for a greener tomorrow

MITSUBISHI ELECTRIC

Changes for the Better

FACTORY AUTOMATION

GOT2000 Series

Mitsubishi Graphic Operation Terminal

GOT2000

Graphic Operation Terminal

- Innovative display features
- Global support
- Advanced connectivity
- Enhanced lineup
- Simple design
- Easy settings & operation

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

■ GOT2000 Solutions INDEX

GOT2000 Solutions - Application Know How

GOT2000 Solutions - Functions

Lineup

The GOT2000 inherits all the features of our popular GOT1000 series, and introduces a more refined and advanced function set. The powerful and flexible lineup includes GOTs with various features and communication options to tackle any application you may encounter.

GT27 model

Advanced model with multi-touch gesture functions

Ethernet | CC-Link
RS-232 | Bus
RS-422/485 | MELSECNET
CC-Link IE Controller
CC-Link IE Field*

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

15 inch

XGA

GT2715-XTBA
GT2715-XTBD

Resolution: 1024 × 768
Display color: 65536 colors

12.1 inch

SVGA

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

Resolution: 800 × 600
Display color: 65536 colors

GT25 model

High performance, cost efficient, mid-range model

Ethernet | CC-Link
RS-232 | Bus
RS-422/485 | MELSECNET
CC-Link IE Controller
CC-Link IE Field*

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

12.1 inch

SVGA

GT2512-STBA
GT2512-STBD

Resolution: 800 × 600
Display color: 65536 colors

10.4 inch

VGA

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

Resolution: 640 × 480
Display color: 65536 colors

GT21 model

Compact models with basic functions

Ethernet
RS-232
RS-422/485

4.3 inch Wide

NEW

GT2104-RTBD

Resolution: 480 × 272
Display color: 65536 colors

3.8 inch

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

Resolution: 320 × 128
Display color: Monochrome (black/white)
32 shade grayscale
Backlight: 5-color LED
(white, green, pink, orange, red)

Compliant with safety standards including UL Standards, maritime certifications, and radio laws.
For inquiries relating to the status of conforming to various standards and laws (CE, UL/cUL, Class I Division 2, KC, and maritime certifications [ABS/BV/DNV/GL/LR/NK/RINA]), please contact your local sales office.

The release date varies depending on the product and your region. For details, please contact your local sales office.

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

*: Not supported by 5.7 inch model.

10.4 inch

SVGA VGA

GT2710-STBA
GT2710-STBD

Resolution: 800 × 600
Display color: 65536 colors

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

Resolution: 640 × 480
Display color: 65536 colors

8.4 inch

SVGA VGA

GT2708-STBA
GT2708-STBD

Resolution: 800 × 600
Display color: 65536 colors

GT2708-VTBA
GT2708-VTBD

Resolution: 640 × 480
Display color: 65536 colors

5.7 inch

NEW VGA

GT2705-VTBD

Resolution: 640 × 480
Display color: 65536 colors

Sound output | External I/O

GT23 model

Unchallenged cost performance

8.4 inch

VGA

GT2508-VTBA
GT2508-VTBD
GT2508-VTWA [White model]
GT2508-VTWD [White model]

Resolution: 640 × 480
Display color: 65536 colors

Ethernet
RS-232
RS-422/485

10.4 inch

VGA

GT2310-VTBA
GT2310-VTBD

Resolution: 640 × 480
Display color: 65536 colors

8.4 inch

VGA

GT2308-VTBA
GT2308-VTBD

Resolution: 640 × 480
Display color: 65536 colors

SoftGOT

Turn your personal computer into a GOT!

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
Display color: 65536 colors
*: A separate license key must be mounted during use.

USB port license key

GT27 model

Advanced model with multi-touch gesture functions

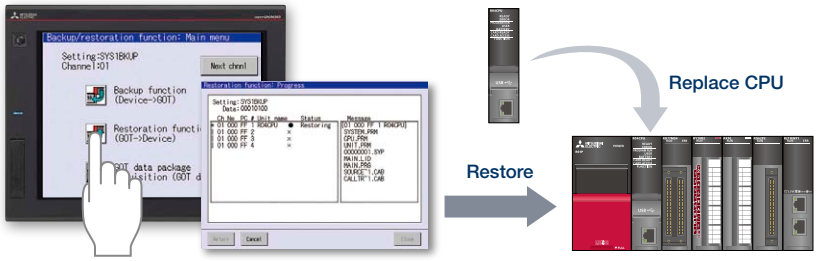
A wide variety of specifications suit every system design

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", and 15" size, 65536 colors TFT LCD display
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) ✻: White model has 1 channel
Extension interface	CC-Link IE Controller, CC-Link IE Field, CC-Link, bus, MELSECNET/H

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.
✻: 15 inch and 12.1 inch types only

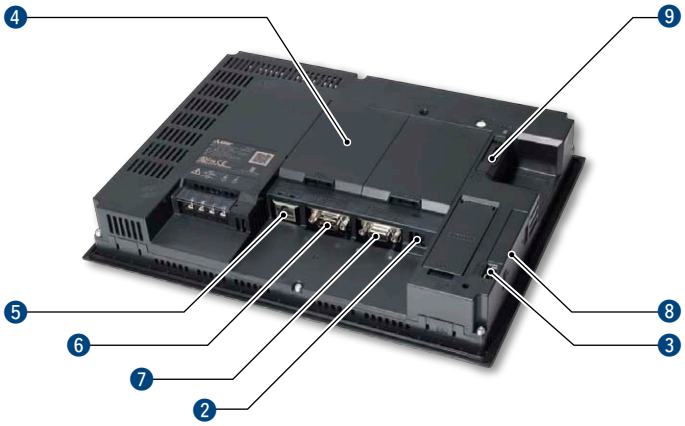
❷ USB interface: device (USB Mini-B)
Connect to a personal computer and transfer data.
✻: Standard models: front face only
✻: White models: rear face only

❸ USB interface: host (USB-A)
Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory.
A USB mouse and keyboard connection is also supported.
✻: White models: rear face 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.

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

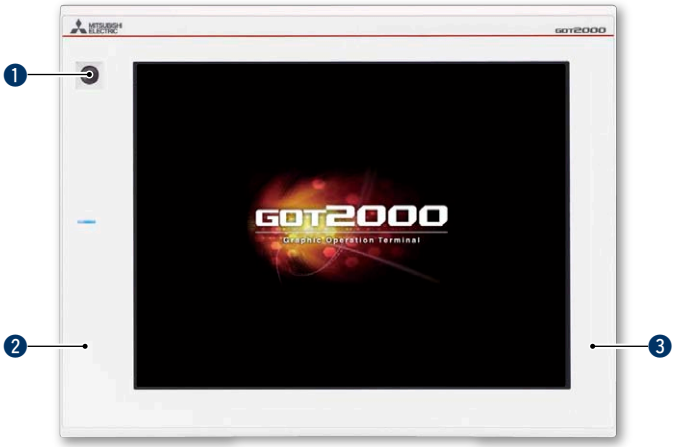


❼ RS-422/485 interface
Connect to various industrial devices and barcode readers.

❽ Side interface
Mount a wireless LAN communication unit.

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

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



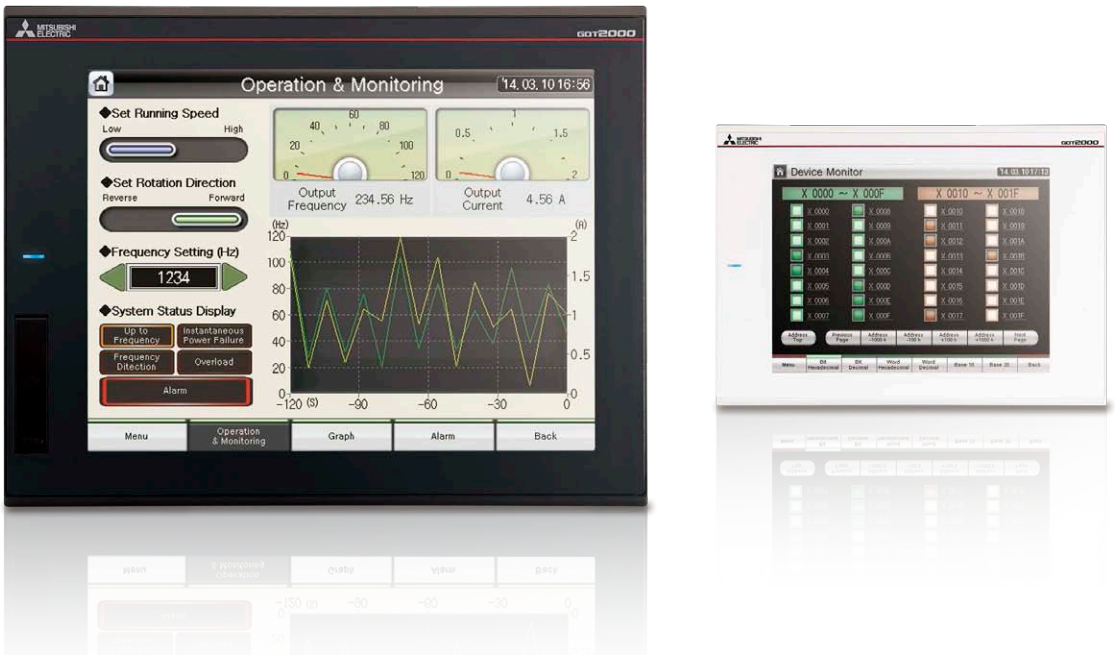
❶ Human sensor
The unit automatically detects an operator approaching the unit and displays the screen.
✻: 12.1 inch type only

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.

GT25 model

High performance, cost efficient, mid-range model



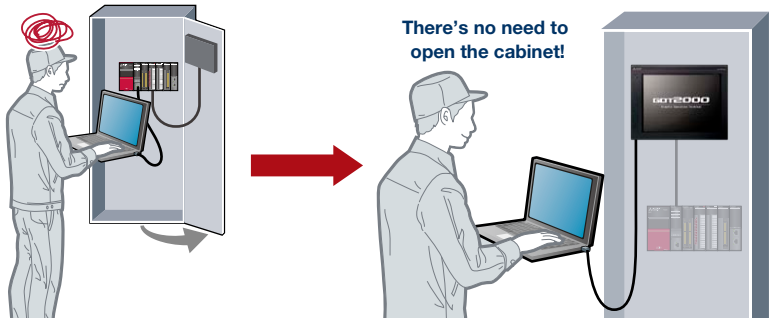
A wide variety of specifications suit every system design

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	8.4", 10.4", and 12.1" size, 65536 colors TFT LCD display
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* (High-Speed 480 Mbps) USB device (USB Mini-B) 1 channel (High-Speed 480 Mbps) *: White model has 1 channel
Extension interface	CC-Link IE Controller, CC-Link IE Field, CC-Link, bus, MELSECNET/H

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 cabinet or changing cable connections.



■ GT25 model external appearance [Standard model: front face/rear face]

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

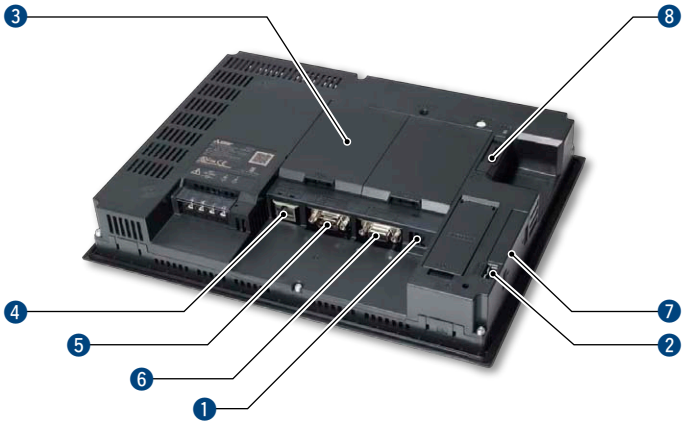
❷ USB interface: host (USB-A)
Transfer project data or read the data (logging data, etc.) to or from the GOT using the USB memory.
A USB mouse and keyboard connection is also supported.
*: White models: rear face only

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.

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

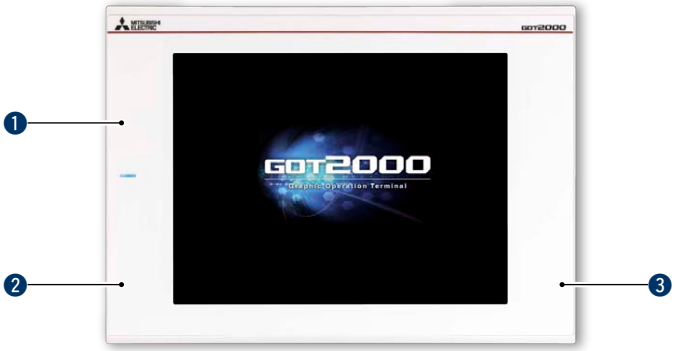
❻ RS-422/485 interface
Connect to various industrial devices and barcode readers.



❼ Side interface
Mount a wireless LAN communication unit.

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

■ GT25 model external appearance [White model: front face]



❶ 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.

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.

GT23 model

Unchallenged cost performance

A wide variety of specifications suit every system design

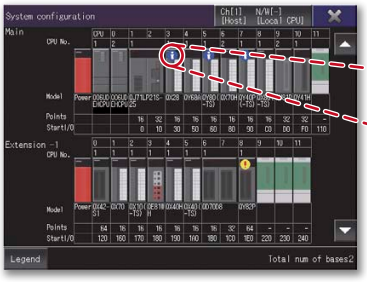
Communication interfaces such as Ethernet, RS-232, RS-422/485, USB host/device and SD memory card are standard features. Advanced interactive features such as data logging, multi-channel communication, and FA transparent function are supported.

Item	Specifications
Display	8.4" and 10.4" size, 65536 colors TFT LCD display
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)

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

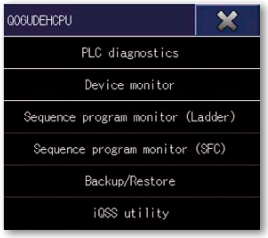
A graphical system configuration diagram indicates module statuses. When you touch a module the extended function list is shown and you can carry out maintenance work efficiently.

System configuration diagram



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

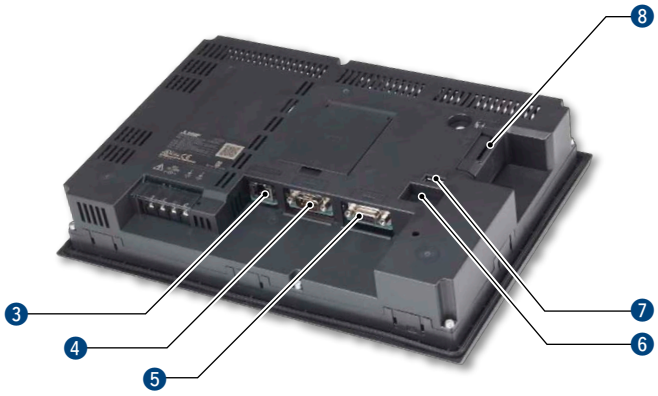
Extended functions menu



■ 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.

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.

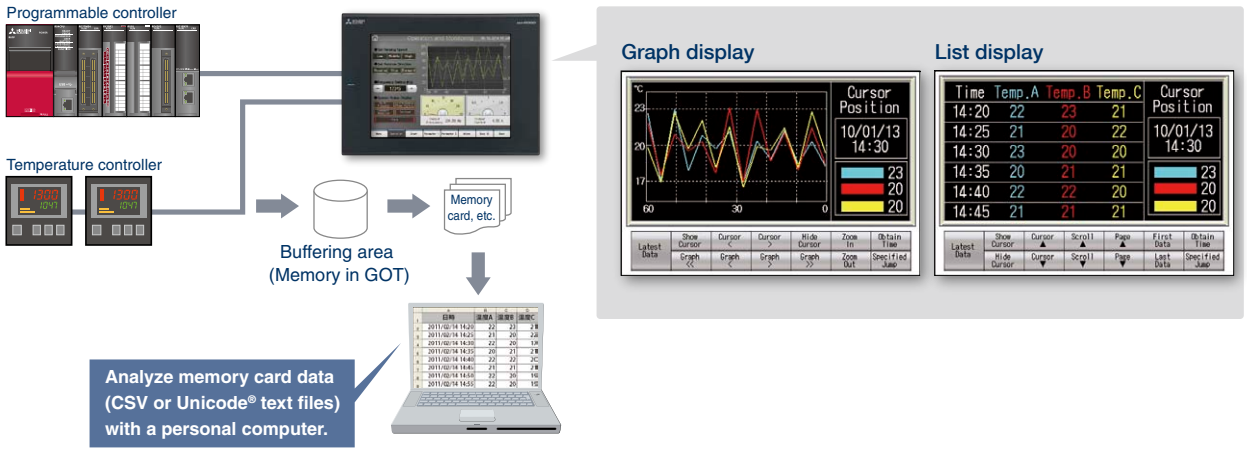
❻ USB interface: device (USB Mini-B)
Connect to a personal computer and transfer data.

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 and keyboard connection is also supported.

❽ SD memory card slot
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 NEW

Compact model with exciting possibilities

New widescreen type compact model!

65536 colors, TFT LCD display, 4.3-inch wide model is released. High resolution, 480 × 272 dot display realized in a compact body!

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

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 Wide Screen size: 4.3 inch Wide
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.

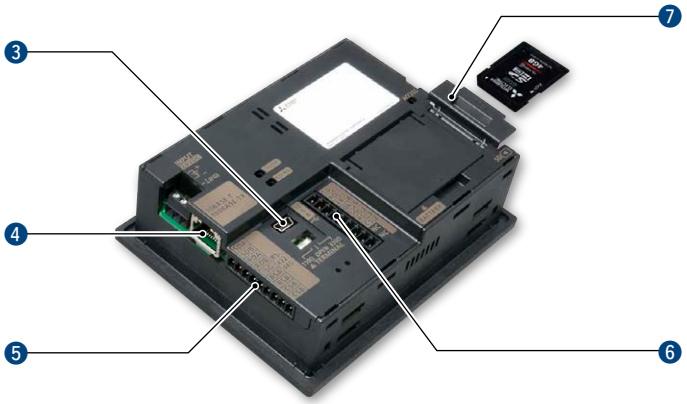
❷ Flat body
The front flat screen is easy to clean. (USB interface is on the back.)

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.

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

GT21 model

■ GT2103-P

Small screen, big possibilities

Small, compact, easy to operate!

Ethernet built into a compact body!*1
Four-times higher resolution (320 × 128 dot) than conventional models*2

*1: Ethernet type model only
*2: Compared with GT1020

Item	Specifications
Display	3.8" size, 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	GT2103-PMBD: Ethernet, RS-422/485 GT2103-PMBDS: RS-232, RS-422/485 GT2103-PMBDS2: RS-232 × 2 channels GT2103-PMBLS: RS-422 (dedicated to FX connection, 5 V DC power supply type) All models: USB device (USB Mini-B) 1 channel (Full-Speed 12 Mbps)

High-definition LCD

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

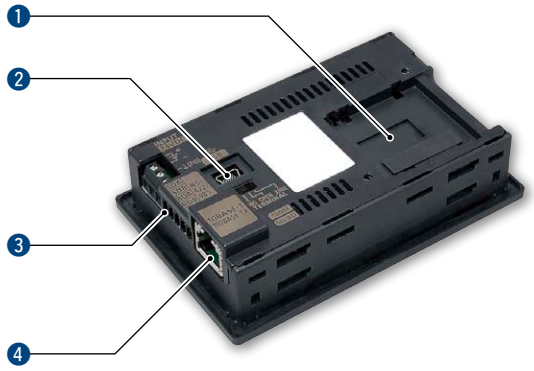
GT1020
Monochrome
(black/white) STN LCD

GT2103
Monochrome
TFT LCD with 32 gray scales

Same compact type, but so much clearer!

■ GT2103-P external appearance [front face/rear face]

Ethernet type **GT2103-PMBD** [Ethernet, RS-422/485]



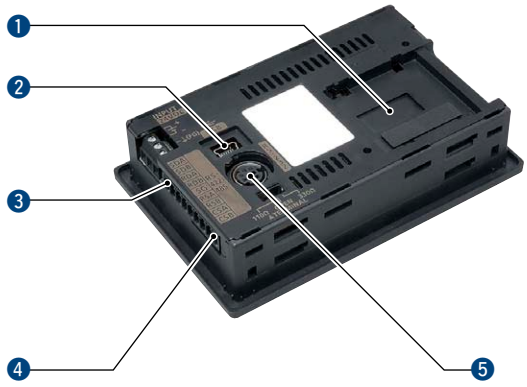
❶ SD memory card unit interface
Connect an optional SD memory card unit and save data including alarms and logging data.

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.

❹ Ethernet interface
Use Ethernet to simultaneously connect to up to two types of industrial devices from different manufacturers.

Serial type **GT2103-PMBDS** [RS-232, RS-422/485]
GT2103-PMBDS2 [RS-232 × 2 channels]
GT2103-PMBLS [RS-422] 5 V DC type



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.
✻: RS-422 on GT2103-PMBLS (dedicated to FX connection)
✻: Excluding GT2103-PMBDS2

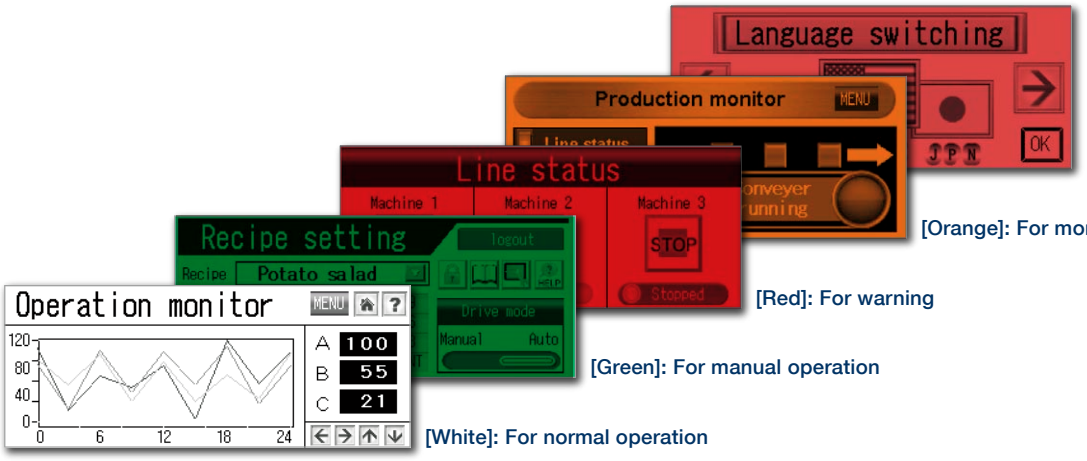
❹ RS-232 interface
Connect to various industrial devices, barcode readers and serial printers.
✻: GT2103-PMBDS2 only

❺ RS-232 interface
Connect to various industrial devices, barcode readers and serial printers.
✻: Excluding GT2103-PMBLS

Display statuses with changeable color backlight

The intuitively understandable 5-color backlight offers choices of backlight color and backlight blink according to machine operation state.The backlight can also be controlled from the connected PLC (screen color change and backlight ON/OFF/blink).

[Backlight color and screen example]



[Pink]: For language switching

[Orange]: For monitoring

[Red]: For warning

[Green]: For manual operation

[White]: For normal operation

GOT2000 Solutions Application Know How

▶How to recover a PLC error?

▶How to monitor sequence programs without a PC?

▶How to startup a servo system quickly?

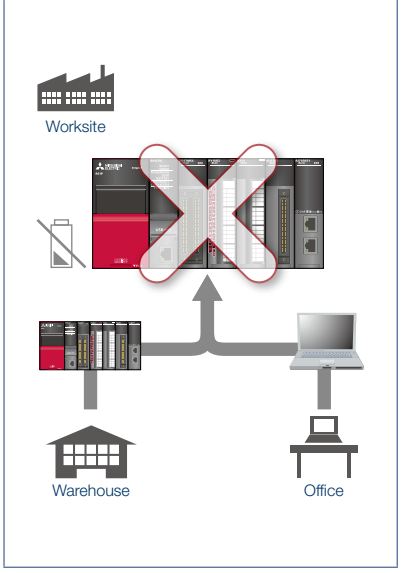
▶How to connect various devices?

Find your solution using GOT

In case of PLC error

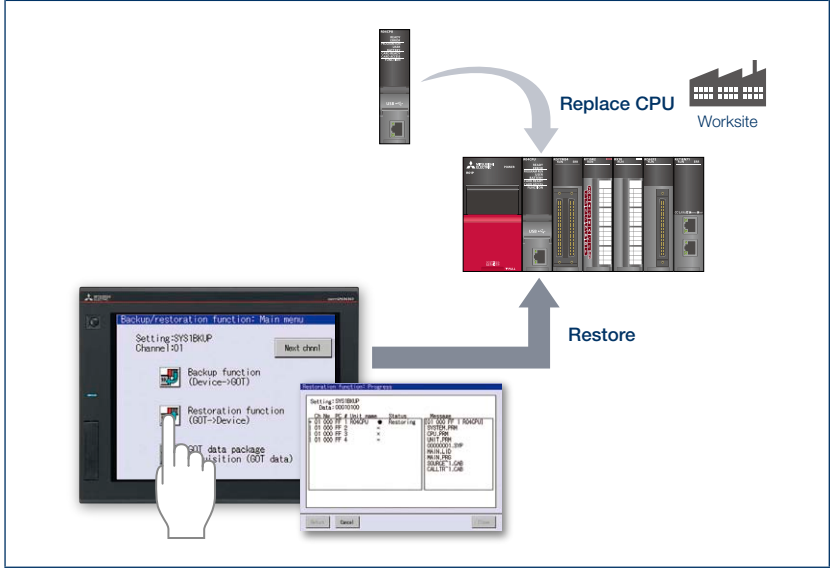
■ Backup/Restoration function

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!

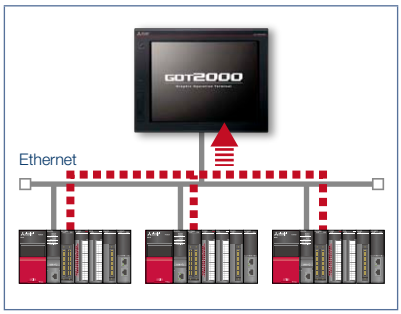


There is no need for a personal computer on the production floor. Simply use the GOT to write sequence programs to the controller and you can quickly recover the problem.

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.

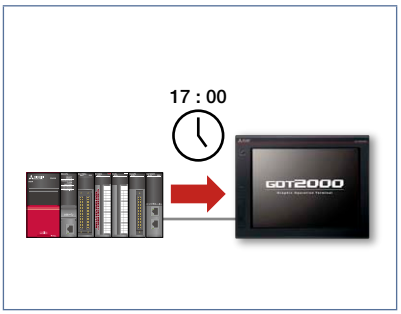
✻: Excluding GT2103-PMBLS



Back up multiple controllers

Multiple controllers connected on Ethernet can be backed up at the same time, reducing the time needed to back up each controller separately.

✻: Not supported by GT21.



Automatic backup

Besides manual backup from touch switches, you can specify a trigger device, a day of the week, and time for automatic backup.

✻: Not supported by GT21.

Specification details and major restrictions

✻: For the necessary option devices, please refer to the "Function list" (page 80).

● **Target models** RCPU✻1, QCPU (Q mode) (excluding Q12PRHCPU, Q25PRHCPU), LCPU, FXCPU, motion controller CPU (MELSEC iQ-R Series)✻1, motion controller CPU (Q Series) (SV13/SV22 only)✻1, robot controller✻1, CNC C70✻1

✻1: Not supported by GT21.

● **Supported connection types**✻1 Ethernet connection✻2, direct CPU connection, serial communication connection, bus connection

✻1: For the details of connectable models of each connection type, please refer to the "Connectable model list" (page 82).

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

● **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

Supported devices

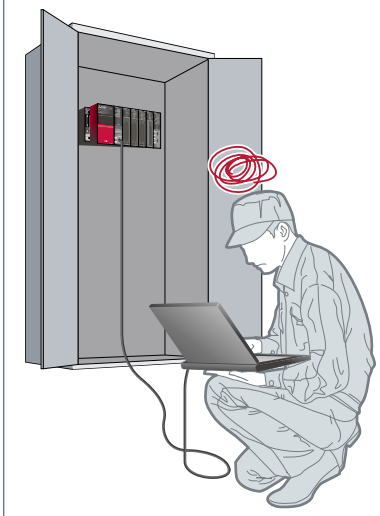
PLC | Servo | Inverter | Sensorless | Robot | CNC

Check the PLC module status

NEW

■ System launcher function

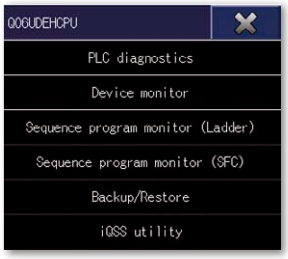
Having problems?



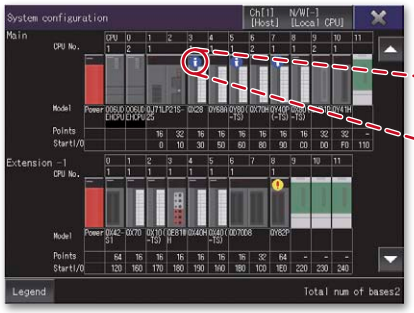
Can I check the status of the programmable controller system without a personal computer?

GOT will solve your problems!

Extended function list



System configuration diagram



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

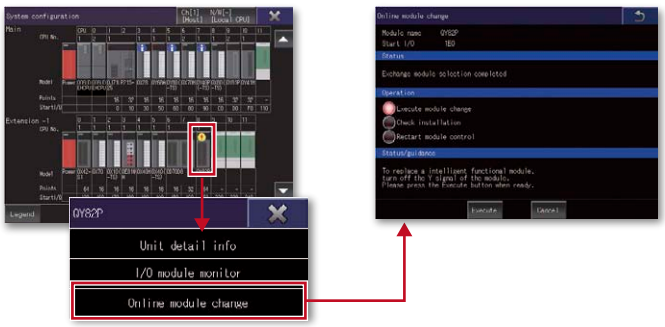
A graphical configuration diagram indicates module statuses. When you touch a module the extended function list is shown and you can carry out maintenance work efficiently.

Function features

The programmable controller system can easily be checked on a GOT. You do not need to have a personal computer at the worksite.

Starting extended function quickly

When you touch a module in the system configuration diagram, the extended function list is shown and you can carry out maintenance work efficiently.



Online module change function

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

Specification details and major restrictions

- **Target models** QCPU (Q mode), LCPU, motion controller CPU (Q Series), CNC C70, robot controller (CRnQ-700 only)
- **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 82).
※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 (SFC), network monitor, Q motion monitor, intelligent module monitor, backup/restoration※1, motion SFC monitor, CNC monitor, CNC data I/O, CNC machining program edit, iQSS utility

※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

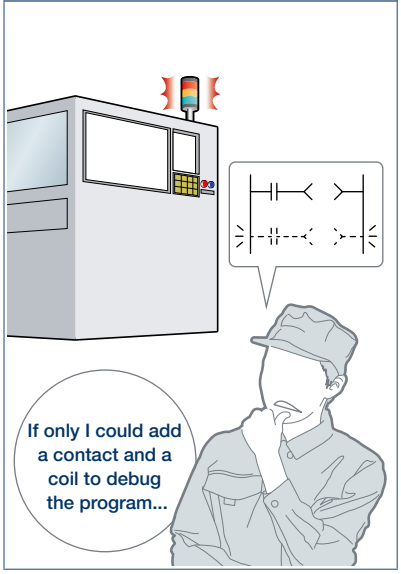
Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

Support RCPU, QCPU, LCPU maintenance

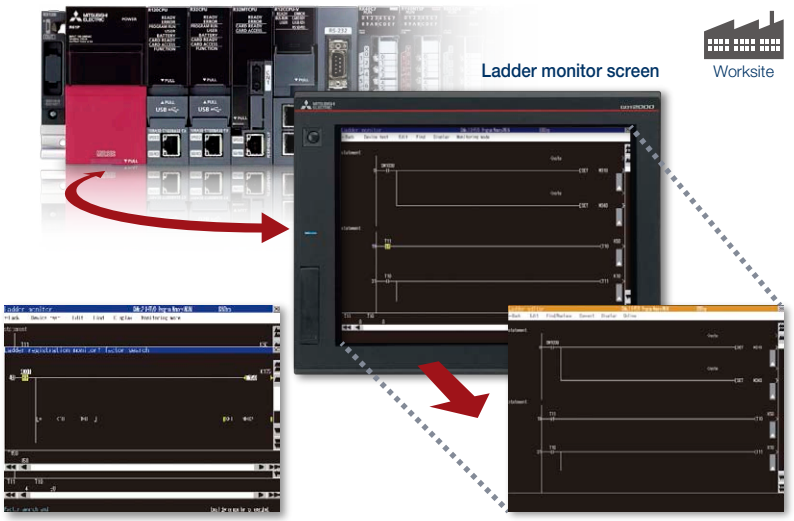
■ Sequence program monitor (Ladder) function

Having problems?



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

GOT will solve your problems!



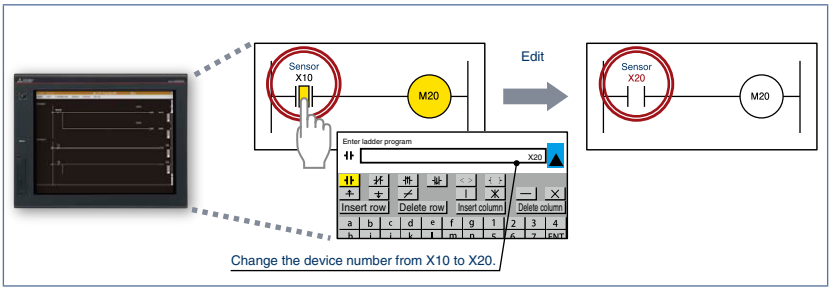
When an error occurs, monitor the ladder program and identify the cause of error. There is no need for a personal computer on the production floor. Just touch the GOT screen and easily edit the ladder program to make simple changes.

Function features

A 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 Mitsubishi programmable controllers can be monitored in the ladder format.



Ladder editor

Sequence programs of Mitsubishi programmable controllers 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 major restrictions

✻: For the necessary option devices, please refer to the "Function list" (page 80).

● **Target models** RCPU✻1, QCPU (Q mode)✻2, LCPU, motion controller CPU (Q Series)✻3, CNC C70
✻1: Excluding the R08PCPU, R16PCPU, R32PCPU, R120PCPU. Other RCPU models only support the ladder monitor.
✻2: Excluding the Q02PHCPU, Q06PHCPU, Q12PHCPU, Q25PHCPU, Q12PRHCPU, Q25PRHCPU.
✻3: Only the PLC CPU area (CPU No.1) in the Q170MCPU, Q170MSCPU 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 82).
✻2: When the CC-Link IE Field Network Ethernet adapter module is used, the sequence program monitor (Ladder) function cannot be used.

Recommended industries

Automotive | Electronics | Plant

Supported GOT types

GT27 | GT25 | GT23 | GT21

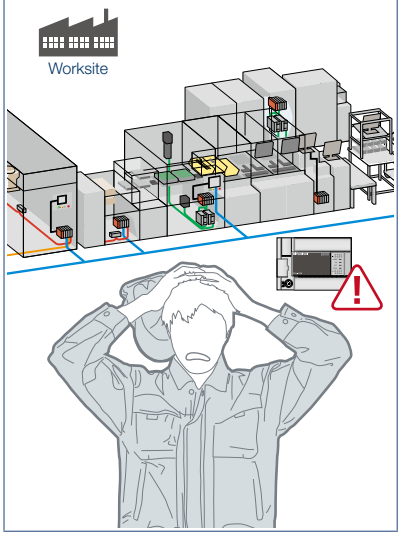
Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

Support FXCPU maintenance

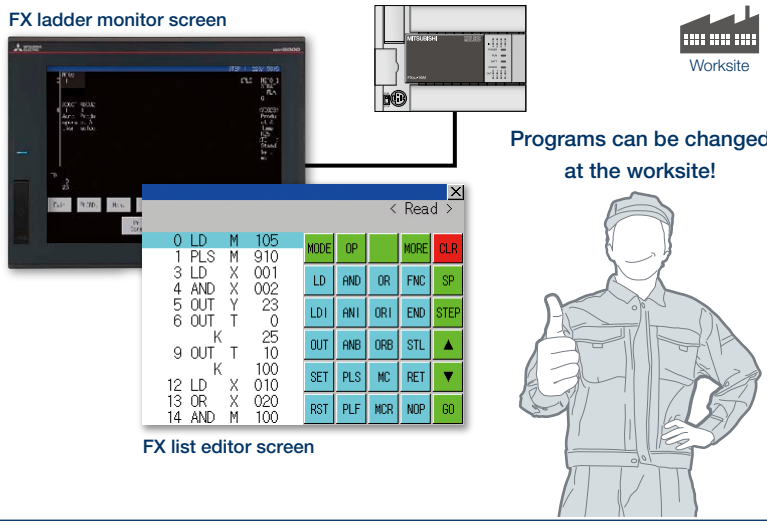
■ FX list editor function & FX ladder monitor function

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!

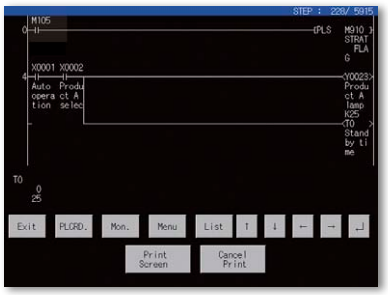


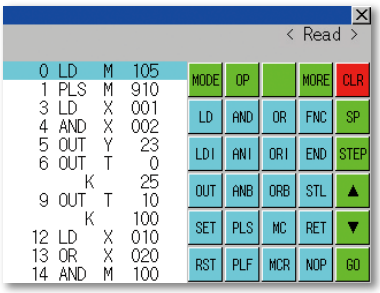
Sequence programs of the MELSEC-F Series programmable controllers can be edited in the list (command) format. Minor program changes can be applied even without a personal computer or a peripheral device.

Function features

Just by simple key operations you can check, partially correct, change, or add parameters or sequence programs of an FXCPU.
You can edit simple sequence programs without preparing any peripheral devices other than the GOT.

*: Supported by GT2104-R only among GT21.





Example of changing sequence program commands

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

Combination with the 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 major restrictions

<FX list editor>

- **Target models** FXCPU (excluding FX5U, FX5UC)
- **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 82).

- **Functions** Writing sequence programs, setting parameters, PLC diagnostics, registering keywords, etc.

<FX ladder monitor>

- **Target models** 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 82).

- **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

Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

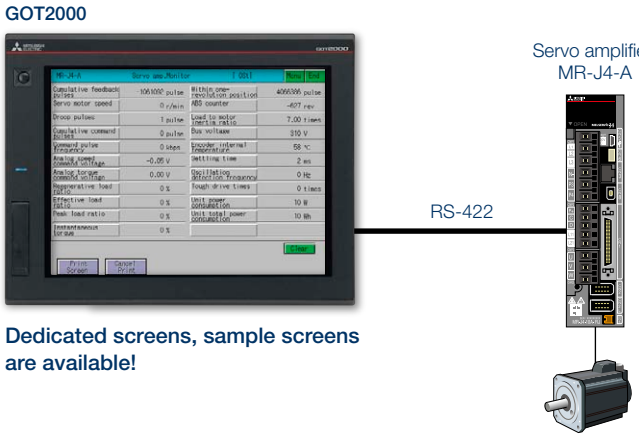
Support startup, adjustment of servo systems

■ Servo amplifier monitor function

Having problems?

It's good to have interaction functions but it's still hard to design setting screens from scratch...

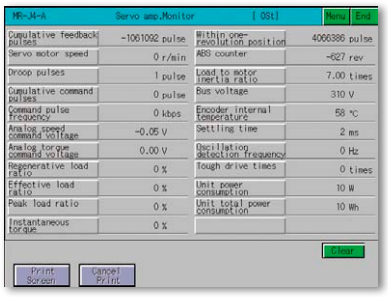
GOT will solve your problems!



In a system which outputs pulse strings, 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

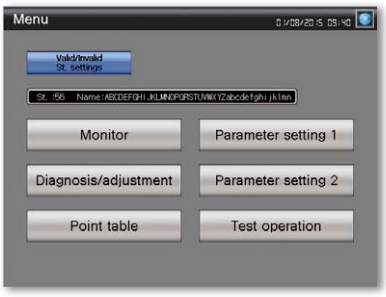
Various monitoring functions, changes to the parameter settings, and test operations can be performed on the servo amplifier connected to the GOT.



Dedicated screens

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

✻: Only GT27, GT25 are supported.



Sample screens (VGA)

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

Specification details and major restrictions

- **Target models** MELSERVO-J4 Series (MR-J4-A only), MELSERVO-J3 Series (MR-J3-A only), MELSERVO-J2-Super Series, MELSERVO-J2M Series

✻: 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 Ver.1.126G or later. For the details, please contact your local sales office.

Recommended industries

Automotive | Electronics | F & B | Pharma

Supported GOT types

GT27 | GT25 | GT23 | GT21

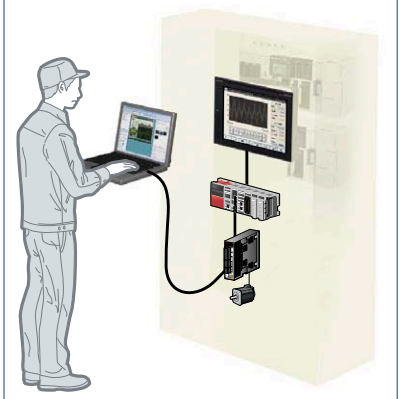
Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

Support startup, adjustment of servo systems

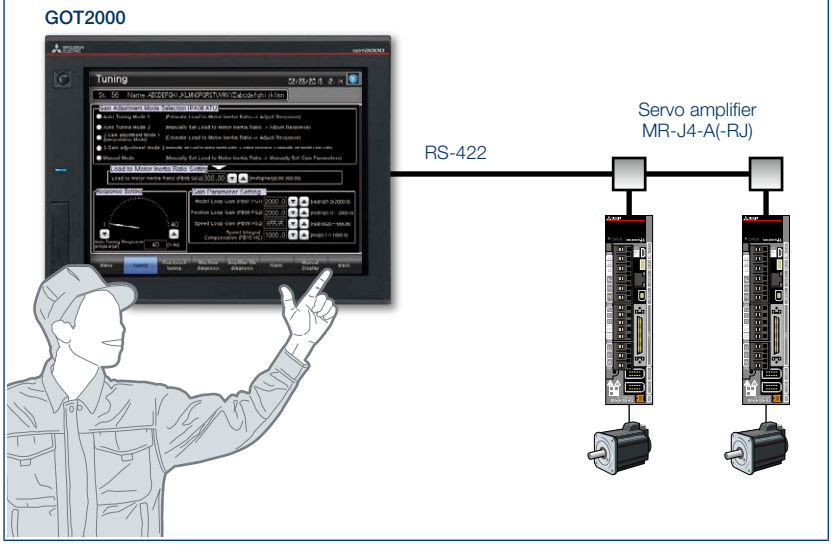
■ One-touch adjustment function/Gain adjustment function

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.

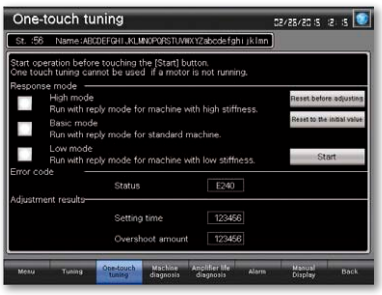
GOT will solve your problems!



A 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.

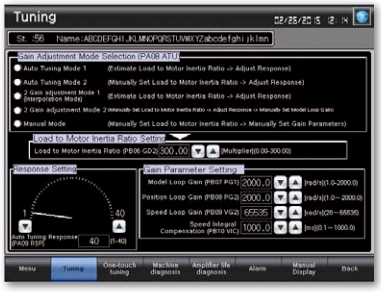
Function features

A GOT displays the adjustment screen that is equivalent to the adjustment functions of MR Configurator2.
You can easily adjust gains of servo amplifiers on the GOT without a personal computer.
Ready to use sample screens (VGA) are available.



One-touch adjustment screen

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



Gain adjustment screen

To obtain higher performance, you can adjust the model loop gain in the gain adjustment screen.

Specification details and major restrictions

- **Target models** MELSERVO-J4 Series (MR-J4-A(-RJ) only)
- **Supported connection types** Direct connection with a servo amplifier
- **How to obtain sample screens** Sample screens are included with GT Works3 Ver.1.126G or later. For the details, please contact your local sales office.

Recommended industries

Automotive | Electronics | F & B | Pharma

Supported GOT types

GT27 | GT25 | GT23 | GT21

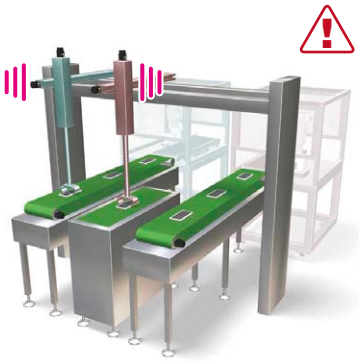
Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

Support servo system maintenance

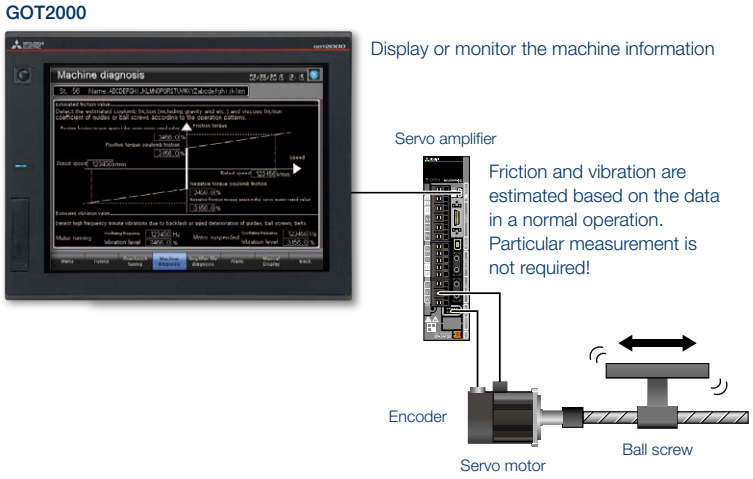
■ Machine diagnosis function/Servo amplifier life diagnosis function

Having problems?



How can I predict a machine life if it has excessive load and is frequently accelerated? Can I check the life of capacitors and relays of servo amplifiers?

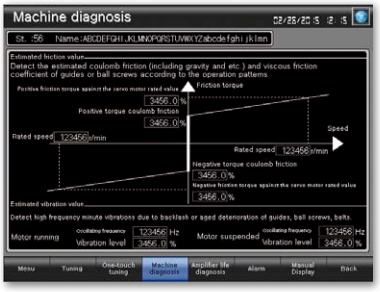
GOT will solve your problems!



By using with the GOT alarm function, you can predict the component life and the replacement timing of servo amplifier components in advance!

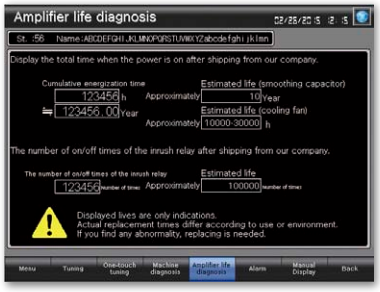
Function features

A GOT displays the 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.
Ready to use sample screens (VGA) are available.



Machine diagnosis screen

By using the internal data of a servo amplifier, calculate machine friction and vibration and display them on a GOT.
The difference between the initial value (at the startup) and the current value can be used to predict deterioration of the machine.



Servo amplifier life diagnosis screen

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

Specification details and major restrictions

- **Target models** MELSERVO-J4 Series (MR-J4-A(-RJ) only)
- **Supported connection types** Direct connection with a servo amplifier
- **How to obtain sample screens** Sample screens are included with GT Works3 Ver.1.126G or later. For the details, please contact your local sales office.

Recommended industries

Automotive | Electronics | F & B | Pharma

Supported GOT types

GT27 | GT25 | GT23 | GT21

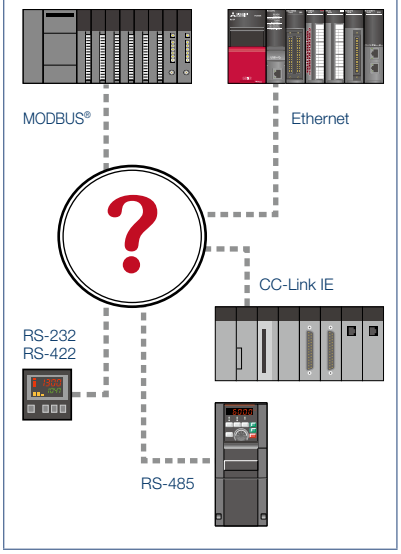
Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

Various controllers and connection types

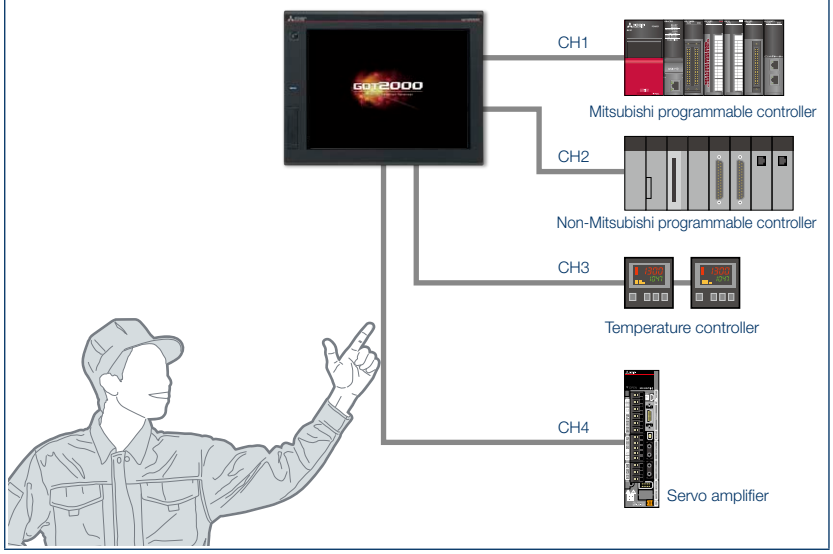
■ Multi-channel function/Device data transfer function

Having problems?



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

GOT will solve your problems!



A GOT supports various industrial devices and connection types. With the multi-channel function, four channels of industrial devices can be monitored on a GOT.

Function features

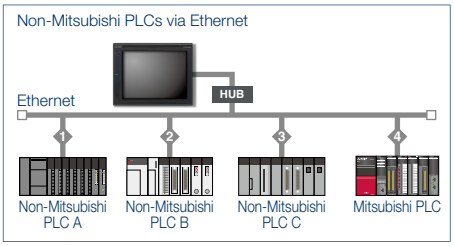
A GOT supports various industrial devices and connection types. With the multi-channel function and the device data transfer function, multiple types of industrial devices of different manufacturers can be monitored.

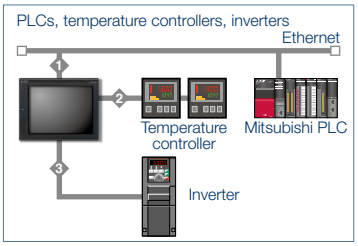
*: Excluding GT2103-PMBLS

Supported connection types

- Ethernet
- RS-232
- RS-422/485
- CC-Link IE Controller Network
- CC-Link IE Field Network
- CC-Link
- Bus
- MELSECNET
- MODBUS®

<Typical applications>





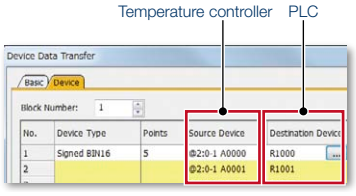
Multi-channel function

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

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 major 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 an appropriate manual.

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

Easy debugging

■ 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.

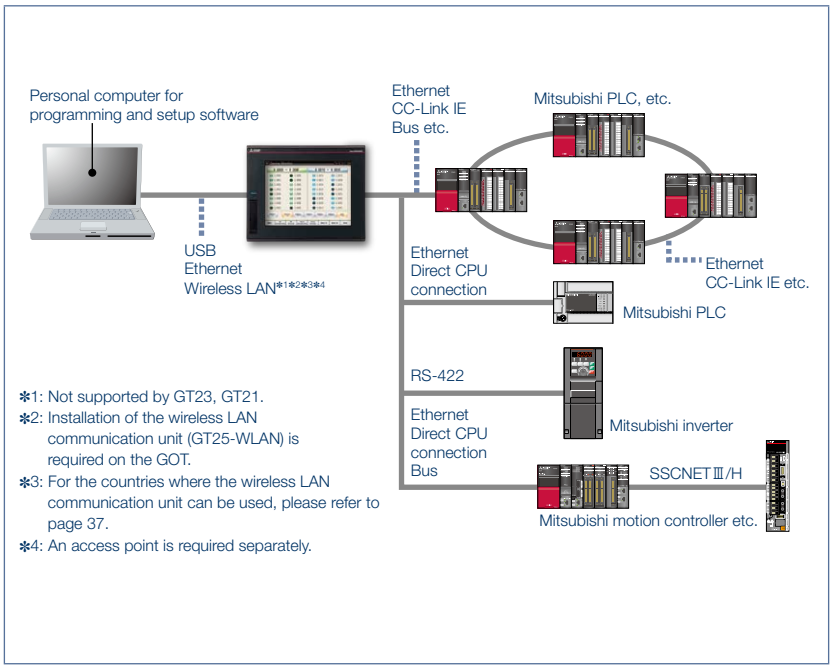
Function features

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

GOT screen data can be transferred from a personal computer to the GOT2000 with a programmable controller acting as a gateway. Editing GOT project data during startup and maintenance of a programmable controller is now easier than ever.

✻: This feature does not apply to a GOT connected to a CPU's built-in Ethernet port.



✻1: Not supported by 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, please refer to page 37.
✻4: An access point is required separately.

Specification details and major restrictions

● **Supported devices, connection types, and compatible software** For the details, please refer to an appropriate manual.

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

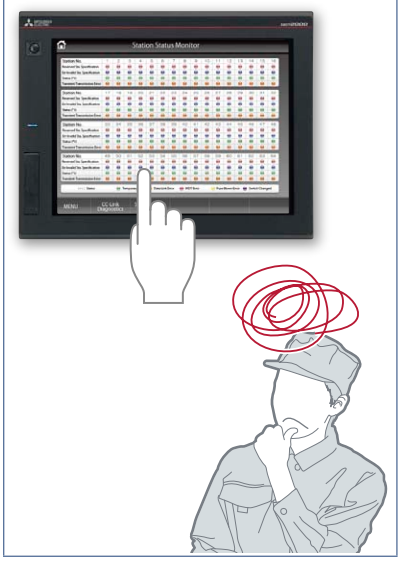
Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

Simple touch operations

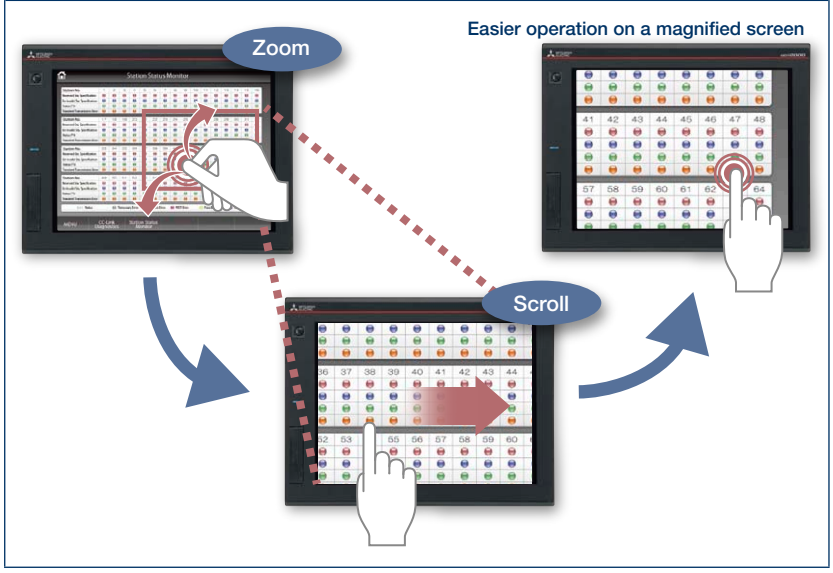
■ Gesture function

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 major 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

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

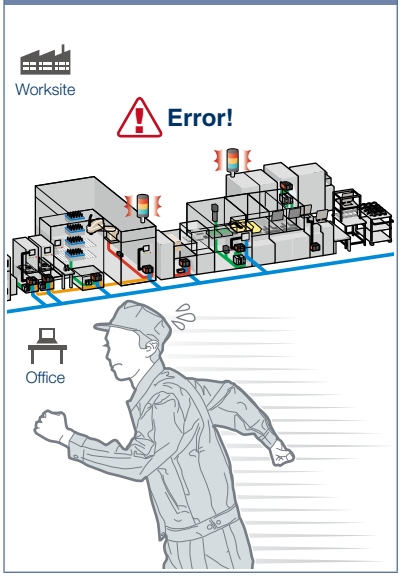
Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

Operate the GOT from a remote PC or tablet

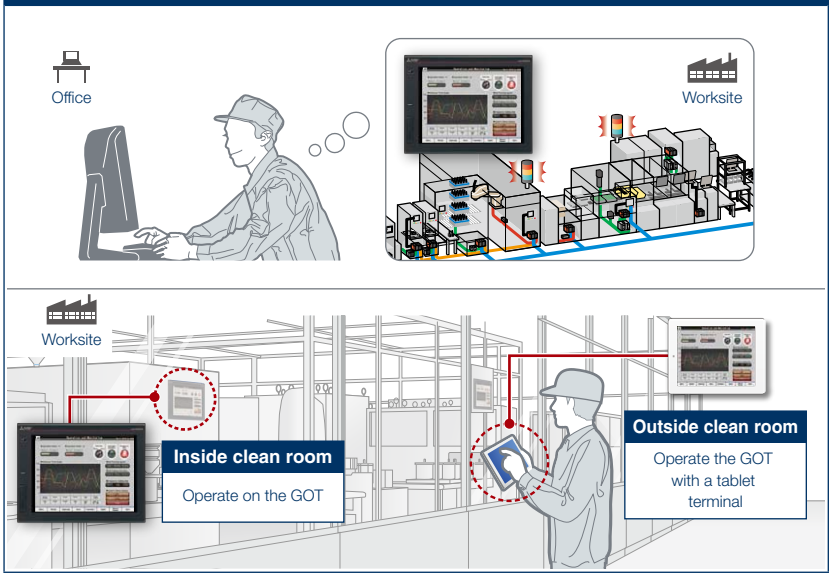
■ GOT remote access function (VNC server function)

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!

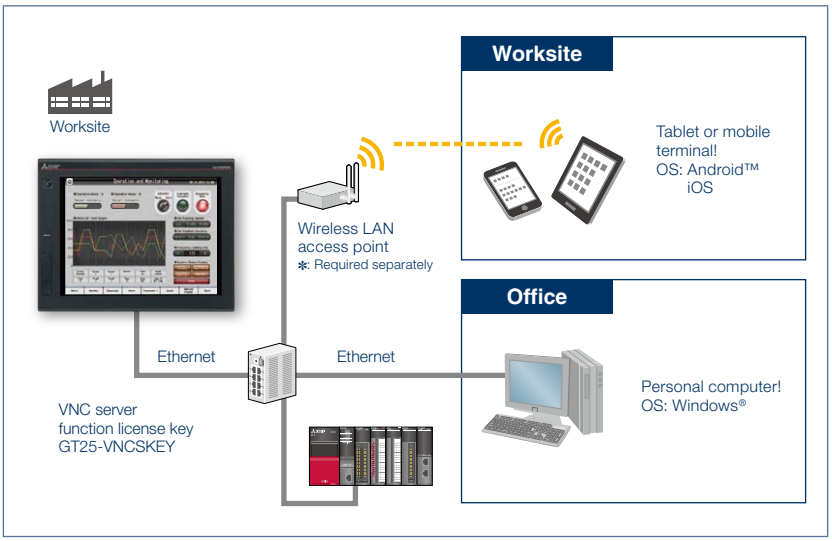


You do not need to visit the worksite. Monitor the GOT from a remote location, and you can take corrective actions quickly.

Function features

Remotely view and operate the GOT screen from a personal computer, tablet, or mobile terminal. The exclusive control of operating authority prevents operational errors that might be caused by simultaneous operation of the GOT. In addition, setting passwords prevents illegal view or operation of the GOT. Utility functions including the sequence program monitor and the network monitor are also supported.

✻: A separate license (GT25-VNCSKEY) is required.



Specification details and major restrictions

✻: For the necessary option devices, please refer to the "Function list" (page 80).

● **Applicable VNC client software** Please refer to the Technical Bulletin No. GOT-A-0069.

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

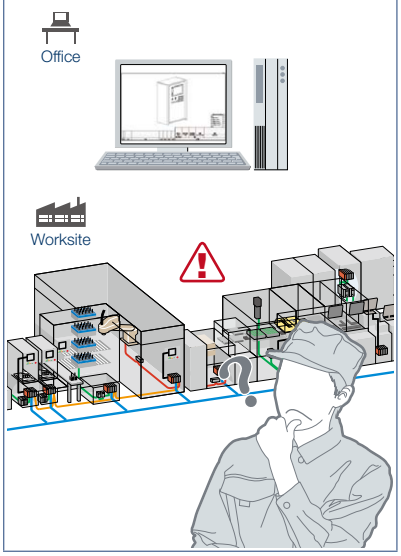
Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

Operate the PC from a remote GOT

■ 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!

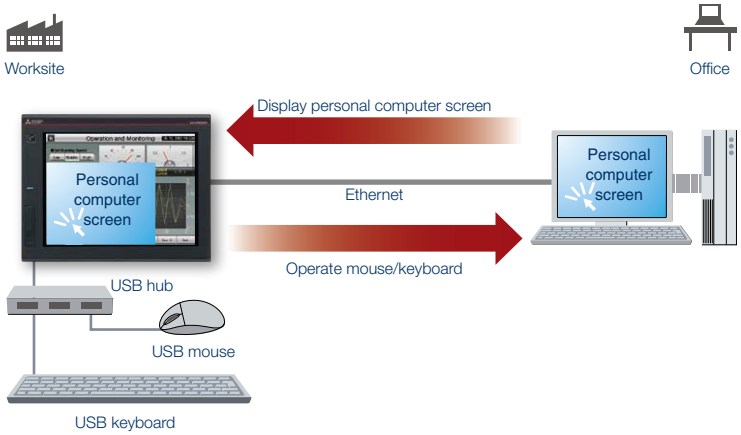
On a GOT at the worksite, you can operate a personal computer in a remote location and view manuals and drawings in the computer.

Function features

Connect a 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 browser on the computer.

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

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



*: For the necessary option devices, please refer to the "Function list" (page 80).

Recommended industries

Electronics | F & B | Plant

Supported GOT types

GT27 | GT25 | GT23 | GT21

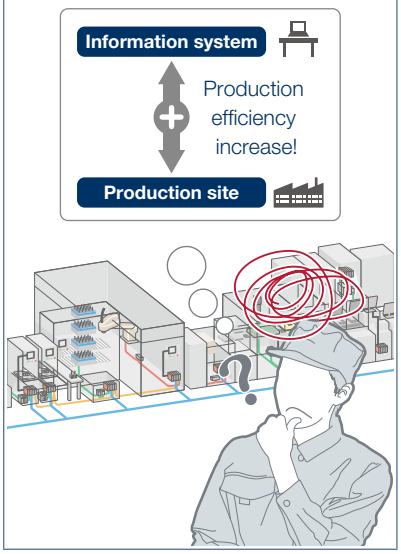
Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

Easy interaction with database

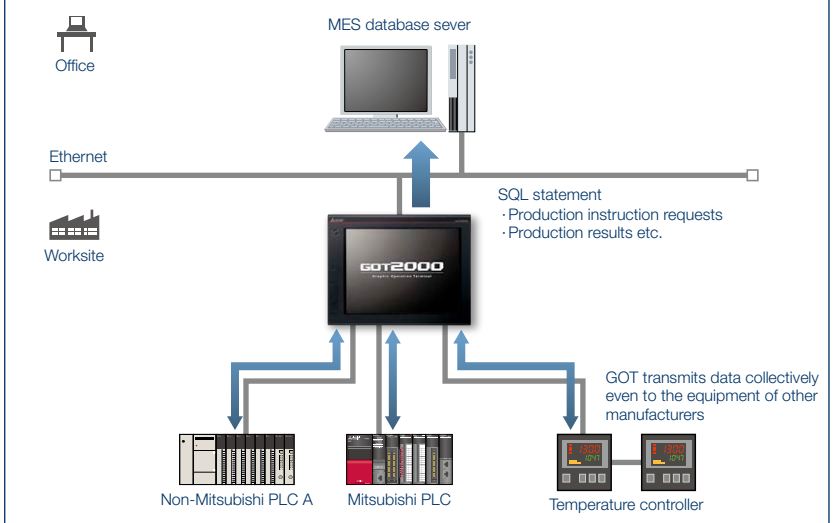
■ MES interface function

Having problems?



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

GOT will solve your problems!



A 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.

Transferring data of various devices collectively

A 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.

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.

Specification details and major restrictions

*: For the necessary option devices, please refer to the "Function list" (page 80).

● **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® 2012/2008 R2/2008*2 ·Microsoft® SQL Server® 2005/2000*3 ·Microsoft® SQL Server® 2000 Desktop Engine (MSDE2000) ·Microsoft® Access® 2013*3 ·Microsoft® Access® 2010*2 ·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 | Sensorless | Robot | CNC

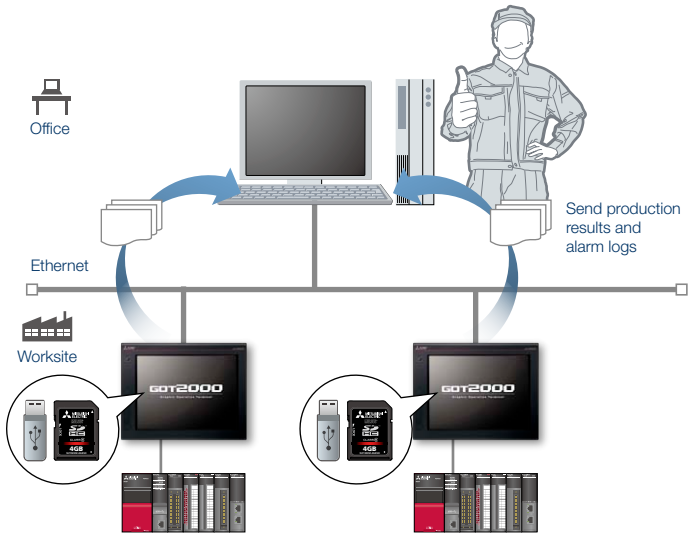
Send and retrieve files between GOT and PC

■ File transfer (FTP client) function

Having problems?

How can I check daily production results on a personal computer at my office? It's bothersome to go to the worksite and obtain data.

GOT will solve your problems!



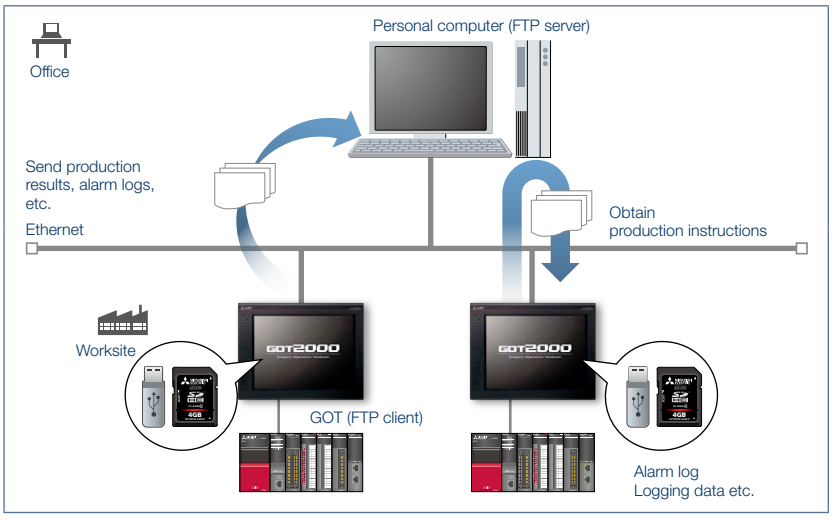
By using a GOT, production results can be stored on the GOT's SD memory card or USB memory and sent to a personal computer. The GOT can also receive production instructions from the personal computer.

Function features

By using a GOT, files stored on the GOT's SD memory card or USB memory can be sent to or received from a personal computer.

Setting names indirectly

File names and folder names can be specified indirectly. You can make one setting and reuse it by changing the transfer destination, transfer source, and file names depending on conditions.



✻: For the necessary option devices, please refer to the "Function list" (page 80)

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

Support screen design

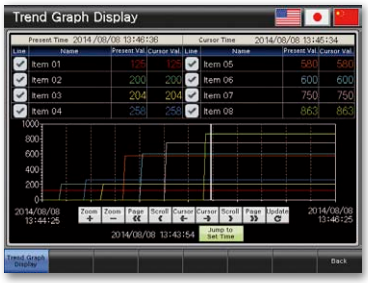
■ Standard screen samples [English, Japanese, Chinese (Simplified)]

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)

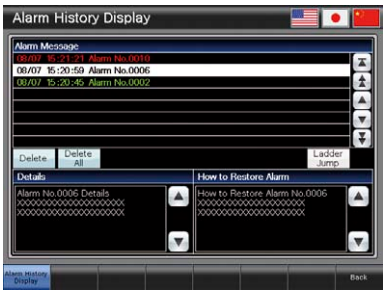
Monitors or resets counters for the data such as production volume and tool use

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 [English, Japanese, Chinese (Simplified)]

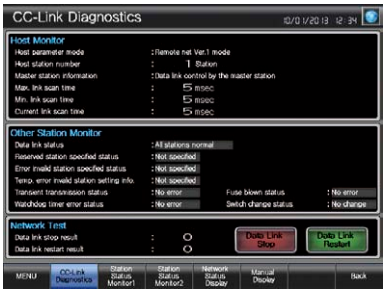
These are sample screens that you can feel GOT2000 recommended functions.

Recipe

Provides samples to use the recipe function easily

Script (file operation function)

Displays the list of files in an SD memory card. You can select files to delete or copy to a USB memory.



CC-Link network monitor

Displays the CC-Link network status (host station, other stations, errors, etc.)

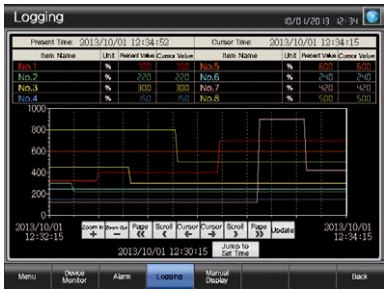
Specification details and major restrictions

- **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** Alarm function (level, sort), alarm function (hierarchy), device monitor function, Kana-Kanji conversion function, AnyWireASLINK network monitor function, etc.
- **How to obtain sample screens** Sample screens are included with GT Works3. For the details, please contact your local sales office.

Support connection with industrial devices

■ Connection samples [English, Japanese, Chinese (Simplified)]

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.

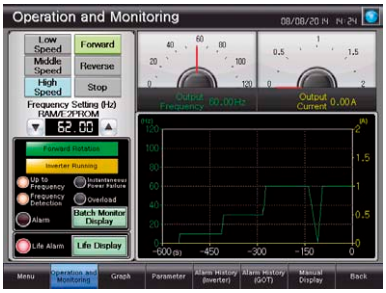


Mitsubishi programmable controller

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

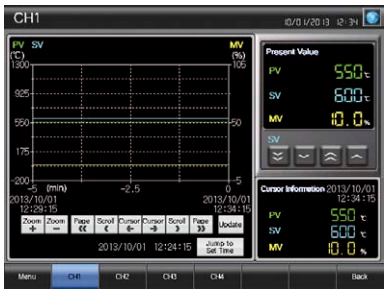
Mitsubishi servo amplifier

- MELSERVO-J4 Series MR-J4-A-RJ
- MELSERVO-J4 Series MR-J4-A
- MELSERVO-J3 Series MR-J3-A



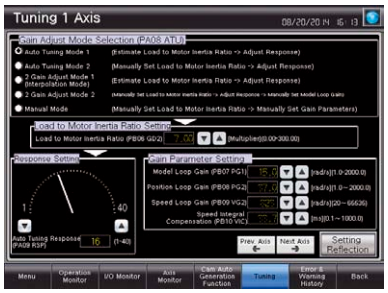
Mitsubishi inverter

- FREQROL-A800 Series FR-A820-15K
- FREQROL-F800 Series FR-F820-15K
- FREQROL-A700 Series FR-A720-0.4K
- FREQROL-F700P Series FR-F720P-0.75K
- FREQROL-E700 Series FR-E710W-0.1K
- FREQROL-D700 Series FR-D710W-0.1K



Mitsubishi temperature controller

- MELSEC-Q Series Q64TCTTN
- MELSEC-L Series L60TCTT



Mitsubishi other devices

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

Non-Mitsubishi industrial devices

- Robot controller
- Stepping motor
- Network signal tower
- Temperature controller

etc.

■ Using sample screens

In the GT Works3 menu, select [Screen] → [New] → [Utilize Data].

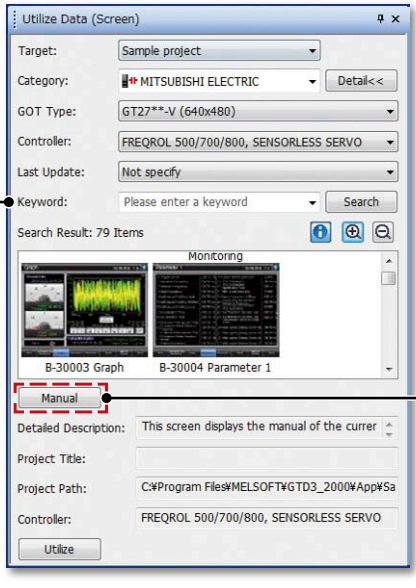
Select "Sample Project" as the Target on the Utilize Data screen

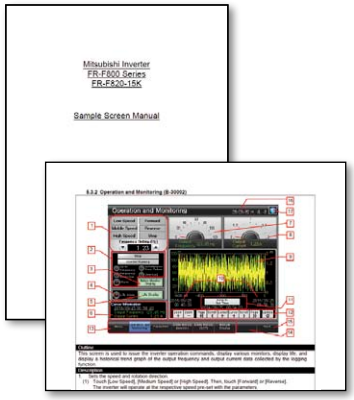
↓

Select or input (arbitrary) a keyword

↓

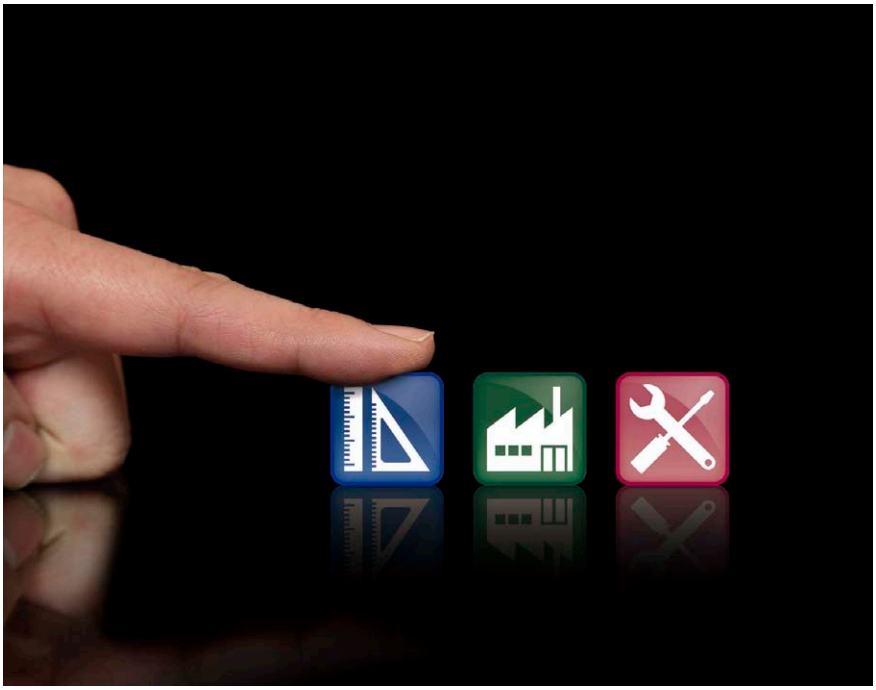
Select from the search results, and press the Utilize button

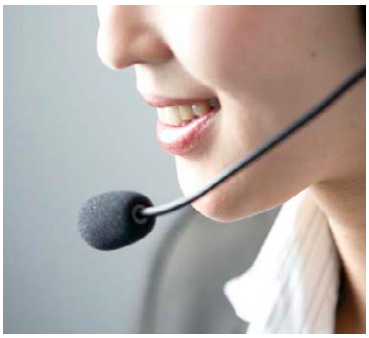




In the sample screen manual, check the details of settings and functions

GOT2000 Solutions Functions





Support system design

Support system operation

Functions designed to meet your requirements

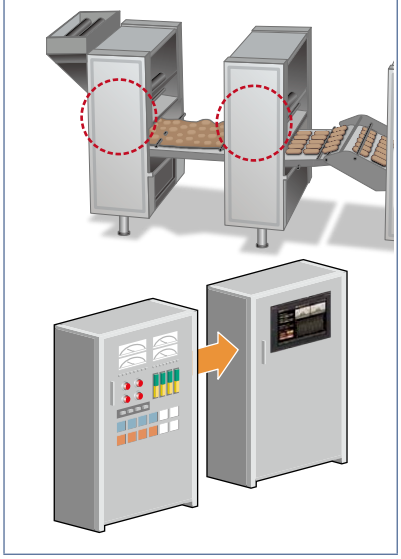
Support maintenance work

Access to extensive lineup

Support system design

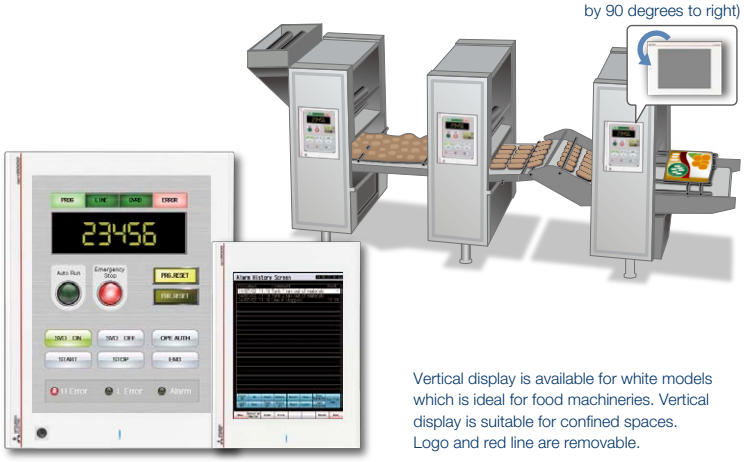
■ Enhanced lineup

Having problems?



I want to use an HMI suitable for confined spaces and white-colored machines...

GOT will solve your problems!



The GOT2000 Series has an extensive lineup, including standard models, compact models, and white models. Furthermore, vertical display is designed to be suitable for applications in various kinds of industries.

Function features

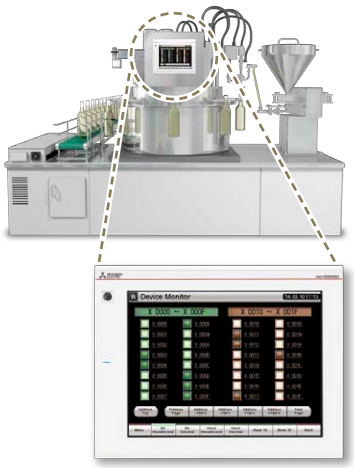
The powerful and flexible lineup includes GOTs with various features and communication options to tackle any application you may encounter.

Vertical display

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

Recommended industries

F & B | Pharma | Transport



White model

The GT27/GT25 white model provides an additional color option. Flush flame without a USB port reduces the time to clean the GOT.
(GT27 model, GT25 model)

Recommended industries

F & B | Pharma

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

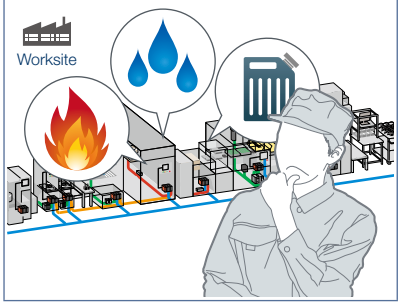
F & B | Pharma | Transport

Excellent compatibility

Support system design

■ Devices 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!

Approved use in hazardous locations
A GOT is acceptable for use in Class I, Division 2 hazardous locations. (White model only)

Water, dust, and oil-proof
IP67F for the front surface. A GOT is acceptable for use in areas where water or oil are present. (All models)

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

Specification details and major restrictions

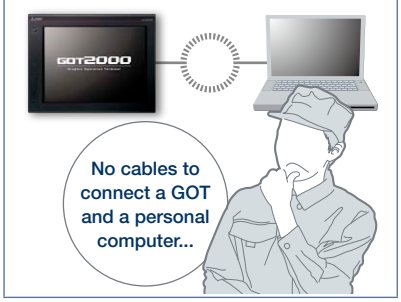
● **Class I, Division 2** This classification means that the equipment has been approved for use in Class I, Division 2 hazardous locations.
● **IP67F** To conform to IP67F, close the USB environmental protection cover by pushing the [PUSH] mark firmly. Note that the structure does not guarantee protection 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.

Recommended industries

Automotive | SEMICON, LCD | Electronics | F & B

■ Wireless LAN communication unit

Having problems?



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

GOT will solve your problems!

With the wireless LAN communication unit and FA transparent function, the GOT acts as a transparent gateway to enable project data transfer, startup, and adjustment of industrial automation systems even without a cable connection.

The wireless LAN connection between a GOT and a personal computer is supported.✻1✻2

✻1: Not supported by GT23, GT21.
✻2: Installation of the wireless LAN communication unit (GT25-WLAN) is required on the GOT.

Specification details and major restrictions

✻: For the necessary option devices, please refer to the "Function list" (page 80).

● **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), the EU member states, Switzerland, Norway, Iceland, and Liechtenstein (R&TTE).

Recommended industries

Automotive | SEMICON, LCD | Electronics | F & B

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

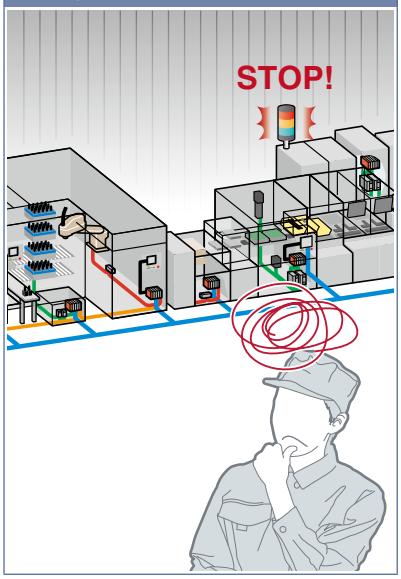
PLC | Servo | Inverter | Sensorless | Robot | CNC

Record/Playback videos to see what happened at worksite

Support system design

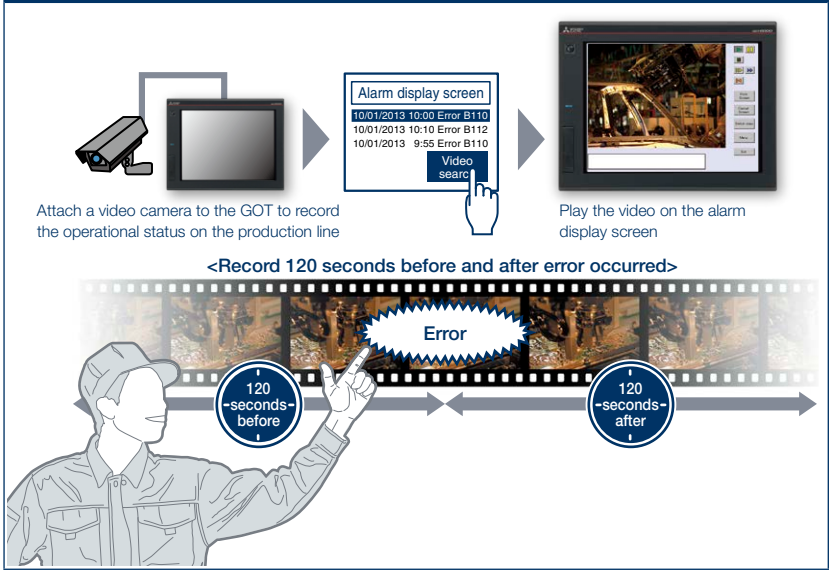
■ Multimedia Function

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!

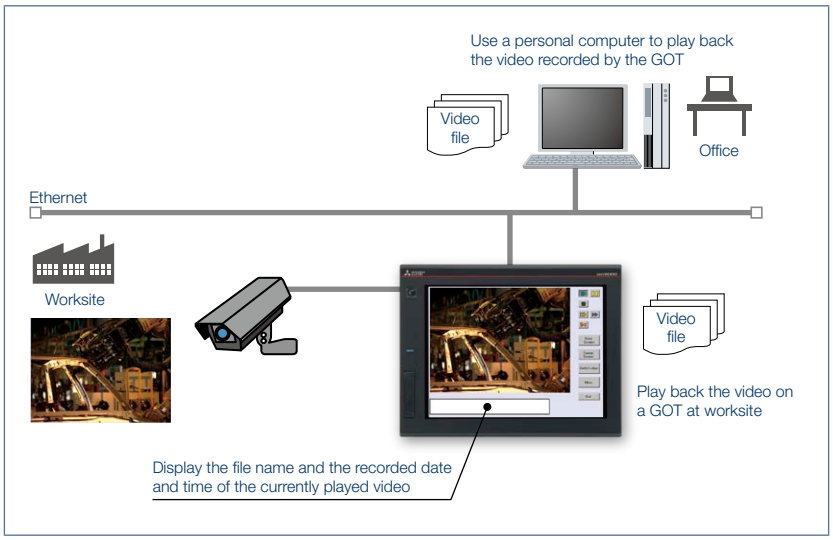


A GOT records the operational status on the production line and plays back the recorded video image. Visual clarity of the image helps you to analyze the cause of the error.

Function features

A 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 major restrictions

✻: For the necessary option devices, please refer to the "Function list" (page 80).

● **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

Supported devices

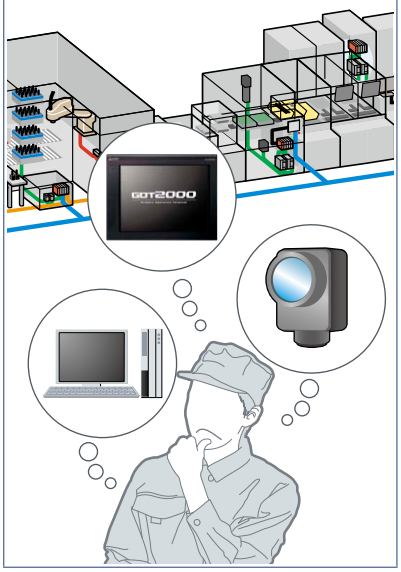
PLC | Servo | Inverter | Sensorless | Robot | CNC

Monitor worksite using video images

Support system design

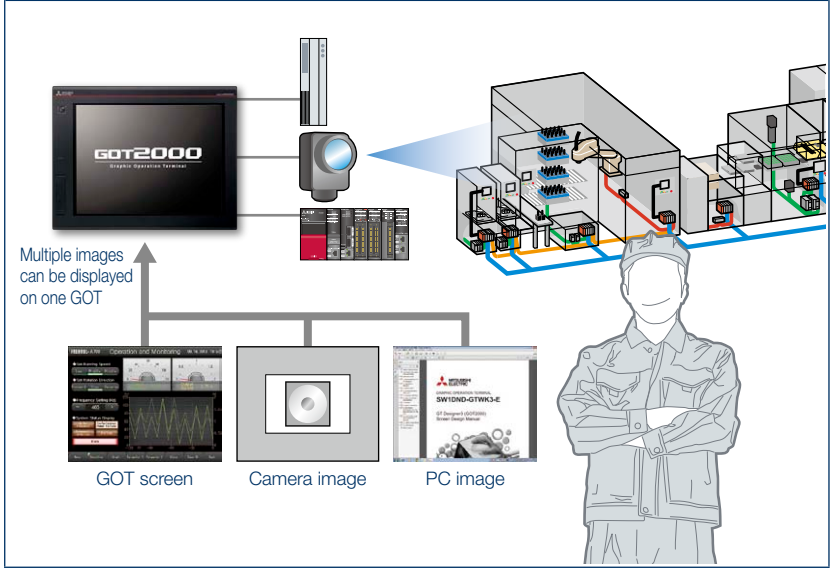
■ Video/RGB function

Having problems?



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

GOT will solve your problems!



A 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

A 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.
GT27-R2 enables the simultaneous two-channel display of RGB images. You can use various effects for the images, such as rotation, zooming in/out (400%), and scrolling by multi-touch gestures.*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 major restrictions

*: For the necessary option devices, please refer to the "Function list" (page 80).

- **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

Supported devices

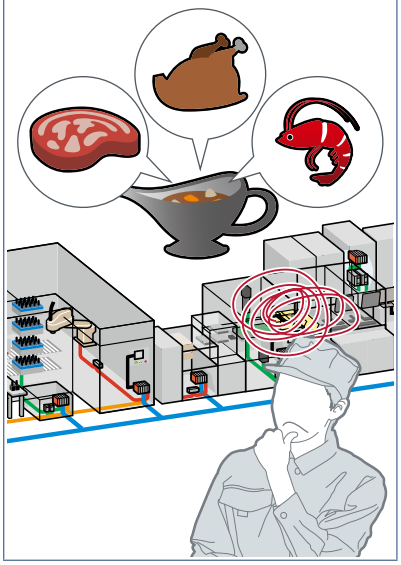
PLC | Servo | Inverter | Sensorless | Robot | CNC

Quick changeover

Support system operation

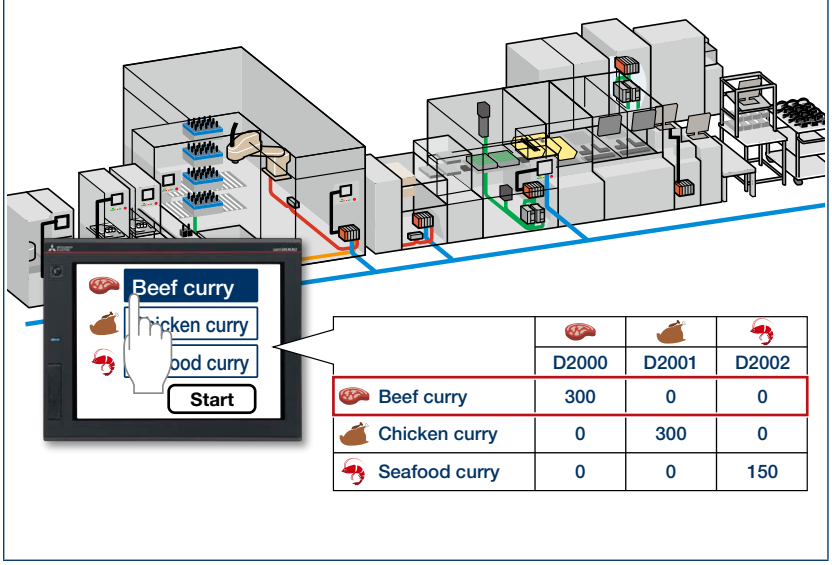
■ Recipe function

Having problems?



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

GOT will solve your problems!



	D2000	D2001	D2002
Beef curry	300	0	0
Chicken curry	0	300	0
Seafood curry	0	0	150

A 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

A 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.

Changeover on user-created screen

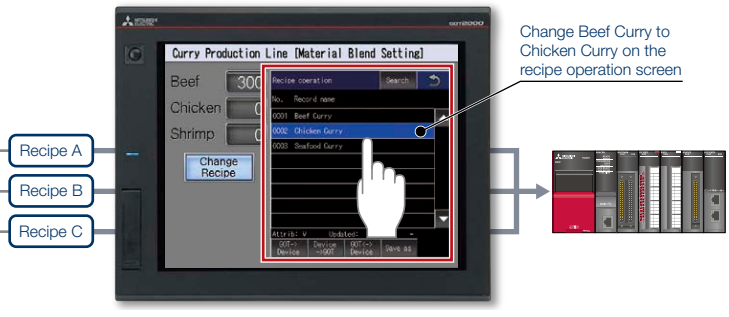
Select a recipe file name and record name on a user-created screen to change the recipe (changeover).

*: Not supported by GT21.

File conversion for personal computer

The recipe file can be converted into a CSV file or Unicode® text file so that the file can be easily edited on a personal computer.

Device	D1000	D2000	D2001	D2002
Device format	Character string	BIN	BIN	BIN
Device comment	Product name	Beef	Chicken	Seafood
Device value	Beef curry	300	0	0
Device value	Chicken curry	0	300	0
Device value	Seafood curry	0	0	150



Specification details and major restrictions

*: For the necessary option devices, please refer to the "Function list" (page 80).

● **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

Supported devices

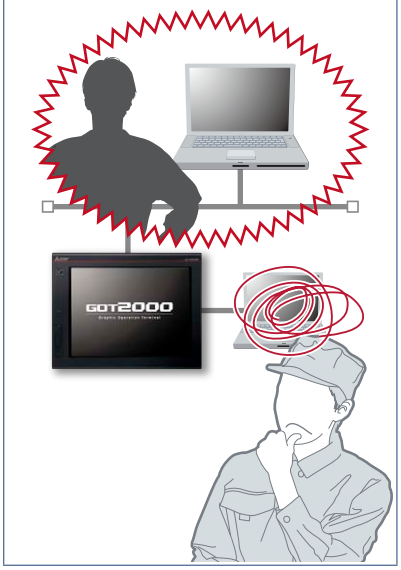
PLC | Servo | Inverter | Sensorless | Robot | CNC

Protect valuable assets

Support system operation

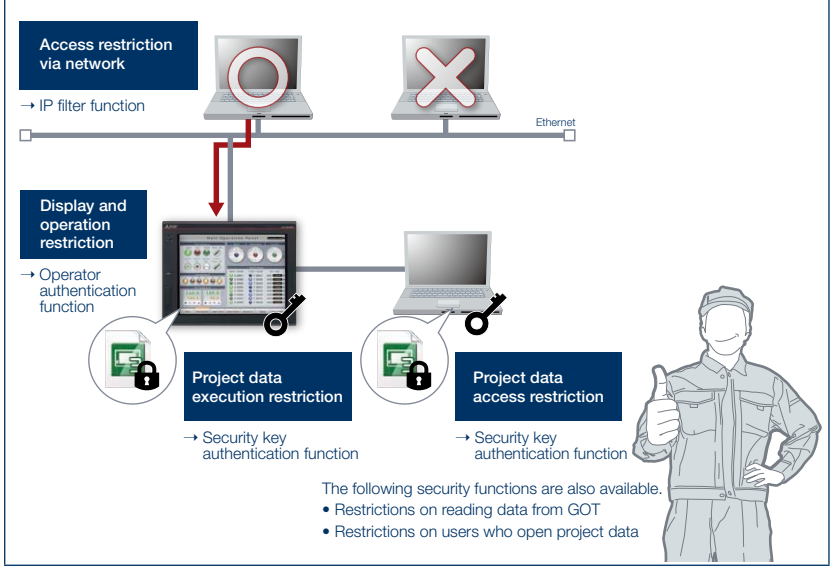
■ Various security functions

Having problems?



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

GOT will solve your problems!



To protect customers' assets, a 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.

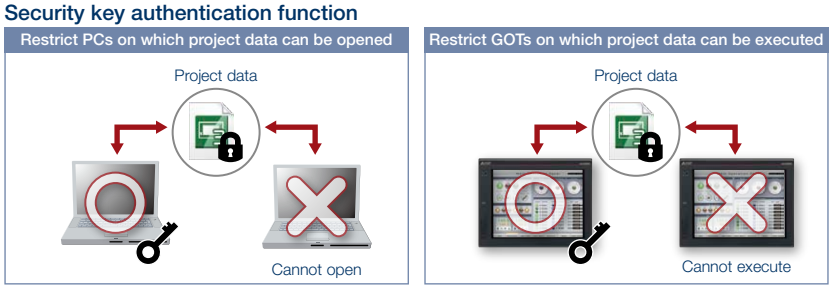
Prevent data alteration and duplication [Security key authentication function]

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.

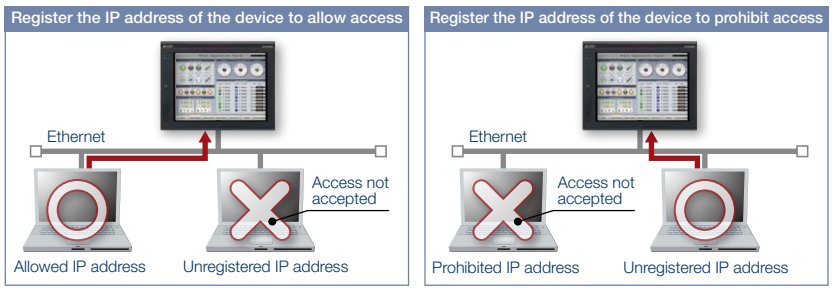
Reduce risk of unauthorized access through network [IP filter function]

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

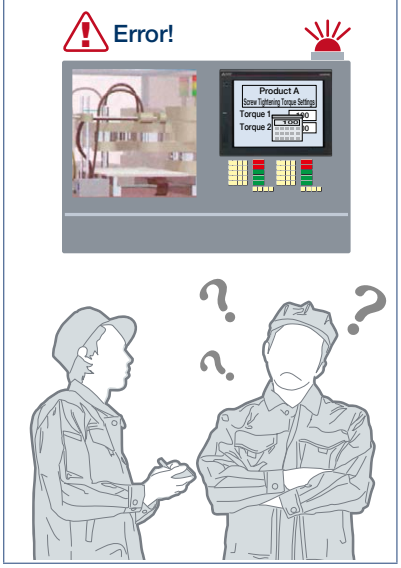
PLC | Servo | Inverter | Sensorless | Robot | CNC

Identify error cause based on history information

Support system operation

■ Operation log function

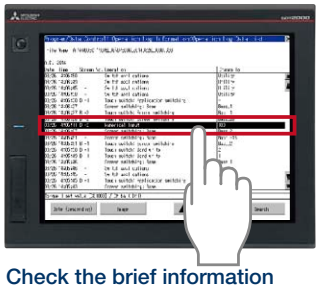
Having problems?



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

GOT will solve your problems!

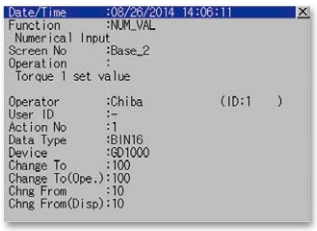
Operation log list



Check the brief information of the log

for more details...

Detailed information



Check the detailed information of the log

A 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

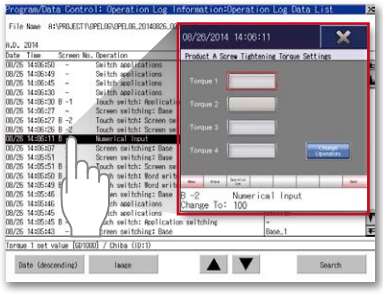
A GOT records the operation information, such as “when, how, for what” the operation was performed, in chronological order in an SD memory card or USB memory.
Use of the operation log function combined with the operator authentication function (page 43) records additional information of “who” performed 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 a 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 80).

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

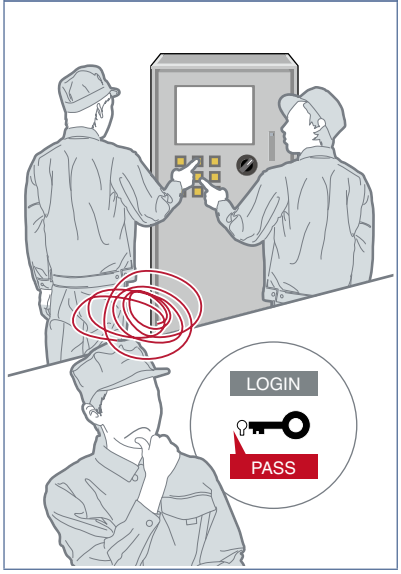
PLC | Servo | Inverter | Sensorless | Robot | CNC

Security with password management

Support system operation

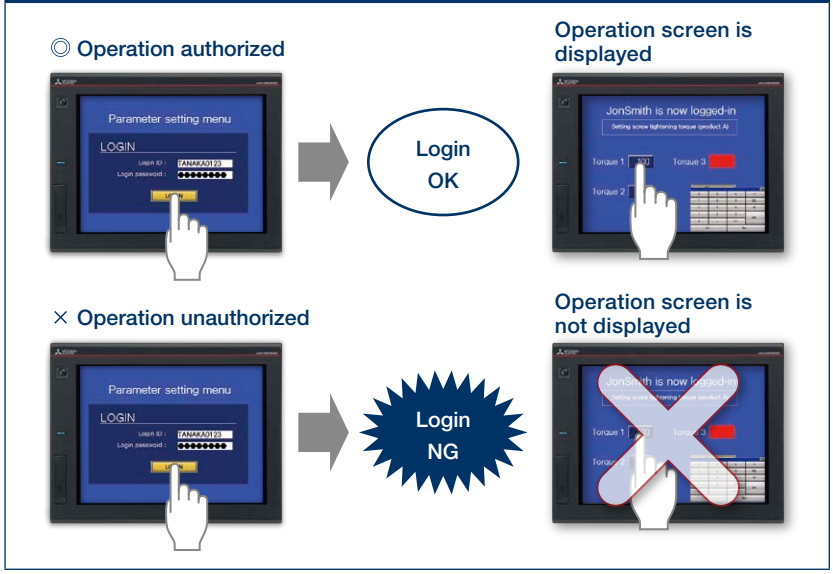
■ Operator authentication function

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 viewing authority achieves “enhanced security” and “access management per operator”. Use of the operator authentication function combined with the operation log function (page 42) enables you to check that “who, when, how, for what” the operation was performed.

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 80).

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

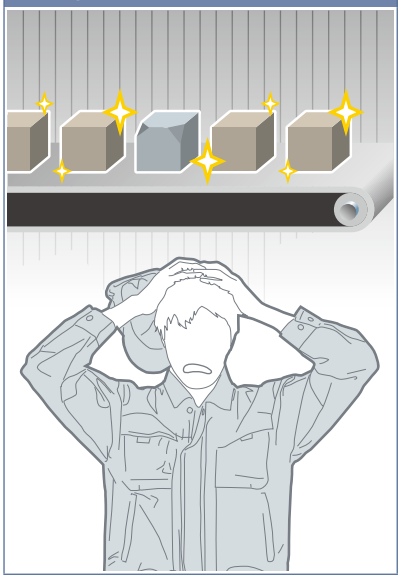
PLC | Servo | Inverter | Sensorless | Robot | CNC

Easy data collection

Support system operation

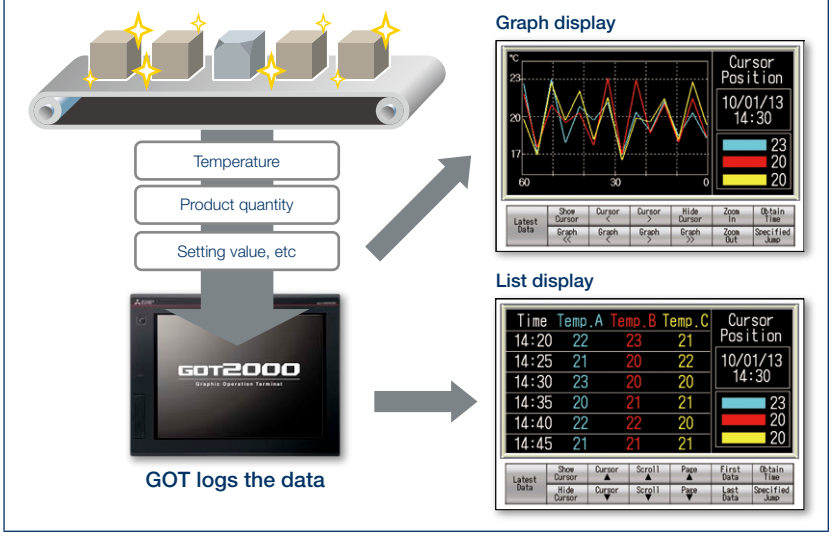
■ Logging & Graph/List

Having problems?



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

GOT will solve your problems!



A GOT collects the data from programmable controllers and temperature controllers 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.

Function features

A 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.

Analyze data on personal computer

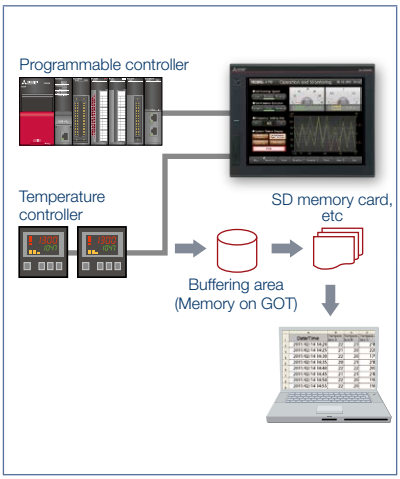
The logging data can be converted into a CSV file or Unicode® text file and saved to an SD memory card or USB memory so that the data can be displayed on a personal computer.

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 major restrictions

● **Supported device formats** Bit, BIN, BCD, Real, String

✻: For the necessary option devices, please refer to the “Function list” (page 80).

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

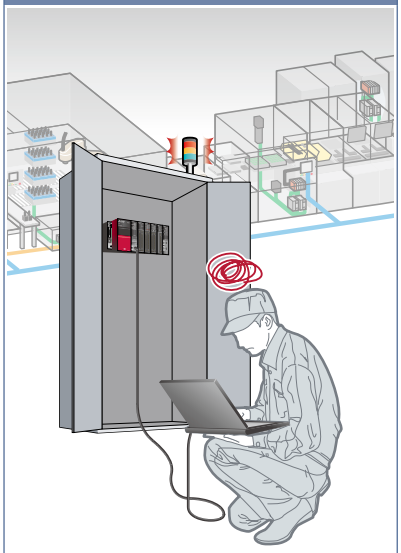
PLC | Servo | Inverter | Sensorless | Robot | CNC

Visually check logging data

Support system operation

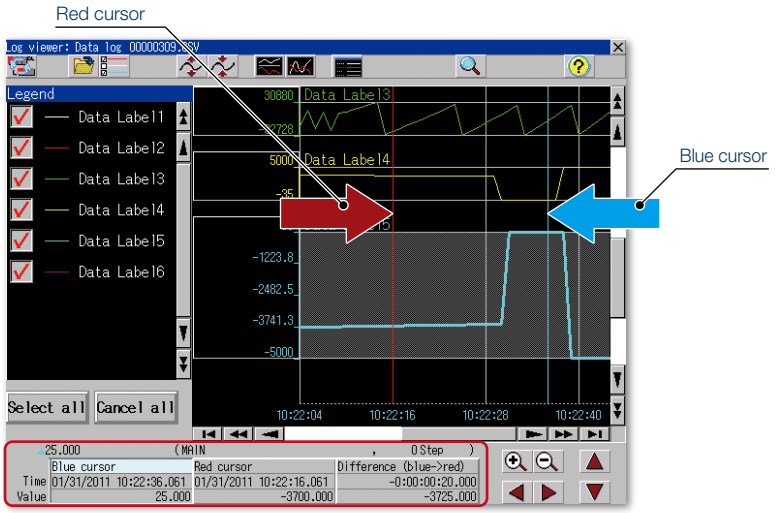
■ Log viewer function

Having problems?



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

GOT will solve your problems!



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

Function features

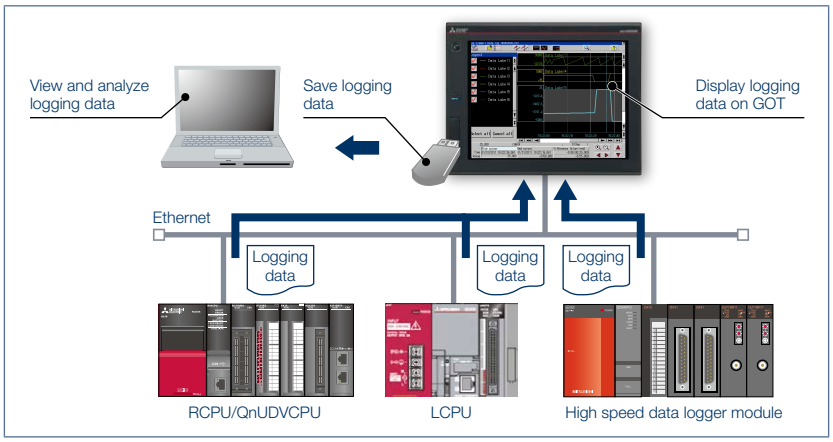
A GOT displays the logging data collected by the data logging function of RCPU, QnUDVCPU, LCPU, and high speed data logger module.

<Data to be displayed>

Logging data collected by the data logging (historical data display) of programmable controllers

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 obtained without opening a cabinet

The logging data can be copied to a USB memory device attached to a USB interface on the front 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.

Logging data can be easily changed

FA transparent function (page 26) 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.

✻: For the necessary option devices, please refer to the "Function list" (page 80).

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

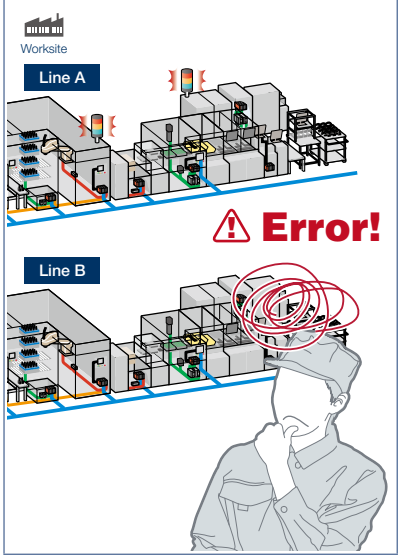
PLC | Servo | Inverter | Sensorless | Robot | CNC

Easily identify the cause of alarms

Support maintenance work

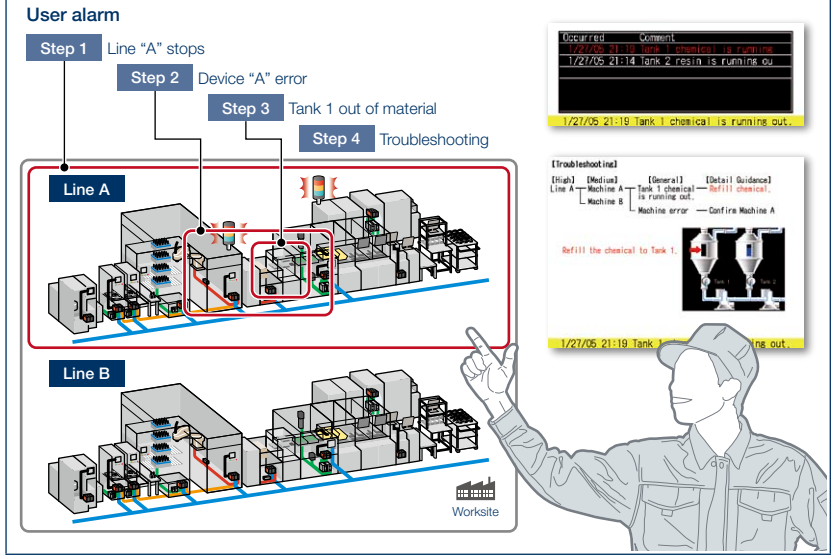
■ Alarm function

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

A 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]

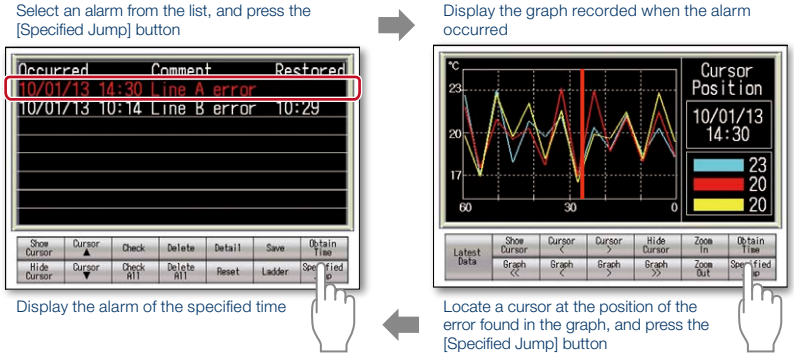
Alarm log data can be saved to a built-in SRAM even when the power supply has failed.

✻: 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



✻: For the necessary option devices, please refer to the "Function list" (page 80).

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

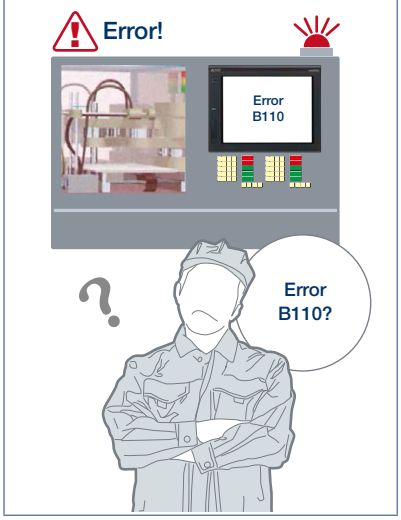
PLC | Servo | Inverter | Sensorless | Robot | CNC

Quick troubleshooting at worksite

Support maintenance work

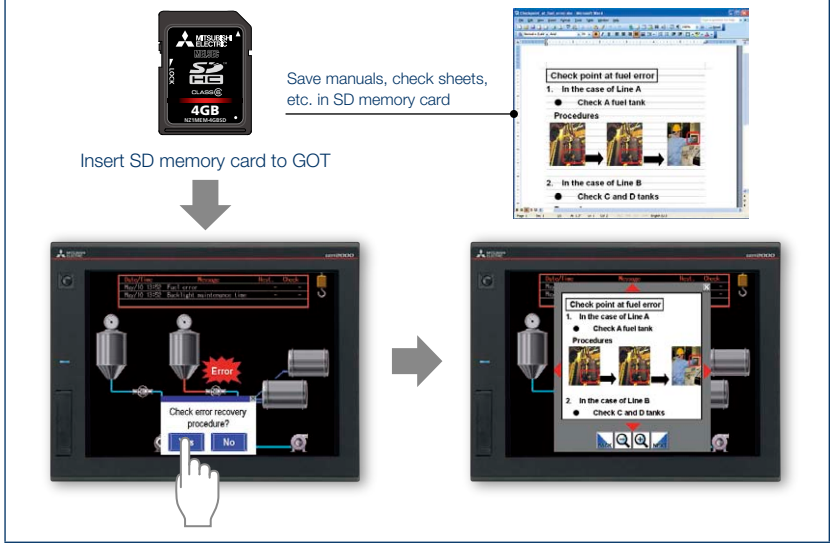
■ Document display function

Having problems?



How can I recover from errors?

GOT will solve your problems!



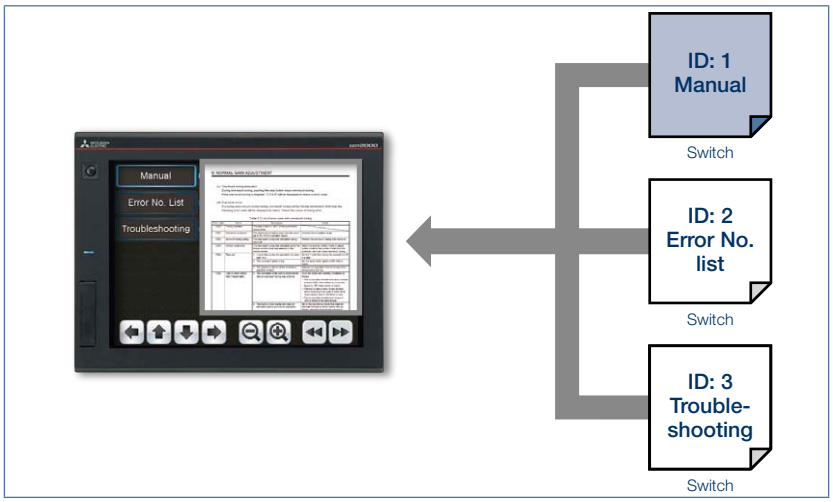
A GOT displays manuals or check sheets with instructions on how to restore the system, which reduces the downtime.

Function features

A 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.

Document ID indirect specification

You can specify a document to be displayed on the document display screen by using the document ID. To switch the document ID, objects such as touch switch or numerical input can be used.



Specification details and major restrictions

✻: For the necessary option devices, please refer to the "Function list" (page 80).

● **Supported file formats** doc, xls, ppt, pdf, jpg, bmp

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Sensorless | 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 monitor

Batch monitor

BM monitor

A 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 an appropriate manual.

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

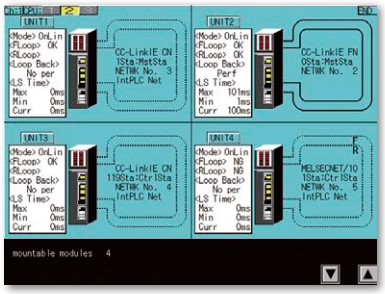
■ Network monitor function

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 an appropriate manual.

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

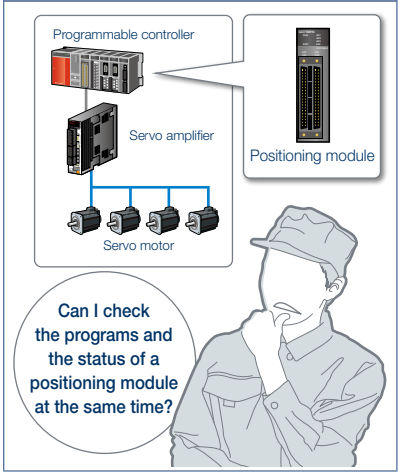
PLC | Servo | Inverter | Sensorless | Robot | CNC

Support startup, maintenance of servo systems

Support maintenance work

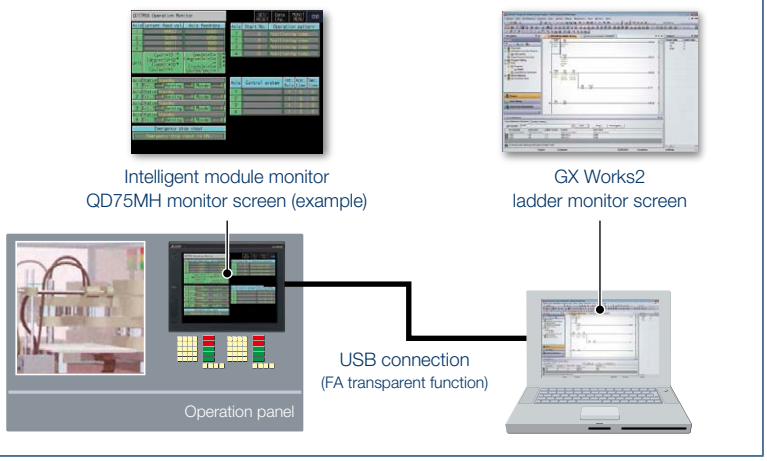
■ Intelligent module monitor function

Having problems?



How can I debug positioning systems efficiently?

GOT will solve your problems!



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

✻: For the details of supported devices and connection types, please refer to an appropriate manual.

Recommended industries

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

Supported GOT types

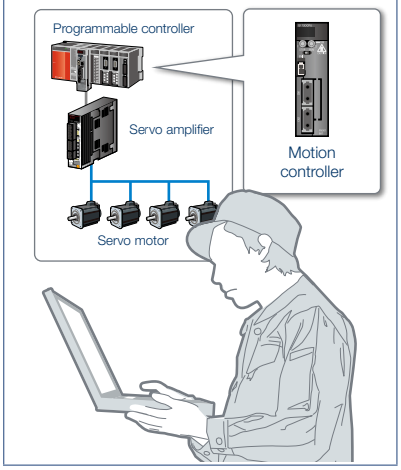
GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

■ R motion monitor function/Q motion monitor function

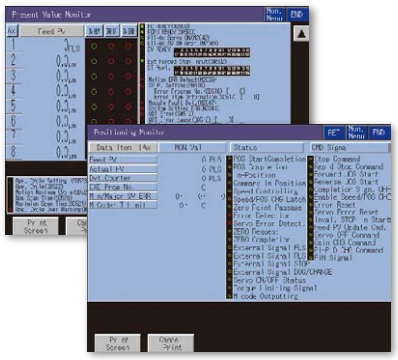
Having problems?



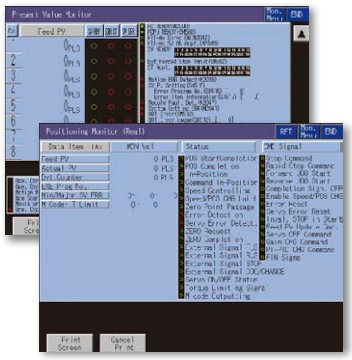
Can I check and change servo parameters of a motion controller easily?

GOT will solve your problems!

R motion monitor screen



Q motion monitor screen



In a dedicated screen on a 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 an appropriate manual.

Recommended industries

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

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

Support debug of SFC programs

Support maintenance work

■ Sequence program monitor (SFC) function/Motion SFC monitor function

Having problems?

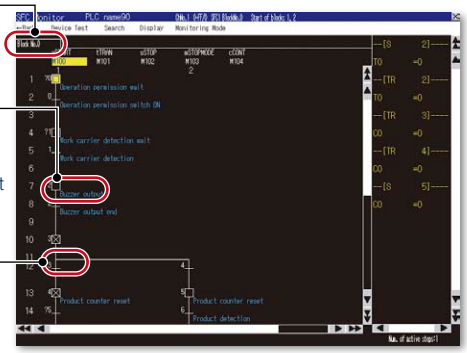
How can I debug and edit SFC programs without a personal computer?

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.



SFC diagram

MELSEC Q Series (Q mode) and L Series SFC programs, motion controller (Q Series) motion SFC programs can be monitored in a SFC diagram format.

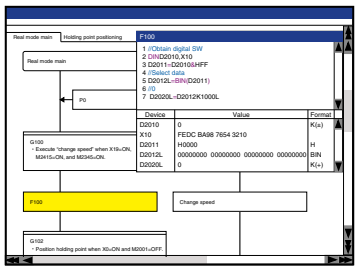
Function features

Sequence program monitor (SFC)

A GOT can be used to monitor SFC programs of controllers (MELSAP3, MELSAP-L) and change device values. The function can be used to solve problems and maintain programmable controller systems that use SFC programs.

Motion SFC monitor

A GOT can be used to monitor motion SFC programs and change 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.



SFC diagram

Specification details and major restrictions

✻: For the necessary option devices, please refer to the "Function list" (page 80).

<Sequence program monitor (SFC)>

● **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 82).

✻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.

<Motion SFC monitor>

● **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 82).

✻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

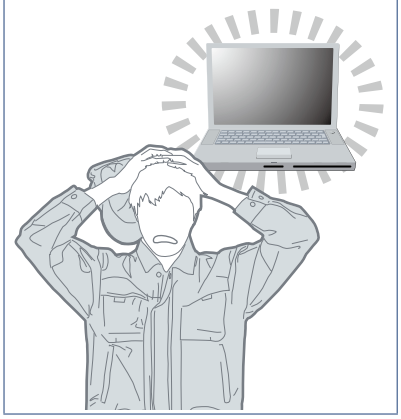
PLC | Servo | Inverter | Sensorless | Robot | CNC

Support startup, maintenance of industrial devices

Support maintenance work

■ Interaction function with inverters/sensorless servos

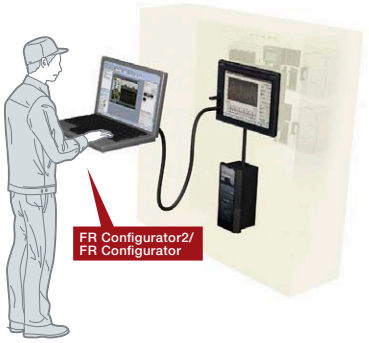
Having problems?



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

GOT will solve your problems!

FA Transparent function*



Sample screen (VGA)

A 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 an appropriate manual.

Recommended industries

Automotive | Electronics | F & B | Pharma

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

■ Interaction function with robots

Having problems?

How can I startup and adjust robots easily?

GOT will solve your problems!

Use a 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 82).

Recommended industries

Electronics | F & B

Supported GOT types

GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

Support CNC maintenance

Support maintenance work

■ CNC monitor/CNC machining program edit/CNC data I/O function

Having problems?

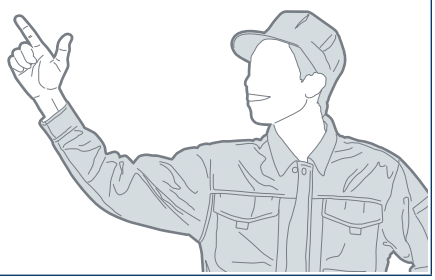
"NC alarm" occurred on a GOT!
How can I maintain the system quickly?

GOT will solve your problems!

Alarm diagnosis monitor (CNC monitor)

Program monitor (CNC monitor)

Position display monitor (CNC monitor)



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.

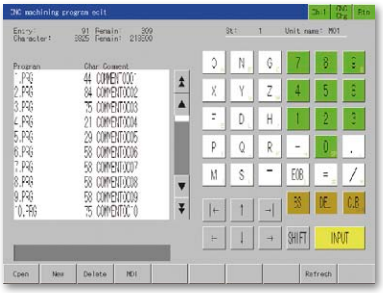
Function features

A GOT can be used to display various monitors and make settings of a CNC connected to the GOT.

*: Supported by GOTs with a resolution of SVGA or higher.

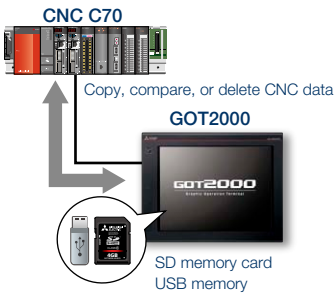
CNC monitor function

The function enables the alarm diagnosis, position display monitor, tool compensation/parameter setting, or program monitor of a CNC connected to the GOT.



CNC machining program edit function

Machining programs and MDI programs of a CNC connected with the GOT can be edited.



CNC data I/O function

Machining programs and parameters can be copied, compared, or deleted in a CNC connected with the GOT.

Specification details and major restrictions

*: For the necessary option devices, please refer to the "Function list" (page 80).

- **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

Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

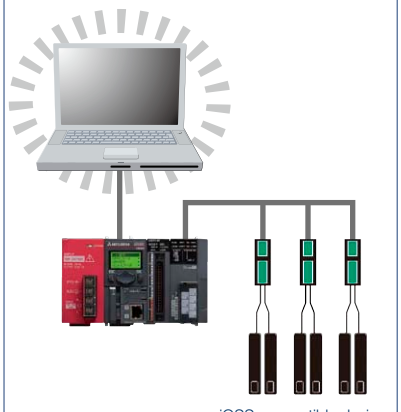
Support iQSS-compatible devices

NEW

Support maintenance work

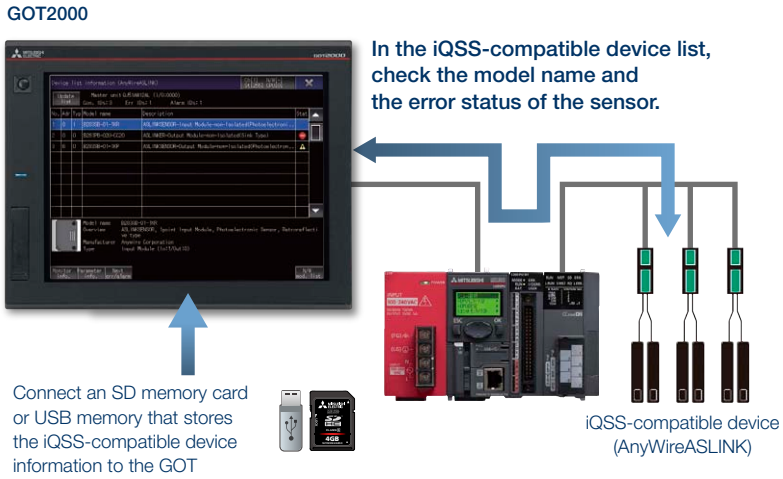
■ iQSS utility function

Having problems?



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

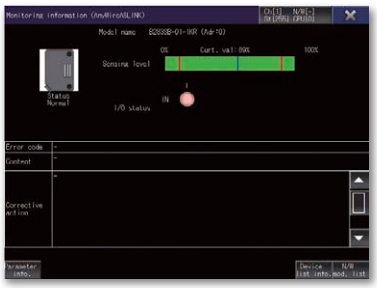
GOT will solve your problems!



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

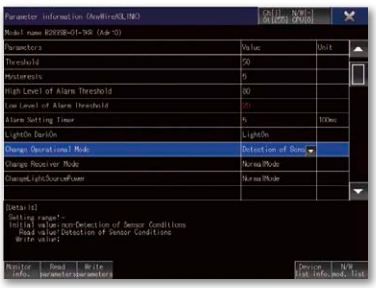
Function features

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.



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 major restrictions

※: For the necessary option devices, please refer to the "Function list" (page 80).

● **Target models** QCPU (Q mode)※1, LCPU (excluding LJ72GF15-T2)

※1: Excluding Q12DCCPU-V, Q24DHCCPU-V, Q24DHCCPU-VG, Q24DHCCPU-LS, QJ72BR15, QJ72LP25G, and QJ72LP25-25.

● **Supported connection types**※1 Ethernet connection※2※3, 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 82).

※2: When the CC-Link IE Field Network Ethernet adapter module is used, the iQSS utility function cannot be used.

※3: When the L02SCPU or L02SCPU-P is used, the iQSS utility function cannot be used.

Recommended industries

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

Supported GOT types

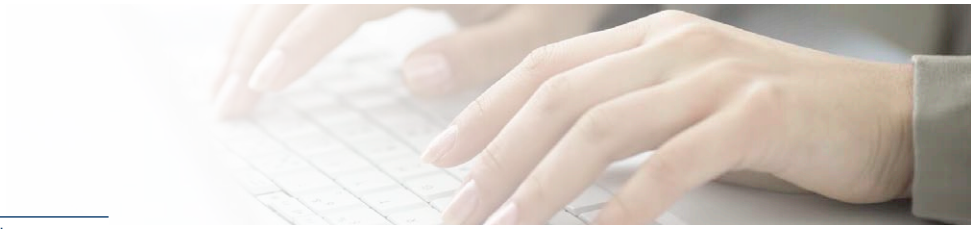
GT27 | GT25 | GT23 | GT21

Supported devices

PLC | Servo | Inverter | Sensorless | Robot | CNC

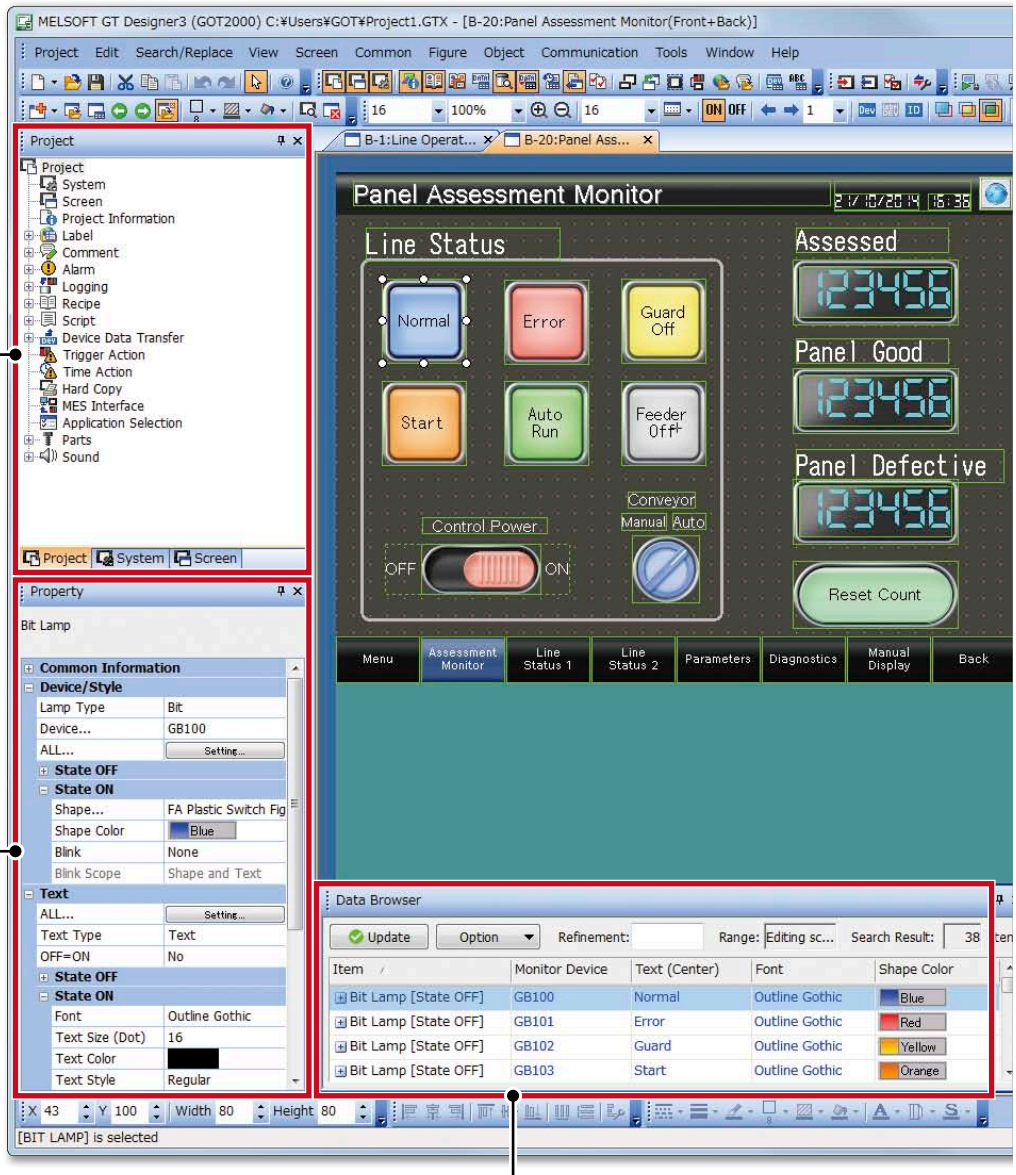
MELSOFT GT Works3

Easily create professional screens!



Easily manage project data!

Work tree



Easily make batch changes!

Property sheet

Easily check the settings!

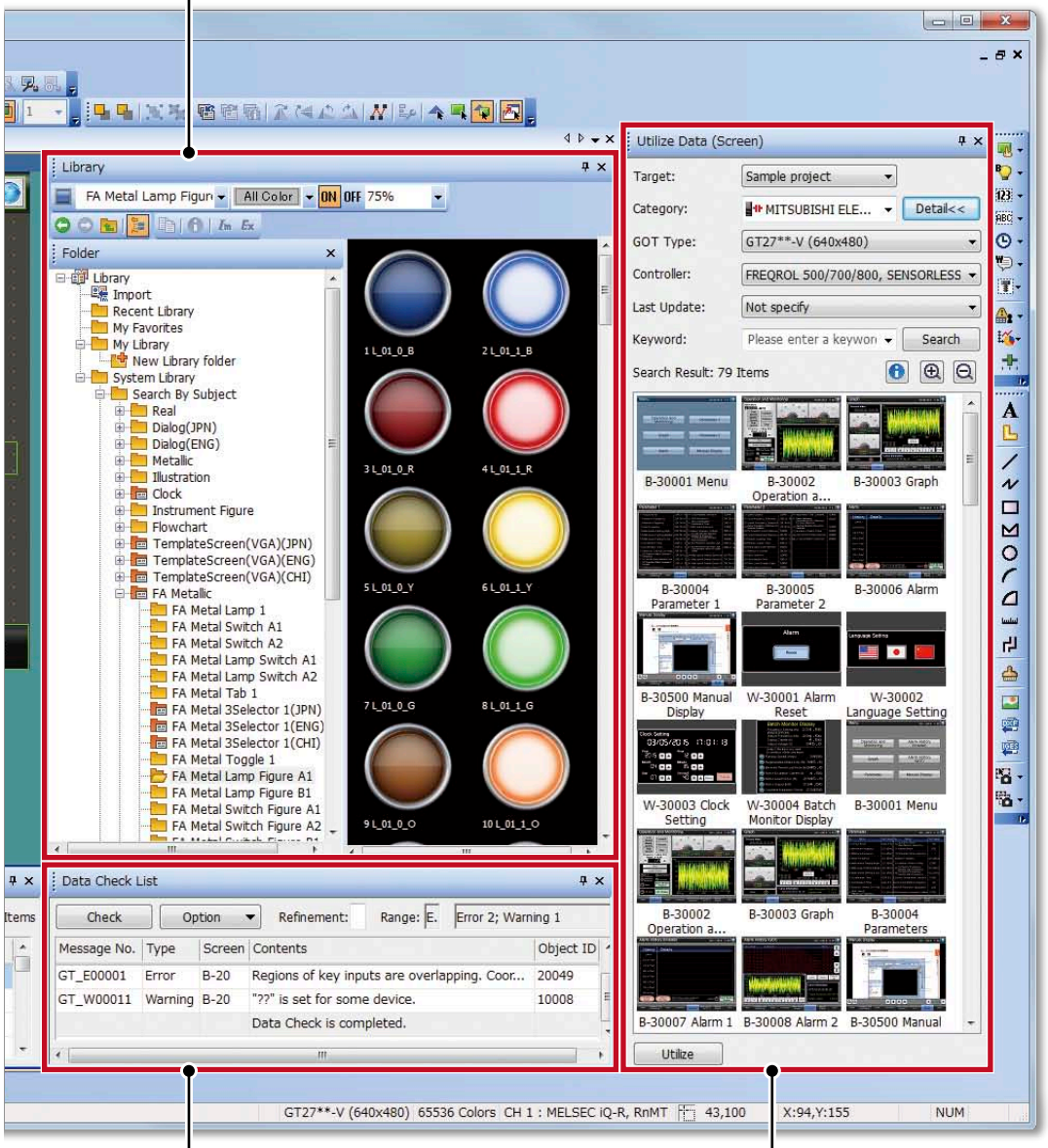
Data browser

■ Support globalization

■ Support screen creation

Easily create stylish screens!

Library



Identify errors quickly!

Data check list

Search by keywords and effectively use data!

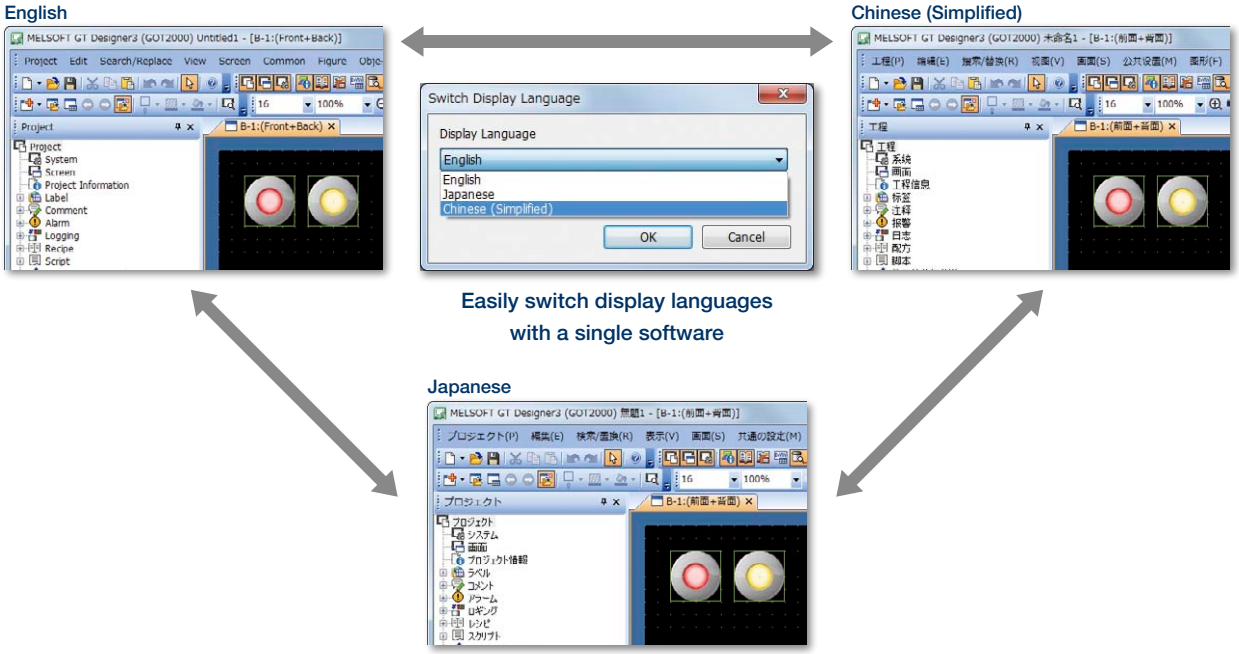
Utilize data (screen) window

Support globalization

■ Multi-language support

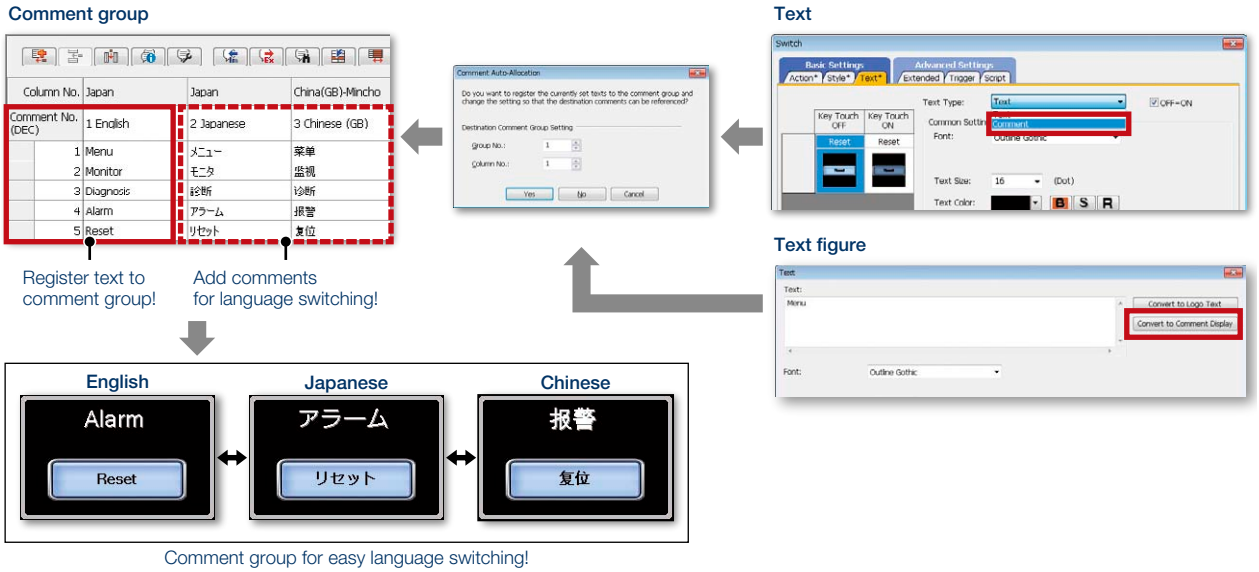
The display language of the GT Works3 menu bar, dialog, and others can be switched.
When maintaining the data abroad, away from where you created the data, the data editing work can be done smoothly by selecting a preferred language by the user.

*: It is recommended to purchase appropriate language version of GT Works3 that is compatible with the OS you use.



■ Language switching function

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.



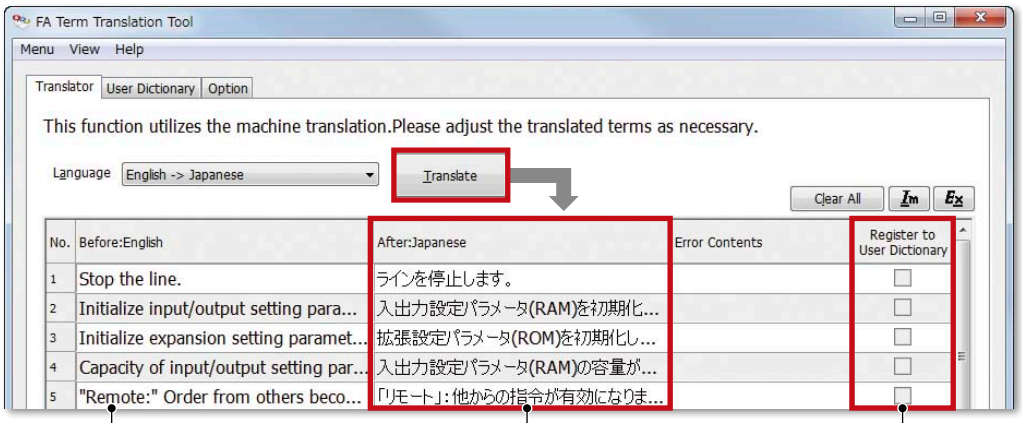
Comment group for easy language switching!

NEW

■ 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

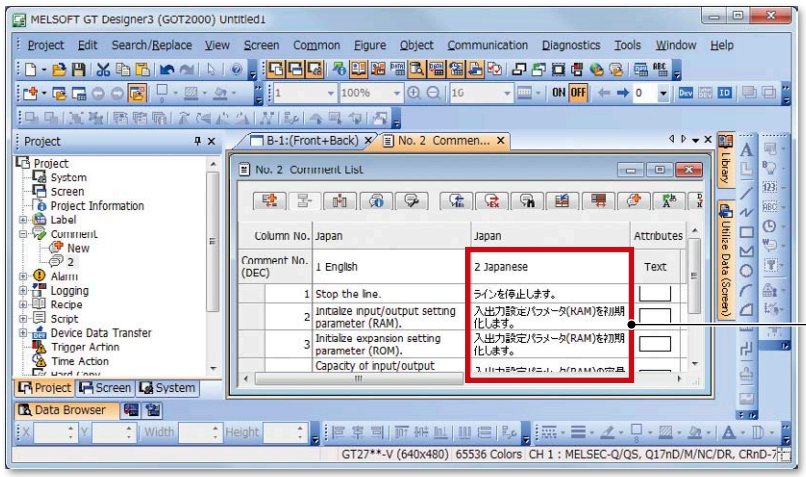


❶ Copy comments to translate (e.g. from GT Works3) and paste them to the FA Term Translation Tool window

❷ Translated results are displayed

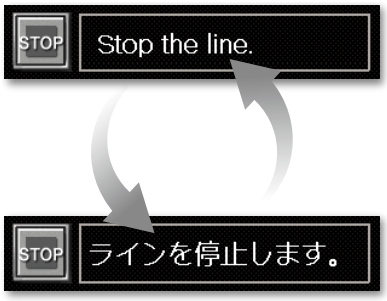
❸ Check a checkbox to save it to the dictionary

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.



Specification details and major 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.

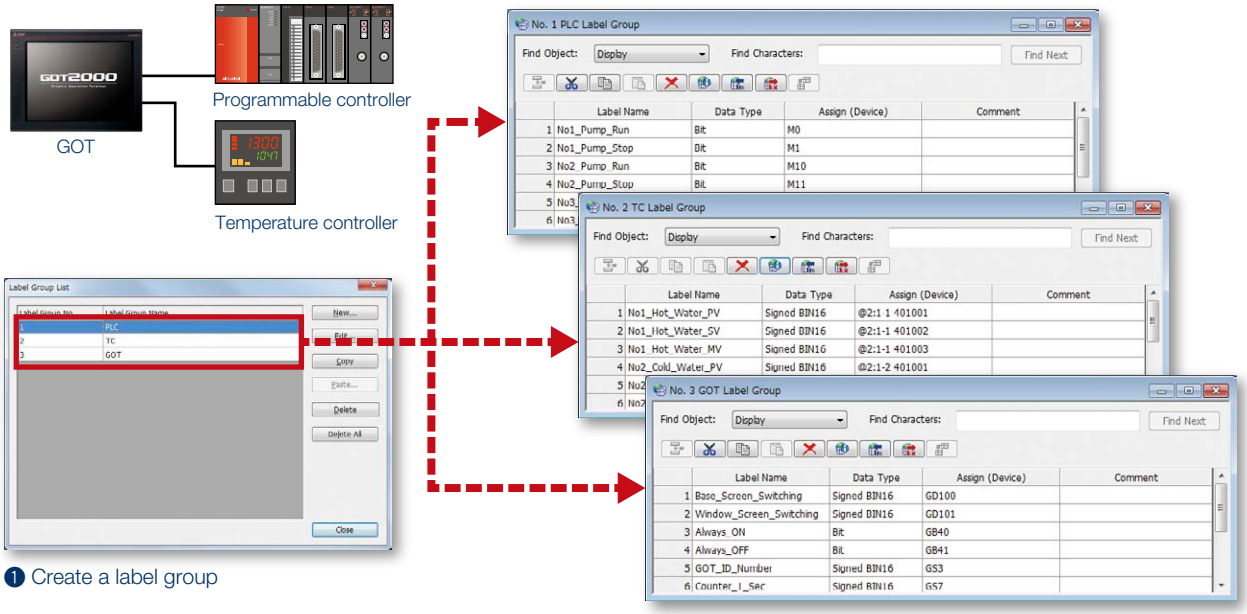
● How to obtain this tool

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.

Support screen creation

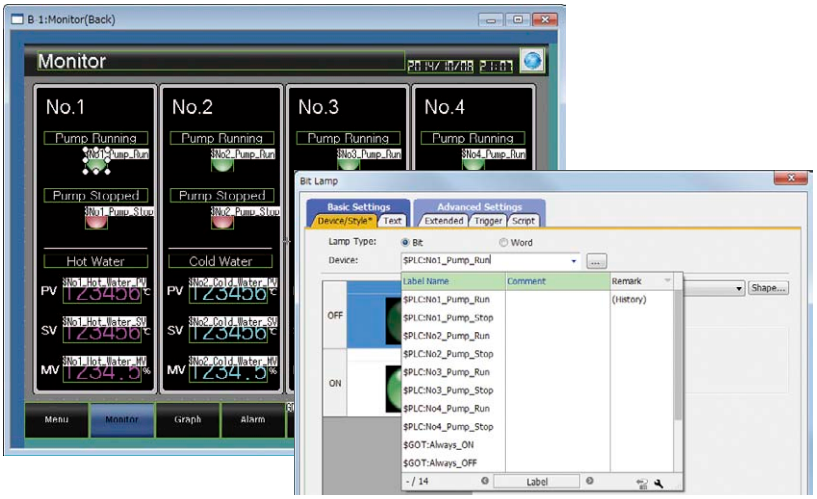
■ Label function

Instead of using devices, use easy-to-understand names (label names) to create screens.
Not only Mitsubishi programmable controller devices, but also non-Mitsubishi controller devices and GOT internal devices can be assigned to labels. The labels can easily be managed by defining label groups for each controller and screen.



❶ Create a label group

❷ Set labels for each device (Arbitrary names can be set.)

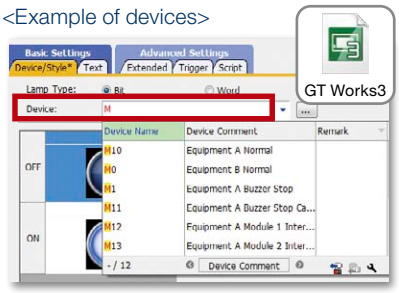


❸ Select a label when setting object devices (Direct input is also possible.)

■ Input assist function

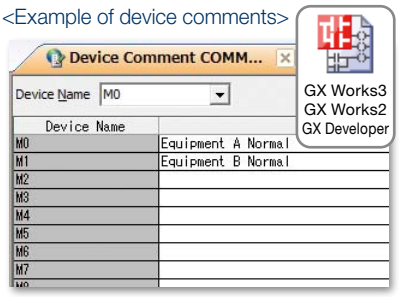
When setting your labels/devices, “Input Assist” provides a list of applicable labels/devices, complete with label comments, device comments, and device definitions.

<Example of devices>

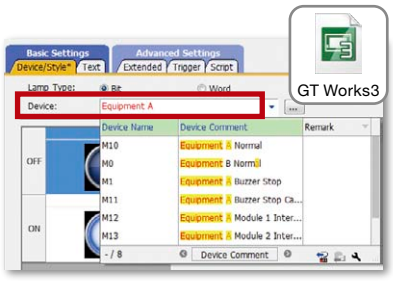


❶ Input device name
❷ Devices corresponding to the input device name are displayed from the devices preset in the project or from the history of recently set devices
❸ Select from the list and set the device

<Example of device comments>



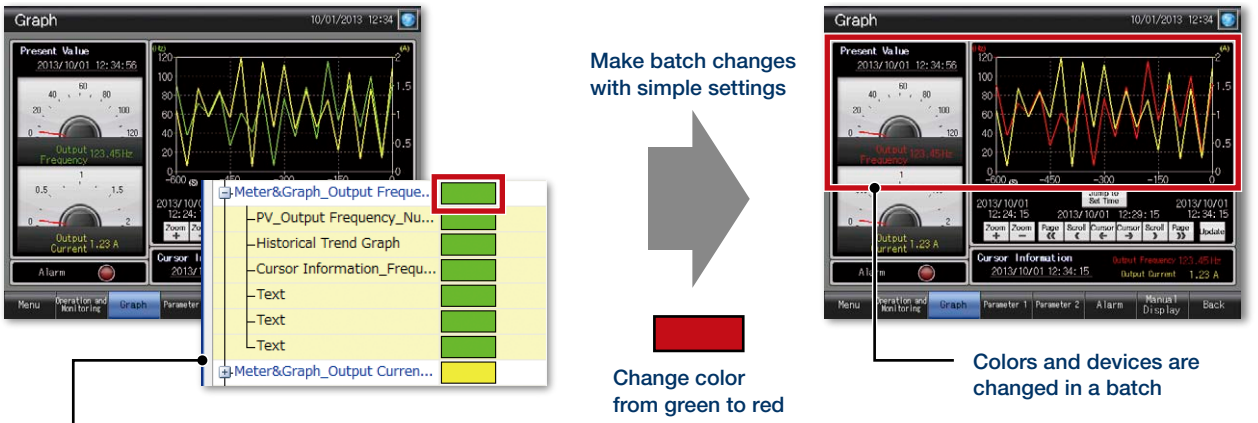
❶ Import a device comment file of GX Works3/GX Works2/GX Developer



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

■ Template function

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

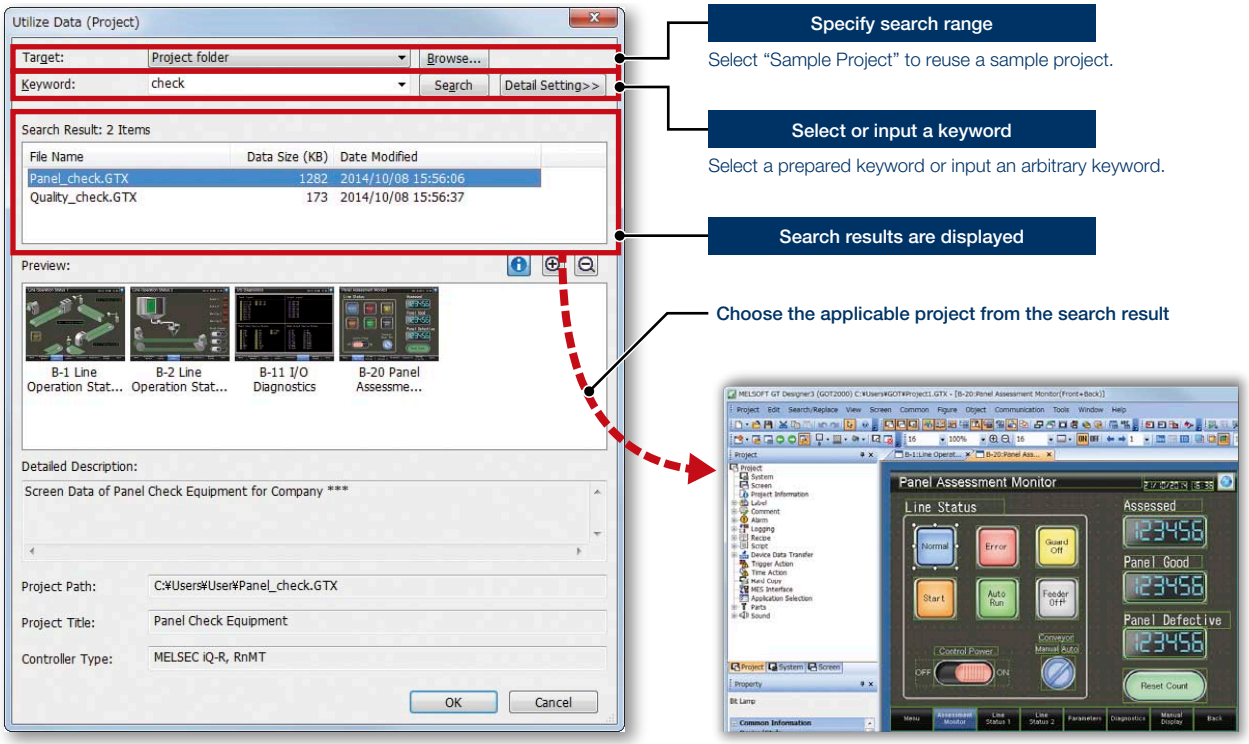
● **Attributes that can be registered and changed in templates**
Device (Bit, Word), Numerical value, Text, Color, Figure, Font, Text size

Support screen creation

■ Utilize data function

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.



Specify search range

Select “Sample Project” to reuse a sample project.

Select or input a keyword

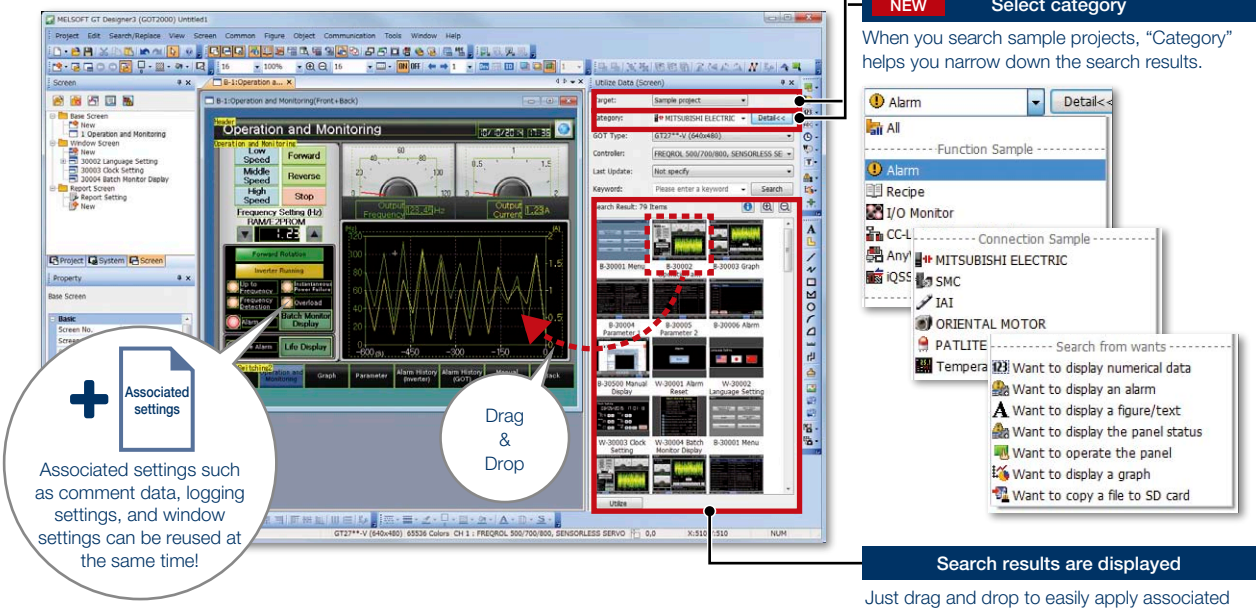
Select a prepared keyword or input an arbitrary keyword.

Search results are displayed

Choose the applicable project from the search result

Reuse previous screens

Reuse individual screens from past or sample projects. The settings, such as comments and logging settings, are also applied and reused.



Select search target

Select a search target from past or sample projects.

NEW **Select category**

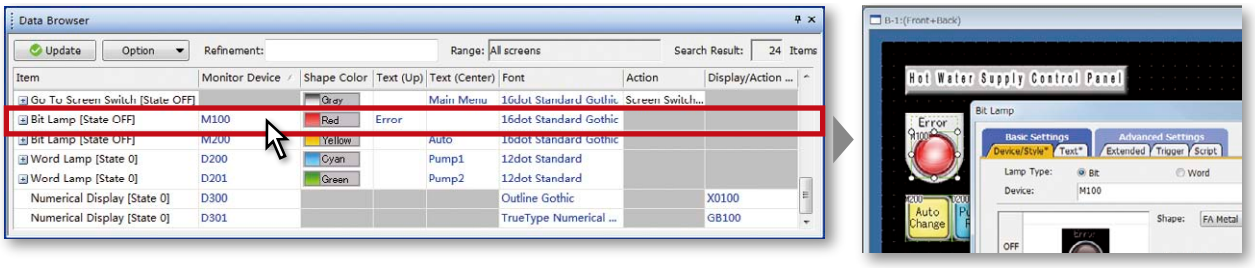
When you search sample projects, “Category” helps you narrow down the search results.

Search results are displayed

Just drag and drop to easily apply associated settings to your screen.

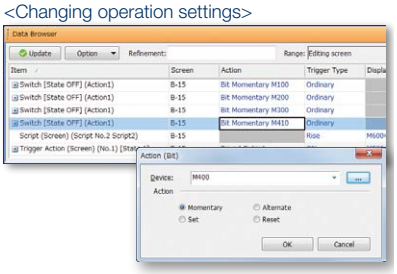
■ Data browser function

The data browser shows a list of objects used in the project. The settings can be edited directly on the browser or by opening the setting dialog. You can easily identify any duplicate data and no longer have to open multiple screens.



Directly edit on the list, or double-click the item and edit in the setting dialog.

<Changing operation settings>

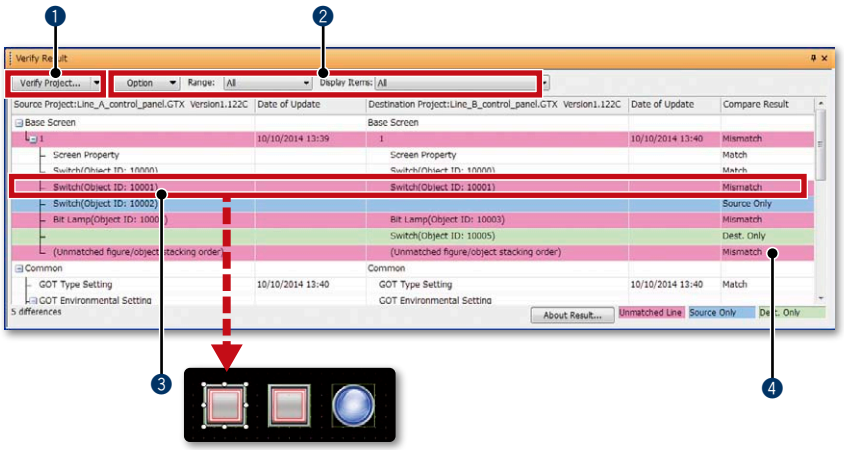


Specification details and major restrictions

- **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; Sort with multiple columns; Interchange columns with drag & drop

■ Data verification function

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

GOT2000 compatible HMI software

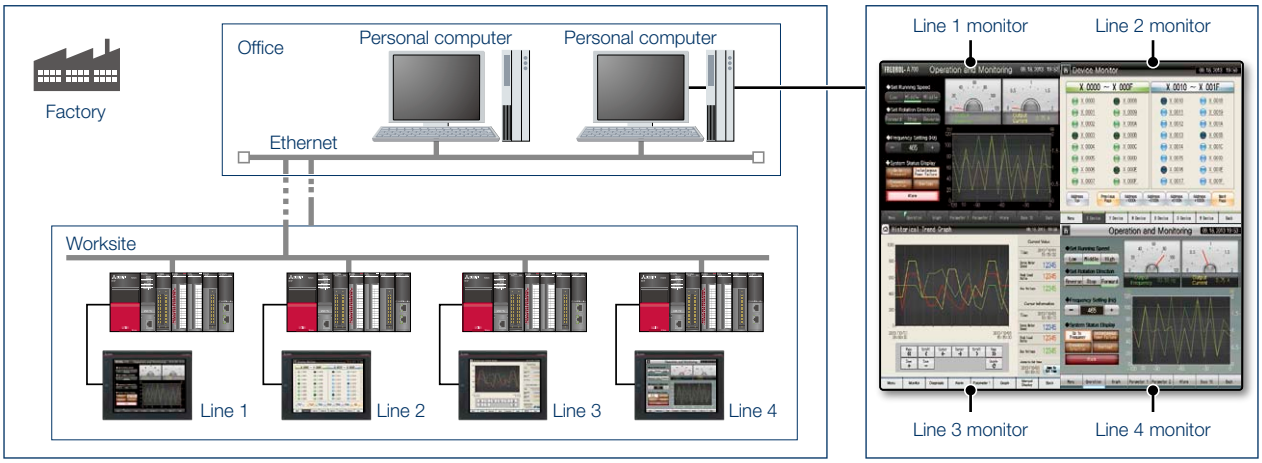
GT SoftGOT2000 Version1

GT SoftGOT2000 Version1 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.

*: A separate license key must be mounted during use.

USB port license key

■ Monitor the production site from a remote location



Use GT SoftGOT2000 to monitor the production site from your office. You can collect information quickly when a problem occurs, taking necessary actions immediately. The GOT project file running at your production site can be reused as the GT SoftGOT2000 project file, greatly reducing your design costs.

■ Engage with MELSEC process control

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

❶ **PX Developer face plates, etc.**
Monitor, operate or tune the loop control tags.
(The display position can be specified.)

❷ **GT SoftGOT2000 touch switch/object**
Click on touch switches and objects to open the various screens of the PX Developer monitor tool. (The display position can be specified.)

❸ **PX Developer monitor tool bar**
Click on buttons to execute various operations such as starting GT SoftGOT2000 or switching base screens.

❹ **GT SoftGOT2000 base screen**
Turn your desktop into a graphic monitoring window with the full-screen and back-screen mode.

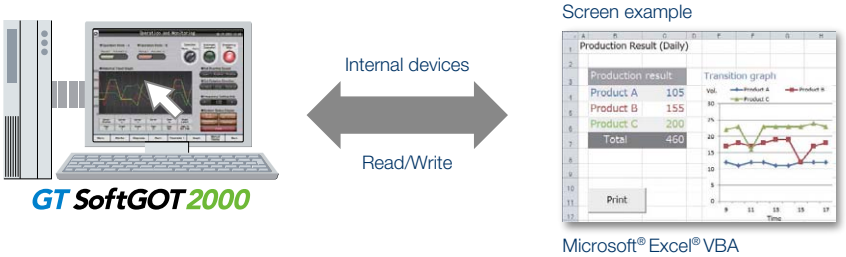
Security collaboration

The GT SoftGOT2000 security level is changed accordingly when the PX Developer monitor tool's mode is changed (engineer mode, operator mode, or lock mode). Authority can be set for operations requiring security.

■ Interaction with other applications

In the user-created applications, Microsoft® Excel® VBA can be used to read/write internal devices of GT SoftGOT2000. Sample programs are avaliable.
<Added development environment> Microsoft® Excel® VBA 2007, 2010, 2013

*: For the other applications, please refer to an appropriate manual.

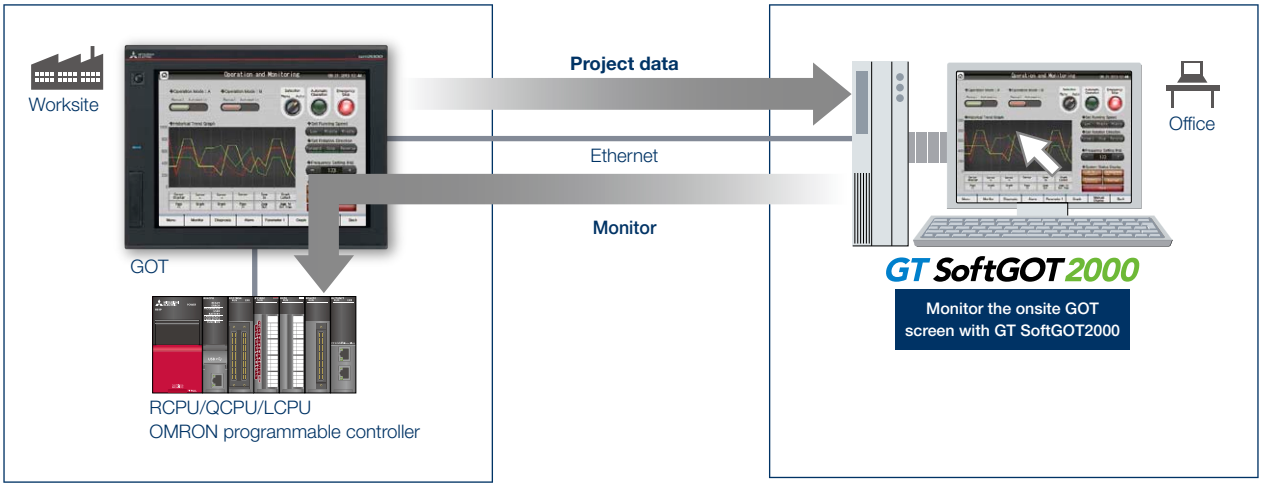


Remote monitoring with SoftGOT

■ SoftGOT-GOT link function

GT27 GT25 GT23 GT21

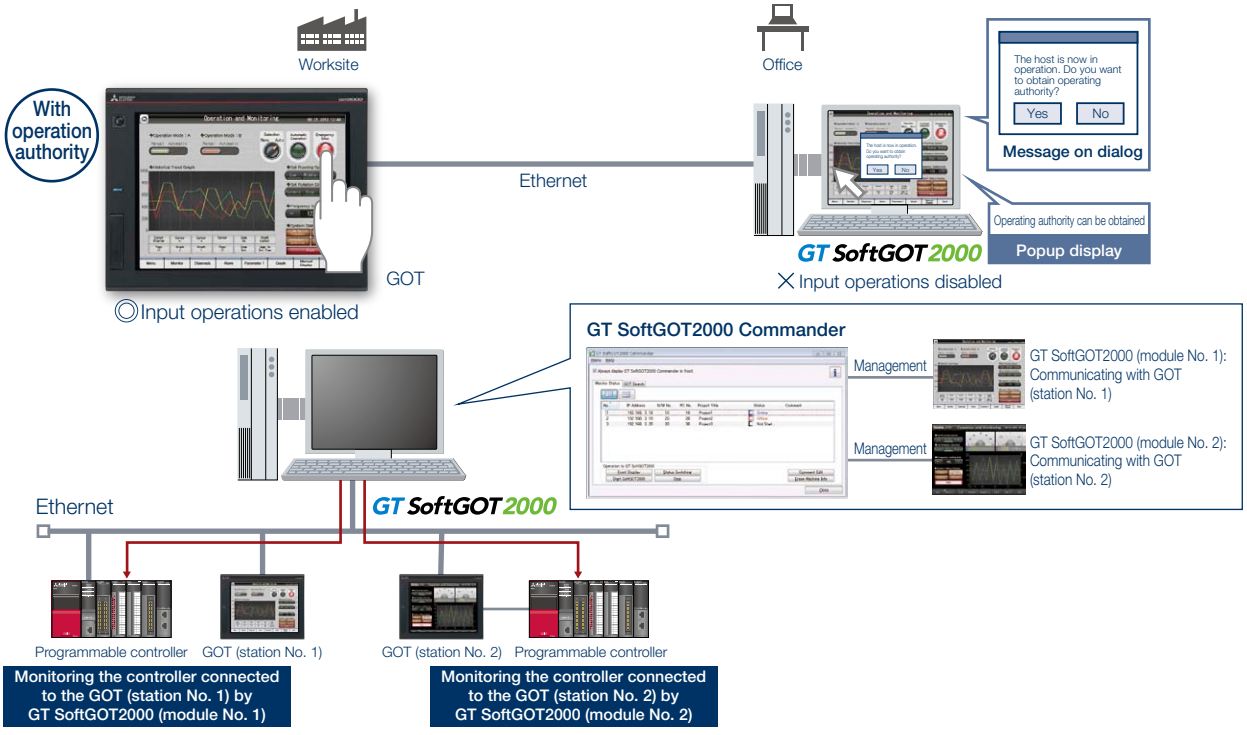
GT SoftGOT2000 allows remote monitoring of devices connected on the worksite. This feature is available by connecting the GT SoftGOT2000 with the GOT via Ethernet and sharing the GOT project data. GT SoftGOT2000 and the GOT operate independently so that using a GOT internal device as the screen switching device enables GT SoftGOT2000 and the GOT to display different screens. Since GT SoftGOT2000 displays the GOT screen on the personal computer, the processing load on the GOT is reduced.



■ GT SoftGOT2000 Commander

GT27 GT25 GT23 GT21

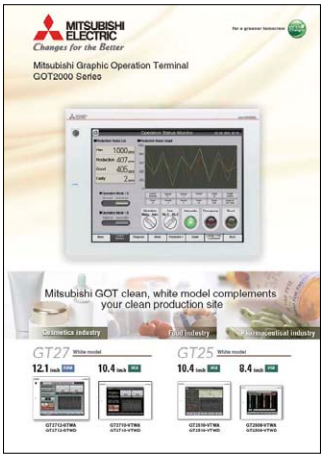
By using GT SoftGOT2000 Commander, multiple GT SoftGOT2000 modules using the SoftGOT-GOT link function can be efficiently managed, and the SoftGOT-GOT link function can be utilized easily.



Related materials

Various catalogs and leaflets are available.

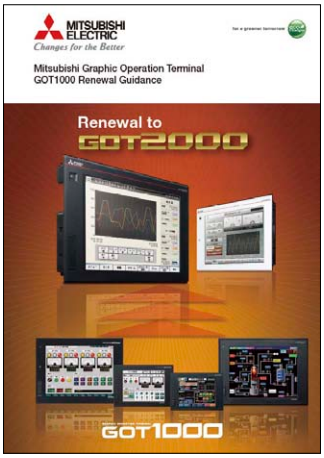
GT Works3 Catalog
L(NA)08170ENG



GOT2000 Series White Model
L(NA)08328ENG

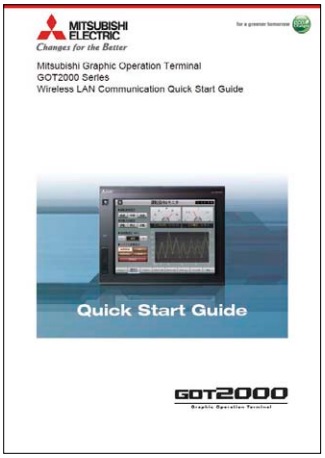
GT2104-RTBD New Product Release
L(NA)08362ENG

GOT2000 Series Quick Start Guide
L(NA)08311ENG

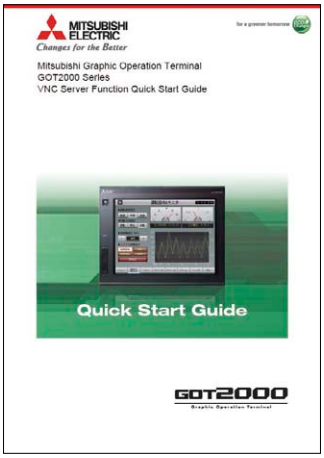


GOT1000 Renewal Guidance
L(NA)08327ENG Coming soon

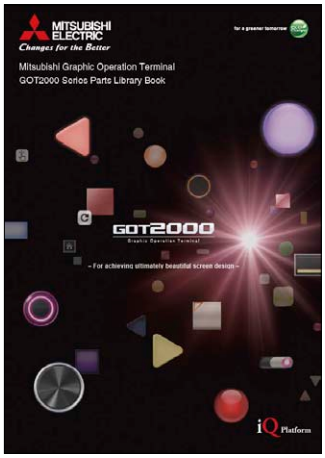
GOT2000 and Drive Control
Interactive Solutions
L(NA)08335ENG Coming soon



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



GOT2000 Series Parts Library Book
L(NA)08341ENG

Specifications, Product List, Support INDEX

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/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. 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 inquiries relating to the status of conforming to various standards and laws (CE, UL/cUL, Class I Division 2, KC, and maritime certifications [ABS/BV/DNV/GL/LR/NK/RINA]), please contact your local sales office.

✻1: The operating ambient temperature 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 for which electrical power is supplied 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/ISA12.12.01, C22.2 No.213-M1987 approval for use in Class I, Division 2 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(12.0) (W) × 228.1(8.98) (H) mm(inch)	246(9.685) (W) × 184.5(7.264) (H) mm(inch)		211.2(8.315) (W) × 158.4(6.236) (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	Type	Analog resistive film			
	Key size	Minimum 2 × 2 dots (per key)			
	Simultaneous press	Up to two points			
	Life	1 million touches or more (operating force: 0.98 N or less)			
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): 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			
	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: 10BASE-T, 100BASE-TX 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	1 channel, SDHC compliant (maximum 32 GB)			
	Extension interface ✻6	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		Front: IP67F ✻5 Inside control panel: IP2X			
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 Version1.130L 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								
		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(8.315) (W) × 158.4(6.236) (H) mm(inch)		170.9(6.728) (W) × 128.2(5.047) (H) mm(inch)		115.2(4.535) (W) × 86.4(3.402) (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	Type	Analog resistive film				
	Key size	Minimum 2 × 2 dots (per key)				
	Simultaneous press	Up to two points				
	Life	1 million touches or more (operating force: 0.98 N or less)				
Human sensor	Detection length	—				
	Detection temperature	—				
User memory	User memory capacity	Memory for storage (ROM): 57 MB Memory for operation (RAM): 128 MB				Memory for storage (ROM): 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				
	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: 10BASE-T, 100BASE-TX 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	1 channel, SDHC compliant (maximum 32 GB)				
	Extension interface ✻6	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		Front: IP67F ✻5 Inside control panel: IP2X				
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 Version1.130L 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: To conform to IP67F, close the USB environmental protection cover by pushing the [PUSH] mark firmly. (To conform to IP2X, open the USB environmental protection cover.)
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.

✻6: When using a GT2705 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.
For the details, please refer to an appropriate GOT2000 series manual.

GT25

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/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. 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 inquiries relating to the status of conforming to various standards and laws (CE, UL/cUL, Class I Division 2, KC, and maritime certifications [ABS/BV/DNV/GL/LR/NK/RINA]), please contact your local sales office.

✻1: The operating ambient temperature 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).

✻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 for which electrical power is supplied 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/ISA12.12.01, C22.2 No.213-M1987 approval for use in Class I, Division 2 hazardous locations. For the details, please contact your local sales office.

Performance specifications

Item		Specifications				
		GT2512-STBA GT2512-STBD	GT2510-VTBA GT2510-VTBD	GT2510-VTWA GT2510-VTWD	GT2508-VTBA GT2508-VTBD	GT2508-VTWA GT2508-VTWD
Display section ✻1 ✻2	Display device	TFT color LCD				
	Screen size	12.1"	10.4"		8.4"	
	Resolution	SVGA: 800 × 600 dots	VGA: 640 × 480 dots			
	Display size	246(9.685) (W) × 184.5(7.264) (H) mm(inch)	211.2(8.315) (W) × 158.4(6.236) (H) mm(inch)		170.9(6.728) (W) × 128.2(5.047) (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	Type	Analog resistive film				
	Key size	Minimum 2 × 2 dots (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)				
User memory	User memory capacity	Memory for storage (ROM): 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				
	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: 10BASE-T, 100BASE-TX 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	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		Front: IP67F ✻6 Inside control panel: IP2X				
External dimensions		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)		241(9.49) (W) × 194(7.64) (H) × 52(2.05) (D) mm(inch)	
Panel cut dimensions		302(11.89) (W) × 228(8.98) (H) mm(inch)	289(11.38) (W) × 200(7.87) (H) mm(inch)		227(8.94) (W) × 176(6.93) (H) mm(inch)	
Weight (excluding a fitting)		2.4(5.3) kg(lb)	2.1(4.6) kg(lb)		1.5(3.3) kg(lb)	
Compatible software package		GT Works3 Version1.130L 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

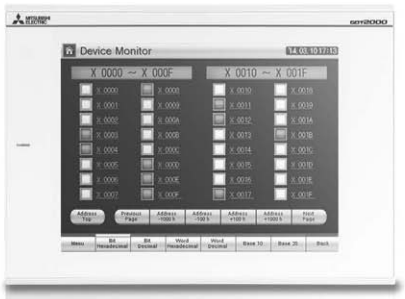
✻4: To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight.

✻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: To conform to IP67F, close the USB environmental protection cover by pushing the [PUSH] mark firmly. (To conform to IP2X, open the USB environmental protection cover.)
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	GT2510-VTBA GT2510-VTWA	GT2508-VTBA GT2508-VTWA	GT2512-STBD	GT2510-VTBD GT2510-VTWD	GT2508-VTBD GT2508-VTWD
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	35 W or less	34 W or less	31 W or less	37 W or less	33 W or less	31 W or less
	Main unit	14 W	12 W	11 W	13 W	10 W	8 W
	Main unit (backlight OFF)	7 W	7 W	7 W	6 W	6 W	6 W
Inrush current		60 A or less (2 ms, ambient temperature: 25 °C, under the maximum load)			5 A or less (20 ms, ambient temperature: 25 °C, under the maximum load)		
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					



GT23

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 ✻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/s^2	—	
		Under continuous vibration	5 to 8.4 Hz	—	1.75 mm	—
			8.4 to 150 Hz	4.9 m/s^2	—	
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 (147 m/s^2 (15G), 3 times in each X, Y, or Z direction)					
Operating atmosphere	No greasy fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (as well as at storage)					
Operating altitude ✻3	2000 m or less					
Installation location	Inside control panel					
Overvoltage category ✻4	II or less					
Pollution degree ✻5	2 or less					
Cooling method	Self-cooling					
Grounding	Grounding with a ground resistance of 100 Ω or less. 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 inquiries relating to the status of conforming to various standards and laws (CE, UL/cUL, Class I Division 2, KC, and maritime certifications [ABS/BV/DNV/GL/LR/NK/RINA]), please contact your local sales office.

✻1: The operating ambient temperature 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 for which electrical power is supplied 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(8.315) (W) × 158.4(6.236) (H) mm(inch)	170.9(6.728) (W) × 128.2(5.047) (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	Type	Analog resistive film	
	Key size	Minimum 2 × 2 dots (per key)	
	Simultaneous press	Not available ✻5 (Only one point can be touched.)	
	Life	1 million touches or more (operating force: 0.98 N or less)	
User memory	User memory capacity	Memory for storage (ROM): 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	
	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: 10BASE-T, 100BASE-TX Connector shape: RJ-45 (modular jack)	
	USB (host)	1 channel	
		Maximum transfer rate: Full-Speed 12 Mbps Connector shape: USB-A	
	USB (device)	1 channel	
		Maximum transfer rate: Full-Speed 12 Mbps Connector shape: USB Mini-B	
	SD memory card	1 channel, SDHC compliant (maximum 32 GB)	
Buzzer output		Single tone (tone length adjustable)	
POWER LED		2 colors (blue and orange)	
Protective structure		Front: IP67F ✻6 Inside control panel: IP2X	
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 Version1.130L 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			
		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			

GT21

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/s^2	—	
		Under continuous vibration	5 to 8.4 Hz	—	1.75 mm	—
			8.4 to 150 Hz	4.9 m/s^2	—	
Shock resistance	Compliant with JIS B 3502 and IEC 61131-2 (147 m/s^2 (15G), 3 times in each X, Y, or Z direction)					
Operating atmosphere	No greasy fumes, corrosive gas, flammable gas, excessive conductive dust, and direct sunlight (as well as at storage)					
Operating altitude *3	2000 m or less					
Installation location	Inside control panel					
Overvoltage category *4	II or less					
Pollution degree *5	2 or less					
Cooling method	Self-cooling					
Grounding	Grounding with a ground resistance of 100 Ω or less. If impossible, connect the ground cable to the control panel. *6					

Operate and store the GOT in environments without direct sunlight, high temperature, dust, humidity, and vibrations.

For inquiries relating to the status of conforming to various standards and laws (CE, UL/cUL, Class I Division 2, KC, and maritime certifications [ABS/BV/DNV/GL/LR/NK/RINA]), please contact your local sales office.

*1: The operating ambient temperature 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 for which electrical power is supplied 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" Wide	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(3.51) (W) × 35.6(1.41) (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	Type	Analog resistive film				
	Key size	Minimum 2 × 2 dots (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)				
User memory	User memory capacity	Memory for storage (ROM): 9 MB	Memory for storage (ROM): 3 MB			
	Life (number of write times)	100000 times				
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
	Ethernet	1 channel Data transfer method: 10BASE-T, 100BASE-TX Connector shape: RJ-45 (Modular jack)		—		
	USB (device)	1 channel				
		Maximum transfer rate: Full-Speed 12 Mbps Connector shape: USB Mini-B				
	SD memory card	1 channel, SDHC compliant (maximum 32 GB)	1 channel, SDHC compliant (maximum 32 GB) *6			—
Buzzer output		Single tone (tone length adjustable)				
Protective structure		Front: IP67F *7 Inside control panel: IP2X				
External dimensions		128(5.04) (W) × 102(4.02) (H) × 40(1.57) (D) mm(inch)	113(4.45) (W) × 74(2.92) (H) × 32(1.26) (D) mm(inch)	113(4.45) (W) × 74(2.92) (H) × 27(1.07) (D) mm(inch) *8		113(4.45) (W) × 74(2.92) (H) × 27(1.07) (D) mm(inch)
Panel cut dimensions		118(4.65) (W) × 92(3.63) (H) mm(inch)	105(4.14) (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 Version1.130L or later				

*1: As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise a great number of display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged.

*2: Flickering may occur due to vibration, shock, or the display colors.

*3: When a stylus is used, the touch panel has a life of 100 thousand touches. The stylus must satisfy the following specifications.
• Material: polyacetal resin • Tip radius: 0.8 mm or more

*4: To prevent the display section from burning in and lengthen the backlight life, enable the screen save function and turn off the backlight.

*5: If you touch two points or more simultaneously on the touch panel, a touch switch near the touched points may operate unexpectedly. Do not touch two points or more simultaneously on the touch panel.

*6: The SD memory card unit (GT21-03SDCD), sold separately, needs to be mounted.

*7: Note that the structure does not guarantee protection in all users' environments. The GOT may not be used in certain environments where it is subjected to splashing oil or chemicals for a long period of time or soaked in oil mist.

*8: The dimension when the SD memory card unit (GT21-03SDCD) is mounted is 113(4.45) (W) × 74(2.92) (H) × 32(1.26) (D) mm(inch).

Power supply specifications

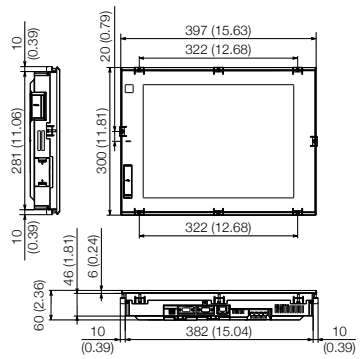
Item		Specifications				
		GT2104-RTBD	GT2103-PMBD	GT2103-PMBDS	GT2103-PMBDS2	GT2103-PMBLS
Power supply voltage		24 V DC (+10%, –15%)				5 V DC (+5%, –5%) Power from the PLC
Power supply frequency		—				
Power consumption	Under the maximum load	4.4 W or less	2.6 W or less	1.9 W or less	2.2 W or less	1.1 W or less
	Main unit (backlight OFF)	2.9 W	2.0 W	1.3 W	1.6 W	0.7 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)			—
Permissible instantaneous power failure time		5 ms or less				—
Noise immunity		Noise voltage: 1000 Vp-p, noise width: 1 μs, measured by a noise simulator with noise frequency ranging from 30 Hz to 100 Hz				
Withstand voltage		500 V AC for 1 minute across power terminals and earth				—
Insulation resistance		500 V DC across power terminals and earth, 10 MΩ or more by an insulation resistance tester				—

External dimensions

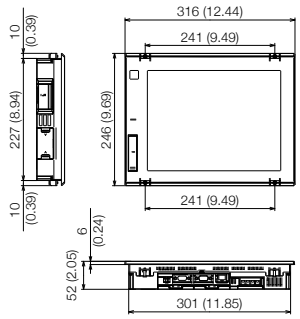
GT27

Unit: mm (inch)

GT2715



GT2712



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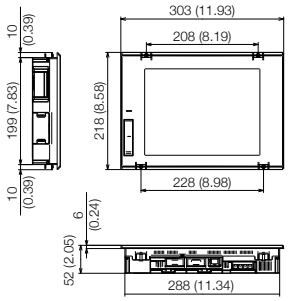
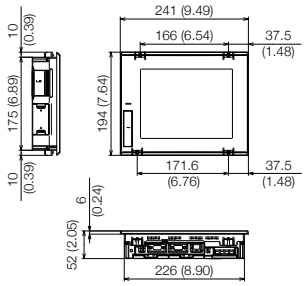
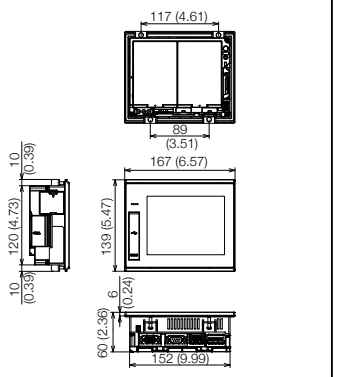


GT2708



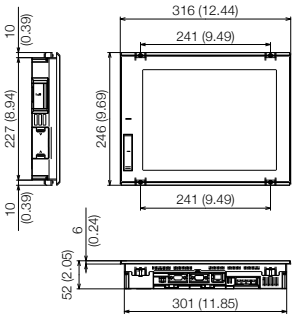
GT2705



GT25

Unit: mm (inch)

GT2512



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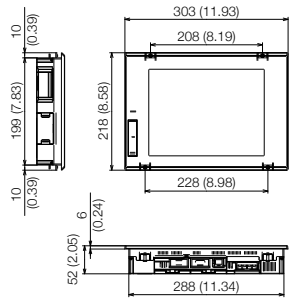
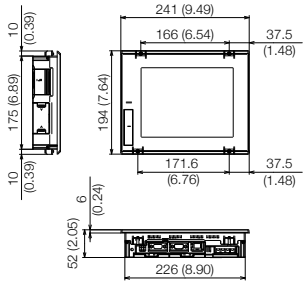


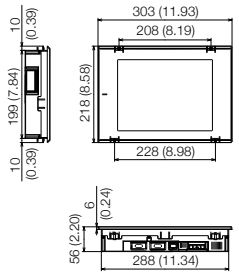
GT2508



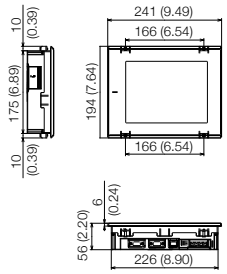
GT23

Unit: mm (inch)

GT2310



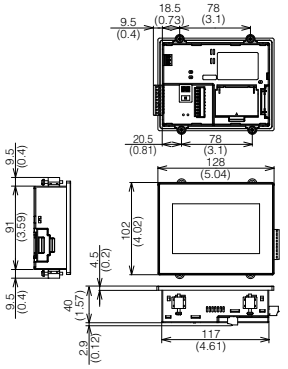
GT2308



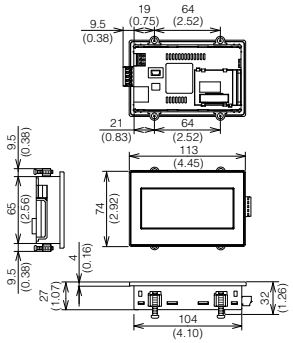
GT21

Unit: mm (inch)

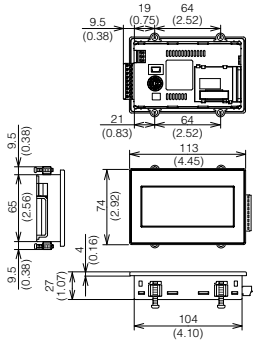
GT2104-RTBD



GT2103-PMBD



GT2103-PMBDS/GT2103-PMBDS2/GT2103-PMBLS

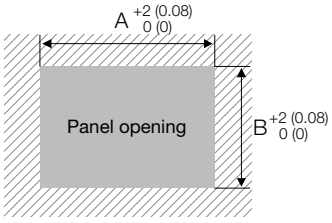


Panel cut dimensions

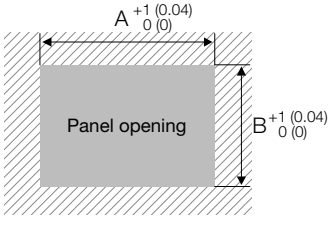
Unit: mm (inch)

Screen size	Model	A	B	Remarks
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 GT2310	289 (11.38)	200 (7.87)	Same dimensions as GT167□, GT157□, GT1275, A97□GOT.
8.4"	GT2708 GT2508 GT2308	227 (8.94)	176 (6.93)	Same dimensions as GT166□, GT156□, GT1265.
5.7"	GT2705	153 (6.02)	121 (4.76)	Same dimensions as GT1655, GT155□, GT145□, GT115□, GT105□, F940GOT.
4.3" Wide	GT2104	118 (4.65)	92 (3.63)	—
3.8"	GT2103	105 (4.14)	66 (2.60)	Same dimensions as GT1020.

GT27/GT25/GT23



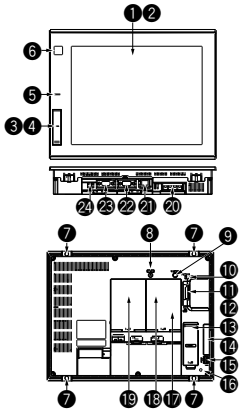
GT21



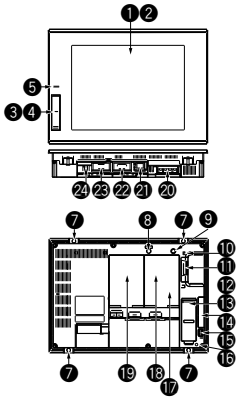
Components names

GT27/GT25

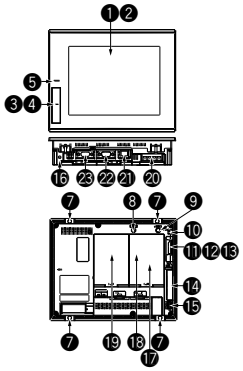
GT2715/GT2712



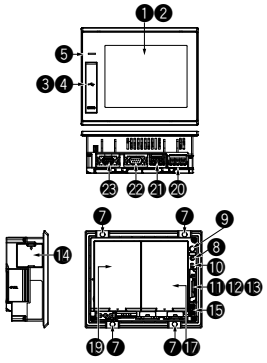
GT2710



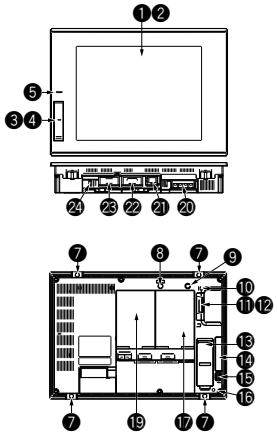
GT2708



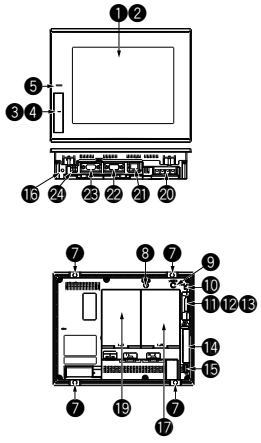
GT2705



GT2512/GT2510



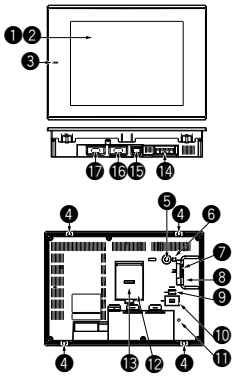
GT2508



❶ Display section
❷ Touch panel
❸ USB interface (host/front face)
✻: Excluding white model
❹ USB interface (device/front face)
✻: Excluding white model
❺ POWER LED
❻ Human sensor
(GT2715/GT2712 only)
❼ Unit installation fitting
❽ Reset switch
❾ S.MODE switch
❿ SD memory card access LED
⓫ SD memory card interface (inside the cover)
⓬ SD memory card cover
⓭ Battery (inside the cover)
⓮ Side interface (inside the cover)
⓯ USB interface (host/rear face)
⓰ Cable clamp mounting hole
⓱ Terminating resistor setting switch
(inside the cover)
⓲ Auxiliary extension interface
⓳ Extension interface
⓴ Power terminal
㉑ Ethernet interface
㉒ RS-232 interface
㉓ RS-422/485 interface
㉔ USB interface (device/rear face)
✻: White model only

GT23

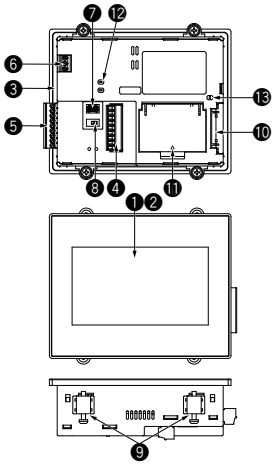
GT2310/GT2308



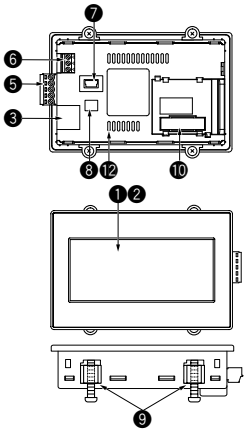
❶ Display section
❷ Touch panel
❸ POWER LED
❹ Unit installation fitting
❺ S.MODE switch
❻ SD memory card access LED
❼ SD memory card interface (inside the cover)
❽ SD memory card cover
❾ USB interface (host)
❿ USB interface (device)
⓫ Cable clamp mounting hole
⓬ Terminating resistor setting switch (inside the cover)
⓭ Battery (inside the cover)
⓮ Power terminal
⓯ Ethernet interface
⓰ RS-232 interface
⓱ RS-422/485 interface

GT21

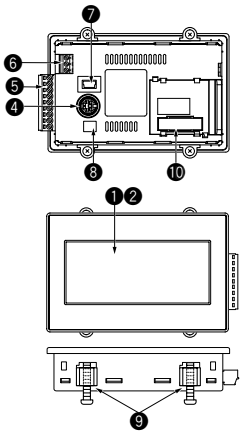
GT2104-RTBD



GT2103-PMBD



GT2103-PMBDS/GT2103-PMBDS2
GT2103-PMBLS



❶ Display section
❷ Touch panel
❸ Ethernet interface
❹ RS-232 interface
✻: Excluding GT2103-PMBLS
❺ RS-422/485 interface
✻: RS-232 interface on GT2103-PMBDS2
✻: RS-422 interface on GT2103-PMBLS (dedicated to FX connection)
❻ Power terminal
✻: Excluding GT2103-PMBLS
❼ USB interface (device)
❽ Terminating resistor setting switch
✻: Excluding GT2103-PMBDS2, GT2103-PMBLS
❾ Unit installation fitting
❿ SD memory card interface (inside the cover)
✻: GT2104 only
SD memory card unit connector (inside the cover)
✻: GT2103 only (excluding GT2103-PMBLS)
⓫ Battery (inside the cover)
⓬ Ethernet communication status LED
⓭ SD memory card access LED

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® 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	1 GHz or faster recommended
Memory	For Windows® 8.1 (64 bit), Windows® 8 (64 bit), Windows® 7 (64 bit): 2 GB or more recommended For Windows® 8.1 (32 bit), Windows® 8 (32 bit), Windows® 7 (32 bit), Windows Vista® (32 bit): 1 GB or more recommended For Windows® XP: 512 MB 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 Version1.130L or later

✻1: For installation, the administrator authority is required.
For Windows® 8.1, Windows® 8, Windows® 7 and Windows Vista®, the standard user or administrator account 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® 8.1, Windows® 8, and Windows® 7)

✻3: Windows XP Mode is not supported.

✻4: Windows Touch or Touch is not supported.

✻5: Modern UI Style is not supported.

✻6: Hyper-V is not supported.

Operating environment

GT SoftGOT2000 Version1 (English Version) operating environment

Item	Description
Personal computer	Personal computer that Windows® runs on. PC CPU module manufactured by CONTEC CO., LTD (PPC-852-21G, PPC-852-22F) ✻8
OS (English, Simplified Chinese, Traditional Chinese, Korean, or German version)	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	1 GHz or more recommended
Memory	For Windows® 8.1 (64 bit), Windows® 8 (64 bit), Windows® 7 (64 bit): 2 GB or more recommended For Windows® 8.1 (32 bit), Windows® 8 (32 bit), Windows® 7 (32 bit), Windows Vista® (32 bit): 1 GB or more recommended For Windows® XP: 512 MB 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 Version 1.70Y 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.
When interacting other applications, use the applications with 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® 8.1, Windows® 8, and Windows® 7)

✻3: Windows XP Mode is not supported.

✻4: Windows Touch or Touch is not supported.

✻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.

Function list

For details of functions, supported controllers, and connection types, please refer to the GOT2000 Series Manual or Help.
●: Supported —: Not supported

Category		Function name	Necessary devices *1	GT27	GT25	GT23	GT21	GT SoftGOT2000
Hardware specifications	Screen size	15"		●	—	—	—	
		12.1"		●	●	—	—	
		10.4"		●	●	●	—	
		8.4"		●	●	●	—	
		5.7"		●	—	—	—	
		4.3" Wide		—	—	—	●	
		3.8"		—	—	—	●	
	Resolution	XGA 1024 × 768		●	—	—	—	Flexible resolution 640 to 1920 × 480 to 1200
		SVGA 800 × 600		●	●	—	—	
		VGA 640 × 480		●	●	●	—	
		Other		—	—	—	GT2104-R: 480 × 272 GT2103: 320 × 128	
	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	9 MB	GT2104-R: 9 MB GT2103: 3 MB	57 MB
		Memory for operation (RAM)		Other than below: 128 MB GT2705: 80 MB	80 MB	9 MB	—	—
	Interface	RS-232		●	●	●	●	● *12
		RS-422/485		●	●	●	●	● *12
		Ethernet		●	●	●	●	● *11
		USB host		●	●	●	—	● *13
		USB device		●	●	●	●	
		SD memory card slot		●	●	●	● *14	● *13
		Extension interface, Side interface	Communication units, option units	● *11	● *11	—	—	● *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		●	●	●	●	●
		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)	●	●	●	—	●
		Level		●	●	●	●	●
		Panelmeter		●	●	●	●	●
		Line graph		●	●	●	●	●
		Trend graph		●	●	●	●	●
		Bar graph		●	●	●	●	●
		Statistic bar graph		●	●	●	●	●
		Statistic pie graph		●	●	●	●	●
		Scatter graph		●	●	●	●	●
		Historical trend graph		●	●	●	●	●
		Slider		●	●	●	● NEW	●
		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	●	●	●	● *6	●
		Hard copy: Serial printer output		●	●	●	● *6	● *2
		Hard copy: PictBridge printer output	Printer unit	●	●	—	—	● *2
		Project script, Screen script		●	●	●	●	●
		Object script		●	●	●	—	●
	Functions used with peripheral devices	Barcode function		●	●	●	● *6	●
		RFID function		●	●	●	● *6	●
		Remote personal computer operation function (Ethernet)	License	●	●	—	—	—
		Remote personal computer operation function (serial)	RGB input unit or Video/RGB input unit	● *8	—	—	—	—
		GOT remote access function (VNC server function)	License	●	●	—	—	—
		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	—	—	—	—

Category		Function name		Necessary devices *1	GT27	GT25	GT23	GT21	GT SoftGOT2000
Screen design	Functions used with peripheral devices	External I/O function		External I/O unit	●	●	—	—	—
		Operation panel function		External I/O unit	●	●	—	—	●
		RGB output function		RGB output unit	● *8	—	—	—	—
		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	●	●	—	—	●
		Server function, Client function			●	●	—	—	—
		Mail send function			●	●	—	—	●
		FTP server function		(SD memory card or USB memory)	●	●	●	—	—
		File transfer (FTP client) function		SD memory card or USB memory	●	●	●	—	—
		MES interface function		License, (SD memory card)	●	●	—	—	—
		USB mouse, USB keyboard			●	●	●	—	—
GOT functions		Base screen			●	●	●	●	●
		Overlap window			●	●	●	●	●
		Superimpose window			●	●	●	●	●
		Dialog window			●	●	●	●	●
		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			●	●	—	—	●
		Backup/Restoration		SD memory card or USB memory	●	●	●	● *6	—
		Multi-channel function			● *9 4 channels (Up to 3 units)	● 4 channels (Up to 3 units)	● 2 channels (No units can be mounted)	● *6 2 channels (No units can be mounted)	—
		Station No. switching			●	●	●	●	●
		Screen gesture function			●	—	—	—	—
		Object gesture function			●	—	—	—	—
		Security key authentication function			●	●	●	—	—
		IP filter function			●	●	●	—	—
		Vertical display *5			● (Rotate 90 ° to left)	● (Rotate 90 ° to left)	● (Rotate 90 ° to left)	● (Rotate 90 ° to right)	—
Debug functions		Device monitor			●	●	●	●	—
		Sequence program monitor (Ladder)		SD memory card or USB memory	●	●	—	—	—
		Sequence program monitor (SFC)		SD memory card or USB memory	●	●	—	—	—
		Network monitor			●	●	—	—	—
		Intelligent module monitor			●	●	—	—	—
		Servo amplifier monitor			●	●	—	—	—
		R motion monitor			●	●	—	—	—
		Q motion monitor			●	●	—	—	—
		Motion SFC monitor		SD memory card or USB memory	●	●	—	—	—
		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			●	●	●	● *7	—
		FX ladder monitor			●	●	—	—	—
		iQSS utility NEW		SD memory card or USB memory	●	●	—	—	—
		System launcher NEW			●	●	●	—	—
		MELSEC-L troubleshooting			●	●	—	—	—

*1: Necessary units when using GT27, GT25, GT23, or GT21 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 appropriate manuals or the Help.

*6: Excluding GT2103-PMBLS.

*7: GT2104-RTBD only.

*8: Excluding GT2705.

*9: To use multiple units such as extension units, barcode readers, or RFID controllers with a GT2705, the total current consumption of the units should be less than the value that the GT2705 can provide.
For the details, please refer to an appropriate GOT2000 series manual.

*10: GT2715, GT2712 only.

*11: For the applicable units and interface boards, please refer to “Connectable model list” (page 82), “Product list” (page 98), and appropriate manuals.

*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 requires an SD memory card unit (GT21-03SDCD) separately. GT2103-PMBLS does not allow for SD memory cards.

Connectable model list (GOT2000)

◆ Mitsubishi PLCs/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	CC-Link IE Field Network connection	CC-Link connection (intelligent device station)	CC-Link connection (via G4) *2	Bus connection *3	MELSECNET/H connection	MELSECNET/10 connection *4	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
PLC	MELSEC iQ-R Series		R04CPU R08CPU R16CPU R32CPU R120CPU	○	×	○	○	○	○	×	×	×	×	×	○	×	○	×	×	○	×	○	×	×
		Process CPU NEW	R08PCPU R16PCPU R32PCPU R120PCPU	○	×	○	○	○	○	×	×	×	×	×	○	×	○	×	×	○	×	○	×	×
	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	○ *18	○	○	○ *9	○ *10	○	○	○ *11	○ *18	○ *18	○	○ *18	○	○	○	○	○ *18	○	○	○	○
			Q00UCPU Q01UCPU Q02UCPU Q03UDCPU Q04UDHCPU Q06UDHCPU Q10UDHCPU Q13UDHCPU Q20UDHCPU Q26UDHCPU				○ *12				○													
							○ *9																	
		Built-in Ethernet type	Q03UDECPU	○ *18	○ *8	○	○ *12	○ *10	○	○	○	○ *18	○ *18	○ *8	○ *18	○ *8	○	○	○ *8	○ *18	○ *8	○	○	○ *8
			Q04UDEHCPU Q06UDEHCPU Q10UDEHCPU Q13UDEHCPU Q20UDEHCPU Q26UDEHCPU Q50UDEHCPU Q100UDEHCPU				○ *9																	
		Basic model QCPU	Q00JCPU	○ *18	○	○	○ *13	×	○	○	○ *11	○ *18	○ *14 *18	○	○ *18	○	○	○	○	○ *18	○ *15	○	○	○
			Q00CPU *16 Q01CPU *16								○													
		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	○ *24 *25	○	○	×	○ *26	○	○	×	×	×	○	○ *24 *25	○	○	○	○	○ *24 *25	○	○	○	○
			L02SCPU-P 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 NEW		FX5U FX5UC	○	○	×	×	×	○ *38	×	×	×	×	×	○	○	×	×	×	○	○	×	×	×
	MELSEC-F Series		FX0 FX0S FX0N FX1 FX1S FX1N FX1NC	×	○	×	×	×	×	×	×	×	×	○	×	○	×	×	○	×	○	×	×	○
			FX2 FX2C	×	○	×	×	×	×	×	×	×	×	○	×	○	×	×	○	×	○	×	×	○
			FX2N FX2NC	×	○	×	×	×	×	×	×	×	×	○	×	○	×	×	○	×	○	×	×	○
			FX3G FX3GC FX3U FX3UC FX3S FX3GE	○ *20	○	×	×	×	○ *38 NEW	×	×	×	×	○	○ *20	○	×	×	○	○ *20	○	×	×	○

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	CC-Link IE Field Network connection	CC-Link connection (intelligent device station)	CC-Link connection (via G4) ✻2	Bus connection ✻3	MELSECNET/H connection	MELSECNET/10 connection ✻4	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
C Controller module	MELSEC iQ-R Series NEW	R12CCPU-V	○ ✻37	×	○ ✻28	○	○	○	×	×	×	×	×	○ ✻37	×	○ ✻28	×	×	○ ✻37	×	○ ✻28	×	×
	MELSEC-Q Series	Q24DHCCPU-V	○	○ ✻8	○ ✻28	○ ✻9	○ ✻29	○	○	○	○	○	○ ✻8 ✻28	○	○ ✻8	○ ✻28	○	○ ✻8 ✻28	○	○ ✻8	○ ✻28	○	○ ✻8 ✻28
		Q24DHCCPU-VG																				
		Q24DHCCPU-LS																				
		Q12DCCPU-V ✻29																				
Safety controller	MELSEC-WS Series	WS0-CPU0	×	○	×	×	×	×	×	×	×	×	×	×	○	×	×	×	×	○ ✻30	×	×	×
		WS0-CPU1																					
		WS0-CPU3																					
Motion controller	MELSEC iQ-R Series	R16MTCPU	○	×	○	○	○	○	×	×	×	×	×	○	×	○	×	×	○	×	○	×	×
		R32MTCPU																					
	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	○	○	○	○
		Q170MSCPU	○ ✻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		LJ72GF15-T2	×	×	○	×	○	×	×	×	×	×	×	×	×	○	×	×	×	×	○	×	×
CC-Link IE Field Network Ethernet adapter module		NZ2GF-ETB	○	×	×	×	○	×	×	×	×	×	×	○	×	×	×	×	○	×	×	×	×

✻1: GT2103-PMBLS supports connection with MELSEC-F Series only. It cannot be connected to PLCs other than the MELSEC-F Series.

✻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 GT2104-RTBD, 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 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 or a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09011.
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 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 later
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.
SW7DC-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.

Connectable model list (GOT2000)

■ Modules usable when connected with Mitsubishi PLCs/motion controllers

● Ethernet connection

CPU series	Ethernet module
MELSEC iQ-R Series Motion controller (MELSEC iQ-R Series)	RJ71EN71
MELSEC-Q Series (Q mode) MELSEC-QS 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.

● Serial communication connection

CPU series	Serial communication module ✻1		
	Model name	CH1	CH2
MELSEC iQ-R Series Motion controller (MELSEC iQ-R Series)	RJ71C24	RS-232	RS-422/485
	RJ71C24-R2	RS-232	RS-232
	RJ71C24-R4	RS-422/485	RS-422/485
MELSEC-Q Series (Q mode) 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	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.

● 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
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.

● 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 RJ71EN71
MELSEC-Q Series (Q mode) C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series)	QD77GF16 QJ71GF11-T2
MELSEC-QS Series	QS0J71GF11-T2
MELSEC-L Series	LJ71GF11-T2

● CC-Link (intelligent device station) connection

CPU series	CC-Link module
MELSEC iQ-R Series Motion controller (MELSEC iQ-R Series)	RJ61BT11
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
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.

● 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	

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

● MELSECNET/H connection

CPU series	MELSECNET/H 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 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.

◆ Inverters

Series		GT27/GT25/GT23/GT21 ✻1		
		RS-485	RS-232	Multi-drop connection
FREQROL Series	FREQROL-A800	○	×	×
	FREQROL-F800	○	×	×
	FREQROL-A700	○	×	×
	FREQROL-F700P	○	×	×
	FREQROL-F700	○	×	×
	FREQROL-E700	○	×	×
	FREQROL-F700PJ	○	×	×
	FREQROL-D700	○	×	×
	FREQROL-V500/V500L	○	×	×
	FREQROL-A500/A500L	○	×	×
	FREQROL-F500/F500L	○	×	×
	FREQROL-E500	○	×	×
	FREQROL-S500/S500E	○	×	×
	FREQROL-F500J	○	×	×
MELIPM Series	MD-CX522-□□K	○	×	×
	MD-CX522-□□K-A0	○	×	×

✻1: Except GT2103-PMBDS2 and GT2103-PMBLS.

◆ Sensorless servos

Model name		GT27/GT25/GT23/GT21 ✻1		
		RS-485	RS-232	Multi-drop connection
Drive module	FREQROL-E700EX	○	×	×

✻1: Except GT2103-PMBDS2 and GT2103-PMBLS.

◆ Servo amplifiers

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)

◆ Robot controllers

Series	Controller name	GT27/GT25/GT23 ✻5 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	○	×	×	×	×	×	×	×	×	×	×

✻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).

◆ 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 C70 (Q173NCCPU) ✻3	○	○ ✻4	○	○	○	○	○	○	○	○	×
CNC M700VS NEW	×	×	×	×	×	○ ✻5	×	×	×	×	×
CNC M70V NEW	×	×	×	×	×	○ ✻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).

◆ 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 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	
	Other than above	All models (By mounting communication units on the GOT, bus connection, network connection, and others can be used.)
GT23	RS-232	All models (Built-in interfaces of the GOT can be used.)
	RS-422/485	
	Ethernet	
GT21	RS-232	GT2103-PMBDS GT2103-PMBDS2 GT2104-RTBD
	RS-422/485	GT2103-PMBD GT2103-PMBDS GT2103-PMBLS (only connection with MELSEC-F Series is supported) GT2104-RTBD
	Ethernet	GT2103-PMBD GT2104-RTBD
	CC-Link	GT2103-PMBD GT2103-PMBDS GT2103-PMBDS2 GT2104-RTBD

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

◆ Non-Mitsubishi PLCs/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 CQM1H	CQM1H		×	×	○	×	×	×
	SYSMAC CP1	CP1H	CP1L	×	×	×	○	○	×
		CP1E (N type)		×	×	○ *6	○ *6 *7	○ *6 *7	×
	SYSMAC CQM1	CQM1		×	×	○ *8	×	×	×
	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	×	×	○	○	○	×
KEYENCE CORPORATION		KV-700 KV-1000	KV-3000	○ *2	×	○	○	○	×
		KV-5000	KV-5500	○ *2	×	×	○	○	×
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 Manufacturing Systems 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)		×	○	×	×	×	×
TOSHIBA MACHINE CO., LTD.	TCmini Series	TC3-01 TC3-02	TC6-00 TC8-00	×	×	○	×	×	×
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	○	×	○	○	○	×
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		×	×	○	○	○	×

Connectable model list (GOT2000)

◆ Non-Mitsubishi PLCs/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	
YASKAWA Electric Corporation *2		GL120	GL130	×	×	○ *2	○ *2	×	×
		GL60S GL60H	GL70H	×	×	×	○ *2	○ *2	×
		CP-9200SH		○ *2	×	×	×	○	×
		CP-9300MS		×	×	○ *2	×	×	×
		MP920		○ *2	×	○	○	○	×
		MP930		×	×	○	×	×	×
		MP940		×	○	○	×	×	×
		PROGIC-8		×	×	○ *2	×	×	×
		CP-9200(H)		×	×	○ *2	×	×	×
		CP-312		○ *2	×	×	×	○	×
		CP-317		○ *2	×	×	×	○	×
		MP2200 MP2300	MP2300S	○ *2	×	×	○	○	×
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	×	×	○	×	×	×
	MicroLogix1200 Series *11	1762-L24BWA		×	×	○	×	×	×
	MicroLogix1400 Series *11	1766-L32AWA		×	×	○	×	×	×
	MicroLogix1500 Series *11	1764-LSP		×	×	○	×	×	×
	ControlLogix Series *2	1756-L 1756-L1M1	1756-L1M2 1756-L1M3	○ *15	×	○	×	×	○
		1756-L55M12 1756-L55M13 1756-L55M14 1756-L55M16	1756-L55M22 1756-L55M23 1756-L55M24	○ *15	×	○	×	×	○
		1756-L61 1756-L62	1756-L63	○ *15	×	○	×	×	○
		1756-L72S		○ *15	×	×	×	×	○
	CompactLogix Series *2	1769-L31 1769-L32C 1769-L35CR		×	×	○	×	×	×
		1769-L32E 1769-L35E		○ *15	×	○	×	×	○
	FlexLogix Series *2	1794-L33 1794-L34		×	×	○	×	×	○ *16
GE Intelligent Platforms, Inc. *2	Series 90-30	IC693CPU311 IC693CPU313 IC693CPU323		×	×	×	○	○	×
		IC693CPU350 IC693CPU360 IC693CPU363	IC693CPU366 IC693CPU367 IC693CPU374	×	○	×	○	○	×
	Series 90-70	IC697CGR772 IC697CGR935 IC697CPM790 IC697CPU731 IC697CPU780 IC697CPU788 IC697CPU789	IC697CPX772 IC697CPX782 IC697CPX928 IC697CPX935	×	×	×	○	○	×
	VersaMax Micro	IC200UAA003		×	○	○	×	×	×
		IC200UAR014 IC200UDD104 IC200UDD112	IC200UDR001 IC200UDR002 IC200UDR003	×	×	○	×	×	×
		IC200UAA007 IC200UAL004 IC200UAL005 IC200UAL006 IC200UAR028 IC200UDD064 IC200UDD164 IC200UDD110	IC200UDD120 IC200UDD212 IC200UDR005 IC200UDR006 IC200UDR010 IC200UDR064 IC200UDR164	×	○	○	×	×	×
LS Industrial Systems Co., Ltd.	K300S	K4P-15AS		×	×	×	○	○	×
	K200S	K3P-07□S		×	×	×	○	○	×
	K120S	K7M-D□□□U		×	×	○	○	○	×
	K80S	K7M-D□□□S (/DC)		×	×	○	○	○	×

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	
Mitsubishi Electric India Pvt. Ltd.	Nexgenie 2000 PLC	P2210 P2211	P2213A P2214	×	○	○	×	×	×
	Nexgenie 1000 PLC	NG14RL NG14RN NG16ADL NG16ADN	NG16DL NG16DN	×	○	○	×	×	×
Schneider Electric SA	Twido	TWD LCAA 10DRF TWD LCAA 16DRF TWD LCAA 24DRF TWD LCAA 40DRF TWD LCAE 40DRF TWD LCDA 10DRF TWD LCDA 16DRF TWD LCDA 24DRF	TWD LMDA 20DRT TWD LMDA 20DTK TWD LMDA 20DUK TWD LMDA 40DTK TWD LMDA 40DUK	○ ✻14	×	×	×	×	×
	Modicon Premium	TSX P57 203M TSX P57 253M TSX P57 303M TSX P57 353M TSX P57 453M		○ ✻14	×	×	×	×	×
	Modicon Quantum	140 CPU 113 02 140 CPU 113 03 140 CPU 311 10 140 CPU 434 12A 140 CPU 434 12U	140 CPU 534 14A 140 CPU 534 14U 140 CPU 651 50 140 CPU 651 60 140 CPU 671 60	○ ✻14	×	×	×	×	×
SICK AG	Flexi Soft Series	FX3-CPU000000 FX3-CPU130002	FX3-CPU320002	×	×	○	×	×	×
Siemens AG		SIMATIC S7-200 Series		○ ✻2 ✻17	×	○	×	×	×
		SIMATIC S7-300 Series		○ ✻2	×	○	×	×	×
		SIMATIC S7-400 Series		○ ✻2	×	○	×	×	×
		SIMATIC S7-1200 Series		○ ✻2 ✻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 92.
✻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 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 communication driver.

■ 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 CP1W-CIF41	CP1Q-CIF11 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	—
KEYENCE CORPORATION	Multi-communication unit Ethernet module	KV-LE20V KV-LE21V	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 Manufacturing Systems 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	—
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	AFPG801 AFPG802 AFPX-COM1 AFPX-COM2 AFPX-COM4 AFP2462 AFP3462 AFP5462	—

Connectable model list (GOT2000)

■ 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
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 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-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	○	○

◆ Robot controllers

Manufacturer		Model name			GT27/GT25/GT23/GT21	
					RS-422	RS-232
IAI Corporation X-SEL controller	ROBO CYLINDER RCA Series dedicated program controller	ASEL	ASEL		×	○
	ROBO CYLINDER RCP2 Series dedicated program controller	PSEL	PSEL		×	○
	Single-axis robot/linear servo/ ROBO CYLINDER RCS2 program controller	SSEL	SSEL		×	○
	Single-axis, multi-axis robot controller	X-SEL	XSEL-J XSEL-K XSEL-KE XSEL-KET	XSEL-KT XSEL-P XSEL-Q	×	○
	SCARA robot controller	X-SEL	XSEL-JX XSEL-KTX XSEL-KX	XSEL-PX XSEL-QX	×	○
IAI Corporation ROBO CYLINDER	RCA2/RCA Series positioner controller	ACON	ACON-C ACON-CG ACON-CY	ACON-PL ACON-PO ACON-SE	○	○
	ERC2 built-in positioner controller	ERC2	ERC2		○	○
	RCP3/RCP2 Series positioner controller	PCON	PCON-C PCON-CA ✻1 PCON-CF PCON-CFA ✻1 PCON-CG	PCON-CY PCON-PL PCON-PO PCON-SE	○	○
	RCS2 Series positioner controller	SCON	SCON-C SCON-CA		○	○
TOSHIBA MACHINE CO., LTD.	SCARA robot controller	TS2000 TS2100			×	○

✻1: Use PCON-CA or PCON-CFA of V0002 or later.

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

◆ Temperature controllers/Other control equipment

Manufacturer		Model name		GT27/GT25/GT23			
				RS-485	RS-422	RS-232	Ethernet
Azbil Corporation	AHC2001	AHC2001		○ (4-wire type *11)	×	○	×
	AUR	AUR350C	AUR450C	○ (2-wire type *1)	×	○ *2	×
	CMC	CMC10B		○ (4-wire type)	×	○ *2	×
	CMF	CMF015		○ (2-wire type *1)	×	○ *2	×
		CMF050		○ (2-wire type *1/4-wire type)	×	○ *2	×
	CML	CML		○ (2-wire type *1/4-wire type)	×	○ *2	×
	CMS	CMS		○ (2-wire type *1)	×	○ *2	×
	DMC	DMC10		○ (2-wire type *1)	×	○ *2	×
		DMC50		○ (2-wire type *1/4-wire type)	×	×	×
	MPC	MPC		○ (2-wire type *1)	×	○ *2	×
	MQV	MQV		○ (2-wire type *1)	×	○ *2	×
	MVF	MVF		○ (2-wire type *1)	×	○ *2	×
	NX	NX-D15 NX-D25	NX-D35	○ (2-wire type *1 *9)	×	×	○ *10
		NX-DX1 NX-DX2	NX-DY1 NX-DY2	○ (2-wire type *1 *9)	×	×	○ *10
		NX-S01 NX-S11	NX-S12 NX-S21	○ (2-wire type *1 *9)	×	×	○ *10
	SDC	SDC15 SDC25 SDC26	SDC35 SDC36	○ (2-wire type *1)	×	○ *2	×
		SDC45	SDC46	○ (2-wire type *1)	×	○ *2	×
		SDC20 SDC21 SDC30 SDC31	SDC40A SDC40B SDC40G	○ (2-wire type *1/4-wire type)	×	○ *2	×
	PBZ	PBC201-VN2		○ (2-wire type *1/4-wire type)	×	○ *2	×
	RX	RX		○ (2-wire type *1)	×	○ *2	×
OMRON Corporation	INPANEL NEO	E5ZN		○ (2-wire type *1)	×	○ *2	×
	THERMAC NEO	E5AN E5EN	E5CN E5GN	○ (2-wire type *1)	×	○ *2	×
Shinko Technos Co., Ltd.	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	×
	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	AH3000 Series	AH3000		○ (2-wire type)	○	○	×
	AL3000 Series	AL3000		○ (2-wire type)	○	○	×
	DB1000 Series	DB1000		○ (2-wire type)	○	○	×
	DB2000 Series	DB2000		○ (2-wire type)	○	○	×
	DZ1000 Series	DZ1000 *7		○ (2-wire type)	○	○	×
	DZ2000 Series	DZ2000 *7		○ (2-wire type)	○	○	×
	GT120 Series	GT120		○ (2-wire type)	×	○ *2	×
	JU Series	JU		○ (2-wire type)	○	×	×
	KE Series	KE3000		○ (2-wire type)	○	×	×
	KP Series	KP1000	KP2000	○ (2-wire type)	○	○	×
	LE5000 Series	LE5000		○ (2-wire type)	○	×	×
	LT230 Series	LT230		○ (2-wire type)	×	○ *2	×
	LT300 Series	LT350	LT370	○ (2-wire type)	○	○	×
	LT400 Series	LT450	LT470	○ (2-wire type)	○	○	×
	LT830 Series	LT830		○ (2-wire type)	×	○ *2	×
	SE3000 Series	SE3000		○ (2-wire type)	○	○	×
FUJI ELECTRIC CO., LTD.	Micro Controller X	PXH PXG PXR	PXH9 PXG4/5/9 PXR3/4/5/9	○ (2-wire type *1)	×	○ *2	×
Yokogawa Electric Corporation	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	×

Connectable model list (GOT2000)

◆ Temperature controllers/Other control equipment

Manufacturer		Model name		GT27/GT25/GT23			
				RS-485	RS-422	RS-232	Ethernet
Yokogawa Electric Corporation	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.	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/4-wire type)	×	○ ✻2	○ ✻10
		FB400	FB900	○ (2-wire type/4-wire type)	○	○	○ ✻10
	RB	RB100 RB400 RB500	RB700 RB900	○ (2-wire type)	×	○ ✻2	×
	PF	PF900	PF901	○ (2-wire type/4-wire type)	○	○	×
	HA	HA400 HA401	HA900 HA901	○ (2-wire type/4-wire type)	○	○	×
	RMC	RMC500		○ (2-wire type)	×	○ ✻2	×
	MA	MA900	MA901	○ (2-wire type/4-wire type)	○	○	×
	AG	AG500		○ (2-wire type/4-wire type)	○	×	×
	THV	THV-A1		○ (2-wire type/4-wire type)	○	×	×
	SA	SA100	SA200	○ (2-wire type)	×	○ ✻2	×
	SRX	X-TIO		○ (2-wire type)	×	○ ✻2	×
	SB1	SB1		○ (2-wire type)	×	○ ✻2	×
	B400	B400		○ (2-wire type)	○	×	×

✻1: GT27/GT25: Use GT15-RS4-TE or FA-LTBGT2R4CBL□. The RS-422/485 interface and GT15-RS4-9S cannot be used.
GT23: Use FA-LTBGT2R4CBL□. The RS-422/485 interface 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 communication driver.
✻10: Only MODBUS®/TCP connection is supported. Use the MODBUS®/TCP communication driver.
✻11: Use a serial communication unit SCU.

◆ MODBUS® devices

Communication with MODBUS® compatible devices is possible by using the MODBUS®/RTU communication driver or the MODBUS®/TCP 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, PLC, etc. to a GOT, the data can be written to or read from virtual devices of the GOT.

■ 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	
	Other than above	All models (By mounting communication units on the GOT, bus connection, network connection, and others can be used.)
GT23	RS-232	All models (Built-in interfaces of the GOT can be used.)
	RS-422/485	
	Ethernet	
GT21	RS-232	GT2103-PMBDS GT2103-PMBDS2 GT2104-RTBD
	RS-422/485	GT2103-PMBD GT2103-PMBDS GT2103-PMBLS (only connection with MELSEC-F Series is supported) GT2104-RTBD
	Ethernet	GT2103-PMBD GT2104-RTBD
	CC-Link	GT2103-PMBD GT2103-PMBDS GT2103-PMBDS2 GT2104-RTBD

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

Connectable model list (GT SoftGOT2000 Version1)

◆ Mitsubishi PLCs/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					
PLC	MELSEC iQ-R Series		R04CPU	○	×	○	○	○ NEW	○ NEW	×	×
			R08CPU								
			R16CPU								
			R32CPU								
			R120CPU								
		Process CPU NEW	R08PCPU	○	×	○	○	○	○	×	×
			R16PCPU								
			R32PCPU								
			R120PCPU								
	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								
			Q04UDHCPU								
			Q06UDHCPU								
			Q10UDHCPU					○ ✻2			
			Q13UDHCPU								
			Q20UDHCPU								
			Q26UDHCPU								
		Universal model QCPU 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 ○ ✻9	×	○ ✻23	○ ✻23
			Q06PHCPU								
			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 NEW		FX5U	○	○	×	×	×	×	×	×
			FX5UC								
	MELSEC-F Series		FX0	×	○	×	×	×	×	×	×
			FX0S								
			FX0N								
			FX1	×	○	×	×	×	×	×	×
			FX1S								
			FX1N								
			FX1NC								
			FX2	×	○	×	×	×	×	×	×
			FX2C								
			FX2N	×	○	×	×	×	×	×	×
			FX2NC								
			FX3G	○	○	○	×	×	×	×	×
			FX3GC								
			FX3U	○	○	×	×	×	×	×	×
			FX3UC								
			FX3S								
			FX3GE								

Connectable model list (GT SoftGOT2000 Version1)

◆ Mitsubishi PLCs/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					
C Controller module	MELSEC iQ-R Series NEW	R12CCPU-V	○ ✻25	×	○ ✻26	○ ✻19	○	○	×	×
	MELSEC-Q Series	Q24DHCCPU-V	○	○ ✻18	○	○ ✻19	○ ✻3	○ ✻20	○	○
		Q24DHCCPU-VG								
		Q24DHCCPU-LS								
		Q12DCCPU-V ✻20								
Safety controller	MELSEC-WS Series	WS0-CPU0	×	×	×	×	×	×	×	×
		WS0-CPU1								
		WS0-CPU3								
Motion controller	MELSEC iQ-R Series NEW	R16MTCPU	○	×	○	○	○	○	×	×
		R32MTCPU								
	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		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 or a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09011.
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: Use a CC-Link IE Controller Network module of function version D 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.
SW7DC-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.

■ Modules usable when connected with Mitsubishi PLCs

● Ethernet connection

- **PLC Ethernet modules**

CPU series	Ethernet module
MELSEC iQ-R Series Motion controller (MELSEC iQ-R Series)	RJ71EN71
MELSEC-Q Series (Q mode) MELSEC-QS 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.

● Serial communication connection ✻1

- **PLC serial communication modules**

CPU series	Serial communication module
MELSEC iQ-R Series Motion controller (MELSEC iQ-R Series)	RJ71C24 RJ71C24-R2
MELSEC-Q Series (Q mode) Motion controller (MELSEC-Q Series) ✻2	QJ71C24 QJ71C24-R2 QJ71C24N QJ71C24N-R2 QJ71CMO QJ71CMON
MELSEC-L Series CC-Link IE Field Network head module	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.

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

● CC-Link IE Controller Network connection

• Network modules (PLC 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
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.

• Network interface boards (PC side)

PLC 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 (PLC 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 RJ71EN71
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

✻1: When connecting to a Q170MCPU/Q170MSCPU(-S1), only the PLC CPU area (CPU No.1) can be monitored.

• Network interface boards (PC side)

PLC type	Network interface board
CC-Link IE Field Network	Q81BD-J71GF11-T2

● MELSECNET/H, MELSECNET/10 connection

• Network modules (PLC side)

CPU series	MELSECNET/H, MELSECNET/10 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 (PC side)

PLC 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 robot controllers

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	○	○	○ ✻4	○	○	○
	CR751-Q(Q172DRCPU)								
	CR750-D	○	×	×	×	×	×	×	×
	CR751-D								
SQ Series	CRnQ-700(Q172DRCPU)	○ ✻2	○ ✻3	○	○	○ ✻4	○	○	○
SD Series	CRnD-700	○	×	×	×	×	×	×	×

✻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.

Connectable model list (GT SoftGOT2000 Version1)

◆ Mitsubishi CNCs

Series	Model	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 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.

◆ Non-Mitsubishi PLCs/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 CQM1H	CQM1H		×	○	×
	SYSMAC CP1	CP1E (N type)		×	○ ✻6	×
	SYSMAC CQM1	CQM1		×	○ ✻2	×
	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	×	○	×
KEYENCE CORPORATION		KV-700 KV-1000	KV-3000	○	×	×
		KV-5000	KV-5500	○	×	×
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	○	×	○
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	○	×	×
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.

■ 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 CS1D-ETN21D	CJ1W-ETN21	—	
KEYENCE CORPORATION	Ethernet module	KV-LE20V	KV-LE21V	—	
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	CP343-1 IT CP343-1 CP343-1 Lean	CP343-1 Advanced CP443-1 IT CP443-1	—	

✻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 with MODBUS® compatible devices is possible.
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.

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 ✻2	Same dimensions as GT2712, GT2512.
10.4"	GT167□, GT157□ ✻2, GT1275 ✻1	Same dimensions as GT2710, GT2510, GT2310.
8.4"	GT166□, GT156□ ✻2, GT1265 ✻1	Same dimensions as GT2708, GT2508, GT2308.
5.7"	GT1655, GT155□ ✻2, GT145□, GT115□ ✻2, GT105□	Same dimensions as GT2705.
3.7"	GT1020 ✻2	Same dimensions as GT2103. (Although the screen size differs, panel cut dimensions are the same.)

✻1: Discontinued product.
✻2: To be discontinued product.

Communication units, option units

Communication units and option units for the GT16, GT15, GT12, or GT10 can be used with the GOT2000 Series as-is except for the following devices.

GOT1000 Series			GOT2000 Series	Remarks
Communication unit	RS-422 conversion unit	GT15-RS2T4-9P	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 ✻2	Use the built-in Ethernet interface	—
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 ✻2		
	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 ✻2		
	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.
✻2: To be 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

GOT model name

GT27 15 - X T B A

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

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

Symbol	Resolution
X	XGA
S	SVGA
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

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

Symbol	Communication interface
None ✻1	Ethernet and RS-422/485 interfaces
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

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				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				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 NEW	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	
	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				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				24 V DC	
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	
GT21	GT2104	GT2104-RTBD NEW	4.3" Wide [480 × 272 dots]	TFT color 65536 colors	Black	24 V DC	—
	GT2103	GT2103-PMBD	3.8" [320 × 128 dots]	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 NEW				24 V DC	RS-232 × 2 channels
		GT2103-PMBLS NEW				5 V DC	RS-422 (FXCPU connection only)

For inquiries relating to the status of conforming to various standards and laws (CE, UL/cUL, Class I Division 2, KC, and maritime certifications [ABS/BV/DNV/GL/LR/NK/RINA]), please contact your local sales office.

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 NEW	15" XGA	TFT color 65536 colors	Black	100 to 240 V AC	GOT + GT15-J71GF13-T2
		GT2715-XTBD-GF NEW				24 V DC	
	GT2712	GT2712-STBA-GF NEW	12.1" SVGA		Black	100 to 240 V AC	
		GT2712-STBD-GF NEW				24 V DC	
		GT2712-STWA-GF NEW			White	100 to 240 V AC	
		GT2712-STWD-GF NEW				24 V DC	
	GT2710	GT2710-STBA-GF NEW	10.4" SVGA		Black	100 to 240 V AC	
		GT2710-STBD-GF NEW				24 V DC	
		GT2710-VTBA-GF NEW	10.4" VGA			100 to 240 V AC	
		GT2710-VTBD-GF NEW				24 V DC	
		GT2710-VTWA-GF NEW			White	100 to 240 V AC	
		GT2710-VTWD-GF NEW				24 V DC	
	GT2708	GT2708-STBA-GF NEW	8.4" SVGA		Black	100 to 240 V AC	
		GT2708-STBD-GF NEW				24 V DC	
		GT2708-VTBA-GF NEW	8.4" VGA			100 to 240 V AC	
		GT2708-VTBD-GF NEW				24 V DC	
	GT2705	GT2705-VTBD-GF NEW	5.7" VGA		Black	24 V DC	
GT25	GT2512	GT2512-STBA-GF NEW	12.1" SVGA	TFT color 65536 colors	Black	100 to 240 V AC	GOT + GT15-J71GF13-T2
		GT2512-STBD-GF NEW				24 V DC	
	GT2510	GT2510-VTBA-GF NEW	10.4" VGA		Black	100 to 240 V AC	
		GT2510-VTBD-GF NEW				24 V DC	
		GT2510-VTWA-GF NEW			White	100 to 240 V AC	
		GT2510-VTWD-GF NEW				24 V DC	
	GT2508	GT2508-VTBA-GF NEW	8.4" VGA		Black	100 to 240 V AC	
		GT2508-VTBD-GF NEW				24 V DC	
		GT2508-VTWA-GF NEW			White	100 to 240 V AC	
		GT2508-VTWD-GF NEW				24 V DC	

For inquiries relating to the status of conforming to various standards and laws (CE, UL/cUL, Class I Division 2, KC, and maritime certifications [ABS/BV/DNV/GL/LR/NK/RINA]), please contact your local sales office.

Communication units

Product name	Model	Specifications	Supported model			
			GT27	GT25	GT23	GT21
Serial communication unit	GT15-RS2-9P	RS-232 serial communication unit (D-sub 9-pin male)	●	●	—	—
	GT15-RS4-9S	RS-422/485 serial communication unit (D-sub 9-pin female) ✻1 ✻2	●	●	—	—
	GT15-RS4-TE	RS-422/485 serial communication unit (terminal block) ✻1 Can be used only when connected with temperature controllers/indicating ontrollers by RS-485 connection or at the GOT multi-drop connection	●	●	—	—
Q bus connection unit	GT15-QBUS	Q bus connection (1 channel) unit standard model	●	●	—	—
	GT15-QBUS2	Q bus connection (2 channels) unit standard model	●	●	—	—
	GT15-75QBUSL	Q bus connection (1 channel) unit slim model ✻3	●	●	—	—
	GT15-75QBUS2L	Q bus connection (2 channels) unit slim model ✻3	●	●	—	—
MELSECNET/H communication unit	GT15-J71LP23-25	Normal station unit (optical loop)	●	●	—	—
	GT15-J71BR13	Normal station unit (coaxial bus)	●	●	—	—
CC-Link IE Controller Network communication unit	GT15-J71GP23-SX	Normal station unit (optical loop)	●	●	—	—
CC-Link IE Field Network communication unit	GT15-J71GF13-T2	Intelligent device station unit	●	●	—	—
CC-Link communication unit	GT15-J61BT13	Intelligent device station unit CC-Link Ver. 2 compliant	●	●	—	—
Field network adapter unit ✻6	GT25-FNADP NEW	Supported network: PROFIBUS DP, DeviceNet	●	●	—	—
Wireless LAN communication unit	GT25-WLAN	IEEE802.11b/g/n compliant, built-in antenna, station (client), connection to personal computer Compliance with: Japan Radio Law ✻4, FCC ✻5, R&TTE ✻5	●	●	—	—
Serial multi-drop connection unit	GT01-RS4-M	For GOT multi-drop connection	●	●	●	●

✻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 product with hardware version A complies with the regulation. The product with hardware version A can be used only in Japan.

✻5: The product with hardware version B 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.

✻6: 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
DeviceNet	ABCC-M40-DEV	AB6909-B

Product List

Option units

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

*1: This unit is not usable for the 5.7 inch model.

*2: Only available to GT2103. (Excluding GT2103-PMBLS)

*3: Settings in the screen design software differ between GT27-R2 and GT27-R2-Z.

Software

Product name	Model	Description		
HMI/GOT Screen Design Software MELSOFT GT Works3	SW1DND-GTWK3-E	English Version	Standard license product	DVD-ROM
	SW1DND-GTWK3-EA		Volume license product *1	
	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
License key for GT SoftGOT2000 *4	GT27-SGTKEY-U	USB port license key		
Remote Personal Computer Operation Function (Ethernet) License *5	GT25-PCRAKEY	1 license		
VNC Server Function License *5	GT25-VNCSKEY	1 license (License for GT remote access function)		
MES I/F Function License *5	GT25-MESIFKEY	1 license		

*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 ToolBox2 mini]
- · 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]

*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.

Options

Product name		Model	Specifications		Supported model			
					GT27	GT25	GT23	GT21
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 NEW	For 5.7"		●	—	—	—
		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 NEW	For 5.7"		●	—	—	—
		GT21-04RPSGC-UC NEW	For 4.3" Wide	• Antiglare type • Transparent • Without a hole for the USB environmental protection cover ✻2 • A set of 5 sheets	—	—	—	●
		GT21-03PSGC-UC	For 3.8"		—	—	—	●
		GT25-12PSCC-UC	For 12.1"	• Clear type • Transparent • Without a hole for the USB environmental protection cover ✻2 • A set of 5 sheets	●	●	—	—
		GT25-10PSCC-UC	For 10.4"		●	●	●	—
		GT25-08PSCC-UC	For 8.4"		●	●	●	—
		GT21-04RPSCC-UC NEW	For 4.3" Wide		—	—	—	●
		GT21-03PSCC-UC	For 3.8"		—	—	—	●
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 NEW	For 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 NEW	For 5.7"		●	—	—	—
		GT21-04RPCO NEW	For 4.3" Wide		—	—	—	●
		GT10-20PCO	For 3.8"		—	—	—	●
Stand		GT15-90STAND	For 15"		●	—	—	—
		GT15-80STAND	For 12.1"		●	●	—	—
		GT15-70STAND	For 10.4"/8.4"		●	●	●	—
		GT05-50STAND	For 5.7"		● NEW	—	—	—
Memory card	SD memory card	NZ1MEM-2GBSD NEW	SD memory card for GOT, 2 GB		●	●	●	●
		NZ1MEM-4GBSD NEW	SDHC memory card for GOT, 4 GB		●	●	●	●
		NZ1MEM-8GBSD NEW	SDHC memory card for GOT, 8 GB		●	●	●	●
		NZ1MEM-16GBSD NEW	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		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	● NEW	—	—	—
		GT15-50ATT-85		For replacing A85□GOT	● NEW	—	—	—
Battery		GT11-50BAT	Battery for backup of SRAM data, clock data, and system status log data ✻6.		● (For replacement)	● (For replacement)	● (Option)	● ✻5 (For replacement)

✻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 does not have a built-in battery.

✻6: GT21 does not support the system status log data backup function.

Product List

Cables

Product name		Model	Cable length	Recommended product ※1	Specifications	Supported model			
						GT27	GT25	GT23	GT21
QCPU bus connection cable	QCPU connection cable GOT-to-GOT connection cable	GT15-QC06B	0.6 m	○	QCPU ⇔ GOT GOT ⇔ GOT	●	●	—	—
		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)	●	●	—	—
		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).	●	●	—	—
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)	●	●	—	—
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]	●	●	●	● ※7
		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 ※4
		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)]	—	—	—	● ※3
		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, or Q01CPU using direct CPU connection.	—	—	—	● ※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 ※4
		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 ※4
		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)]	—	—	—	● ※8
		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.	—	—	—	● ※8
		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]	—	—	—	● ※8
		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)]	—	—	—	● ※3

Cables

Product name		Model	Cable length	Recommended product ✻1	Specifications	Supported model			
						GT27	GT25	GT23	GT21
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 ✻9
		GT10-C30R2-6P	3 m	—	For connecting the Q/LCPU and GOT [MINI-DIN 6-pin ⇔ separate wire (connector terminal block 9-pin)]	—	—	—	● ✻10
					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 ✻9
	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 ✻9
	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 ✻9
	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 ✻9
	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]	—	—	—	● ✻9
	Data transfer cable	GT01-C30R2-6P	3 m	—	For connecting a GOT and a personal computer ✻: This cable is used only for the FA transparent function. Do not use this cable to transfer screen or OS data. [MINI-DIN 6-pin ⇔ D-sub 9-pin]	—	—	—	● ✻9
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	●	●	—	—
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]	●	●	●	● ✻6
Extended USB waterproof cable		GT10-C10EXUSB-5S	1 m	—	Use this cable for extracting the USB port of a GOT to the surface of a control panel	—	—	—	●

✻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 with the RS-422 connector conversion cable GT10-C02H-9SC.

✻5: This cable is usable with the RS-232 connector conversion cable GT10-C02H-6PT9P.

✻6: This cable is not usable for the printer connection.

✻7: This cable is usable for GT2104-RTBD, GT2103-PMBD, GT2103-PMBDS.

✻8: This cable is usable for GT2104-RTBD, GT2103-PMBDS, GT2103-PMBLS. For GT2103-PMBLS, use a 3 m or shorter cable.

✻9: This cable is usable for GT2103-PMBDS, GT2103-PMBDS2.

✻10: This cable is usable for GT2104-RTBD, GT2103-PMBDS2.

✻11: This cable is not usable for GT2103-PMBD, GT2103-PMBLS.

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.

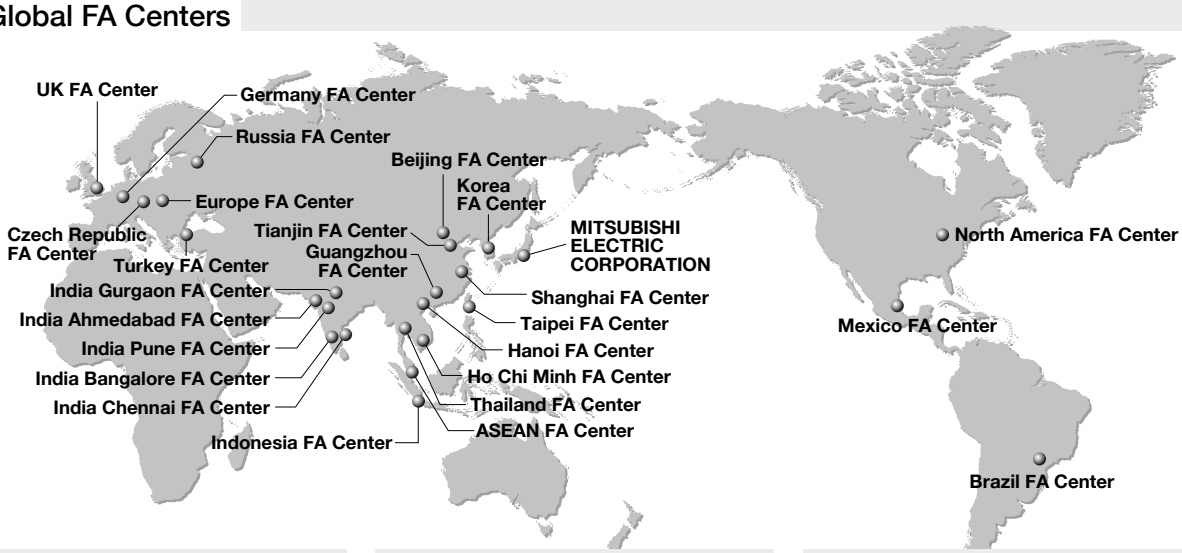
Manuals

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

Support

Global support

Global FA Centers



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◆ Approval standards

Mitsubishi's products comply with various standards and laws.

Mitsubishi's products also comply with various safety standards including UL standards, maritime certifications, and radio laws.

<Safety standards>

Mark	Standards/Agency	Country/ Region
CE	EN Standards	Europe
UL	UL Standards	United States
	Class I, Division 2 (ANSI/ISA-12.12.01)	
cUL	Canadian Standards Association (CSA)	Canada
	Class I, Division 2 (C22.2 No.213-M1987)	

<Radio laws>

Mark	Law	Country
KC	Korea Radio Waves Act	Korea

<Maritime certifications>

Abbrev.	Certification Organization	Country
ABS	American Bureau of Shipping	United States
BV	Bureau Veritas	France
DNV	Det Norske Veritas	Norway
GL	Germanischer Lloyd	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 contact your local sales office.

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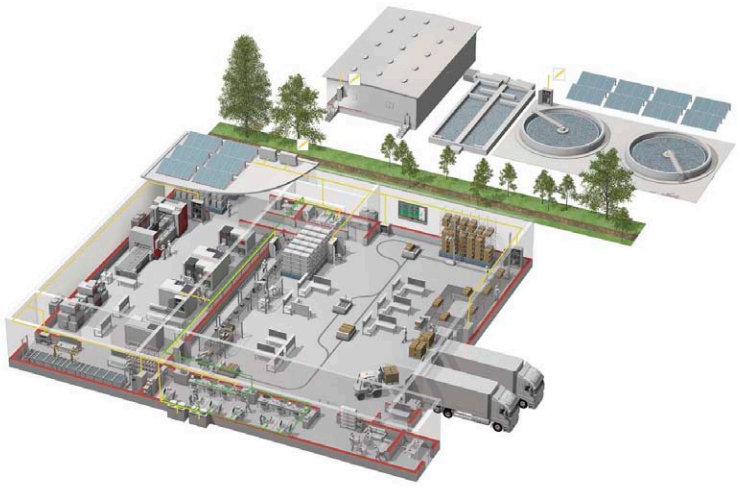

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