multi-touch compatible
GT25	GT2512	GT2512-STBA	12.1" SVGA	TFT color 65536 colors	Black	100 to 240 V AC	—
		GT2512-STBD				24 V DC	
		GT2512F-STNA			—	100 to 240 V AC	Open frame model
		GT2512F-STND				24 V DC	
	GT2510	GT2510-VTBA	10.4" VGA		Black	100 to 240 V AC	—
		GT2510-VTBD				24 V DC	
		GT2510-VTWA			White	100 to 240 V AC	
		GT2510-VTWD *1				24 V DC	
		GT2510F-VTNA			—	100 to 240 V AC	Open frame model
		GT2510F-VTND				24 V DC	
	GT2508	GT2508-VTBA	8.4" VGA		Black	100 to 240 V AC	—
		GT2508-VTBD				24 V DC	
		GT2508-VTWA			White	100 to 240 V AC	
		GT2508-VTWD *1				24 V DC	
		GT2508F-VTNA			—	100 to 240 V AC	Open frame model
		GT2508F-VTND				24 V DC	
	GT2505	GT2505-VTBD NEW	5.7" VGA		Black	24 V DC	—
GT25 Wide	GT2510	GT2510-WXTBD NEW	10.1" WXGA	TFT color 65536 colors	Black	24 V DC	Wide model
		GT2510-WXTSD NEW			Silver *2		
	GT2507	GT2507-WTBD NEW	7" WVGA		Black	24 V DC	
		GT2507-WTSD NEW			Silver *2		
GT23	GT2310	GT2310-VTBA	10.4" VGA	TFT color 65536 colors	Black	100 to 240 V AC	—
		GT2310-VTBD				24 V DC	
	GT2308	GT2308-VTBA	8.4" VGA		Black	100 to 240 V AC	
		GT2308-VTBD				24 V DC	

GOTs

Classification		Model	Screen size	Display section Display color	Panel color	Power	Remarks
GT21	GT2104	GT2104-RTBD	4.3" [480 × 272 dots]	TFT color 65536 colors	Black	24 V DC	Ethernet, RS-422/485, RS-232
	GT2103	GT2103-PMBD	3.8" [320 × 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 × 2 channels
		GT2103-PMBLS				5 V DC	RS-422 (FXCPU connection only)
GT21 Wide	GT2107	GT2107-WTBD NEW	7" WVGA	TFT color 65536 colors	Black	24 V DC	Wide model
		GT2107-WTSD NEW			Silver *2		

*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 150) 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).

*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			100 to 240 V AC	
		GT2710-VTBD-GF				24 V DC	
		GT2710-VTWA-GF			White	100 to 240 V AC	
		GT2710-VTWD-GF				24 V DC	
	GT2708	GT2708-STBA-GF	8.4" SVGA		Black	100 to 240 V AC	
		GT2708-STBD-GF				24 V DC	
		GT2708-VTBA-GF	8.4" VGA			100 to 240 V AC	
		GT2708-VTBD-GF				24 V DC	
	GT2705	GT2705-VTBD-GF	5.7" VGA		Black	24 V DC	
GT25	GT2512	GT2512-STBA-GF	12.1" SVGA	TFT color 65536 colors	Black	100 to 240 V AC	GOT + GT15-J71GF13-T2
		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	GT23	GT21	GT21 Wide
Ethernet communication unit *1	GT25-J71E71-100 NEW	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 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 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	●
Connector conversion adapter	GT10-9PT5S NEW	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 NEW	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 Korea.

*10 Available to GT2104-RTBD, GT2103-PMBD, and GT2103-PMBDS.

*11 Not available to GT2505-VTBD.

*12 Only available to GT2505-VTBD.

*13 The product complies with the RE Directive from March 31, 2017.

Option units

Product name	Model	Specifications	Supported model					
			GT27	GT25	GT25 Wide	GT23	GT21	GT21 Wide
Printer unit	GT15-PRN	USB slave (PictBridge) for printer connection, 1 channel Cable for connection between printer unit and printer (3m) included	●	● *4	—	—	—	—
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) *3	● *1	—	—	—	—	—
	GT27-R2-Z	For analog RGB input, 2 channels (display by channel) *3	● *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	—	—	—	—	—
	GT27-ROUT-Z	For analog RGB output, 1 channel	● *1	—	—	—	—	—
Sound output unit	GT15-SOUT	For sound output (ϕ3.5 stereo pin jack)	●	● *4	—	—	—	—
External I/O unit	GT15-DIOR	For connecting an external I/O device and an operation panel (negative common input, source type output)	●	● *4	—	—	—	—
	GT15-DIO	For connecting an external I/O device and an operation panel (positive common input, sink type output)	●	● *4	—	—	—	—
SD memory card unit	GT21-03SDCD	For mounting an SD memory card	—	—	—	—	● *2	—

*1 Not available to GT2705-VTBD.

*2 Only available to GT2103-PMBD, GT2103-PMBDS, and GT2103-PMBDS2.

*3 The settings for GT27-R2 and GT27-R2-Z differ in the screen design software.

*4 Not available to GT2505-VTBD.

Software

Product name	Model	Description			Supported model					
					GT27	GT25	GT25 Wide	GT23	GT21	GT21 Wide
HMI/GOT Screen Design Software MELSOFT GT Works3	SW1DND-GTWK3-E	English Version	Standard license product	DVD-ROM	●	●	●	●	●	●
	SW1DND-GTWK3-EA		Volume license product *1 *9		●	●	●	●	●	●
	SW1DND-GTWK3-EAZ		Additional license product *1 *6		●	●	●	●	●	●
FA Integrated Engineering Software MELSOFT iQ Works *2 *3	SW2DND-IQWK-E	English Version	Standard license product	DVD-ROM	●	●	●	●	●	●
GT Works Text to Speech License *7	SW1DND-GTVO-M NEW	Standard license product			●	●*8	●	—	—	—
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 (L(NA)08232ENG).

*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.

Application package

Product name	Model	Description	Supported model					
			GT27	GT25	GT25 Wide	GT23	GT21	GT21 Wide
iQ Monozukuri ANDON *1 NEW	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 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.

Product List

Options

Product name	Model	Specifications		Supported model					
				GT27	GT25	GT25 Wide	GT23	GT21	GT21 Wide
Protective sheet *1	GT27-15PSGC	For 15"	• 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 NEW	For 5.7"		—	●	—	—	—	—
	GT25-10WPSGC NEW	For 10.1" Wide	• Antiglare type • Transparent • Without a hole for the USB environmental protection cover *10 • A set of 5 sheets	—	—	●	—	—	—
	GT21-07WPSGC NEW	For 7" Wide		—	—	●	—	—	●
	GT27-15PSCC	For 15"	• 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 NEW	For 5.7"		—	●	—	—	—	—
	GT25-10WPSCC NEW	For 10.1" Wide	• Clear type • Transparent • Without a hole for the USB environmental protection cover *10 • A set of 5 sheets	—	—	●	—	—	—
	GT21-07WPSCC NEW	For 7" Wide		—	—	●	—	—	●
	GT25-12PSCC-UC *9	For 12.1"	• 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"	• 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"	• Clear type • Transparent • Without a hole for the USB environmental protection cover • A set of 5 sheets	—	—	—	—	●	—
	GT21-03PSCC-UC	For 3.8"		—	—	—	—	●	—
Environmental protection sheet	GT25F-12ESGS	For 12.1"	• For conforming to IP67F • Antiglare type • Slivery • 1 sheet	—	● *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 NEW	For 10.1" Wide/7" Wide/5.7"		—	●	●	—	—	●
Protective cover for oil *3	GT20-15PCO	For 15"		●	—	—	—	—	—
	GT20-12PCO	For 12.1"		●	●	—	—	—	—
	GT20-10PCO	For 10.4"		●	●	—	●	—	—
	GT20-08PCO	For 8.4"		●	●	—	●	—	—
	GT25-05PCO	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 NEW	For 10.1" Wide		—	—	●	—	—	—
	GT21-07WSTAND NEW	For 7" Wide		—	—	●	—	—	●
	GT05-50STAND	For 5.7"		●	●	—	—	—	—

Options

Product name		Model	Specifications		Supported model					
					GT27	GT25	GT25 Wide	GT23	GT21	GT21 Wide
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		●	—	—	—	—	—
		GT05-MEM-8GC	CF card for GT27-MMR-Z, 8 GB		●	—	—	—	—	—
		GT05-MEM-16GC	CF card for GT27-MMR-Z, 16 GB		●	—	—	—	—	—
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 NEW	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)	● (For replacement)	● (For replacement)	● (Option)	● *5 (For replacement)	● (For replacement)
Special fitting *9		GT25-12FIT-EXS NEW	For 12.1"	For compliance with the ATEX directive and KCs regulation	● *9	—	—	—	—	—
		GT25-10FIT-EXS NEW	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 Digital Electronics Corporation.

*5 GT2103-PMBD, GT2103-PMBDS, GT2103-PMBDS2, and GT2103-PMBLS 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.

Cables

Product name		Model	Cable length	Recommended product *1	Specifications	Supported model *16					
						GT27	GT25	GT25 Wide	GT23	GT21	GT21 Wide
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	●	●	●	—	—	●
		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□R4-25P, 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]	●	●	●	●	● *12	●
		FA-CNV2405CBL	0.5 m								
RS-422 cable	QnA/A/FXCPU direct connection cable Computer link connection cable CC-Link (G4) connection cable	GT01-C30R4-25P	3 m	—	For connecting the QnA/ACPU/FXCPU/motion controller (A series) 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 ⇔ separate wire (connector terminal block 9-pin)]	●	●	●	●	● *3 *7	●
		GT01-C100R4-25P	10 m								
		GT01-C200R4-25P	20 m								
		GT01-C300R4-25P	30 m								
		GT10-C30R4-25P	3 m	—	For connecting the QnA/ACPU/FXCPU/motion controller (A series) 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 ⇔ separate wire (connector terminal block 9-pin)]	—	—	—	—	● *10	—
		GT10-C100R4-25P	10 m								
		GT10-C200R4-25P	20 m								
		GT10-C300R4-25P	30 m								
		GT21-C30R4-25P5	3 m	—	For connecting the QnACPU and GOT For connecting the RS-422 connector conversion cable (FA-CNV□CBL) and GOT For connecting the serial communication module and GOT For connecting the peripheral connection module (AJ65BT-G4-S3) and GOT [D-sub 25-pin ⇔ separate wire (connector terminal block 5-pin)] * GT2103-PMBD cannot be connected to Q00JCPU, Q00CPU, Q01CPU, A Series, or FX1/FX2 Series.	—	—	—	—	● *2	—
		GT21-C100R4-25P5	10 m								
		GT21-C200R4-25P5	20 m								
		GT21-C300R4-25P5	30 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]	●	●	●	●	● *3 *7	●
		GT09-C100R4-6C	10 m								
		GT09-C200R4-6C	20 m								
		GT09-C300R4-6C	30 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]	●	●	●	●	● *3 *7	●
		GT01-C30R4-8P	3 m								
		GT01-C100R4-8P	10 m								
		GT01-C200R4-8P	20 m								
		GT01-C300R4-8P	30 m								
		GT10-C10R4-8P	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)]	—	—	—	—	● *4	—
		GT10-C30R4-8P	3 m								
		GT10-C100R4-8P	10 m								
		GT10-C200R4-8P	20 m								
		GT10-C300R4-8P	30 m								
		GT21-C10R4-8P5	1 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-C30R4-8P5	3 m								
		GT21-C100R4-8P5	10 m								
		GT21-C200R4-8P5	20 m								
		GT21-C300R4-8P5	30 m								
		GT10-C10R4-8PL	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, or FX3GC.	—	—	—	—	● *4	—
		GT10-C10R4-8PC	1 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-C30R4-8PC	3 m								
		GT10-C100R4-8PC	10 m								
		GT10-C200R4-8PC	20 m								
		GT10-C300R4-8PC	30 m								
	RS-422 connector conversion cable	GT10-C02H-9SC	0.2 m	—	For connecting a PLC and 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	GT23	GT21	GT21 Wide
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 *8	●
		GT10-C30R2-6P	3 m	—	For connecting the Q/LCPU and GOT [MINI-DIN 6-pin ⇔ separate wire (connector terminal block 9-pin)]	—	—	—	—	● *6	—
					For connecting multiple GOTs [MINI-DIN 6-pin ⇔ separate wire (connector terminal block 9-pin)]	—	—	—	—	● *11	—
	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]	●	●	●	●	● *5 *8	●
	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 *8	●
	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]	●	●	●	●	● *5 *8	●
	Computer link connection cable	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]	●	●	●	●	● *5 *8	●
	RS-232 connector conversion cable	GT10-C02H-6PT9P	0.2 m	—	For connecting a PLC and GOT For connecting multiple GOTs For connecting a barcode reader, RFID, or serial printer and a GOT [D-sub 9-pin ⇔ MINI-DIN 6-pin]	—	—	—	—	● *11	—
	Data transfer cable	GT01-C30R2-6P	3 m	—	For connecting a 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 GOT	●	—	—	—	—	—
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]	●	●	●	●	● *9	● *9
Panel-mounted USB port extension		GT14-C10EXUSB-4S NEW	1 m	—	For routing the USB port (host) of the GOT rear face to the front side of the control panel	●	●	●	—	—	●
		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	—	—	● *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.

Cables for non-Mitsubishi industrial devices

RS-232 and RS-422 cables are available from every manufacturer. For more details, please see 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
GT Designer3 (GOT2000) Screen Design Manual	SH-081220ENG

Warranty

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

Gratis Warranty Term and Gratis Warranty Range

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

■Gratis Warranty Term

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

■Gratis Warranty Range

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

Onerous repair term after discontinuation of production

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

Overseas service

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

Exclusion of loss in opportunity and secondary loss from warranty liability

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

Changes in product specifications

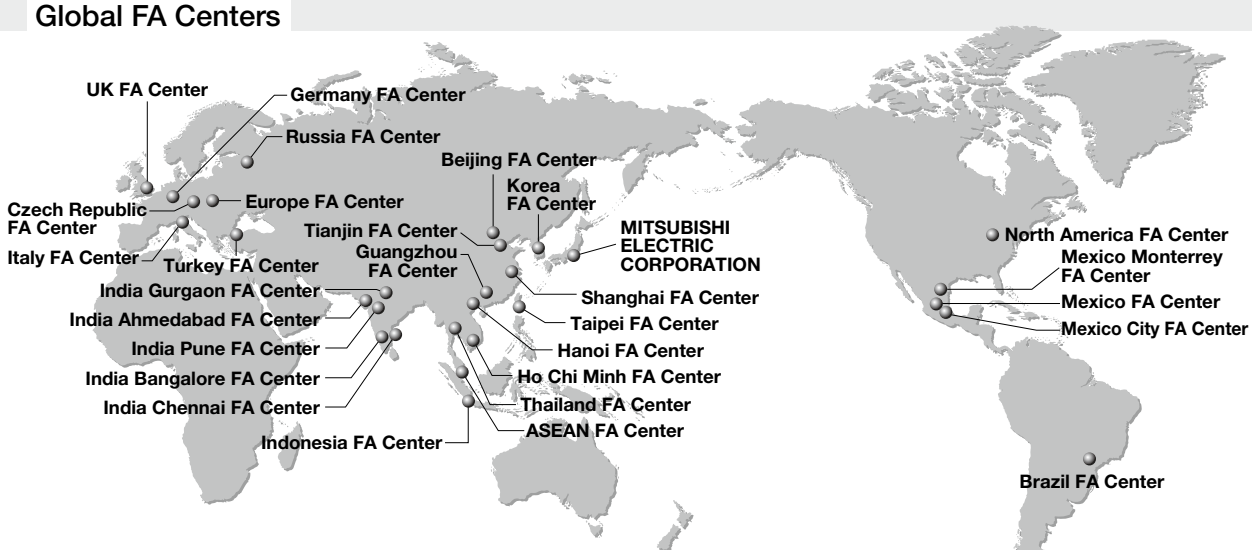
The specifications given in the catalogs, manuals or technical documents are subject to change without prior notice.

Product application

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

Global support

Global FA Centers



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<International standards>

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CE	EMC Directive harmonized standards, Low Voltage Directive harmonized standards, RoHS Directive harmonized standards	Europe
Ex	ATEX Directive harmonized standards	Europe
UL	Safety standards	United States
	Class I, Division 2	
cUL	Safety standards	Canada
	Class I, Division 2	
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/**).

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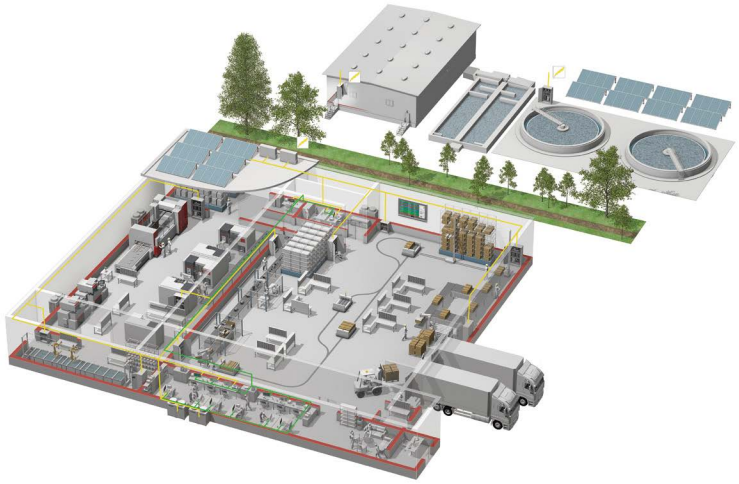

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