MITSUBISHI ELECTRIC

Changes for the Better

for a greener tomorrow eco Changes

Mitsubishi Graphic Operation Terminal
GOT1000 Series

Tailored solutions to meet your HMI and visualization needs



Compatible with Windows® 7



CASE STUDY 1

Have you ever needed an HMI to do more than provide pretty panel meters? The GOT1000 does more than just visualization, it provides solutions for both the everyday, and not so everyday problem.

GOT Solutions

CASE STUDY 2

Solutions for your FA Device: Innovative solutions for improving uptime, work efficiency and productivity using the GOT1000 and your FA equipment.

FA Solutions

The GOT1000 delivers the competitive advantage:

The speed of your business and the speed of your machine hinges on many forces outside of your control.
The GOT1000 brings them back under control with speed, performance and industry leading functions that are tailored for visualization - real life solutions for your real time process.
Whether your focus is centered on uptime, productivity or serviceability there is a GOT solution that fits your machine, factory and enterprise level requirements.



GOTs evolve
the face of control.

GRAPHIC OPERATION TERMINAL
GOT1000

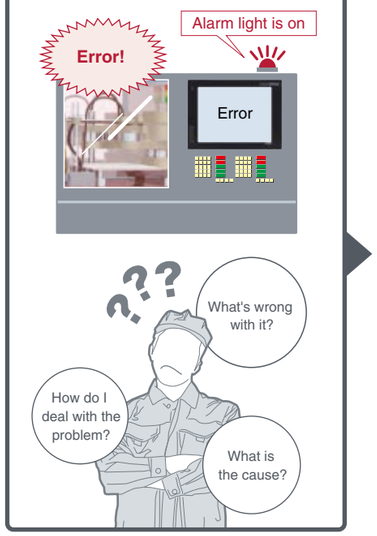
GRAPHIC OPERATION TERMINAL GOT1000

GOT Solutions Quick response to problems. Easy facility design with the GOT1000 series. Comprehensive solutions to production site problems.

CASE 1

Facility uptime is increased by reducing unexpected errors on the floor.

Before

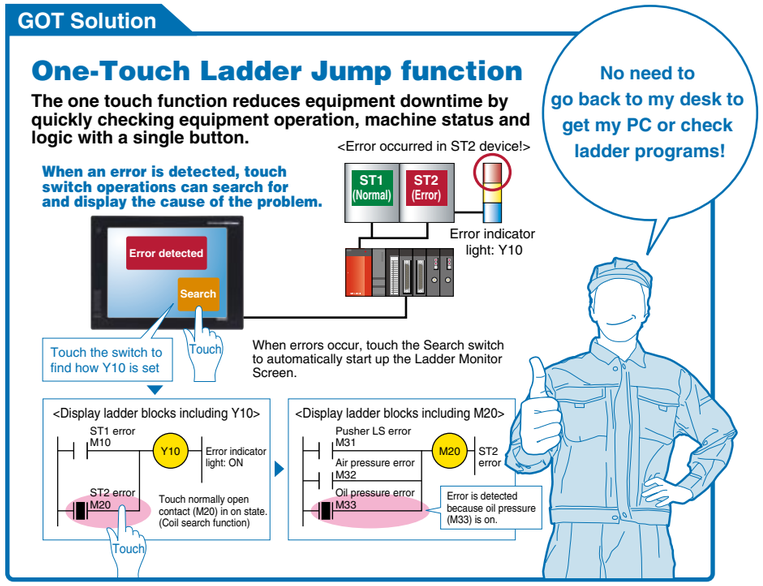


GOT Solution

One-Touch Ladder Jump function

The one touch function reduces equipment downtime by quickly checking equipment operation, machine status and logic with a single button.

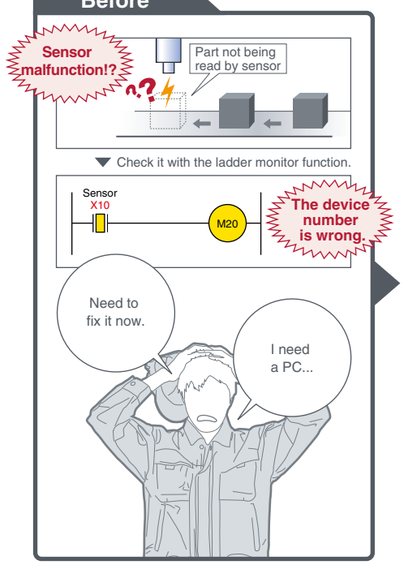
When an error is detected, touch switch operations can search for and display the cause of the problem.



CASE 2

Equipment availability is greatly improved when GOTs are used to quickly edit PLC programs.

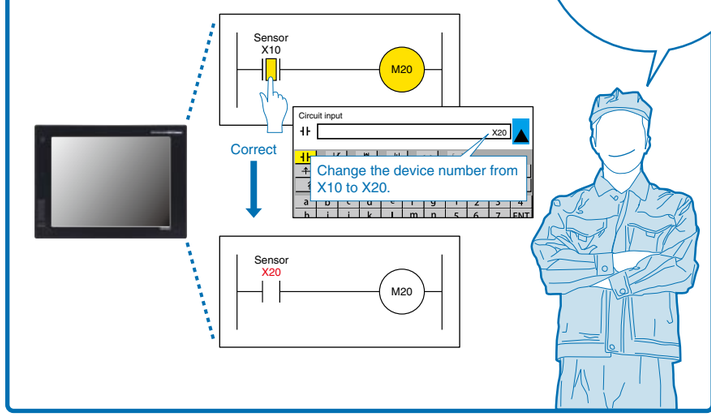
Before



GOT Solution

Ladder Editor function

It takes only a few touches to make minor ladder program corrections. It is easy and fast.

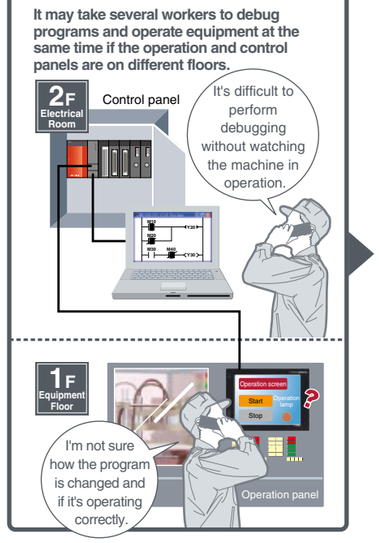


CASE 3

Downtime is shorten when debugging can be performed locally or over decentralized systems.

Before

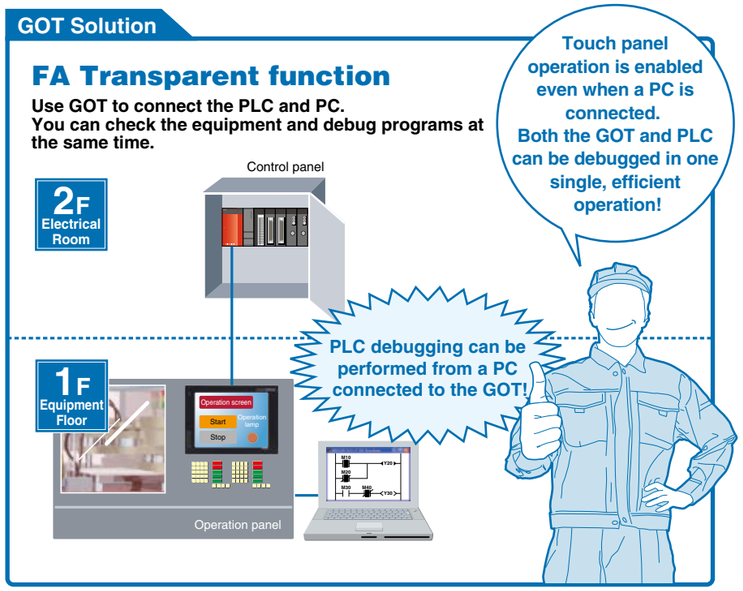
It may take several workers to debug programs and operate equipment at the same time if the operation and control panels are on different floors.



GOT Solution

FA Transparent function

Use GOT to connect the PLC and PC.
You can check the equipment and debug programs at the same time.



CASE 4

Production efficiency is maintained when the GOT is used to manage product changeovers and maintenance recovery plans.

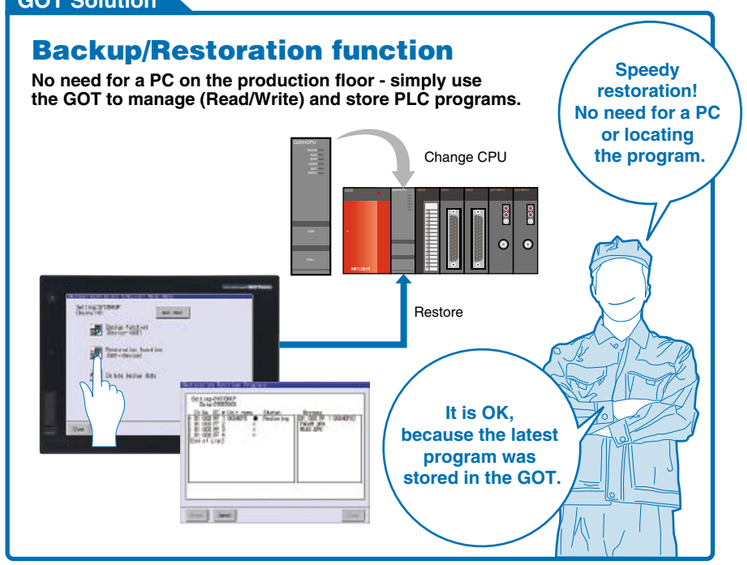
Before



GOT Solution

Backup/Restoration function

No need for a PC on the production floor - simply use the GOT to manage (Read/Write) and store PLC programs.

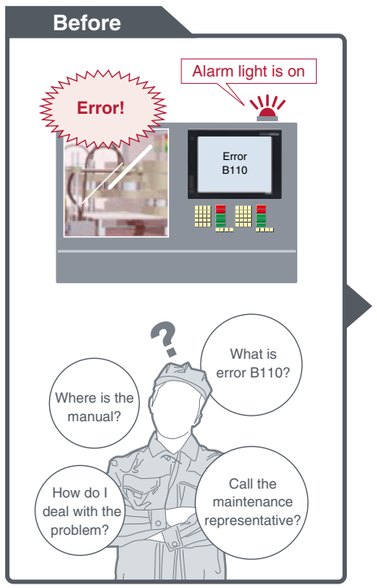


GOT Solutions

CASE 5

Operator efficiency is improved when manuals and work instructions can be accessed directly from the display.

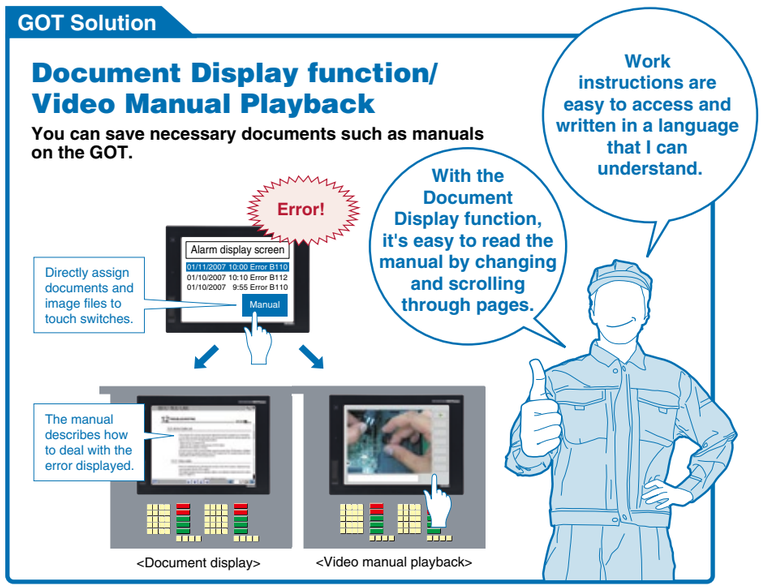
Before



GOT Solution

Document Display function/ Video Manual Playback

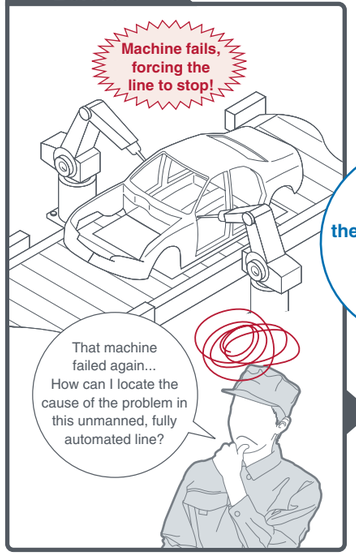
You can save necessary documents such as manuals on the GOT.



CASE 6

Production quality can be increased when using the GOT to capture and play back real time videos and images.

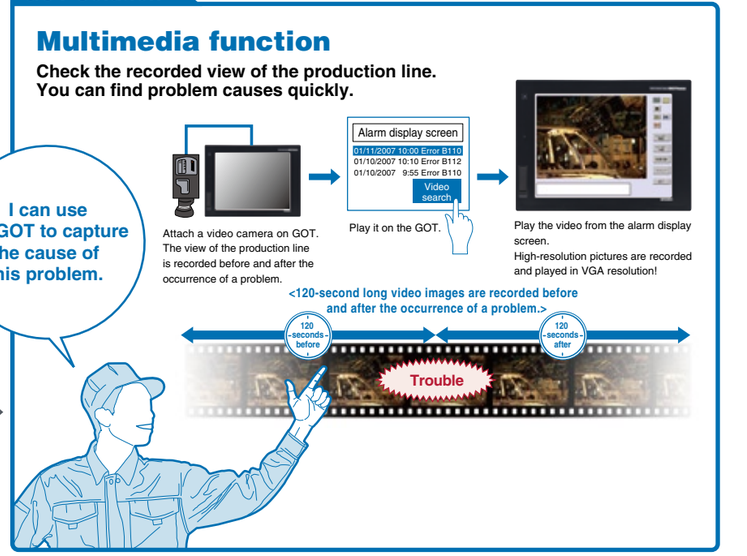
Before



GOT Solution

Multimedia function

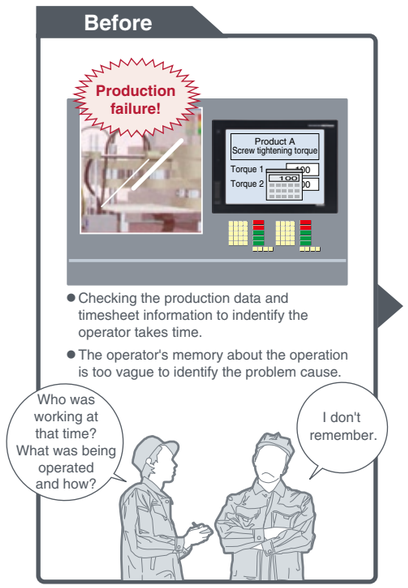
Check the recorded view of the production line. You can find problem causes quickly.



CASE 7

Minimize production mistakes by using the GOT to manage authorization and security levels.

Before

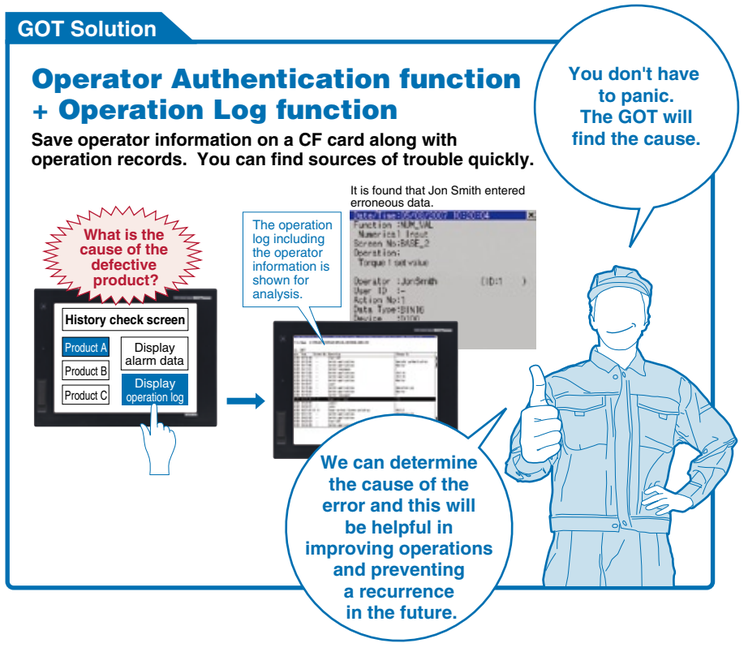


- Checking the production data and timesheet information to indentify the operator takes time.
- The operator's memory about the operation is too vague to identify the problem cause.

GOT Solution

Operator Authentication function + Operation Log function

Save operator information on a CF card along with operation records. You can find sources of trouble quickly.

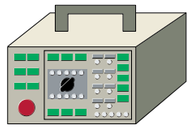


CASE 8

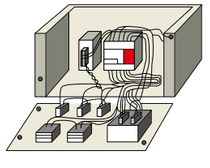
Reduce installation costs by using flexible mounting options.

Before

Hardware switches and lamps may require large areas of boards.



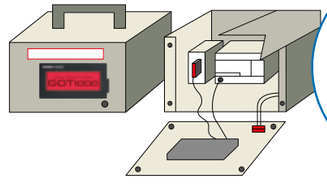
Rearranging them and reconnecting cables may be inconvenient when specifications are changed.

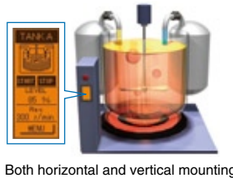


GOT Solution

GT10 models (GT1020/GT1030)

For simple and small applications, GOT1000 compact types are just right.





Both horizontal and vertical mounting available to meet the needs of different applications.

Its operation is intuitive. Three backlight colors indicate different equipment statuses.



green orange red
3-color display model
(white pink red
3-color model is also available)

FA Solutions

Obstacles are often encountered when using many different types of FA devices. The following problems can be resolved by linking with GOT1000.

Enhancing sequence control.





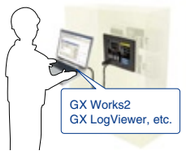
General-purpose PLC
LINK1 MELSEC × GRAPHIC OPERATION TERMINAL GOT1000

Powerful functionality that is useful during startup and the tuning process!

Can the program be debugged without opening the cabinet?

FA transparent function For details, see P.39

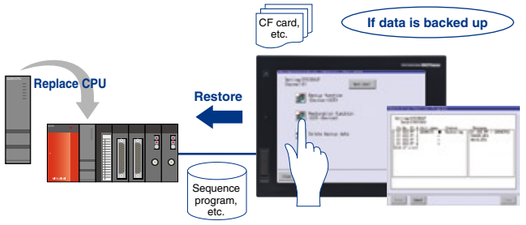
Connected with a personal computer, the GOT acts as a transparent gateway to enable programming, start up, and adjustment of equipment using GX Works2 or GX LogViewer. Users do not have to bother with opening the cabinet or changing cable connections. (On the GT10 series, the FA transparent function can be used via the interface on the rear side.)



Can the PLC programs be recovered after failure?

Backup/restoration function For details, see P.42

Sequence programs and parameters can be backed up to the CF card or USB memory in the GOT. Users can then perform batch operation to restore the data to the PLC.



Can the PLC status or errors be checked quickly?

System monitor function For details, see P.46

PLC devices can be monitored and changed.

Intelligent module monitor function For details, see P.46

Buffer memory values and I/O information can be monitored and changed.

Network monitor function For details, see P.46

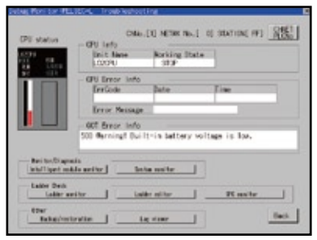
Enable monitoring of network line conditions on a dedicated screen.

Network module status display

Enable monitoring of LED status, error status, among others of network modules on a GOT.

MELSEC-L troubleshooting functiion For details, see P.46

A dedicated maintenance screen for the L series is included. The CPU status and error information can be easily confirmed without a personal computer.
If a problem occurs, you can jump to a function screen such as the ladder monitor to quickly take corrective actions.



Ideal for PLCs in the field and on the plant floor!

Can PLC programs be monitored with the GOT?

Ladder monitor function and ladder editor function For details, see P.44 P.45

Sequence programs can be monitored in a circuit diagram (ladder format).

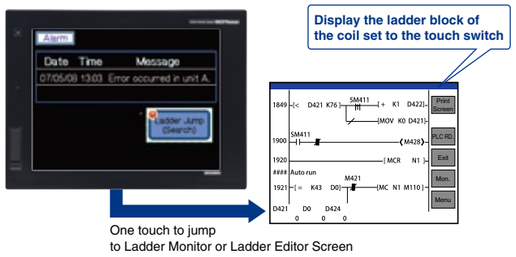
SFC monitor function For details, see P.44

The Q series (Q mode) SFC programs (MELSAP3, MELSAP-L) can be monitored in a SFC diagram format.

Can the root cause be easily identified?

One-touch ladder jump function
(Q/L/QnA series ladder monitor and ladder editor function) For details, see P.44

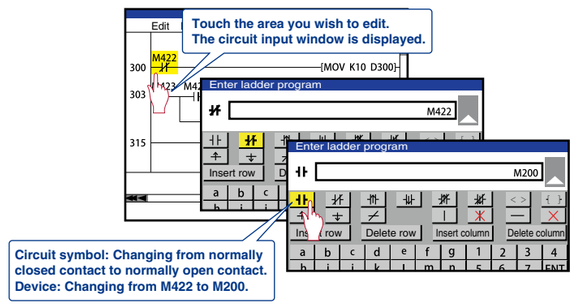
By setting a program name and coil number of the PLC to a touch switch, the relevant ladder circuit block can be displayed directly. Troubles can be handled smoothly from the alarm screen.



Can simple changes to ladder programs be made without a personal computer?

Ladder editor function For details, see P.45

Sequence programs of the Q series (Q mode) and the L series can be edited in a circuit diagram (ladder format).



Using the MELSEC-L series or high-speed data logger module!

Can collected logging data be checked at the worksite?

Log viewer function For details, see P.40

Logging data collected using the L series or high-speed data logger module can be displayed on the GOT.



Monitoring batch control!

Can Process and Batch monitoring be simplified?

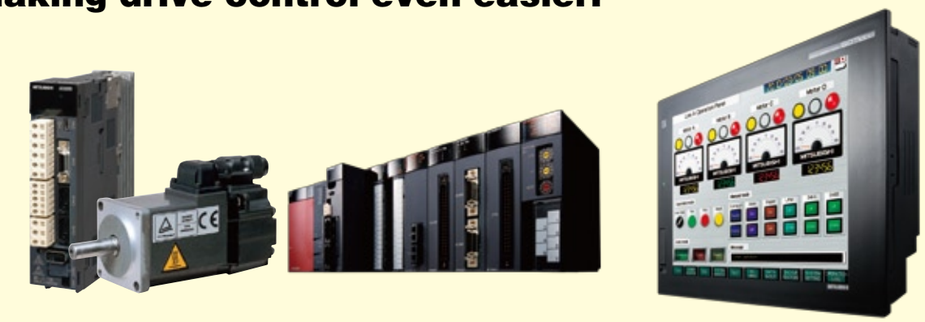
Building a process control system using GOT1000 For details, see P.26 P.51

PX Developer creates GOT process control screens automatically.
The automatically generated data can be used for both the GOT (worksite) and GT SoftGOT1000 (monitor room), and therefore monitor screens can be created efficiently.



FA Solutions

Making drive control even easier.



General-purpose AC Servo

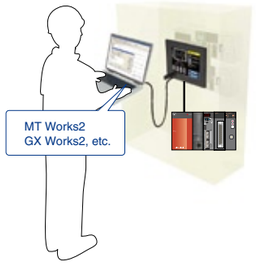
LINK2 MELSERVO × GRAPHIC OPERATION TERMINAL GOT1000

Powerful functionality that is useful during startup and the tuning process!

Can the program be debugged without opening the cabinet?

FA transparent function For details, see P.39

Connected with a personal computer, the GOT acts as a transparent gateway to enable programming, startup, and adjustment of equipment using MT Works2, GX Works2, GX Configurator-QP or MR Configurator2. Users do not have to bother with opening the cabinet or changing cable connections.



Can devices in the motion controller be validated?

System monitor function For details, see P.46

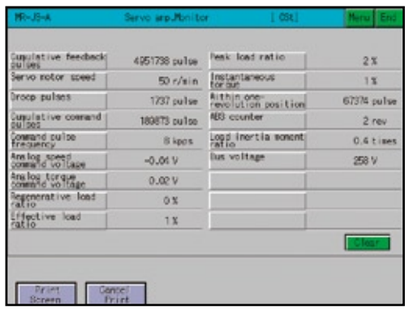
Motion controller devices can be monitored and changed.

For direct connection of servo amplifiers to GOTs!

Can errors or the status of servo amplifiers be validated?

Servo amplifier monitor function For details, see P.47

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

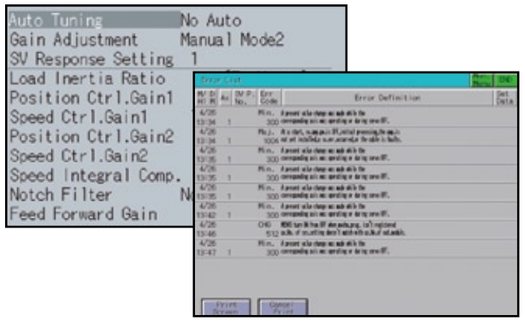


Ideal for motion controllers in the field and on the plant floor!

Can the motion controller's servo parameters be changed easily?

Q series motion monitor function For details, see P.47

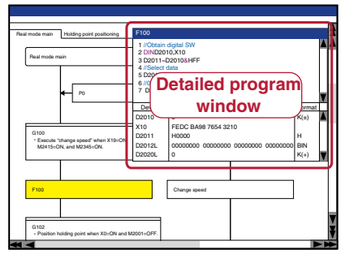
The GOT enables easy monitoring of motion controllers (Q series), changing of servo parameters, and display of errors on the screen.



Can motion SFC programs be checked on the GOT?

Motion SFC monitor function For details, see P.45

Motion controller (Q series) SFC programs can be monitored in SFC diagram format. Viewing the batch program monitor or the active step list enables you to see the complete status at a glance.



Can motion profiles be recovered after controller failures?

Backup/restoration function For details, see P.42

Motion controller (Q series) programs and parameters can be backed up onto a CF card or USB memory in the GOT. Users can perform batch operation to restore the data to the motion controller.

Embedded functionality for positioning modules!

Can positioning status and errors be validated?

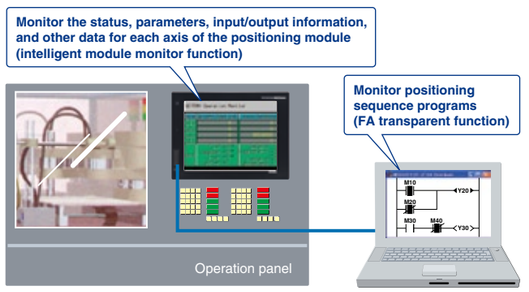
Intelligent module monitor function For details, see P.46

Buffer memory values of modules such as the QD75MH and I/O information can be monitored and changed.



Other convenient uses!

When used in combination with the FA transparent function, the positioning module can be efficiently debugged. If an error occurs in the positioning module, the details of the error can be confirmed using just the GOT.



FA Solutions

Simplifying inverter control.





General-purpose Inverter

LINK3 FREQROL × GRAPHIC OPERATION TERMINAL GOT1000

Ideal for inverter startups and operation!

Can connections to the inverter be simplified?

Directly connect inverters

Up to 31 inverters can be connected to a single GOT over a total distance of 500m.
FREQROL-F700P/F700PJ inverters can automatically configure the communication parameters for GOT connection, making connections easy.

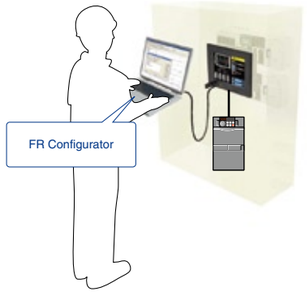


Can the program be debugged without opening the cabinet?

FA transparent function

For details, see P.39

Connected with a personal computer, the GOT acts as a transparent gateway to enable startup and adjustment of equipment using FR Configurator. Users do not have to bother with opening the cabinet or changing cable connections.



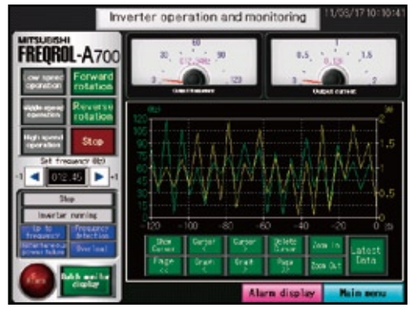
Ideal for inverter operation!

Can the inverter status be monitored on the GOT?

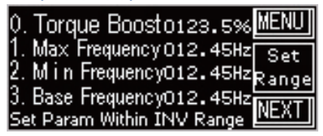
Easy-to-understand display

Operation commands and parameters can be set from a GOT. On the GT1020/GT1030, three different backlight colors can be switched between screens, making it easy for operators to read and operate the screens.

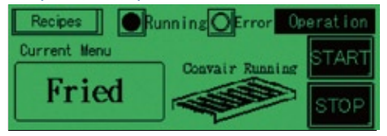
Example of GT16 operation screen



Example of GT1020 parameter screen



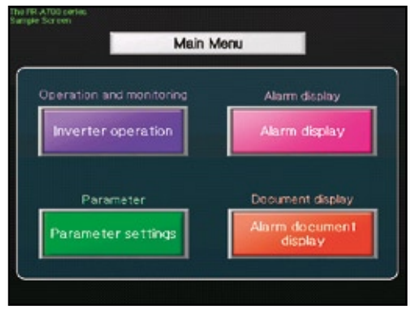
Example of GT1030 operation screen

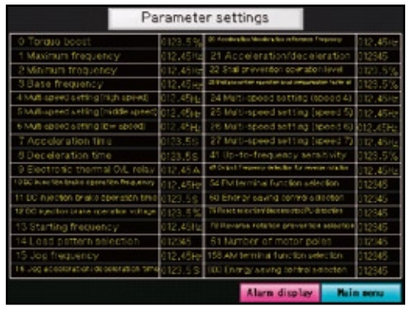


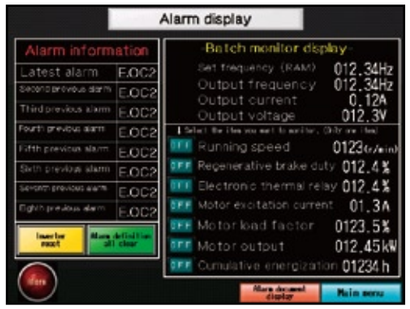
Can inverter parameters be changed easily?

Ready-to-use sample screens

Sample screen data for specifying parameters is available.







FA Solutions

Faster robot control!





Industrial Robot

LINK4 MELFA × GRAPHIC OPERATION TERMINAL GOT1000

Powerful functions for robotic systems!

Can the teaching box and the personal computer used for setup be consolidated into a single unit?

Consolidate and centralize robot monitoring and control functions on production floor using the GOT

Even if a teaching box is not available, the GOT can be used to operate the robot and easily check the current position data and error details. Consolidating panel operations into the GOT improves operation and maintenance work efficiency.

Immediately check the robot status!

Operation and maintenance on the GOT
- Robot operation screen
- Robot current position monitor screen
- Load rate/current value display screen
- Maintenance forecast screen



Consolidated panel operations

Robot internal information (data)
Error information/Variable information/Program information
Robot information (current speed/attainment rate, etc.)
Maintenance information (battery/grease remaining time, etc.)
Servo motor (load rate/current value, etc.)


Robot controller


Teaching box

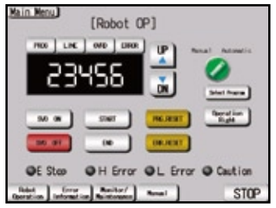

Robot programming & engineering software

Ideal for robot programming!

Can the robot program be easily accessed?

Ready-to-use sample screens

Sample screen data is available for robot operation, current position monitoring, and other purposes. There is no need to create robot programs from scratch.



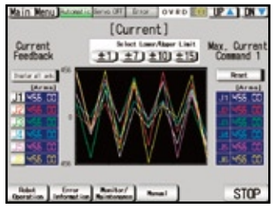
Robot operation panel screen



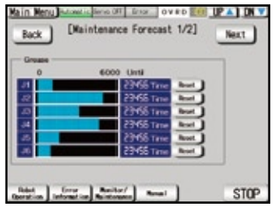
Robot jog/hand operation screen



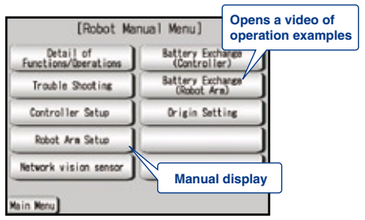
Robot current position monitor screen



Robot load rate/current value monitor screen



Robot maintenance forecast screen

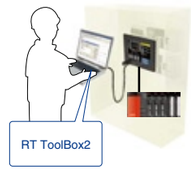


Robot manual menu screen

Can the program be debugged without opening the cabinet?

FA transparent function For details, see P.39

Connected with a personal computer, the GOT acts as a transparent gateway to enable start up and adjustment of equipment using RT ToolBox2. Users do not have to bother with opening the cabinet or changing cable connections.



Can devices in the robot controller be validated?

System monitor function For details, see P.46

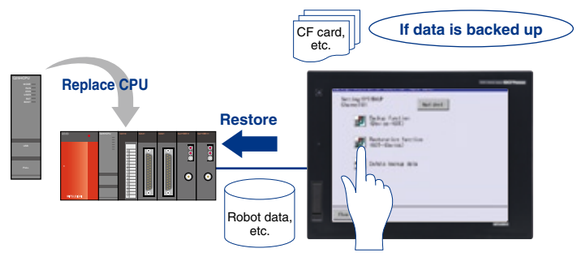
Embedded monitoring utilities are available enabling users to view and change device values.

In the event of trouble!

Can robot profiles be recovered after controller failures?

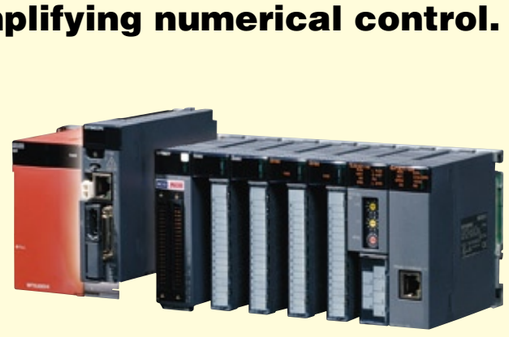
Backup/restoration function For details, see P.42

Robot controller data can be backed up to the CF card or USB memory in the GOT. Users can perform batch operation to restore the data to the robot controller.



FA Solutions

Simplifying numerical control.





Numerical Control Unit

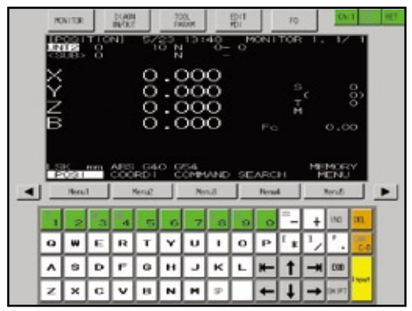
LINK5 C70 MITSUBISHI CNC Series × GRAPHIC OPERATION TERMINAL GOT1000

Powerful function for CNC startup, machining and changeover!

Can CNC parameters be changed easily?

CNC monitor function For details, see P.47

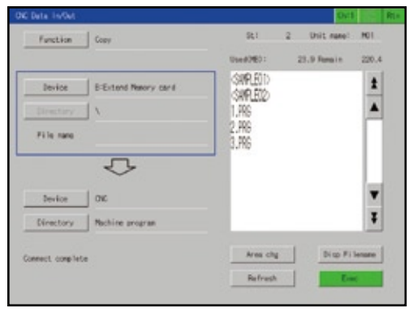
The CNC C70 and MELDAS C6/C64 can be monitored and the parameters can be changed.



Can errors or the status of the CNC be validated quickly?

CNC data I/O function For details, see P.47

Data, such as machining programs and parameters, can be copied from a GOT CF card or USB memory to the CNC C70 and vice versa. Data can be deleted as well.



Can CNC devices be easily validated?

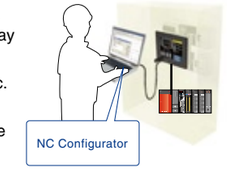
System monitor function For details, see P.46

Embedded monitoring utilities are available enabling users to view and change CNC C70 and MELDAS C6/64 device values.

Can the program be debugged without opening the panel?

FA transparent function For details, see P.39

Connected with a personal computer, the GOT acts as a transparent gateway to enable start up and adjustment of equipment using NC Configurator, etc. Users do not have to bother with opening the cabinet or changing cable connections.



Ideal for CNC programming!

Can CNC programs be validated directly from the GOT?

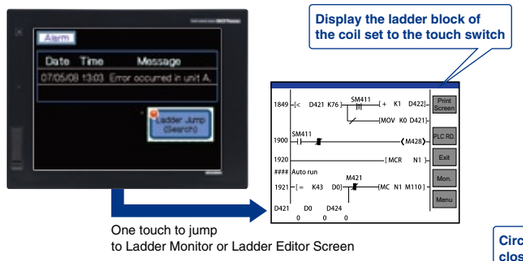
Ladder monitor function For details, see P.44

CNC C70 and MELDAS C6/C64 sequence programs can be monitored in a circuit diagram (ladder format).

Can the root cause be easily identified?

One-touch ladder jump function For details, see P.44

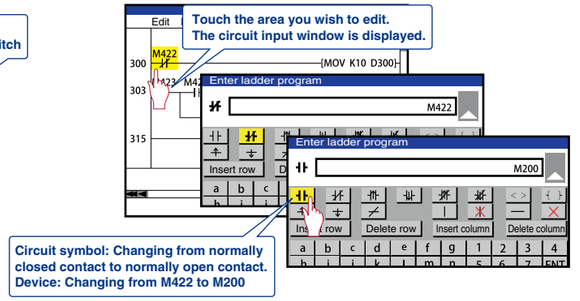
By setting a program name and coil number of the CNC C70 to a touch switch, the relevant ladder circuit block can be displayed directly. Problems can be handled smoothly from the alarm screen.



Can programs be changed easily without a personal computer?

Ladder editor function For details, see P.45

Sequence programs of the CNC C70 can be edited in a circuit diagram (ladder format).

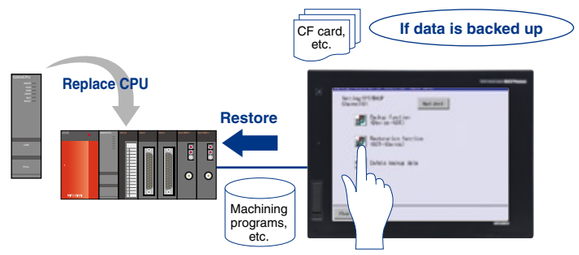


In the event of trouble!

Can the CNC programs be recovered after failure?

Backup/restoration function For details, see P.42

CNC C70 data such as machining programs and parameters can be backed up to the CF card or USB memory in the GOT. Users can perform batch operation to restore the data to the CNC C70.



FA Solutions

Improving vision integration.



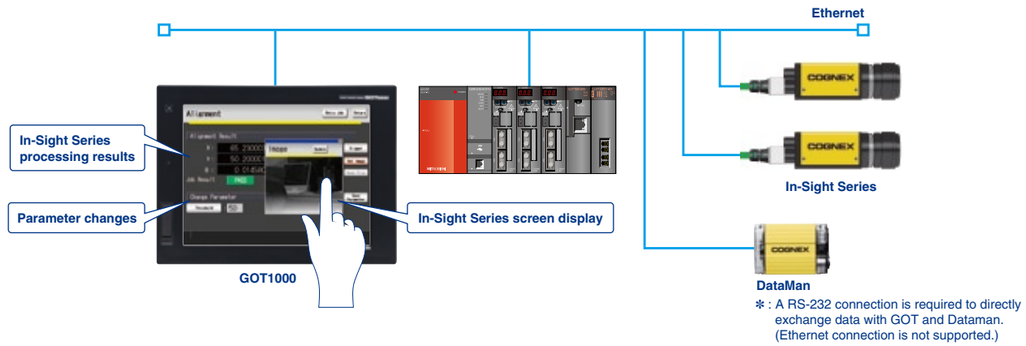
LINK6 COGNEX IN-SIGHT Vision Systems × GRAPHIC OPERATION TERMINAL GOT1000

Powerful functions for vision systems!

Can automation and vision systems be consolidated into a single platform?

Displaying the In-Sight Series processing results on the GOT

By connecting a GOT to the In-Sight Series and PLC over Ethernet, the In-Sight Series processing results can be displayed and parameters can be changed on the GOT. The GT16 model has a built-in Ethernet port, allowing the system to be built easily.



✻ : A RS-232 connection is required to directly exchange data with GOT and Dataman. (Ethernet connection is not supported.)

Can other COGNEX products be connected?

Connect to various COGNEX products

The In-Sight vision system and DataMan barcode reader can be connected to the GOT.

Ideal for configuration!

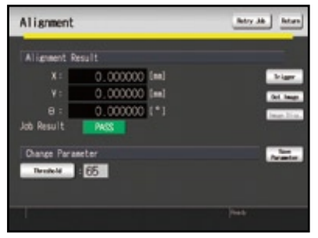
Can vision parameters be changed from the GOT?

Ready-to-use sample screens

Sample screen data is available for checking the results of positioning, inspection, and reading characters.

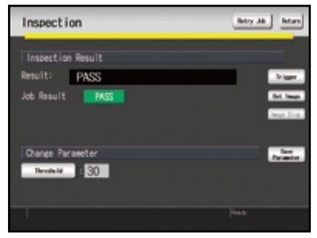
[Alignment screen]

The workpiece position and posture detected with In-Sight Series as well as the success or failure state of the detection are displayed. The workpiece detection threshold can be changed from this screen.



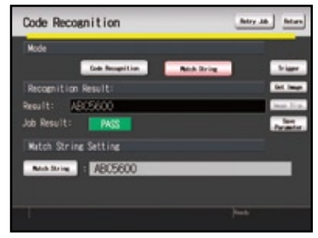
[Inspection screen]

The results of workpiece inspections carried out with the In-Sight Series are displayed. The workpiece detection threshold can be changed.



[Code recognition screen]

The results of reading ID codes with the In-Sight Series are displayed. The reading mode (read/verify or change character string during verification) can be selected.

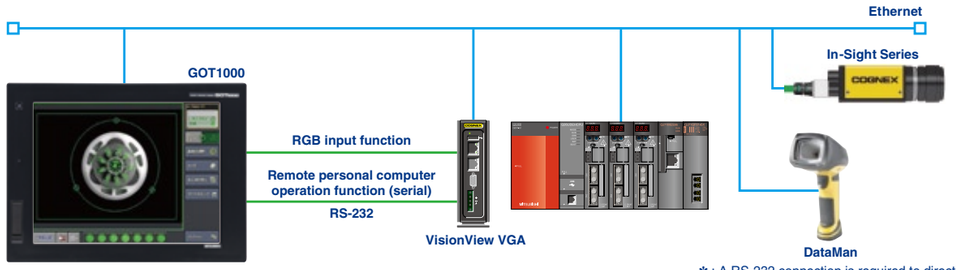


Ideal for monitoring operations!

Can vision applications be handled easily at the worksite?

Displaying In-Sight Series vision applications on the GOT

Connect the COGNEX VisionView VGA with the GOT to display the In-Sight Series Vision Application screen. While monitoring connected devices such as PLCs, it is possible to switch to the Vision Application screen when necessary to display live images, specify parameters with touch operations, and perform other operations.



✻ : RGB input unit is required.

✻ : A RS-232 connection is required to directly exchange data with GOT and Dataman. (Ethernet connection is not supported.)

LINE-UP

GRAPHIC OPERATION TERMINAL GOT1000

The GOT1000 series offers five classes of terminals to fit any system or budget requirement.

GT16

High performance models with multimedia and a host of features and functions including embedded communications

GOT1000 GRAPHIC OPERATION TERMINAL

Multimedia | Video RGB | Network | Bus | Serial

15" type



XGA TFT(High-brightness, wide viewing angle)
GT1695M-XTBA AC type GT1695M-XTBD DC type
Resolution : 1024 × 768 Display colors : 65,536 colors
Multimedia, video/RGB model

12.1" type



SVGA TFT(High-brightness, wide viewing angle)
GT1685M-STBA AC type GT1685M-STBD DC type
Resolution : 800 × 600 Display colors : 65,536 colors
Multimedia, video/RGB model

10.4" type



SVGA TFT(High-brightness, wide viewing angle)
GT1675M-STBA AC type GT1675M-STBD DC type
Resolution : 800 × 600 Display colors : 65,536 colors
Multimedia, video/RGB model

VGA TFT(High-brightness, wide viewing angle)
GT1675M-VTBA AC type GT1675M-VTBD DC type
Resolution : 640 × 480 Display colors : 65,536 colors
Multimedia, video/RGB model

VGA TFT ✻
GT1675-VNBA AC type GT1675-VNBD DC type
Resolution : 640 × 480 Display colors : 4,096 colors

VGA TFT ✻
GT1672-VNBA AC type GT1672-VNBD DC type
Resolution : 640 × 480 Display colors : 16 colors

8.4" type



SVGA TFT(High-brightness, wide viewing angle)
GT1665M-STBA AC type GT1665M-STBD DC type
Resolution : 800 × 600 Display colors : 65,536 colors
Multimedia, video/RGB model

VGA TFT(High-brightness, wide viewing angle)
GT1665M-VTBA AC type GT1665M-VTBD DC type
Resolution : 640 × 480 Display colors : 65,536 colors
Multimedia, video/RGB model

VGA TFT ✻
GT1662-VNBA AC type GT1662-VNBD DC type
Resolution : 640 × 480 Display colors : 16 colors

5.7" type



NEW ✻
VGA TFT(High-brightness, wide viewing angle)
GT1655-VTBD DC type
Resolution : 640 × 480 Display colors : 65,536 colors

6.5" type Handy



VGA Handy GOT/TFT (High-brightness, wide viewing angle) ✻
GT1665HS-VTBD DC type
Resolution : 640 × 480 Display colors : 65,536 colors

GT15

Performance models ideal for a wide range of applications in a network or standalone environment

GOT1000 GRAPHIC OPERATION TERMINAL

Multimedia | Video RGB | Network | Bus | Serial

15" type



XGA TFT(High-brightness, wide viewing angle)
GT1595-XTBA AC type GT1595-XTBD DC type
Resolution : 1024 × 768 Display colors : 65,536 colors

12.1" type



SVGA TFT(High-brightness, wide viewing angle)
GT1585V-STBA AC type GT1585V-STBD DC type
Resolution : 800 × 600 Display colors : 65,536 colors
Video/RGB model

SVGA TFT(High-brightness, wide viewing angle)
GT1585-STBA AC type GT1585-STBD DC type
Resolution : 800 × 600 Display colors : 65,536 colors

10.4" type



SVGA TFT(High-brightness, wide viewing angle)
GT1575V-STBA AC type GT1575V-STBD DC type
Resolution : 800 × 600 Display colors : 65,536 colors
Video/RGB model

SVGA TFT(High-brightness, wide viewing angle)
GT1575-STBA AC type GT1575-STBD DC type
Resolution : 800 × 600 Display colors : 65,536 colors

VGA TFT(High-brightness, wide viewing angle)
GT1575-VTBA AC type GT1575-VTBD DC type
Resolution : 640 × 480 Display colors : 65,536 colors

VGA TFT
GT1575-VNBA AC type GT1575-VNBD DC type
Resolution : 640 × 480 Display colors : 256 colors

VGA TFT
GT1572-VNBA AC type GT1572-VNBD DC type
Resolution : 640 × 480 Display colors : 16 colors

8.4" type



VGA TFT(High-brightness, wide viewing angle)
GT1565-VTBA AC type GT1565-VTBD DC type
Resolution : 640 × 480 Display colors : 65,536 colors

VGA TFT
GT1562-VNBA AC type GT1562-VNBD DC type
Resolution : 640 × 480 Display colors : 16 colors

5.7" type



VGA TFT(High-brightness, wide viewing angle)
GT1555-VTBD DC type
Resolution : 640 × 480 Display colors : 65,536 colors



QVGA STN
GT1555-QSBD DC type
Resolution : 320 × 240 Display colors : 4,096 colors



QVGA STN
GT1550-QLBD DC type
Resolution : 320 × 240 Display colors : 16 gray scales

QVGA TFT(High-brightness, wide viewing angle)
GT1555-QTBD DC type
Resolution : 320 × 240 Display colors : 65,536 colors

GT12

Large basic models with integrated features and communications

GOT1000 GRAPHIC OPERATION TERMINAL

Multimedia | Video RGB | Network | Bus | Serial

10.4" type



VGA TFT ✻
GT1275-VNBA AC type GT1275-VNBD DC type
Resolution : 640 × 480 Display colors : 256 colors

8.4" type



VGA TFT ✻
GT1265-VNBA AC type GT1265-VNBD DC type
Resolution : 640 × 480 Display colors : 256 colors

GT11

Small models with a host of advanced functions

GOT1000 GRAPHIC OPERATION TERMINAL

Multimedia | Video RGB | Network | Bus | Serial

5.7" type



QVGA TFT
GT1155-QTBD DC type
GT1155-QTBDQ DC type Q bus connection
GT1155-QTBDA DC type A bus connection
Resolution : 320 × 240 Display colors : 256 colors



QVGA STN
GT1155-QSBD DC type
GT1155-QSBDQ DC type Q bus connection
GT1155-QSBDA DC type A bus connection
Resolution : 320 × 240 Display colors : 256 colors

GT1150-QLBD DC type
GT1150-QLBDQ DC type Q bus connection
GT1150-QLBDA DC type A bus connection
Resolution : 320 × 240 Display colors : 16 gray scales

5.7" type Handy



QVGA Handy GOT/STN
GT1155HS-QSBD DC type
Resolution : 320 × 240 Display colors : 256 colors
GT1150HS-QLBD DC type
Resolution : 320 × 240 Display colors : 16 gray scales

GT10

Compact models with basic functions

GOT1000 GRAPHIC OPERATION TERMINAL

Multimedia | Video RGB | Network | Bus | Serial

5.7" type



QVGA STN
GT1055-QSBD 24VDC type
Resolution : 320 × 240
Display colors : 256 colors



QVGA STN
GT1050-QBBD 24VDC type
Resolution : 320 × 240
Display colors : Monochrome (blue/white) 16 gray scales

4.7" type



QVGA STN
GT1045-QSBD 24VDC type
Resolution : 320 × 240
Display colors : 256 colors

4.5" type

QVGA STN
GT1040-QBBD 24VDC type
Resolution : 320 × 240
Display colors : Monochrome (blue/white) 16 gray scales



STN(High contrast) NEW ✻

GT1030-HBD	Black	24VDC type	RS-422 connection
GT1030-HBD2	Black	24VDC type	RS-232 connection
GT1030-HBL	Black	5VDC type	RS-422 connection
GT1030-HWD	White	24VDC type	RS-422 connection
GT1030-HWD2	White	24VDC type	RS-232 connection
GT1030-HWL	White	5VDC type	RS-422 connection

Resolution : 288 × 96
Display colors : Monochrome (black/white) (Tricolor LED (green/orange/red))



STN(High contrast) NEW ✻

GT1030-HBDW	Black	24VDC type	RS-422 connection
GT1030-HBDW2	Black	24VDC type	RS-232 connection
GT1030-HBLW	Black	5VDC type	RS-422 connection
GT1030-HWDW	White	24VDC type	RS-422 connection
GT1030-HWDW2	White	24VDC type	RS-232 connection
GT1030-HWLW	White	5VDC type	RS-422 connection

Resolution : 288 × 96
Display colors : Monochrome (black/white) (Tricolor LED (white/pink/red))

3.7" type



STN

GT1020-LBD	Black	24VDC type	RS-422 connection
GT1020-LBD2	Black	24VDC type	RS-232 connection
GT1020-LBL	Black	5VDC type	RS-422 connection
GT1020-LWD	White	24VDC type	RS-422 connection
GT1020-LWD2	White	24VDC type	RS-232 connection
GT1020-LWL	White	5VDC type	RS-422 connection

Resolution : 160 × 64
Display colors : Monochrome (black/white) (Tricolor LED (green/orange/red))



STN

GT1020-LBDW	Black	24VDC type	RS-422 connection
GT1020-LBDW2	Black	24VDC type	RS-232 connection
GT1020-LBLW	Black	5VDC type	RS-422 connection
GT1020-LWDW	White	24VDC type	RS-422 connection
GT1020-LWDW2	White	24VDC type	RS-232 connection
GT1020-LWLW	White	5VDC type	RS-422 connection

Resolution : 160 × 64
Display colors : Monochrome (black/white) (Tricolor LED (white/pink/red))

✻: For details about the functions of GT10 models, see "GT10 (pages 48, 49)".

✻: The GT16□□-VNB□, GT1655-VTBD, GT1665HS-VTBD, GT12□□-VNB□ and GT1030 high contrast products (GT1030-H□□□□) are not supported by the screen design software GT Works2/GT Designer 2.

The lineup that fits in with any production line. Find your GOT with the right functions, size, and features.

GT16

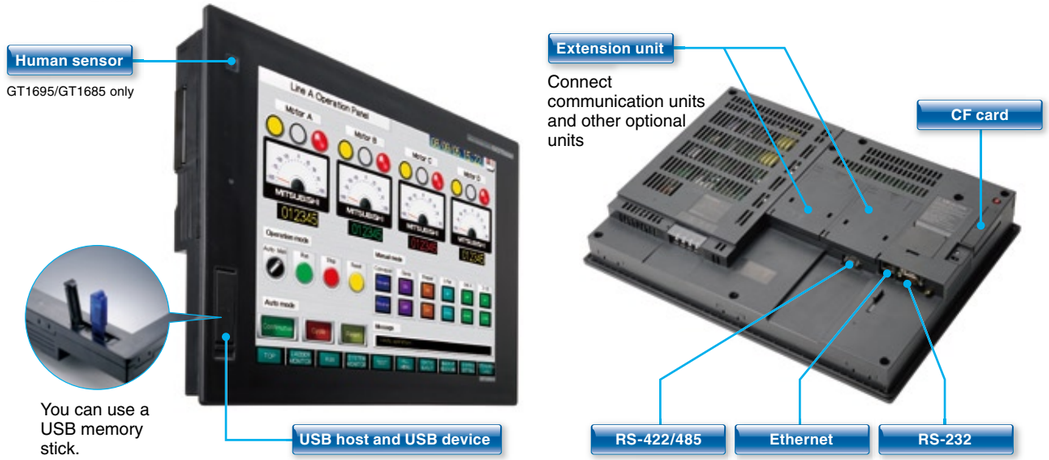
High performance models with multimedia and a host of features and functions including embedded communications

✻ See page 24 for GT16 Handy.

- **User memory capacity: 15MB (GT16□□-VNB□ : 11MB)**
- **USB host and USB device ports are included.**
- **Ethernet, RS-422/485, and RS-232 interfaces are supported as standard interfaces.**
- **A multimedia unit and a video/RGB unit are supported.✻**
- **Featuring an analog touch panel**

✻ : Excluding GT16□□-VNB□, GT1655

Options
Multimedia unit | Video/RGB unit | Printer unit | CF card (extension) unit | Audio output unit | External I/O unit



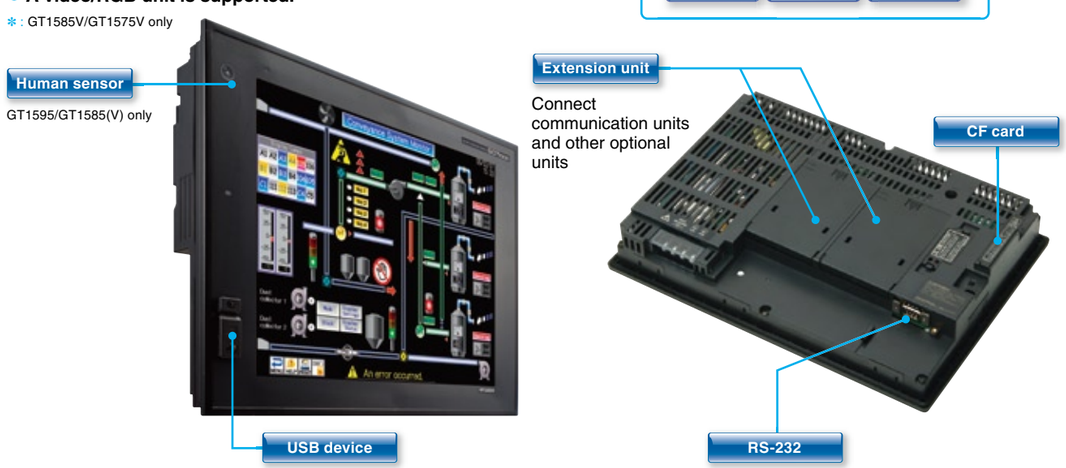
GT15

Performance models ideal for a wide range of applications in a network or standalone environment

- **User memory capacity: 9MB (GT15□□-VNB□: 5MB)**
- **USB device port is included.**
- **The RS-232 interface is supported as a standard interface.**
- **A video/RGB unit is supported.✻**

✻ : GT1585V/GT1575V only

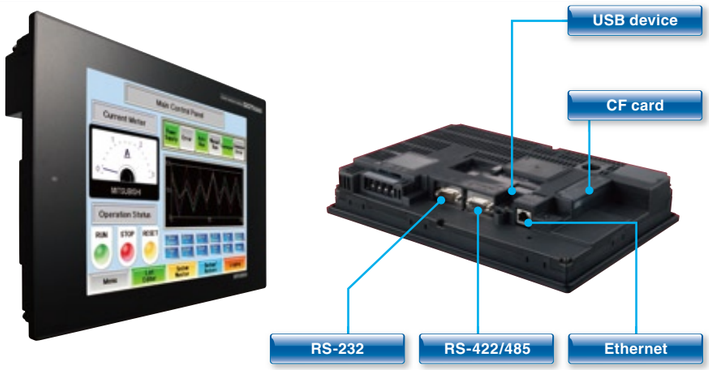
Options
Multimedia unit | Video/RGB unit | Printer unit | CF card (extension) unit | Audio output unit | External I/O unit



GT12

Large basic models with integrated features and communication interfaces

- **User memory capacity: 6MB**
- **USB device port is included.**
- **Ethernet, RS-422/485, and RS-232 interfaces are supported as standard interfaces.**
- **Featuring an analog touch panel**



GT11

Small models with a host of advanced functions

- **User memory capacity: 3MB**
- **USB device port is included.**
- **The RS-232 interface is supported as a standard interface.**
- **Choose between two standard interface models for network connection: the RS-422/485 interface model or the bus interface model.**

✻ See page 25 for GT11 Handy.



GT10

✻ : For details about the functions of GT10 models, see "GT10 (pages 48, 49)".

Compact models with basic functions

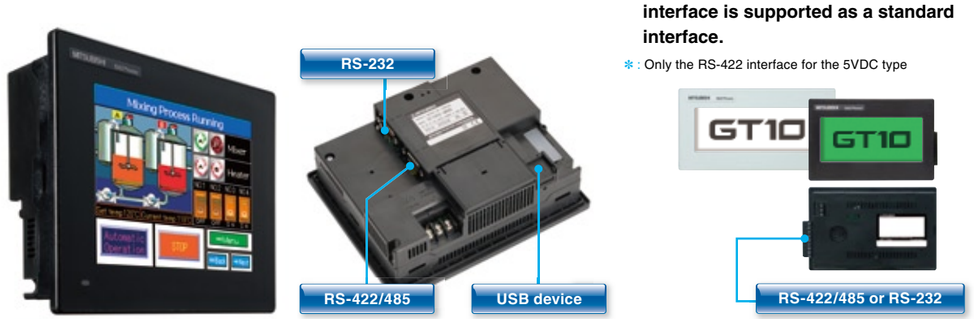
GT1050/GT1040

- **User memory capacity: 3MB**
- **USB device port is included.**
- **RS-422/485 and RS-232 interfaces are supported as standard interfaces.**

GT1030/GT1020

- **User memory capacity: 1.5MB (GT1030)/ 512KB (GT1020)**
- **Three-color LED backlight indicates the equipment status at a glance.**
- **The RS-422/485✻ interface or the RS-232 interface is supported as a standard interface.**

✻ : Only the RS-422 interface for the 5VDC type



See “Specifications” (page 52) for details of each hardware model.

Rich functionality and high performance in the palm of your hand

GT16 Handy GOT

- 65,536 vivid colors on a big VGA screen
- The light body includes the latest GT16 functions
- Extremely easy handling and operation in one hand
- Standard Ethernet interface enables long-distance communication

- User memory capacity: 15MB
- USB host and USB device ports are included.
- Ethernet, RS-422/485, and RS-232 interfaces are supported as standard interfaces.
- The latest GT16 functions are available, including various types of monitoring and ladder editing functions.

6.5" High resolution handy GOT
GT1665HS-VTBD



Ergonomic design allows you to change the angle of the handle.

Various types of switches are available

- Operation switches with LEDs (6)
- Emergency stop switch
- Selector switch with key
- Three-position deadman switch



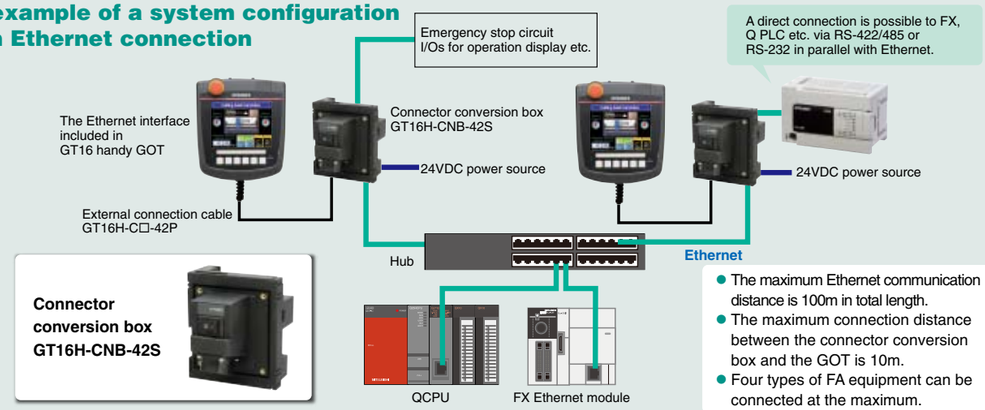
Various types of external connection interfaces are available as standard interfaces

- USB host and USB device
- CF card interface
- RS-422/485 and RS-232 interfaces (switchable)
- Ethernet interface

Options

- Emergency stop switch guard cover
- External connection cable

An example of a system configuration with Ethernet connection



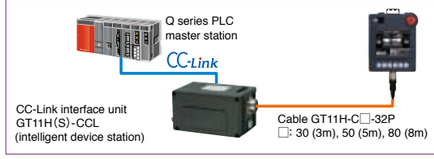
- The maximum Ethernet communication distance is 100m in total length.
- The maximum connection distance between the connector conversion box and the GOT is 10m.
- Four types of FA equipment can be connected at the maximum.

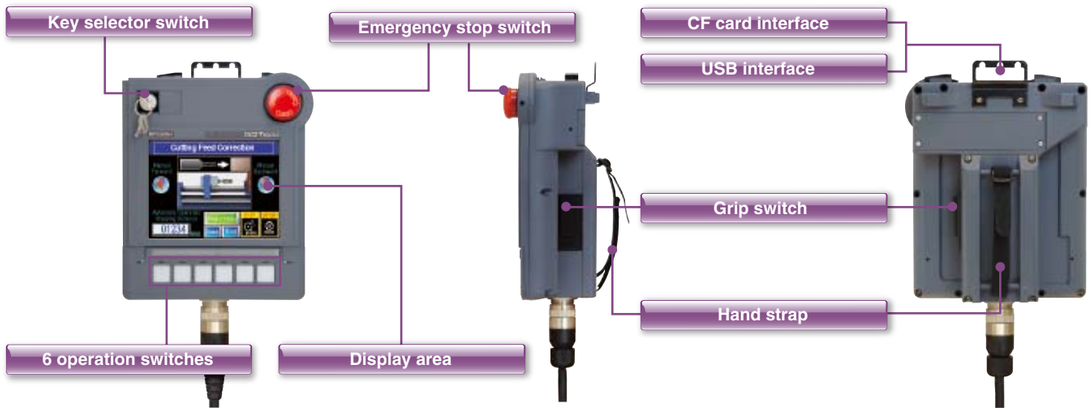
GT11 Handy GOT

Portable 5.7" operation terminal

GT1155HS-QSBD
GT1150HS-QLBD

GT11 Handy can be connected to the CC-Link network.





Use a personal computer or panel computer as a GOT.

HMI software for the GOT1000 series

GT SoftGOT1000 Version3

GT SoftGOT1000

**GT SoftGOT1000 is the HMI software that provides GOT functions on personal computers and panel computers.
This software connects with various types of equipment such as Mitsubishi PLCs and let you see screens just like the GOT1000 series.
You can also reuse GOT's project data without modification.
Along with all the advantages of a GOT, you can also enjoy the convenience and flexibility of personal computers and panel computers.**



USB port license key

GT SoftGOT1000 Version3 is software included with the GT Works3 suite.
A separate license key is required for use.

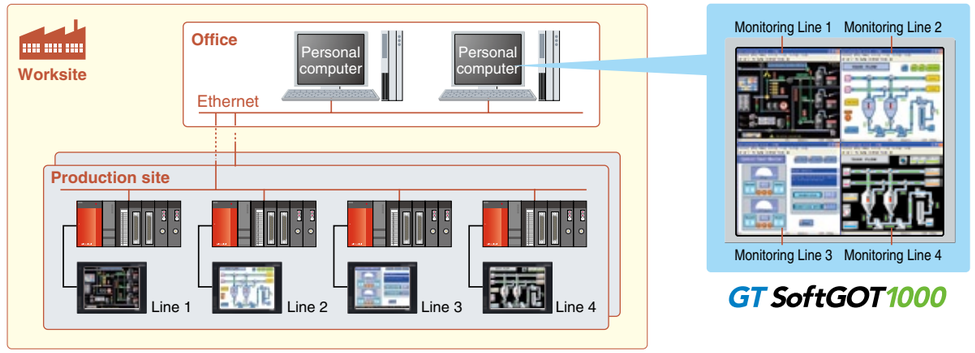
Monitor the production site from a remote location

Reduce downtime

Use GT SoftGOT1000 to monitor the production site from your office. You can collect information quickly when a problem occurs, taking necessary actions immediately.

Use GOT project data from the production site

You can reuse project data of the GOT at your production site as the project data of GT SoftGOT1000 to reduce the design cost.



Connect with MELSEC process control for process control applications

You can connect GT SoftGOT1000 to the monitor tools of the Engineering Environment PX Developer for design and maintenance work for process control. In this way, a process control monitoring system can easily be constructed.

PX Developer window screens and other tools

Tools for monitoring, operating, and tuning loop control tags. (The display position can be specified.)

GT SoftGOT1000 touch switch/object

Clicking on touch switches and objects displays various screens of PX Developer monitoring tools. (The display position can be specified.)

Security collaboration NEW

The GT SoftGOT1000 security level is changed accordingly when the PX Developer monitor tool's mode is changed (engineer mode/operate mode/lock mode). Authority can be set for operations requiring security.



PX Developer monitoring tool bar

Clicking on buttons executes various operations such as starting up GT SoftGOT1000 and switching base screens.

GT SoftGOT1000 base screen

Make your desktop into a graphic monitoring window by displaying the GT SoftGOT1000 base screen in full-screen mode and sending the window to the back of the screen.

Link with other applications to construct a high-performance system

You can use a user-created application to read and write information to and from internal devices of GT SoftGOT1000. By linking data with user applications such as a data logger, you can construct a high-performance system package. You can also use a touch switch on the GT SoftGOT1000 monitor to launch another application.

<Development environment of user applications>

- Microsoft® Visual C++®/Visual C#® NEW /Visual Basic® included with Microsoft® Visual Studio 6.0/.NET (2002) NEW /.NET 2003/2005 NEW /2008 NEW
- Embarcadero® C++Builder® XE NEW

Connect to various devices

The GT SoftGOT1000 can be connected to the Mitsubishi PLC, other PLC brands, MODBUS®/TCP slave devices. NEW

* : See "List of connectable models" (page 69), for more details on supported models of other manufactures.

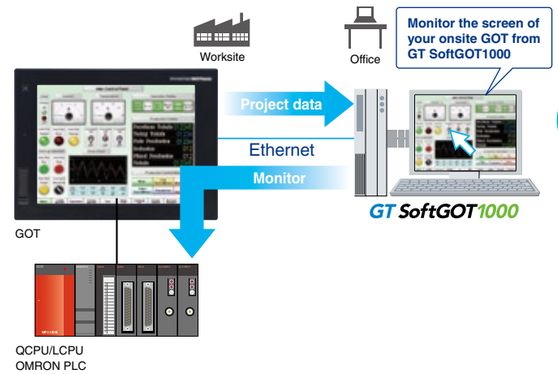
Connect to RFID or barcode reader and input numerical values or ASCII characters. NEW

The SoftGOT-GOT link function enhances the linkage to your onsite GOT NEW

Monitor the screen of your onsite GOT from GT SoftGOT1000

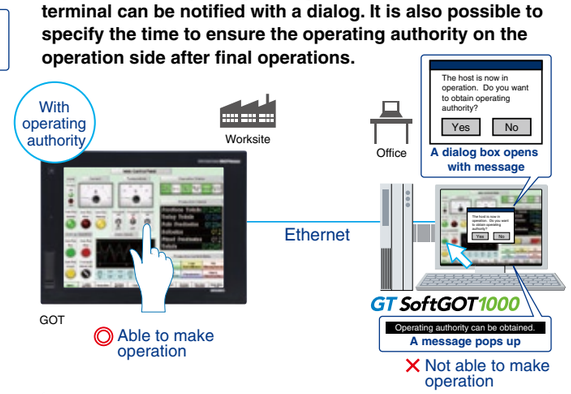
Connect GT SoftGOT1000 with GOT by an Ethernet connection. Use the GOT's project data with GT SoftGOT1000 to monitor connected equipment.*

* : Only CH1 can be monitored when GOT is connected via multi-channels. GOT and QCPU/LCPU can be connected by a bus connection, direct CPU connection, computer link connection, or Ethernet connection. GOT and OMRON PLC can be connected via Ethernet connection.



Prevent simultaneous operations from GT SoftGOT1000 and GOT

Operation of an input object (e.g. touch switch, numerical input) is allowed by either GT SoftGOT1000 or the GOT, whichever has operating authority. If one terminal does not have operating authority, the status of the operating authority can be displayed in a pop-up window. Whether it is possible to acquire operating authority from the other terminal can be notified with a dialog. It is also possible to specify the time to ensure the operating authority on the operation side after final operations.

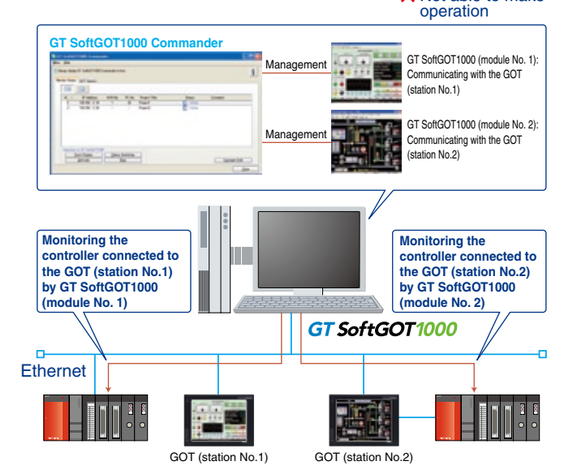


GT SoftGOT1000 Commander

By using the GT SoftGOT1000 Commander, multiple GT SoftGOT1000 modules using the SoftGOT-GOT link function can be efficiently managed, and the SoftGOT-GOT link function can be utilized easily.

<Actions possible with GT SoftGOT1000 Commander>

- Search for GOT on the Ethernet network and start with GT SoftGOT1000 (GT16 only)
- Start/stop GT SoftGOT1000
- Check and switch GT SoftGOT1000 monitor status (online/offline)
- Designate GT SoftGOT1000 module No. displayed on top screen



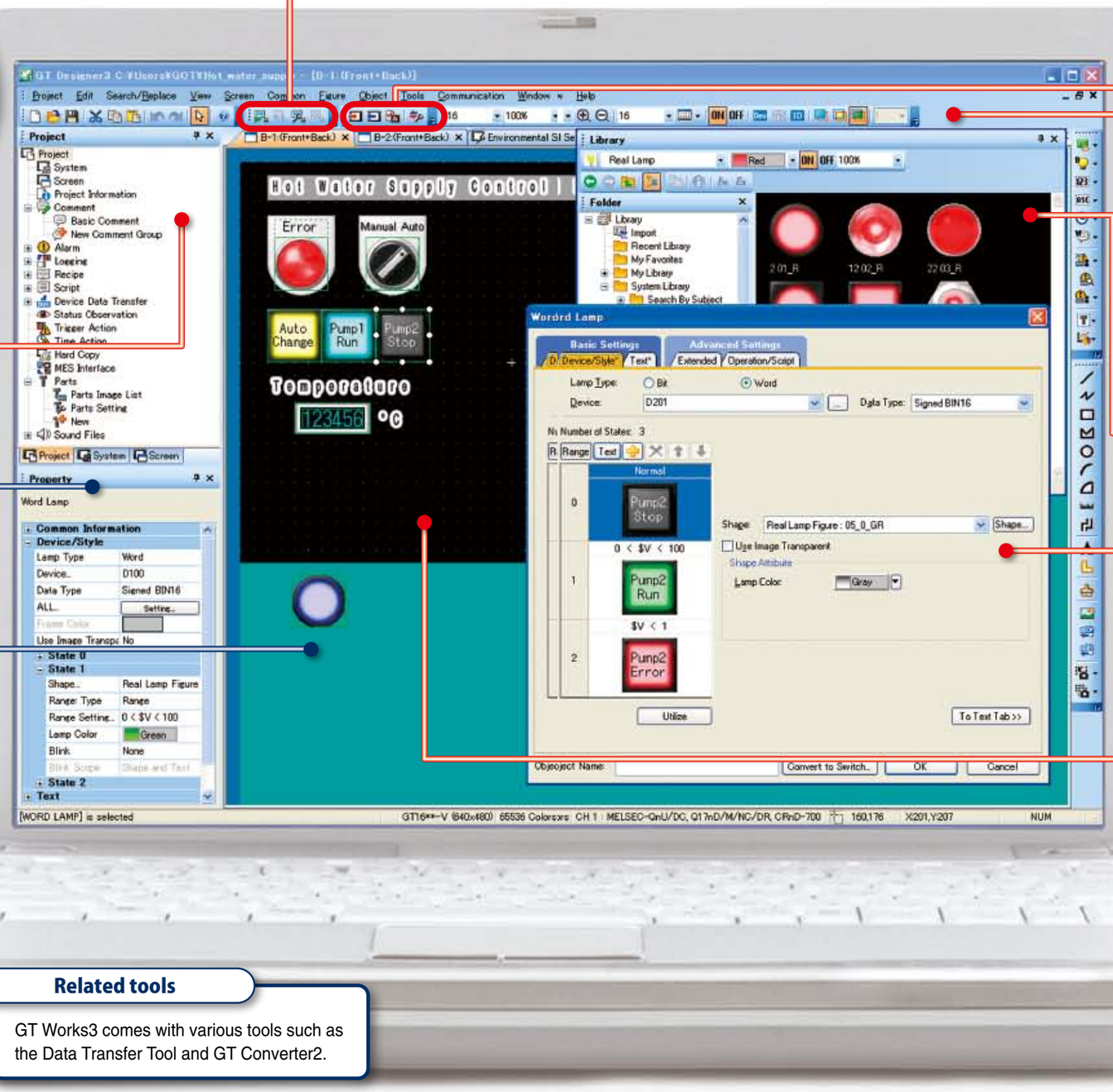
See "List of connectable models" (page 69), "Function list" (page 70), and "Notes for use (Operating environment)" (page 85).

More intuitive. No more wasted time. The screen design software optimized for usability.

GOT1000 Screen Design Software

MELSOFT GT Works3

Enhanced "easy-to-use" functions for efficient screen design!



Work tree

View the whole project, create a new screen, and add and delete screens with ease.

Property sheet

A selected object or graphic's settings are displayed as a tree view. Set colors, devices, etc., on the property sheet without opening a dialog box. When selecting multiple objects or graphics, change color, character size, etc., all at the same time.

Temporary area

Reduce workspace clutter by moving objects off of the display area.

Simulator

Preview operation without connecting to a GOT.

Communication with the GOT

Communication settings and drivers are automatically selected and downloaded to the GOT with the project data.

Tool bar

Vividly colored icons make distinguishing active functions from inactive ones easy.

Library

Parts are easy to select. High resolution graphics and parts are easy create and incorporate into projects.

Dialog box

User-friendly dialog boxes and object settings.

Editor <screen design area>

Many convenient and efficient development functions are included!

New functions improve your screen design efficiency than ever before!

- "Templates" reduce time for screen design
- "Screen Preview" enables simple simulation
- "Device Name Display" helps you check setting contents quickly

The Help function is available for quick reference!

MELSOFT iQ Works improves design efficiency

Batch parameter check and system labels of MELSOFT Navigator are supported.

Related tools

GT Works3 comes with various tools such as the Data Transfer Tool and GT Converter2.

The GOT1000 series provides a variety of functions to satisfy user requirements

Usability depends on who the users are and where they carry out their tasks.
Designers want to use the most advanced HMI technology, while maintenance engineers want the most dependable HMI for their facilities.
To satisfy all of our customers, we are constantly developing more and more functions for the GOT1000 series.

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For Initial Startup & Adjustment Operators P38
For Maintenance Personnel P40
GT10 P48
iQ Platform P50
MELSEC Process Control P51
Specifications P52
External Dimensions P61
List of Connectable Models P65
Function List P70
Product List P74
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There are many different applications to be solved. How do we stay flexible?

For designers

Multimedia function P32
Video/RGB function P32
Document display function P33
Multi-channel function P33
SoftGOT-GOT link function P34
USB mouse/keyboard connection P34
Remote personal computer operation function (Ethernet) P34
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Advanced recipe function P37
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Various types of window screens P37

Efficiency requires both fast data transfer as well as user-friendly functions.

For initial startup & operations

Drawing, computing, communication; a trio of high-speed response functions P38
Backlight brightness adjustment P38
Color-coded front face LED P38
Maintenance time notification function P38
Equipped with front USB interface P39
FA transparent function P39

To restore a system as quickly as possible, response capabilities for "just in case" situations are the key to selecting a HMI display.

For maintenance personnel

Logging function/ historical trend graph/ historical data list display P40
Log viewer function P40
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Servo amplifier monitor function P47
CNC monitor function/ CNC data I/O function P47
List editor for A/List editor for FX P47

GT16 GT15 GT12 The functions bearing these marks are available on the GT16, GT15, or GT12 model. All other functions are supported by GT16, GT15, GT12, and GT11 models.

*: For details about the functions of GT10 models, see "GT10 (pages 48, 49)".

Freedom to utilize advanced display functions to enhance the GOT

For designers

Smooth, high-quality motion images help efficiently investigate the cause of a problem

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 Multimedia function

Recording audio and video, displaying input images

Clear view before and after the trouble occurrence <Recording pre/post event motion images>

- Capable of recording motion images for 120 seconds before and after an error occurrence (when the event trigger device turned on), up to 240 seconds in total.



High resolution recorded image (standard mode)

- Smooth, high resolution video can be recorded.
- Video size and frame rate
  - Maximum 15 fps in VGA (640 × 480)
  - Maximum 30 fps in QVGA (320 × 240)

For additional recording time (extended mode)

- Over two days of video can be recorded.
- Video size QVGA (320 × 240); frame rate 15 fps

Displaying input images

- In addition to the dedicated screen, images input from a video camera can be displayed on a user-created screen. Normally, input images are displayed on the user-created screen, and the dedicated multi-media screen is opened only when an error occurs or when playing back recorded images for confirmation. NEW

Playing back motion image files

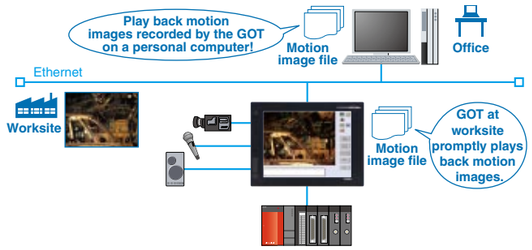
Check the motion image before and after the occurrence of a problem, and diagnose the cause immediately.

- The motion image recorded on site is saved in the CF card of the GOT's multimedia unit and can be played back immediately after being recorded.
- The motion image files saved in the CF card can be sent to your personal computer over the Ethernet interface of the GOT's multimedia unit. You can then view the motion image on your personal computer.
- Fast forward and slow motion playback functions are also available.

Use as a video guidebook for work tasks

- The GOT plays back motion image files that are created by your personal computer. Since the GOT is compatible with standard formats, commercially available software can be used to create motion image files.

<Applicable software programs> • Quick Time 7 Pro
<Compatible file formats> • 3GP and MP4



The dedicated multimedia screen is available for recording and playback. Reduce your screen design time!

✻ : Not supported by GT16□□-VNB□, GT1655, GT16 Handy.
✻ : The multimedia data link tool and multimedia data link FTP services are necessary to transmit motion image files to a personal computer.
✻ : Only one of the following devices can be used at one time: multimedia unit, video input unit, RGB input unit, video/RGB input unit or RGB input unit.

The multimedia data link tool and multimedia data link FTP service are multimedia-dedicated software programs included with GT Works3.

An optional device may be necessary.
For details, see "Selection of optional units and devices" (page 81).

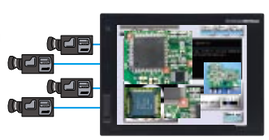
High-quality images with 65,536 colors provide precise detail

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 Video/RGB function

Enhanced compatibility with cameras and inspection devices <Video input>

- Input images from up to four video cameras and inspection devices are simultaneously and cleanly displayed in four windows in 65,536 colors. Images can be saved in JPEG format.



Displays PC images on the GOT <RGB input>

- Images on a personal computer display screen appear on the GOT simultaneously with the GOT's screen. RGB input of up to 2 channels is available when using the GT16M-R2.
- The display size can be changed, and the clip display is available. NEW

Display the GOT screen on a display <RGB output>

- Connect to a commercial display so that the GOT screen can be displayed larger.

✻ : Not supported by GT16□□-VNB□, GT1655, GT16 Handy.
✻ : Only one of the following devices can be used on the GT16 at one time; video input unit, RGB input unit, video/RGB input unit, RGB output unit, or multimedia unit.
✻ : Only the GT1585V and GT1575V for the GT15 series. Only one of the following devices can be used at one time; video input unit, RGB input unit, video/RGB input unit, or RGB output unit.

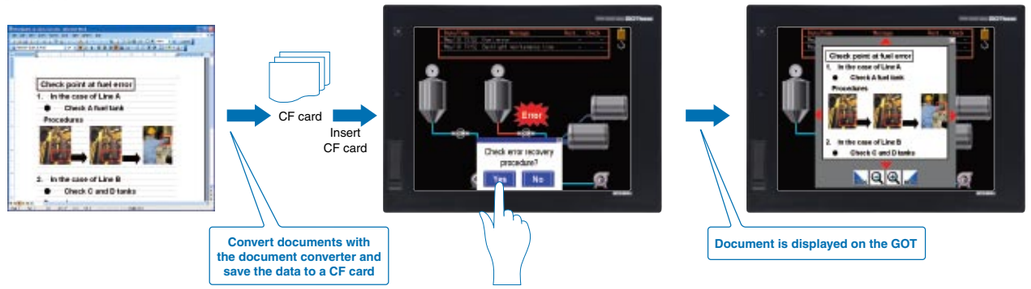
An optional device may be necessary. For details, see "Selection of optional units and devices" (page 81).

Display various documents on the GOT at the worksite

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 Document display function

- When a system error occurs, referring to recovery methods in check lists and/or manuals on the GOT can reduce downtime.
- Pages can be changed, scrolled through, enlarged or reduced, and multi-page documents can be displayed.
- The document converter that comes with GT Works3 is used to format documents to be displayed and save them to CF cards as JPEG files.
  • Supported file formats : doc, xls, ppt, pdf, jpg, bmp



Display of documents and manuals on the GOT can reduce downtime.

An optional device may be necessary.
For details, see "Selection of optional units and devices" (page 81).

Central storage of FA device information on a single GOT terminal

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 GT12 Multi-channel function

- Up to four FA device (PLC, servo, inverter, temperature controller, etc.) channels can be monitored with one GOT unit. (GT12 monitors up to two channels.)
- Easy device transfer between connected devices. Use GT Works3 to specify triggers for source and destination devices for device transfer.
  (Device data transfer function)

The GOT1000 Series connects with PLCs, microcomputers, and other various devices. More models from more manufactures will be supported in the future.

- Sample screen data for connecting to temperature controllers, servo amplifiers, or inverters is available to make it easy to create your own screen data.
- The QnA compatible 3E frame is now supported with the microcomputer connection (Ethernet).

See "List of connectable models" (page 65), for more details on supported models of other manufactures.

For various types of peripherals.

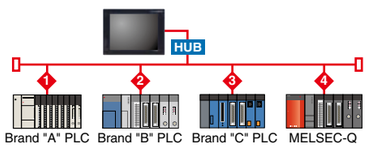
• General-purpose MODBUS® devices • External devices (operation panels, switches, lamps, etc.)
• Two-dimensional code readers, barcode readers • RFID readers, IC card readers • Speakers • Video cameras
• Displays (RGB output) • PCs (RGB input) • Serial printers • PictBridge printers • Vision sensors✻

✻ : For details, see CASE STUDY 2 FA Solutions (page 18).

Typical applications

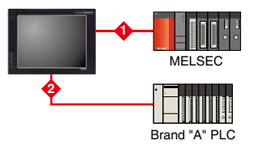
The GT16 enables multi-channel connection without a communication unit!

Third party PLCs via Ethernet (GT16)



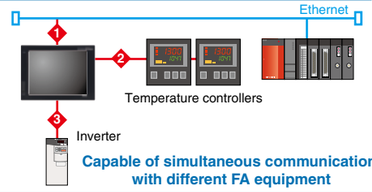
Use of the main body Ethernet I/F enables connection via Ethernet with up to 4 different types of PLCs

Third party PLCs



Easy data exchange between PLCs

PLC + Temperature controller + Inverter



Capable of simultaneous communication with different FA equipment

✻ : For the Ethernet connection with GT1695 and GT1685 of function version A, if connected to equipment compatible with 10BASE-T, use a switching hub for its operation in a network environment where both 10Mbps and 100Mbps systems are operable.
✻ : The number of channels and functions, which can be used with the multi-channel function vary depending on the connection configuration. For more details, see "Notes for use" (page 81).

An optional device may be necessary. For details, see "Selection of optional units and devices" (page 81).

Transfer real-time production data to host systems

Monitor the screen of the onsite GOT from your PC screen

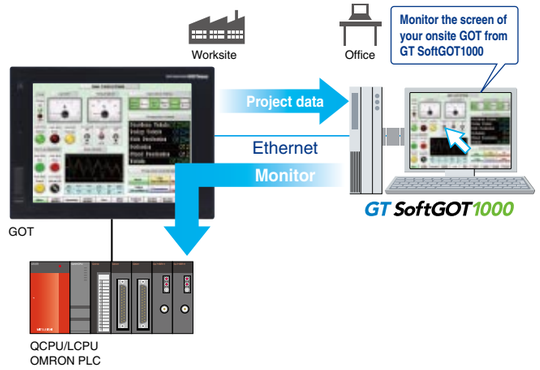
GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 SoftGOT-GOT link function NEW

- Connect GT SoftGOT1000 with the GOT with an Ethernet connection. Use the GOT's project data with GT SoftGOT1000 to monitor connected equipment.*
- Operation of an input object (e.g. touch switch, numerical input) is allowed by either the GT SoftGOT1000 or GOT, depending on which has operating authority.
- By using the GT SoftGOT1000 Commander, multiple GT SoftGOT1000 modules using the SoftGOT-GOT link function can be efficiently managed, and the SoftGOT-GOT link function can be utilized easily.

*: Only CH1 can be monitored when GOT is connected via multi-channels. GOT and QCPU/LCPU can be connected by a bus connection, direct CPU connection, computer link connection, or Ethernet connection. GOT and OMRON PLC can be connected via Ethernet connection.

See "GT SoftGOT1000" (page 27), for more details.

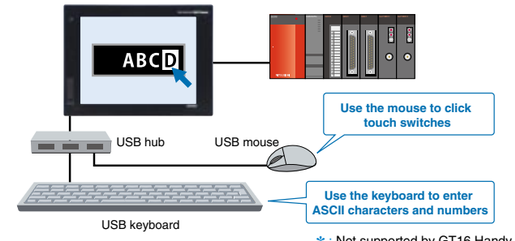


Connect your mouse/keyboard to the front USB interface

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 USB mouse/keyboard connection NEW

- In a user-created screen, you can use your mouse to click touch switches and your keyboard to enter ASCII characters and numbers.



*: Not supported by GT16 Handy

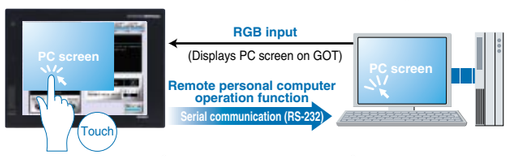
This is convenient when you need to operate small switches or enter many characters.

Operate a personal computer from the GOT touch screen

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 Remote personal computer operation function (Serial)

- When using RGB input, operate a personal computer screen displayed on the GOT by touch operation (e.g. store information such as touched coordinates in GOT internal devices, transmit the data to a personal computer).



Compatible Windows OS: Windows® XP Professional SP2/SP3, Windows® XP Home Edition SP2/SP3, Windows® 2000 Professional SP4

*: Not supported by GT16□□-VNB□, GT1655, GT16 Handy
*: Supported only on the GT1585V and GT1575V models in the GT15 series.

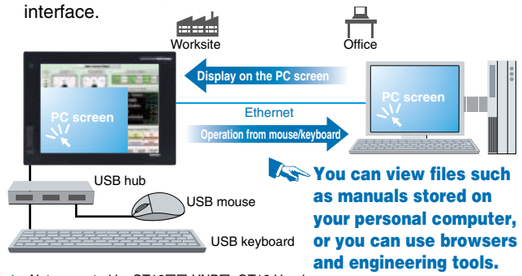
An optional device may be necessary.
For details, see "Selection of optional units and devices" (page 81).

Operate a remote PC from an onsite GOT

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 Remote personal computer operation function (Ethernet) NEW

- A personal computer at a remote location can be operated from an onsite GOT when they are connected via Ethernet.
- A USB mouse/keyboard can be connected to the front USB interface.



You can view files such as manuals stored on your personal computer, or you can use browsers and engineering tools.

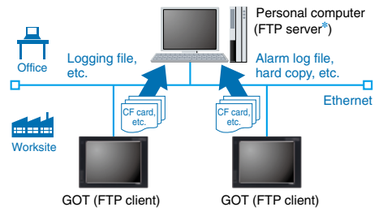
*: Not supported by GT16□□-VNB□, GT16 Handy
*: The license key (GT16-PCRAKEY) is necessary.

Send files from GOT to personal computer

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 File transfer function (FTP client) NEW

- With a few simple settings, files (alarm log files, hard copies, etc.) of resource data stored in the GOT's CF card and USB memory* can be sent from the GOT to a personal computer.



*: USB memory is supported only with GT16.
*: The Microsoft IIS (Internet Information Service) FTP server is supported.

Convenient for using GOT resource data on a personal computer.

Be alerted about worksite errors and collect device data from the office

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 GT12 Gateway function*1

*1 : GT12 supports only the FTP server function.

The gateway function remotely monitors the worksite and supports remote maintenance from the office.

1 Collect data on a personal computer (server function)

- A GOT (server) can be monitored from the host personal computer (MX Component) to perform indirect reading/writing of connected devices being monitored by the GOT.
- Even when third party devices are connected, MX Component can read and write the devices through the GOT using the server function.

*: The collected data can be displayed and analyzed by Excel without using any programs other than MX Sheet. Programming with Visual C++ and Visual Basic enables applications to be flexibly designed and built. See the MELSOFT catalog (L (NA) 08008) for more details.

2 Monitor other GOTs from a GOT (client function)

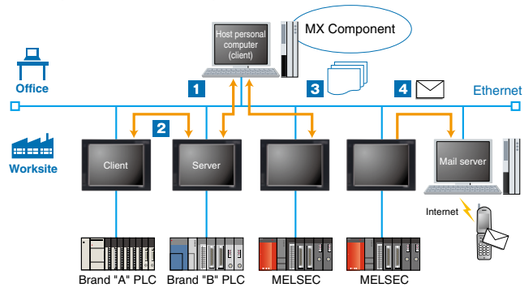
- A GOT (client) indirectly reads/writes device values of equipment monitored by another GOT (server).
- The client function can also be used to indirectly read/write device values of PLC CPUs other than the one to which the GOT (client) is connected.

3 Direct check/edit of data in the CF card (FTP server function)

- Files in the CF card within the GOT (e.g. alarms, recipes, and hard copies) can be directly read and written from a personal computer.

4 Mail send function

- The alarm history display function can transmit alarm occurrences and recovery information by e-mail to personal computers and mobile phones.



An optional device may be necessary.
For details, see "Selection of optional units and devices" (page 81).

Database linkage support enhances productivity at your worksite

GRAPHIC OPERATION TERMINAL GOT 1000

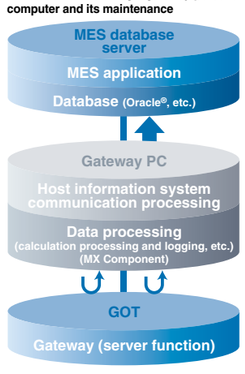
GT16 GT15 MES interface function

The GOT transmits data from connected FA devices to the server personal computer database via SQL statements.

- For communication with the database, just specify the necessary data in GT Works3 without programming. There is no need to use a gateway personal computer and complicated programs to communicate with the MES database server.

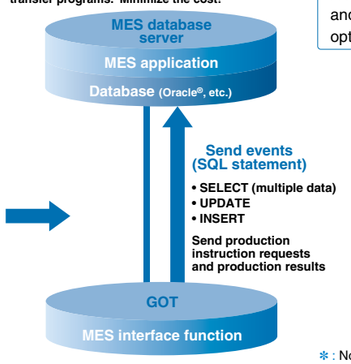
Before

More cost for installing a gateway personal computer and its maintenance



When MES interface function is used

No need for gateway personal computer or database transfer programs. Minimize the cost!



MES interface function

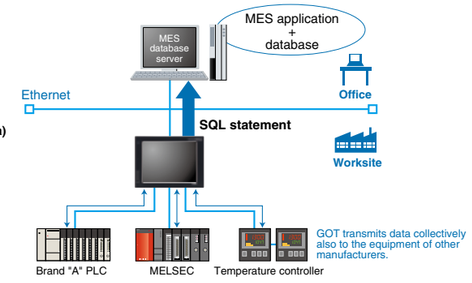
- DB link function (tag function / trigger buffering function / trigger monitor function / SQL statement transmission function <SELECT / SELECT multiple data / UPDATE / INSERT> / calculation processing function / program execution function / DB buffering function)
- SNTP time synchronization function
- Resource data transmission function • Diagnosis function
- DB server function (ODBC connection function / connection setting function / log output function)

Usable databases

- Oracle® 8i/9i/10g/11g • Microsoft® Access 2000/2003/2007
- Microsoft® SQL Server 2000/2005/2008
- Microsoft® SQL Server 2000 Desktop Engine (MSDE2000)
- Wonderware® Historian 9.0

*: Compatible only with 32-bit versions.

<MES (Manufacturing Execution System)>
A manufacturing execution system (MES) is a system which controls and manages production processes at a worksite in order to optimize quality, productivity, delivery date, and cost.



*: Not supported by the GT16 Handy.

e-F@ctory®

Mitsubishi Electric e-F@ctory presents the appropriate products to connect production information and MES (manufacturing execution system) to improve productivity of clients' plants.

An optional device may be necessary. For details, see "Selection of optional units and devices" (page 81).

Advanced functions to increase screen efficiency

Efficient input of extensive comment data

GRAPHIC OPERATION TERMINAL GOT 1000

Comment groups

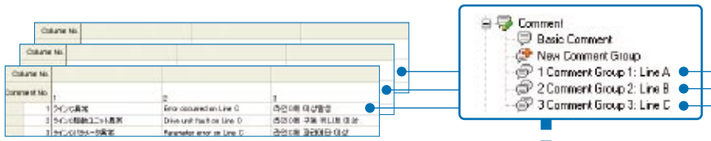
- CSV/Unicode text format files can be imported. Multiple files can also be imported to individual comment groups, allowing the task of inputting comments to be distributed among several workers, greatly reducing the required input time.

Management of project data line by line is no longer required.

Example of comment group use

❶Line-specific comment groups are created.





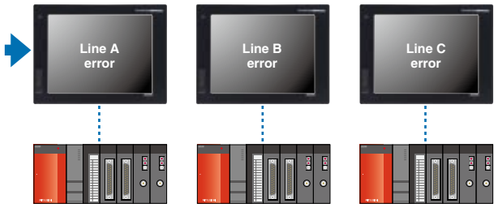
❷Import

- Automatically adjusts character size and inserts line feeds according to the object size.

<Supported objects>
- Touch switches or lamps where "comment group" is selected for labels
- Comment displays where "comment group" is used

❸Displayed comment group can be switched by a device.

When "1" is selected / When "2" is selected / When "3" is selected





When switching languages, character string length is automatically adjusted to fit within the object.

Easy creation of multilingual screens

GRAPHIC OPERATION TERMINAL GOT 1000

Multilingual support

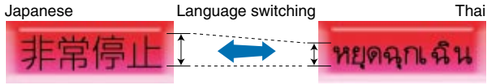
- By using comment groups, different language comments can be created for each comment group column to switch the display language.
- Comment group comments can be created freely for applications, as well as for different languages.
- You can specify the column number of the comment group to change the language of the startup message on the GOT.

✻ : Refer to "Comment groups (page 36) " for the details of comment groups.

- The system alarm and utility screen display languages can be changed in conjunction with the language selection function.

Convenient for language switching

When stroke fonts are used with switching languages for touch switches, lamps or comment displays, the character size is automatically adjusted by the size of the object. There is no need to adjust the size of the object when creating a multi-language screen.



The character size is automatically adjusted.

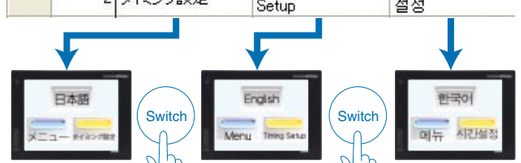
✻ : Stroke fonts and Thai characters on GT16 and GT15 only.

Users can quickly change the language display.

Example of switching between Japanese, English, and Korean screens

❶Use comment groups to create Japanese, English and Korean comments in their respective columns.

Column No.			
Comment No.	1	2	3
1	メニュー	Menu	메뉴
2	タイミング設定	Timing Setup	시간 설정



If D10=1, Japanese is displayed
If D10=2, English is displayed
If D10=3, Korean is displayed

Using D10 as the language switching device

❷Set the column number to be displayed in the language switching device.

❸The displayed comment (language) changes.

Available for touch switches, lamps, comment displays, the historical data list display NEW, the alarm history function, the user alarm function NEW, and the advanced alarm function.

Easily create complex recipe data

GRAPHIC OPERATION TERMINAL GOT 1000

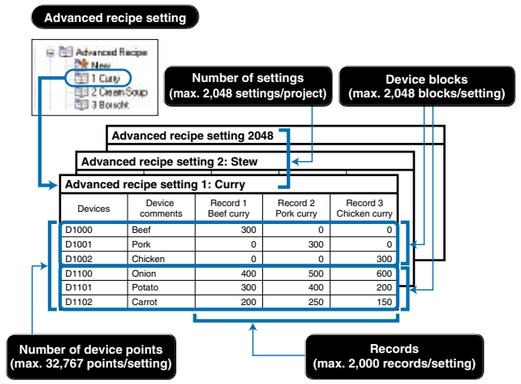
GT16 GT15 Advanced recipe function

This function allows material combination data and processing conditions data (device values) to be held in the GOT, with only required data being written to and read from the PLC.

An extensive number of settings and flexible recipe data can be created

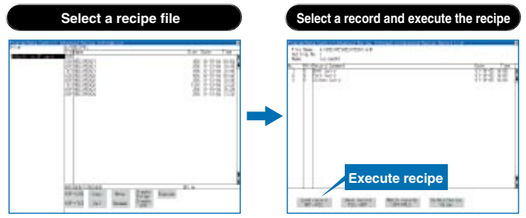
- Up to 2,048 blocks can be used, each block is comprised of sequential word devices, an arbitrary word device (1 point), and a bit device (1 point).
- Because devices also permit bit and word combinations and arbitrary device settings, there is no need to centralize the sequential devices used, thereby reducing the total number of device points used.
- Advanced recipe files can be converted into CSV or Unicode format text files, and can be edited on a personal computer. ✻

✻ : The advanced recipe file has a binary format. It must therefore be converted to either a CSV file or a Unicode text file by using GT Works3, the GOT utility, or an external control trigger device. After being converted, only the device values can be edited. When more than 251 records are included in an exported Advanced Recipe file (CSV or Unicode text format), use a text editor or Microsoft Excel 2007 or later to open the file.



Easy handling of recipe data using the GOT

- Recipes can be handled easily with the GOT's utility function without having to create a recipe operation screen.
- CSV/Unicode text files can be converted into binary format files on the GOT. Even without GT Works3, you can edit data on a personal computer and use it on the GOT. NEW



Advanced recipe information screen

Advanced recipe record list screen

For better work efficiency and enhanced customization functions

GRAPHIC OPERATION TERMINAL GOT 1000

Script function

Project script/screen script

- Control statements, file operation functions, string operation functions, etc. can be specified to a project or to individual screens.

Object script (For GT16 and GT15 only)

- Drawing functions and display control functions can be specified per object. Object functions can be expanded, for example, to change colors and display positions and to freely draw graphics.

Controlling the GOT display with scripts can reduce load on the controller and enhance maintenance performance. The editor includes input support that makes it easy for you to write scripts.

Extreme freedom in designing that enables you to create more effective screens

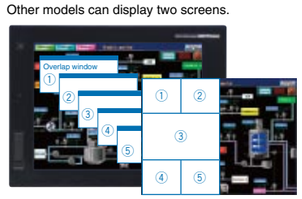
GRAPHIC OPERATION TERMINAL GOT 1000

Various types of window screens

- Use overlap windows and dialog windows to create various types of screens.

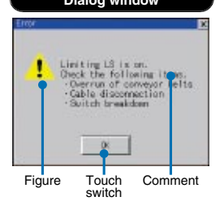
Overlap window

GT16 Model can display five screens. Other models can display two screens.



(Example) Hide the title bars to view the screens as divided windows (GT16)

Dialog window



(Example) Display a window to confirm the user's operation

Key window

There is no need to create keypads for numerical input and key windows for ASCII input. When entering ASCII characters, you can switch windows to display character selection windows.

Standard functions to provide users with straightforward operation

For initial startup & operations

Dramatically improved GOT overall response

GRAPHIC OPERATION TERMINAL GOT 1000

Drawing, computing, communication– a trio of high-speed response functions

The GOT1000 series offers faster response in drawing, computing and communication, reducing monitoring and operation load.

High-speed drawing

- Sharp and quick drawing of complex, layered component screens, and detailed photographic data in 65,536 colors.
- The GT16 further speeds up drawing operations.

High-speed computing

- Ultra-high performance processing power to satisfy the most complex and demanding of applications.

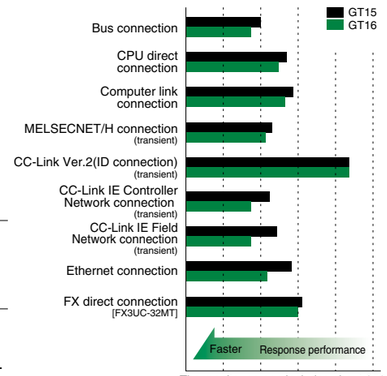
High-speed communication

- High-speed communication is possible for connections with both Mitsubishi and third party PLCs.

For connectable PLC models, see "List of connectable models" (page 65).

GT16/GT15 response performance comparison

[Using MELSEC Q series] As of March 2011



The monitor screen includes about 250 points of word devices.

Adjust brightness according to surroundings

GRAPHIC OPERATION TERMINAL GOT 1000

Backlight brightness adjustment NEW

- Consider the conditions in the operation environment (daytime/nighttime etc.) and user comfort. You can adjust the brightness of the backlight while viewing the user screen.
- By using the script function or the status monitor function, you can automatically adjust the brightness according to conditions.



The touch switches for brightness adjustment are registered in the system library.

Easy-to recognize backlight state

GRAPHIC OPERATION TERMINAL GOT 1000

Color-coded front face LED

- The color of the LED on the front of the GOT unit indicates whether the backlight is OFF or has expired.

[Power LED: Color-coded message]

Green ON	When normal power is being applied	**Orange/green blinking**	When backlight life has expired
Orange ON	When in screen-save mode	**OFF**	When power is not being supplied

For planned commodity maintenance

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 Maintenance time notification function

- The cumulative backlight ON time is automatically monitored, and the operator is notified when maintenance is required. This facilitates scheduled maintenance and prevents system malfunctions.

<Subject to be monitored> Backlight, display area, touch keys, and built-in flash memory

Warning! Backlight needs replacement soon.



An optional device may be necessary. For details, see "Selection of optional units and devices" (page 81).

To minimize production time, the GOT provides the user with worksite-required functions

For initial startup & operations

Easy data transmission without opening the cabinet

GRAPHIC OPERATION TERMINAL GOT 1000

Equipped with front USB interface*1

*1 : Back face layout for GT12.

USB device (Mini-B)

- Connect the USB device (Mini-B) port to a personal computer. You do not need to open the panel to transfer operating systems and project data or to use the FA transparent function.



* : To connect the GOT to a personal computer, use the dedicated USB cable. For more details, see "Product list" (page 74).



With USB environmental protection cover installed (standard feature) IP67f *

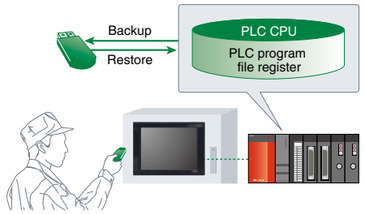
* : This does not guarantee protection in all users' environments.

USB host (Type A) (for GT16 only)

- Operating systems, project data, and resource data can be stored in a USB memory device.
- A USB mouse/keyboard can also be used by connecting to the USB host interface.



<Example of the use of a USB memory>



Sequence program and parameters can easily be modified at the worksite

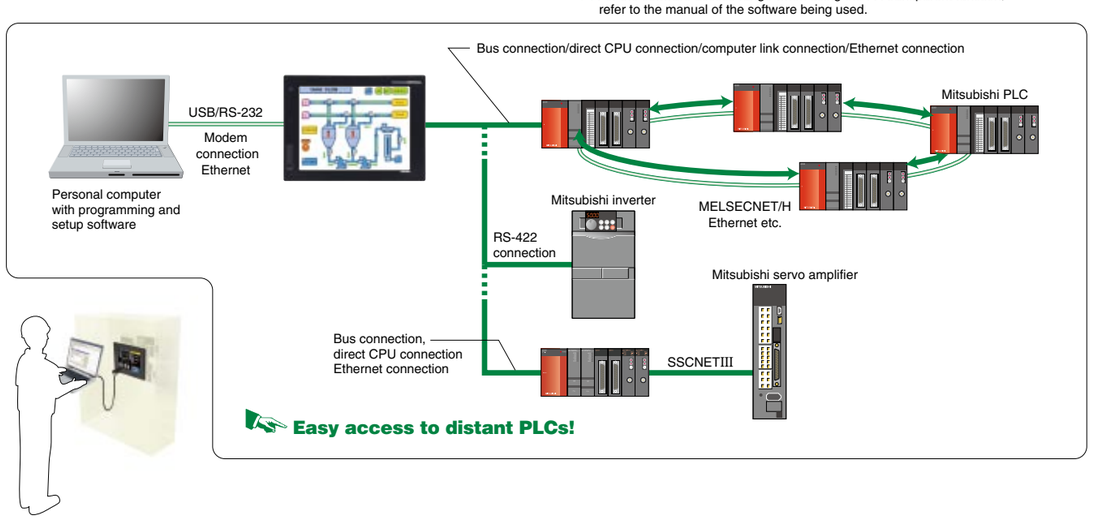
GRAPHIC OPERATION TERMINAL GOT 1000

FA transparent function

- Connected with a personal computer, the GOT acts as a transparent gateway to enable programming, start up, and adjustment of FA equipment.
- Users do not have to bother with opening the cabinet or changing cable connections. (When using the USB interface)
- The FA transparent function can be used when a GOT and a personal computer are connected via USB, RS-232 or even using an Ethernet connection.
(Supported only by GX Works2, MX Component/MX Sheet)

- Supported software*
  - MELSOFT Navigator
  - GX Works2
  - GX Developer
  - GX Configurator-AD/DA/SC/CT/TI/TC/AS/FL/PT/QP
  - PX Developer
  - FX Configurator-FP
  - FX3U-ENET-L Configuration Tool
  - MT Works2
  - MT Developer
  - MR Configurator
  - MR Configurator2
  - FR Configurator
  - RT ToolBox2
  - NC Configurator
  - MX Component/MX Sheet
  - GX LogViewer
  - LCPU Logging Configuration Tool

* : The version of the software depends on the system configuration. For more details, see the GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3.
* : For the software access range when using the FA transparent function, refer to the manual of the software being used.



Easy access to distant PLCs!

The GOT provides complete traceability for safe and secure operation

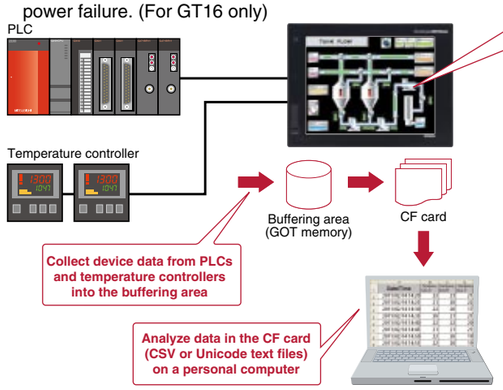
For maintenance personnel

Smooth operation from the collection of various data to storage of time-series data

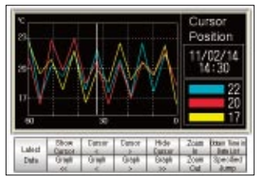
GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 GT12 Logging function/historical trend graph/ historical data list display NEW

- Collecting data from temperature controllers and other units with the GOT can reduce the load on the PLC.
- Logging data is saved in the built-in SRAM even during a power failure. (For GT16 only)

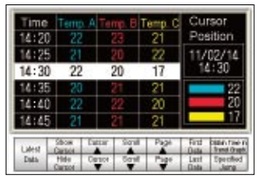


Display with graphs **Historical trend graph**



- After collecting data with the logging function, you can display the data in a time series.
- Scroll the view or specify the time so that you can check necessary data easily.

Display with values **Historical data list display**



- Data collected with the logging function is displayed in list format.
- The historical trend graph for a specific time can be displayed by designating the time.

Display logging data of a LCPU and high speed data logger module on the GOT

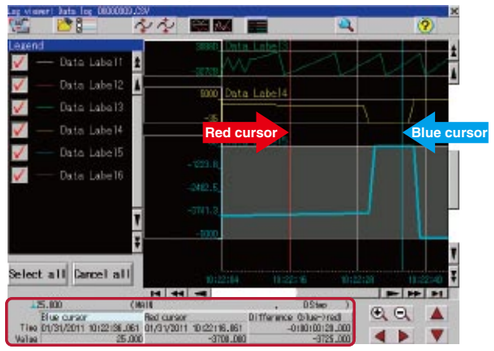
GRAPHIC OPERATION TERMINAL GOT 1000

GT16 Log viewer function NEW

Display logging data without a PC

- Logging data collected by a LCPU or high speed data logger module can be displayed on the GOT.

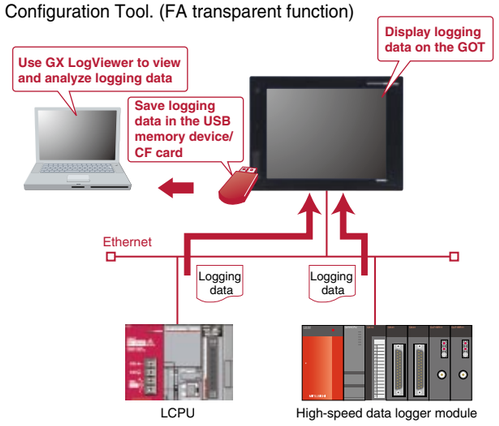
  <Data to be displayed> Data logging (historical display)
- By displaying two cursors (multi-cursor), changes in data can easily be checked.
- The collected logging data can be searched for by time or index No. and displayed.



You do not need to have a PC onsite. Check logging data from the GOT, and you can take corrective actions quickly.

Logging data can be collected without opening the cabinet

- In a USB memory device attached to the USB interface on the front of the GOT, you can save logging data of the LCPU and high speed data logger module. In this way, you can collect the logging data easily with the GOT without removing the CF card/SD card from the LCPU or high speed data logger module.
- Connect a personal computer to the front USB interface of the GOT to view the LCPU logging data with the GX LogViewer, or to change the logging settings with the LCPU Logging Configuration Tool. (FA transparent function)

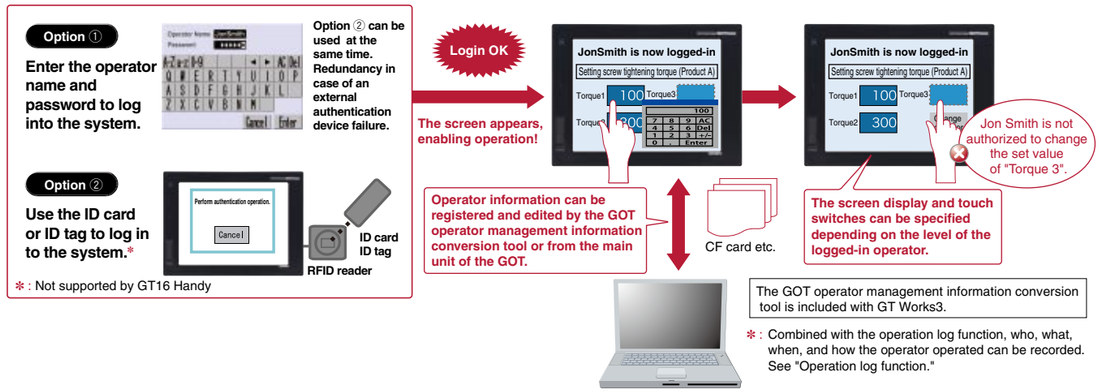


Enhanced security system using password control

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 Operator authentication function

- Two options are available for authentication of operators when the system starts or the screen changes.
- You can define various triggers, for example, to force operators to log out of the system automatically when a certain screen appears.



Setting the level (authority) of operation and display for each operator can strengthen security and prevent operation errors.

An optional device may be necessary.
For details, see "Selection of optional units and devices" (page 81).

Very helpful for identification and analysis of causes of incorrect operation

GRAPHIC OPERATION TERMINAL GOT 1000

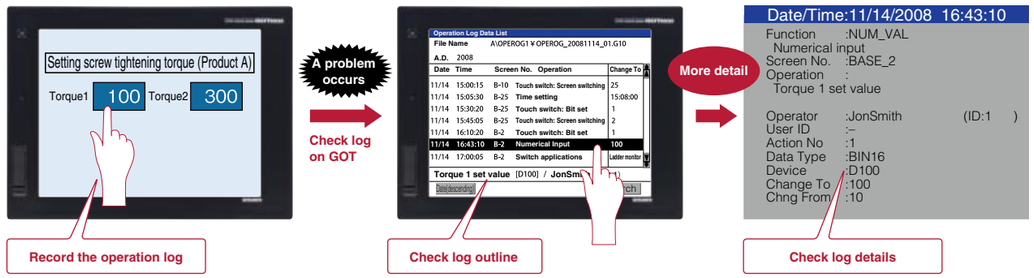
GT16 GT15 Operation log function

- Operations performed by operators on the GOT can be recorded with respect to time, making it possible to check when, what, and how the operation was performed.
- List operations by type and easily search for specific device and GOT operation state changes.

  <Specifiable operations>

  Touch switch operation, numerical value input operation, security level change, screen change, etc.
- Recorded log data is saved in the CF card and is available for checking on the GOT main unit or on a personal computer (CSV or Unicode text files).

* : Use of this function together with the operator authentication function enables recording of "who" has operated. See "Operator authentication function".



Refer to the operation log file, and investigate the problem source.

Example)
At 16:43:10 on November 14, 2008, Jon Smith changed the Numerical Input data entry to change the D100 value from 10 to 100 in "Torque 1 Set Value" on the BASE_2 screen.

An optional device may be necessary.
For details, see "Selection of optional units and devices" (page 81).

Functions designed to support maintenance personnel and significantly reduce downtime!

For maintenance personnel

Back up important sequence programs for assurance in case of an emergency

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 GT12 Backup/restoration function

With backup and restore, fear troubles no more

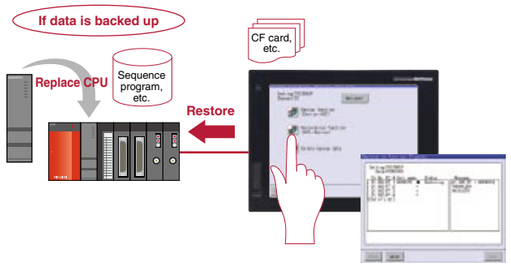
- The sequence program and parameter data of the PLC CPU and motion controller, etc. can be backed up to the CF card in the GOT.
- Users can perform batch operation to restore the data to the PLC CPU or motion controller.

<Objective data> Programs, parameters, device comments, device initial value data, file registers, etc.
<Objective model> MELSEC Q-Series (excluding Q12PRH/Q25PRHCPU), L-Series, FX-Series, Q-Series motion controllers (SV13/SV22 only), CNC C70, Robot controller (CRnD-700, CRnQ-700)
<Usable connection type> Bus connection, CPU direct connection, computer link connection, Ethernet connection

The backup data conversion tool is included with GT Works3.

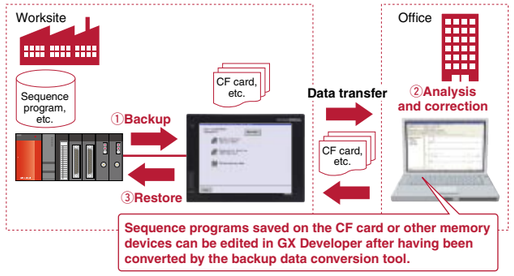
Example of use ①

Make a data backup in case of a PLC or CPU failure or a dead battery to quickly replace the faulty device and restore the system using the backup data in such a case.



Example of use ②

When a problem occurs, or when the PLC CPU program is updated, the sequence program data can be transferred, analyzed, and corrected without requiring an experienced engineer, increasing time and cost efficiency.



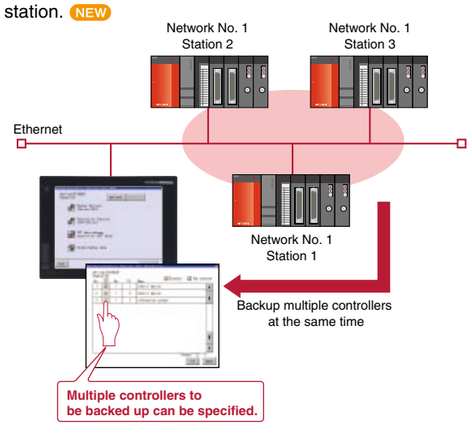
Sequence programs saved on the CF card or other memory devices can be edited in GX Developer after having been converted by the backup data conversion tool.

PLC CPU programs can be easily changed without a personal computer at the worksite or any previous GX Developer knowledge.

✻ : When replacing the PLC CPU, the restoration function may not be available depending on the system configuration and connection type.

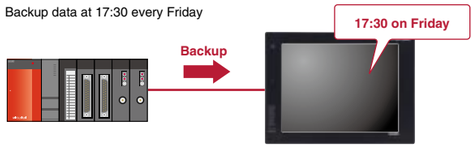
Backup multiple controllers at the same time

- Multiple controllers can be backed up at the same time over Ethernet. Target controllers for backup can be specified per station. NEW



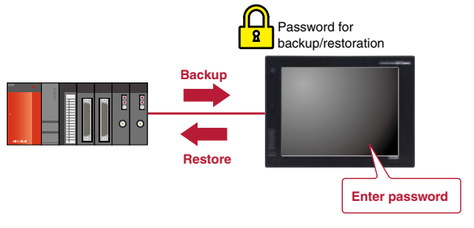
Automatic backup is available

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



Password for increased security

- Define a password to perform password authentication when executing backup/restoration.



An optional device may be necessary. For details, see "Selection of optional units and devices" (page 81).

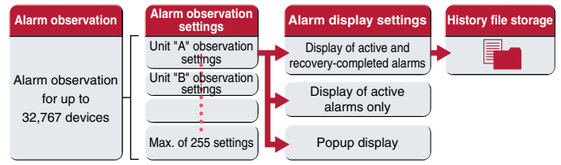
Clear communication minimizes machine downtime even during an alarm

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 GT12 Advanced alarm

A wider monitoring range protects even large-scale systems

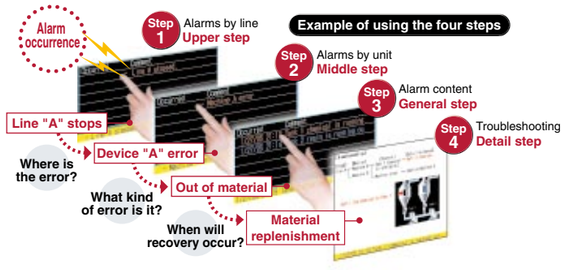
- Alarm observation is possible for up to 32,767 devices with a maximum of 255 alarm observation setting groups.
- Batch display of large amounts of alarm information in large-scale systems, and unit-specific classification for easy management.
- Alarm log data can be saved in the built-in SRAM even during a power failure. NEW (For GT16 only)



Rapid detection and corrective action for a wide array of alarms

Four-step alarm notification

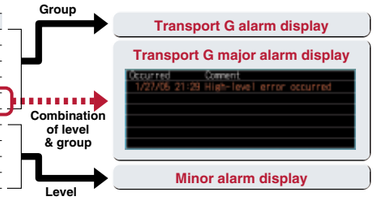
- Alarm occurrence conditions can be divided into 4 steps and conveyed to the operator in an easy-to-understand, step-by-step format.
- The four-step display makes it easy to take in and sort out alarm conditions (information such as where, what, and how). This enables efficient troubleshooting when multiple problems occur.



Group-specific & level-specific displays

- Alarms can be classified by group and level, with only specified alarms being displayed.

Alarm	Group	Level
M0	Transport G	Mid-level
M1	Transport G	Mid-level
M2	Transport G	Mid-level
M3	Transport G	Mid-level
M4	Transport G	Major
M5	Process G	Major
M6	Process G	Minor
M7	Process G	Minor
M8	Process G	Minor
M9	Process G	Minor



Easy searching with time designation NEW

- Specify a time and easily check the required data.
- When used with the historical trend graph, by specifying the time at which an error appears to have occurred on the graph, the state of alarm occurrence at that time can easily be viewed.

Easy-to-understand display

- The use of colors and popups produce easily recognizable alarm displays.

Display subject switching
Display switching can display only active alarms or all contents.

Comment display color
Comment display colors can be specified for each type of alarm status (occurred, restored, and checked) and for each level and group, etc.

Sorting
The sorting function permits the display order to be defined by date & time, level, group, alarm status, occurrence count, or downtime.

Cursor display color
The cursor display color can be specified. Alarm displays are harder to miss.



Floating alarm display
Allows the entire text of long comments which cannot be contained in the display area to be read.

Details display
Users can create window screens to display details.
JPEG images can also be displayed.

Alarm popup display
A popup display format ensures that user alarms and system alarms are not missed. The background color can be specified.

Improved system alarms

- The PLC/GOT/Network monitoring subject can be specified in advance, with only those specified alarms being displayed.

Support in identifying alarm causes (utility function)

- Alarm occurrence conditions can be displayed in a time-series graph form.
- Alarm occurrence counts can be displayed in bar-graph form.

Superior functions and connectivity to reduce maintenance time

For maintenance personnel

The GOT Ladder Monitor Function is greatly improved with the One-Touch Ladder Jump function

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 Ladder monitor function

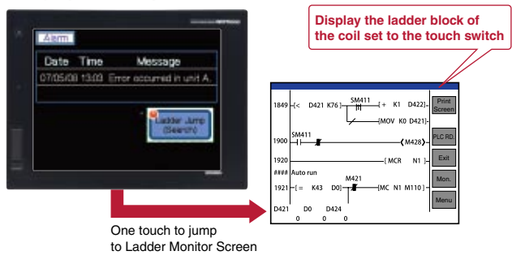


✻ : Supported by XGA/SVGA/VGA models.
✻ : QS series models can only monitor the ladder program of a Q/L/QnA. It cannot alter device values, for instance.
✻ : FX3GCPU is not supported.

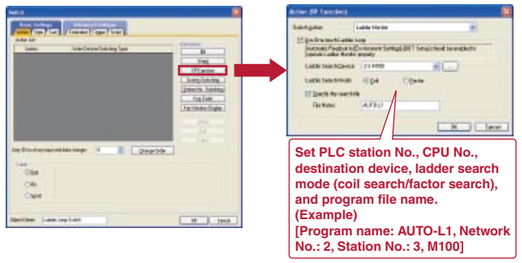
MELSEC Q/QS/L/QnA/A/FX series PLCs, CNC C70, MELDAS C6/C64 sequence programs can be monitored in a circuit diagram (ladder format).

Defect search with the One-Touch Ladder Jump function (Q/L/QnA series, CNC C70)

- By setting a program name and coil number of the PLC to a touch switch, the relevant ladder circuit block can be displayed directly.



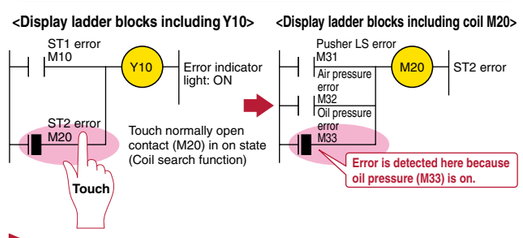
- Select [SP Function]-[Ladder Monitor] from the touch switch property dialog.



Wide monitoring range and useful functions make maintenance work more efficient!

- Not only connected PLCs, but also PLCs of other stations, multiple CPUs, multiple programs in the CPU, and local devices can be monitored.
- The programs and comments of multiple connected controllers can be saved in a CF card, so the ladder data can be switched and displayed without reading the data from the PLC.(Q/L/QnA series) NEW
- Device values and timer (T) / counter (C) set values can be changed.
- Used together with the alarm history, a back-tracking ladder search can be performed to find the contact which triggered the alarm. <Defect search>
- Simply touching the Ladder Monitor screen can execute a coil search and contact point search. (Q/L/QnA series) <Touch search>
- The number of ladder program lines displayed on a XGA model has increased thus it is more user-friendly than ever. NEW

Example of touch search (when error indicator light [Y10] is on)



Since the source of operation halts and interlocks can be easily checked, unexpected problems can be detected quickly.

An optional device may be necessary.
For details, see "Selection of optional units and devices" (page 81).

Monitor SFC programs on the GOT to make troubleshooting even easier

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 SFC monitor function

✻ : Supported by XGA/SVGA/VGA models.

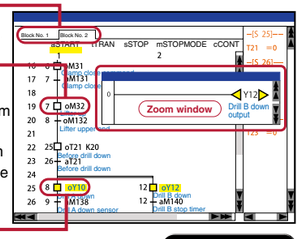
MELSEC Q/L series PLC SFC programs (MELSAP3, MELSAP-L) can be monitored in a graphical format.

- Viewing the block list or active step list enables you to see the complete status at a glance.
- Touch an SFC chart or a zoom window to specify a device. Then, the Ladder Monitor function displays other sequence programs that use the specified device.
- A device test can easily be conducted from a SFC chart or block list.
- Save programs and comments in the CF card of the GOT. They can be retrieved at a moment's notice.

Block tabs
Touch a tab to display the block.

Step
The active step is highlighted. Touch the step to display the zoom window or SFC program of the relevant block. The SFC program 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.



An optional device may be necessary. For details, see "Selection of optional units and devices" (page 81).

Simple and easy! Use the GOT to correct ladder programs, no need for a PC!

GRAPHIC OPERATION TERMINAL GOT 1000

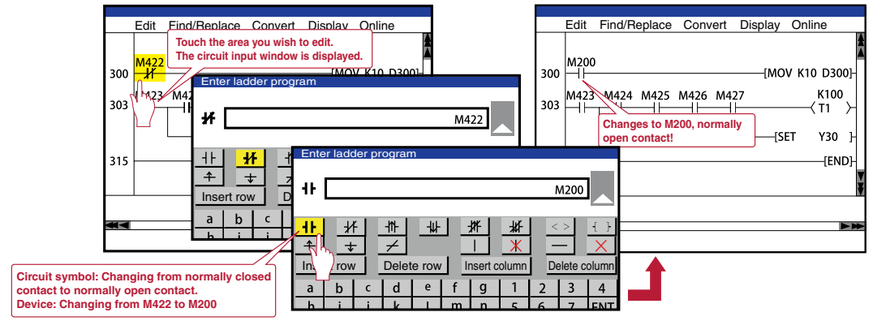
GT16 GT15 Ladder editor function

Sequence programs of Mitsubishi PLC Q Series (Q Mode) and CNC C70 can be edited in the ladder format.

✻ : Supported by XGA/SVGA/VGA models excluding 5.7" types.
✻ : QnPHCPU/QnPRHCPU are not supported.

Ladder programs can easily be edited on the GOT at the worksite

- Just touch the portion (e.g. contact points, vertical lines) you want to edit in the ladder program. You can enter, change, or delete circuit symbols and devices. You can also insert or delete vertical lines and horizontal lines as well as columns and rows.
- Search and replace of devices makes it easy to locate the point to be edited. You can also make two or more modifications in one operation.
- Statements and notes can be edited.
- The details edited last can be restored (undone).



Writing into PLC while it is in operation

- Edited programs can be written from GOT to a PLC even if it is in operation. You do not need to stop equipment in operation to correct ladder programs.
- Remotely change the PLC's mode to "STOP" or "RUN" from the GOT.

Grasping CPU status with PLC diagnosis

- The CPU operation status and current errors can be monitored. NEW

Long access range and convenient functions for efficient maintenance!

- Besides a directly connected PLC, you can edit multiple programs on another station's PLC, multi CPU, or CPU in the same network.
- You can view current values, perform a search, and conduct a device test.
- The one-touch ladder jump function is available. This is helpful to identify problem causes.

An optional device may be necessary.
For details, see "Selection of optional units and devices" (page 81).

Use the GOT to monitor a motion SFC program

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 Motion SFC monitor function NEW

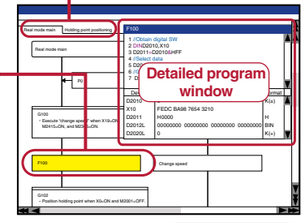
✻ : Supported by XGA/SVGA/VGA models.

Motion SFC programs of the Mitsubishi Motion Controller (Q Series) can be monitored.

- Viewing the batch program monitor or the active step list enables you to see the complete status at a glance.
- The detailed program window allows you to monitor programs and current values of operation control steps and transitions.
- Save programs in the CF card of the GOT. They can be retrieved at a moment's notice.

Block tabs
Touch a tab to display the block.

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



An optional device may be necessary. For details, see "Selection of optional units and devices" (page 81).

Unique functions designed for Mitsubishi devices

For maintenance personnel

Monitor and change Mitsubishi FA devices

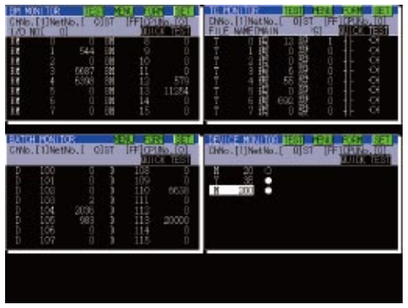
GRAPHIC OPERATION TERMINAL GOT 1000

System monitor function

- The devices of PLCs, motion controllers, CNCs and robot controllers can be monitored and changed.

✻: Only monitoring, but not changing device values and other operations, is available with the QSCPU.

- The current values and setting values of timers (T) and counters (C) can be changed.
- The buffer memory (BM) of an intelligent function module can be monitored and changed.

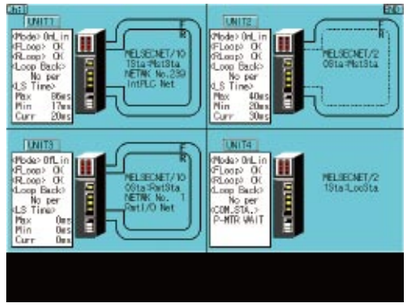


At-a-glance monitoring of network status

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 Network monitor function

- Enable monitoring of network line conditions of the CC-Link IE Controller Network, CC-Link IE Field Network, MELSECNET/H, MELSECNET/10, and MELSECNET Ⅱ on a dedicated screen.
- Communication line and information from the host and other stations can be monitored to check the communication status.



Easy adjustment of Q series motion controller

GRAPHIC OPERATION TERMINAL GOT 1000

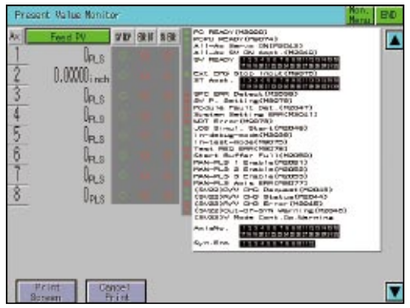
GT16 GT15 Q series motion monitor function

- Up to 3 Q-type motion controllers can be used on a single base, with monitoring and parameter settings possible.
- Access to other stations is also possible.

<Objective models>

- Q172D/Q173DCPU (-S1)
- Q170MCPU
- Q172H/Q173HCPU
- Q172(N)/Q173(N)CPU

✻: Supported only if the Q series motion controller CPU has the SV13/SV22 OS version.
Moreover, available functions of the Q series motion monitor vary according to the CPU type or the servo amplifier model.



Easy startup and adjustment of a servo amplifier

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 Servo amplifier monitor function

- 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.

✻: Available monitoring functions vary according to the servo amplifier type.



Easy-to-understand display of buffer memory values and I/O information

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 GT15 Intelligent module monitor function

- Buffer memory values of intelligent function modules (e.g. QD75MH) and the ON/OFF status of I/O units can be monitored and changed.
- When a QCPU (Q mode), a QSCPU or a LCPU is in use, CPU operating status and existing errors can be monitored by PLC diagnosis.
- QD65PD2 and LD77MH16 are now supported. NEW

✻: Supported by XGA/SVGA/VGA models.

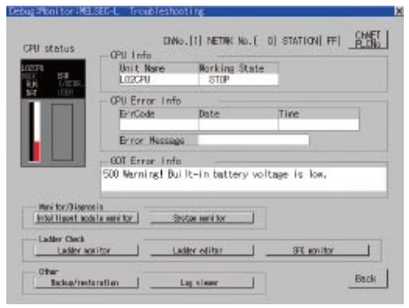


Easy maintenance of MELSEC-L Series

GRAPHIC OPERATION TERMINAL GOT 1000

GT16 MELSEC-L troubleshooting function NEW

- The maintenance screen dedicated to LCPU is installed. Without designing new screens and even without using a personal computer, you can check CPU status/error information easily.
- Just touch the dedicated screen. You can jump to a function screen such as the intelligent unit monitor to quickly take corrective actions on site.



Save space and cost when no dedicated display device is required

GRAPHIC OPERATION TERMINAL GOT 1000

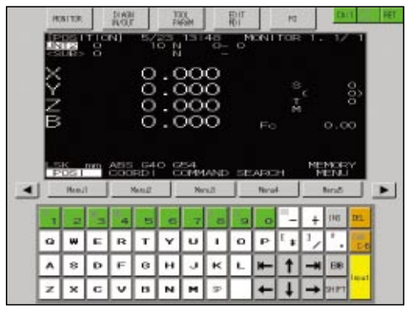
GT16 GT15 CNC monitor function/CNC data I/O function

CNC monitor function

- Connecting to a CNC (C70, C6/C64) enables functions such as position display and alarm diagnosis, and allows tool offset parameters to be set.

CNC data I/O function

- This function can be used to copy and delete CNC C70 work programs, parameters, etc.



✻: Supported by XGA/SVGA models.

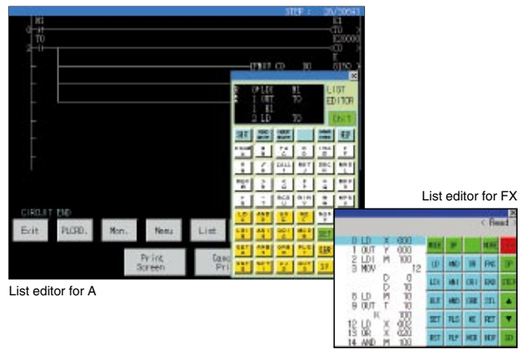
An optional device may be necessary.
For details, see "Selection of optional units and devices" (page 81).

Convenient method for minor program changes onsite

GRAPHIC OPERATION TERMINAL GOT 1000

List editor for A/List editor for FX

- MELSEC-A series, FX series PLC sequence programs can be edited in list format (instruction word).
- Permits minor program changes onsite, even without a peripheral device.
- Used together with the ladder monitor function, the GT16 and GT15 can edit sequence programs while viewing the ladder data.



List editor for FX

List editor for A

Powerful features even down to the most basic GOT

GT10

GRAPHIC OPERATION TERMINAL GOT 1000

Various screen sizes

The GT10 now offers line up of models with 5.7" and 4.7" screens, enabling more flexible screen layouts.
The 4.5" and 3.7" wide screen models are also available with a white frame.



GT1050/GT1055 5.7inch
- QVGA 320 × 240 dots
- Matrix touch panel
- Minimum touch key size: 16 × 16 dots
- Maximum number of touch keys: 50/Screen

GT1040/GT1045 4.7inch
- QVGA 320 × 240 dots
- Matrix touch panel
- Minimum touch key size: 16 × 16 dots
- Maximum number of touch keys: 50/Screen



Black frame / White frame



GT1030 4.5inch
- 288 × 96 dots
- Matrix touch panel
- Minimum touch key size: 16 × 16 dots
- Maximum number of touch keys: 50/Screen

NEW **High contrast product released!**

Black frame / White frame



GT1020 3.7inch
- 160 × 64 dots
- Analog touch panel
- Minimum touch key size: 2 × 2 dots
- Maximum number of touch keys: 50/Screen

GRAPHIC OPERATION TERMINAL GOT 1000

Similar dimensions to the F900 Series allows for simple replacement without panel design changes*1

*1 : When the F940GOT is replaced with the GT1050/GT1055 or when the F930GOT is replaced with the GT1030

GT1050/GT1055

The GT1050, GT1055, and F940GOT are of the same size, 5.7", with the same LCD, QVGA 320 × 240 dots. They are highly compatible.

F940GOT ▶ GT1050/GT1055



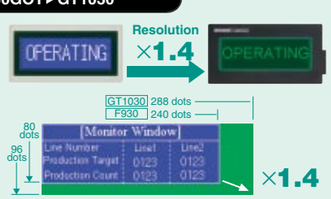
- QVGA 320 × 240 dots in each model

GT1030

The GT1030 has the same panel mounting dimensions as the F930GOT yet with improved resolution*2.

*2 : 1.44 times compared with the F930GOT

F930GOT ▶ GT1030



GRAPHIC OPERATION TERMINAL GOT 1000

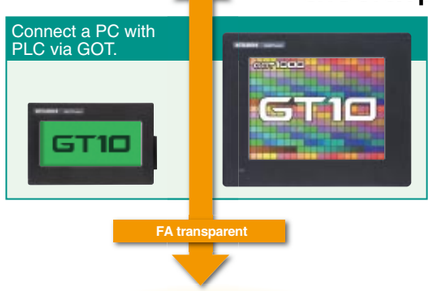
FA transparent function

When a GOT and a personal computer are connected, the FA devices can be programmed, started and adjusted via GOT.

GT1050/GT1055
GT1040/GT1045
GT1030 GT1020



GX Works2
GX Developer



Direct connection with FX/Q/L/QnACPU
Q/L/QnACPU serial communication unit connection etc.



GRAPHIC OPERATION TERMINAL GOT 1000

GOT multi-drop connection

By using the serial multi-drop connection unit, the GT01-RS4-M, up to 16 GOT1000 units can be connected. The total distance can be up to 500m.



*: See relevant manuals for connectable hardware and software versions.
*: GOT multi-drop connection is also available for GT16, GT15, and GT11.

GRAPHIC OPERATION TERMINAL GOT 1000

Connection to Mitsubishi inverters and AC servos

Direct connection to Mitsubishi inverters and AC servo amplifiers with RS-485 makes it easy to adjust parameter settings etc.



*: See relevant manuals for connectable hardware and software versions.

GRAPHIC OPERATION TERMINAL GOT 1000

Common software functions

GT10 includes convenient functions of more advanced models in a compact package.

- Preinstalled OS to enable immediate use
- Choose your font
- A variety of alarm functions and window functions
- The recipe function and multi-action switch for reducing sequence program load
- Displaying custom startup screens
- Display in a variety of languages and comment switching function
- Screen save function

Functionality

Common	◎Screen (base: max. 1,024 screens, window: max. 512 windows) ◎Fonts (standard (6 × 8 dots: Gothic, 16 dots: Gothic, 12 dots: Gothic [except GT1020])/high quality/TrueType/Windows) ◎Screen switching function, screen call-up function, language switching function, password, system information, setting connected devices, and startup logo
Drawing and graphics	◎Straight lines, continuous lines, rectangular, polygons, chamfered quadrangles, circles, ellipses, arcs, elliptic arcs, circular sectors, and elliptic sectors ◎Division indication ◎Painting ◎Images (BMP/DXF)
Objects	◎Comment registration (basic comments and comment groups) ◎Parts registration ◎Data computing function ◎Offset function ◎Security function ◎Lamp indications ◎Touch switches ◎Numeric indications and input ◎ASCII indications and input ◎Clock function (GT1050, GT1055, GT1040, GT1045, GT1030: Integrated clock, GT1020: Read from the PLC clock) ◎Comment displays ◎Alarm list and alarm history ◎Parts display ◎Panel meters ◎Trend graphs, kinked line graphs, bar graphs, statistic crossbar graphs, statistic circular graphs ◎Status monitor function ◎Recipe function (4,000 points) ◎Time action function

*: See the manual for details.

GRAPHIC OPERATION TERMINAL GOT 1000

Supporting the GT Works3 simulator function

Created screens can be easily debugged without an actual machine.



*: Supported with GT Works3 Ver. 1.22Y or later.

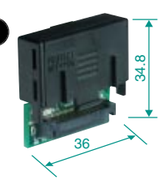
GRAPHIC OPERATION TERMINAL GOT 1000

Data transfer for improved user-friendliness and flexibility

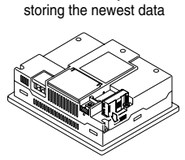
Optional memory board and memory loader provide a convenient way to download project data and operating system data to terminals without a PC. Furthermore when downloading to multiple units speed and efficiency is increased.

Data transfer memory board GT10-50FMB

GT1050/GT1055
GT1040/GT1045

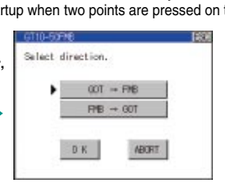


- Install a memory board storing the newest data



Basic OS, communication driver, and project data

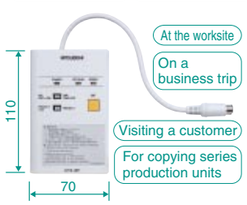
Read/Write

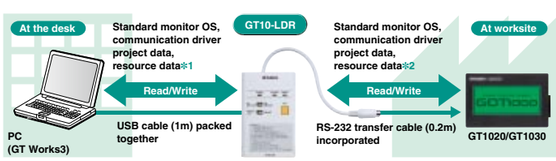


- Data can be read or written as shown in the utility window below.
- Data is written at startup when two points are pressed on the screen.

Memory loader GT10-LDR GT1030 GT1020

- Has a compact design (70 × 110 mm), where the GOT transfer cable can be stored inside the body.
- Can write the standard monitor OS, communication driver, and project data.
- Can read the project data and resource data.
- Offers simple switch type operation, where the write-protect switch prevents erroneous reading.
- Does not require a power supply as power is supplied from the GOT or personal computer.





*1 : Only the standard monitor OS and communication driver can be written and only resource data can be read.
*2 : Only resource data can be read.

Real-time multi CPU access with the iQ Platform

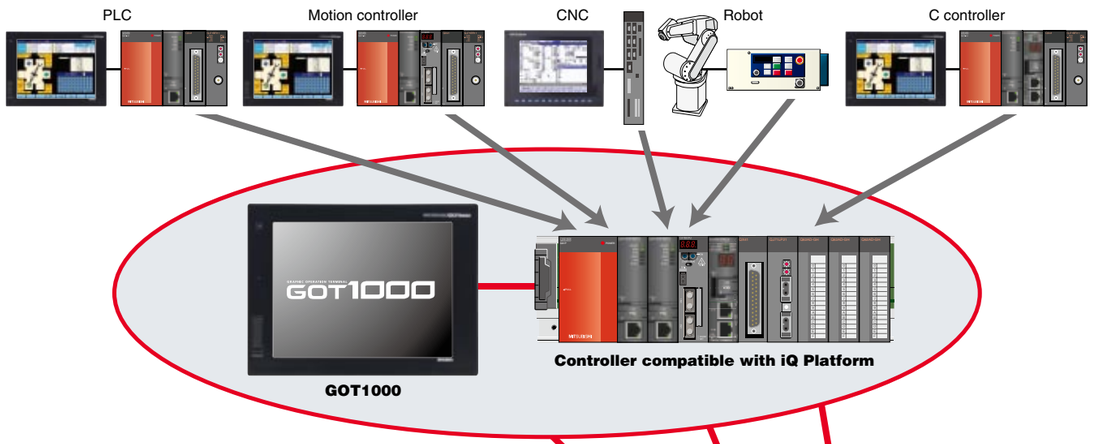
iQ Platform

Mitsubishi FA Integrated Platform optimizes front line of production

"iQ Platform," the next generation integrated platform
- integrated Q
- improved Quality
- intelligent & Quick
- innovation & Quest

With high speed control and convenience fully assured, controllers compatible with the iQ Platform and the GOT1000 are the keys to higher productivity at lower costs.

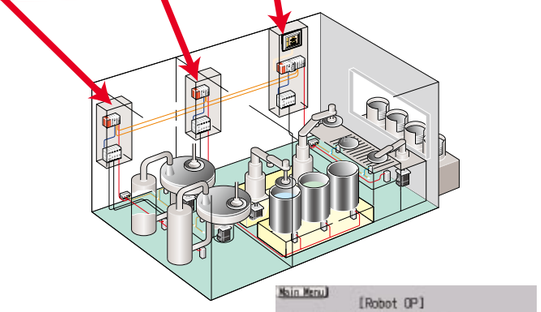
PLCs, motion controllers, CNCs, robot controllers, and C controllers are integrated into one as a controller compatible with the iQ Platform. The GOT1000 can integrate different types of monitor units that were previously connected to each controller.



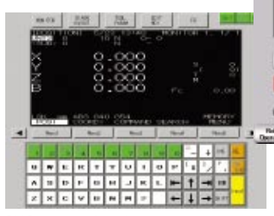
①Reducing engineering cost
The screen design software "GT Works3" enables creation of monitor screens for each controller.

②Reducing spare parts cost
A single GOT1000 can integrate several types of monitor units connected to each controller, greatly reducing equipment cost.

③Powerful support for maintenance
The GOT1000 has a variety of useful maintenance functions such as the "Q motion monitor function" and "CNC monitor function," very capable of and reliable for troubleshooting. (GT16 and GT15 only)



Robot sample drawing data



CNC monitor function

※: Connectable models and usable functions vary depending on the GOT main unit.
For more details, see "List of connectable models" (page 65), "Function list" (page 70) and "Notes for use" (page 81).

Create an easy-to-operate process control system.

GOT1000 flexibly interacts with process control.

MELSEC process control

MELSEC will change process control. From dedicated systems to PLCs.

"MELSEC process control" is used in a wide range of applications from device process control to plant process control. The GOT1000 can be used as the monitoring interface. When using Mitsubishi FA devices, the outstanding interaction allows a high-performance process control monitor system to be created easily.

Four benefits that MELSEC process control and GOT1000 (GT16/GT15) can offer.

①PX Developer creates GOT process control monitor screens automatically

Based on the information such as tags defined by PX Developer, process control monitor screens for the GOT can be created automatically, greatly reducing the time required for screen design.
GT Works3 can then customize the automatically created screens.
By using the GT Works3 simulator function and GX Simulator, the operation of programs and screen data can be confirmed on a personal computer even without an actual machine. NEW

※: For details on the compatible software version and functions, see the PX Developer Operating Manual.

[Screen examples that can be created automatically]

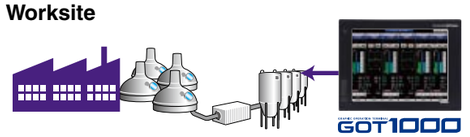


Control panel screen | Tuning screen | Alarm list screen | Trend graph screen

②Utilizing GOT1000 & GT SoftGOT1000 data

Only by using GT Works3 and PX Developer, a process control monitor system can be developed for both the worksite (GOT1000) and the remote monitoring location (GT SoftGOT1000).
Screen data can be shared to monitor screens efficiently.

Worksite



- Excellent anti-environment performance (IP67f) for operation in various types of worksites.
- The VESA mount adapter is available.

Monitoring location GT SoftGOT1000 in the monitoring location

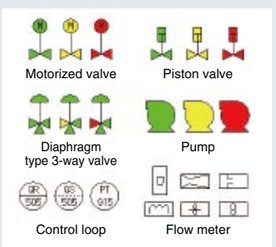


- Touch switches on the GT SoftGOT1000 can call up screens such as face plates and the alarm list of the PX Developer monitor tool.
- Since GOT1000 screen data can be used for GT SoftGOT1000 without modification, no screens need to be created just for the monitoring location.

※: For more details, see "GT SoftGOT1000" (page 26)

③Process control parts library NEW

Library of process control parts has been added. This allows a process control graphic screen to be created easily.



④Various GOT1000 functions are available for process and duplex CPU

The various GOT1000 functions usable with process and duplex CPUs support the maintenance work of the process control system.
- Operation log function
- Operator authentication function
- Backup/restoration function, etc.

Specifications

GT16

General specifications

Item			Specification			
Operating ambient temperature※1	Display		0°C to 50°C※5			
	Other than display		0°C to 55°C※5			
Storage ambient temperature			-20°C to 60°C			
Operating ambient humidity			10 to 90%RH, no condensation			
Storage ambient humidity			10 to 90%RH, no condensation			
Vibration resistance	Conforming to JIS B 3502 and IEC 61131-2		Frequency	Acceleration	Half amplitude	Sweep count
		Under intermittent vibration	5 to 8.4Hz	–	3.5mm	10 times each in X, Y and Z directions
			8.4 to 150Hz	9.8m/s²	–	
		Under continuous vibration	5 to 8.4Hz	–	1.75mm	–
			8.4 to 150Hz	4.9m/s²	–	
Impact resistance			Conforming to JIS B 3502 and IEC 61131-2 (147m/s², 3 times each in X, Y and Z directions)			
Operating atmosphere			No oily smoke, corrosive gas or combustible gas, less conductive dust, away from direct sunlight (the same in storage)			
Operating altitude※2			2000m or less			
Installation location			In control panel※6			
Overvoltage category※3			Ⅱ or lower			
Contamination level※4			2 or less			
Cooling method			Self-cooling			
Grounding			Type D grounding (100Ω or less). Connect to panel if unable to ground.			

※1 : The maximum operating ambient temperature should be 5°C lower than that shown in the table on the left when connecting to a multimedia unit (GT16M-MMR), MELSECNET/H communication unit (GT15-J71LP23-25 or GT15-J71BR13) or CC-Link communication unit (GT15-J61BT13).
※2 : Do not operate or store the GOT unit in pressurized environments where the pressure exceeds 0m elevation atmospheric pressure, as this could result in abnormal operation.
Do not pressurize inside the control panel for air purge cleaning. The pressure could raise the surface sheet, making the touch panel difficult to operate or causing the sheet to come off.
※3 : Assuming that the device is connected at some point between a public power distribution network and local system equipment.
Category Ⅱ applies to devices that are supplied with power from fixed equipment. The surge withstand voltage is 2,500V for devices with ratings up to 300V.
※4 : Index that indicates the level of foreign conductive matter in the operating environment of the device. Contamination level 2 denotes an environment contaminated only by non-conductive matter which may, under certain conditions, become temporarily conductive due to condensation.
※5 : 0 to 40°C for GT1665HS
※6 : Excluding GT1665HS

Do not use or store the GOT under direct sun light or in an environment with excessively high temperature, dust, humidity or vibration.

For inquiries relating to products which conform to UL, cUL, and CE directives and shipping directives, please contact your local sales office.

Performance specifications

Item		Specification						
		GT1695M-XTBA GT1695M-XTBD	GT1685M-STBA GT1685M-STBD	GT1675M-STBA GT1675M-STBD	GT1675M-VTBA GT1675M-VTBD	GT1675-VNBA GT1675-VNBD	GT1672-VNBA GT1672-VNBD	GT1665M-STBA GT1665M-STBD
Display※1	Type	TFT color LCD (high-brightness, wide viewing angle)				TFT color LCD		TFT color LCD (high-brightness, wide viewing angle)
	Screen size	15"	12.1"	10.4"				8.4"
	Resolution	XGA: 1024 × 768 [dots]	SVGA: 800 × 600 [dots]	SVGA: 800 × 600 [dots]	VGA: 640 × 480 [dots]			SVGA: 800 × 600 [dots]
	Display size	304.1(W) × 228.1(H)[mm]	246(W) × 184.5(H)[mm]	211(W) × 158(H)[mm]				171(W) × 128(H)[mm]
	No. of displayed characters	16-dot standard font: 64 chars. × 48 lines (2-byte) 12-dot standard font: 85 chars. × 64 lines (2-byte)	16-dot standard font: 50 chars. × 37 lines (2-byte) 12-dot standard font: 66 chars. × 50 lines (2-byte)	16-dot standard font: 40 chars. × 30 lines (2-byte) 12-dot standard font: 53 chars. × 40 lines (2-byte)				16-dot standard font: 50 chars. × 37 lines (2-byte) 12-dot standard font: 66 chars. × 50 lines (2-byte)
	Display colors	65,536 colors				4,096 colors	16 colors	65,536 colors
	View angle※2	Right/left: 75°, Up: 50°, Down: 60°	Right/left: 80°, Up: 60°, Down: 80°	Right/left/up/down	• Right/left: 70°, Up/down: 65° (Function version D or later) • Right/left/up/down: 88° (Function version C or earlier)	Right/left: 45°, Up: 30°, Down: 20°		Right/left: 80°, Up: 80°, Down: 60°
	Intensity	450 [cd/m²]	470 [cd/m²]	400 [cd/m²]	450 [cd/m²]	200 [cd/m²]		400 [cd/m²]
	Intensity adjustment	8-step adjustment				4-step adjustment		8-step adjustment
	Life	Approx. 52,000 hours (operating ambient temperature: 25°C)		Approx. 43,000 hours (operating ambient temperature: 25°C)		Approx. 52,000 hours (operating ambient temperature: 25°C)		Approx. 43,000 hours (operating ambient temperature: 25°C)
Backlight		Cold-cathode fluorescent tube (replaceable), with backlight OFF detection function. Backlight off time and screen save time can be set.						
	Life※3	Approx. 50,000 hours or more (Time for display intensity reaches 50% at operating ambient temperature of 25°C)						
Touch panel※10	Type	Analog resistive type						
	Key size	Min. 2 × 2 [dots] (per key)						
	No. of simultaneous touch points	Simultaneous touch prohibited※4 (1 point only)						
	Life※11	1,000,000 times or more (operating force 0.98N or less)						
Human sensor	Detection distance	1 [m]		–				
	Detection range	Right/left/up/down: 70°		–				
	Detection delay time	0 to 4 [sec]		–				
	Detection temperature	Temperature difference to be 4°C or more between human body and ambient air		–				
Memory※5	C drive	15MB built-in flash memory (for saving project data and OS)				11MB built-in flash memory (for saving project data and OS)		15MB built-in flash memory (for saving project data and OS)
	Life (No. of writings)	100,000 times						
Internal clock accuracy		3.47 to 8.38 secs/day (operating ambient temperature: 25°C)※12						
Battery	Backed up data	GT15-BAT type lithium battery						
	Life	Clock data, maintenance time notification data, system log data and SRAM user area (500KB)						
Built-in interface	RS-232※7	Approx. 5 years (operating ambient temperature: 25°C)						
	RS-422/485	RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (male) Application: Communication with connected devices, connection to personal computer (project data read/write, OS installation, FA transparent function)						
	Ethernet	RS-422/485, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: 14-pin (female) Application: Communication with connected devices						
	USB	Data transfer system: 100BASE-TX, 10BASE-T, 1ch※8 Connector shape: RJ-45 (modular jack) Application: Communication with connected devices, gateway function, connection to personal computer (project data read/write, OS installation, FA transparent function, MES interface function)						
		USB (full-speed 12Mbps), host 1ch Connector shape: TYPE-A Application: USB mouse/keyboard connection, USB memory data transfer and storage FAT16 format: max. 2GB, FAT32 format: max. 32GB※13						
		USB (full-speed 12Mbps), device 1ch Connector shape: Mini-B Application: Connection to personal computer (project data read/write, OS installation, FA transparent function)						
	CF card	Compact flash slot, 1ch Connector shape: TYPE Ⅰ Application: Data transfer, data storage, GOT startup FAT16 format: max. 2GB, FAT32 format: max. 32GB※13						
	Optional function board	1ch for optional function board installation						
	Extension unit※7	2ch for communication unit/optional unit installation						
Buzzer output		Single tone (tone length adjustable)						
Protective construction		Front: IP67f※6 In panel: IP2X						
External dimensions		397(W) × 296(H) × 61(D)[mm]	316(W) × 242(H) × 52(D)[mm]	303(W) × 214(H) × 49(D)[mm]				241(W) × 190(H) × 52(D)[mm]
Panel cut dimensions		383.5(W) × 282.5(H)[mm]	302(W) × 228(H)[mm]	289(W) × 200(H)[mm]				227(W) × 176(H)[mm]
Weight (excl. mounting brackets)		5.0[kg]	2.7[kg]	2.1[kg]		2.3[kg]		1.7[kg]
Applicable software packages		GT Works3 Version1.31H or later				GT Works3 Version1.31H or later (not supported by GT Works2/GT Designer 2)		GT Works3 Version1.31H or later

Power supply specifications

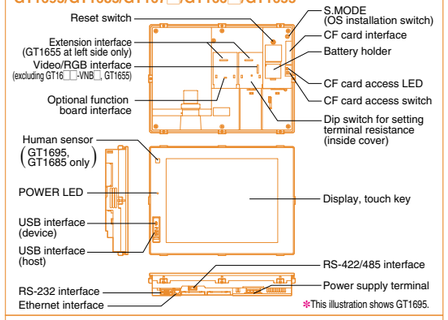
Item	Specification							
	GT1695M-XTBA	GT1685M-STBA	GT1675M-STBA GT1675M-VTBA GT1675-VNBA GT1672-VNBA GT1665M-STBA GT1665M-VTBA GT1662-VNBA	GT1695M-XTBD	GT1685M-STBD	GT1675M-STBD GT1675M-VTBD GT1675-VNBD GT1672-VNBD GT1665M-STBD GT1665M-VTBD GT1662-VNBD	GT1655-VTBD	GT1665HS-VTBD
Input power supply voltage	100 to 240VAC (+10%, -15%)			24VDC (+25%, -20%)				24VDC (+10%, -15%)
Input frequency	50/60Hz ±5%			–				
Input maximum apparent power	150VA (at max. load)	110VA (at max. load)	100VA (at max. load)	–				
Power consumption	64W or less	46W or less	39W or less	60W or less	40W or less	38W or less	16W or less	11.6W or less
With backlight off	38W or less	32W or less	30W or less	30W or less	26W or less	27W or less	14W or less	8.2W or less
Inrush current	28A or less (4ms, at max. load)			12A or less (75ms, at max. load)	12A or less (55ms, at max. load)		67A or less (1ms, at max. load)	30A or less (2ms, at max. load)
Permissible instantaneous failure time	Within 20ms (100VAC or more)			Within 10ms				Within 5ms
Noise resistance	Noise voltage 1500Vp-p, noise width 1μs by noise simulator with noise frequency 25 to 60Hz			Noise voltage 500Vp-p, noise width 1μs by noise simulator with noise frequency 25 to 60Hz				Noise voltage 1000Vp-p, noise width 1ms by noise simulator with noise frequency 30 to 100Hz
Withstand voltage	1500VAC for 1 minute between power supply terminal and ground			500VDC for 1 minute between power supply terminal and ground				
Insulation resistance	10MΩ or higher with an insulation resistance tester (500VDC between power supply terminal and ground)							
Applicable wire size	0.75 to 2 [mm²]							–
Clamp terminal	Clamp terminals for M3 screw RAV1.25-3, V2-S3.3, V2-N3A, FV2-N3A							–
Tightening torque (terminal block's terminal screws)	0.5 to 0.8 [N-m]							–

Performance specifications

Item		Specification			
		GT1665M-VTBA GT1665M-VTBD	GT1662-VNBA GT1662-VNBD	GT1655-VTBD	GT1665HS-VTBD
Display※1	Type	TFT color LCD (high-brightness, wide viewing angle)	TFT color LCD	TFT color LCD (high-brightness, wide viewing angle)	
	Screen size	8.4"		5.7"	6.5"
	Resolution	VGA: 640 × 480 [dots]			
	Display size	171(W) × 128(H)[mm]		115(W) × 86(H)[mm]	132.5(W) × 99.4(H)[mm]
	No. of displayed characters	16-dot standard font: 40 chars. × 30 lines (2-byte) 12-dot standard font: 53 chars. × 40 lines (2-byte)			
	Display colors	65,536 colors	16 colors	65,536 colors	
	View angle※2	Right/left: 80°, Up: 80°, Down: 60°	Right/left: 45°, Up/Down: 20°	Up/down/right/left: 80°	Right/left: 80°, Up: 60°, Down: 80°
	Intensity	600 [cd/m²]	200 [cd/m²]	350 [cd/m²]	550 [cd/m²]
	Intensity adjustment	8-step adjustment	4-step adjustment	8-step adjustment	
	Life	Approx. 43,000 hours (operating ambient temperature: 25°C)	Approx. 52,000 hours (operating ambient temperature: 25°C)	Approx. 50,000 hours (operating ambient temperature: 25°C)	Approx. 41,000 hours (operating ambient temperature: 25°C)
Backlight		Cold-cathode fluorescent tube (replaceable), with backlight OFF detection function. Backlight off time and screen save time can be set.		LED (not replaceable), with backlight OFF detection function. Backlight off and screen save time can be set.	
	Life※3	Approx. 50,000 hours or more (Time for display intensity reaches 50% at operating ambient temperature of 25°C)	Approx. 40,000 hours or more	Approx. 70,000 hours or more	–
Touch panel※10	Type	Analog resistive type			
	Key size	Min. 2 × 2 [dots] (per key)			
	No. of simultaneous touch points	Simultaneous touch prohibited※4 (1 point only)			
	Life※11	1,000,000 times or more (operating force 0.98N or less)			
Human sensor	Detection distance	–			
	Detection range	–			
	Detection delay time	–			
	Detection temperature	–			
Memory※5	C drive	15MB built-in flash memory (for saving project data and OS)	11MB built-in flash memory (for saving project data and OS)	15MB built-in flash memory (for saving project data and OS)	
	Life (No. of writings)	100,000 times			
Internal clock accuracy		3.47 to 8.38 secs/day (operating ambient temperature: 25°C)※12	-3.61 to 2.16 secs/day (operating ambient temperature: 25°C)※12	3.47 to 8.38 secs/day (operating ambient temperature: 25°C)※12	
Battery		GT15-BAT type lithium battery	GT11-50BAT type lithium battery	GT15-BAT type lithium battery	
	Backed up data	Clock data, maintenance time notification data, system log data and SRAM user area (500KB)			
	Life	Approx. 5 years (operating ambient temperature: 25°C)			
Built-in interface	RS-232※7	RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (male) Application: Communication with connected devices, connection to personal computer (project data read/write, OS installation, FA transparent function)			RS-232, RS-422/485, 1ch, each (When using, select one of the channels.) Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: Square, 42-pin (male) Application: Communication with connected devices
	RS-422/485	RS-422/485, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: 14-pin (female) Application: Communication with connected devices			
	Ethernet	Data transfer system: 100BASE-TX, 10BASE-T, 1ch Connector shape: RJ-45 (modular jack) Application: Communication with connected devices, gateway function, connection to personal computer (project data read/write, OS installation, FA transparent function, MES interface function)			Data transfer system: 100BASE-TX, 10BASE-T, 1ch Connector shape: Square, 42-pin (male) Application: Communication with connected devices, gateway function, connection to personal computer (project data read/write, OS installation, FA transparent function)
	USB	USB (full-speed 12Mbps), host 1ch Connector shape: TYPE-A Application: USB mouse/keyboard connection, USB memory data transfer and storage FAT16 format: max. 2GB, FAT32 format: max. 32GB※13			USB (full-speed 12Mbps), host 1ch Connector shape: TYPE-A Application: USB memory data transferand storage FAT16 format: max. 2GB, FAT32 format: max. 32GB※13
		USB (full-speed 12Mbps), device 1ch Connector shape: Mini-B Application: Connection to personal computer (project data read/write, OS installation, FA transparent function)			
	CF card	Compact flash slot, 1ch Connector shape: TYPE Ⅰ Application: Data transfer, data storage, GOT startup FAT16 format: max. 2GB, FAT32 format: max. 32GB※13			
	Optional function board	1ch for optional function board installation			–
	Extension unit※7	2ch for communication unit/optional unit installation		1ch for communication unit/optional unit installation	–
Buzzer output		Single tone (tone length adjustable)			
Protective construction		Front: IP67f※6 In panel: IP2X			IP65f※9 (when external connection cable is connected)
External dimensions		241(W) × 190(H) × 52(D)[mm]		267(W) × 135(H) × 60(D)[mm]	201(W) × 230(H) × 97(D)[mm]
Panel cut dimensions		227(W) × 176(H)[mm]		153(W) × 121(H)[mm]	–
Weight (excl. mounting brackets)		1.7[kg]	1.8[kg]	1.0[kg]	1.2[kg] (main unit only)
Applicable software packages		GT Works3 Version1.31H or later	GT Works3 Version1.31H or later (not supported by GT Works2/GT Designer 2)		

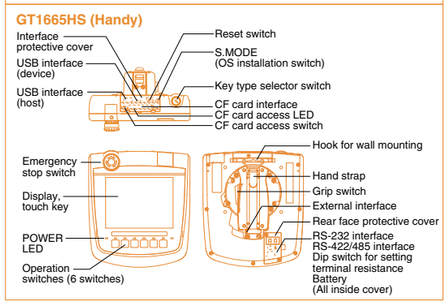
Component names

GT1695/GT1685/GT167□/GT166□/GT1655



※This illustration shows GT1695.

GT1665HS (Handy)



※1 : On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear. Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero. Note that the existence of bright and black dots is a standard characteristic of LCD screens, and it does not mean that the products are defective or damaged.
※2 : LCD panels have characteristics of tone reversal. Note that even within the indicated view angles, the screen display may not be clear enough depending on the display color.
※3 : Using the GOT screen save/backlight OFF functions prevents screen burn-in and extends backlight life.
※4 : An analog resistive touch display is used. When 2 points on the screen are touched simultaneously, if a switch is located the middle of the 2 points then the switch will be activated. Therefore, avoid touching 2 points on the screen simultaneously.
※5 : The memory is ROM that permits overwriting of new data without having to delete the existing data.
※6 : With the USB environmentally protective cover is on, pressing firmly the portion marked "△" makes it conform to IP67f. (The USB interface conforms to IP2X when a USB cable or a USB memory is connected.) However, this does not guarantee protection in all users' environments. The unit may not be used in an environment where it is exposed to splashing oil or chemicals for a long time or it is soaked with oil mist.
※7 : Where more than one extension unit, barcode reader, and RFID controller are used, the sum of their current consumptions should be within the current level which the GOT can supply. For the currents which the extension units, barcode reader, and RFID controller consume and the current level which the GOT can supply, see "Notes for use" (page 81).
※8 : The function version A of GT1695/GT1685 is not compatible with 10BASE-T.
※9 : The degree of protection is not guaranteed under all users' environmental conditions. If the interface protective cover or the rear face protective cover is removed, the specification does not apply.
※10 : If necessary, use a stylus pen meeting the following specifications. (excluding GT1665HS)
• Material: Polyacetal resin • Pen point radius: 0.8mm or more
※11 : When using a stylus pen, it will be 100,000 times or more (operating force 0.98N max.). Since the touch panel is a consumable product structurally, it may not be used even fewer than above, depending on the usage method and environment.
※12 : If the operating ambient temperature is other than 25°C, operation errors may increase.
※13 : USB memory and CF cards that can store more than 2GB are available for the GT16 with the following versions of OSs installed.
• Boot OS version: 05.09.00AF or later
• Standard monitor OS version: 05.09.00 or later
With OSs earlier than the above versions, the GOT cannot correctly recognize the USB memory and the CF card that store more than 2GB.
If the above versions of OSs are not installed, install the OSs on the GOT by using GT Designer3 with version 1.17T or later. GT Designer2 version□ is not compatible with USB memory and CF cards that can store more than 2GB.

Specifications

GT15

General specifications

Item			Specification			
Operating ambient temperature※1	Display		0°C to 50°C			
	Other than display		0°C to 55°C			
Storage ambient temperature			-20°C to 60°C			
Operating ambient humidity※2			10 to 90%RH, no condensation			
Storage ambient humidity※2			10 to 90%RH, no condensation			
Vibration resistance※3	Conforming to JIS B 3502 and IEC 61131-2		Frequency	Acceleration	Half amplitude	Sweep count
		Under intermittent vibration	5 to 8.4Hz	–	3.5mm	10 times each in X, Y and Z directions
			8.4 to 150Hz	9.8m/s^2	–	
		Under continuous vibration	5 to 8.4Hz	–	1.75mm	–
			8.4 to 150Hz	4.9m/s^2	–	
Impact resistance			Conforming to JIS B 3502 and IEC 61131-2 (147m/s^2, 3 times each in X, Y and Z directions)			
Operating atmosphere			No oily smoke, corrosive gas or combustible gas, less conductive dust, away from direct sunlight (the same in storage)			
Operating altitude※4			2000m or less			
Installation location			In control panel			
Overvoltage category※5			Ⅱ or lower			
Contamination level※6			2 or less			
Cooling method			Self-cooling			
Grounding			Type D grounding (100Ω or less). Connect to panel if unable to ground.			

※1 : The maximum operating ambient temperature should be 5°C lower than that shown in the table on the left when connecting to a MELSECNET/H communication unit (GT15-J71LP23-25 or GT15-J71BR13) or CC-Link communication unit (GT15-J61BT13).
※2 : Water bulb temperature for STN display type must be 39°C or lower.
※3 : Refer to the Communication Unit User's Manual for vibration resistance specifications when using the MELSECNET/10 communication unit (GT15-75J71LP23-Z or GT15-75J71BR13-Z) or CC-Link communication unit (GT15-75J61BT13-Z). (The specifications of communication units are different from those of the GOT main unit.)
※4 : Do not operate or store the GOT unit in pressurized environments where the pressure exceeds 0m elevation atmospheric pressure, as this could result in abnormal operation.
Do not pressurize inside the control panel for air purge cleaning. The pressure could raise the surface sheet, making the touch panel difficult to operate or causing the sheet to come off.
※5 : Assuming that the device is connected at some point between a public power distribution network and local system equipment.
Category Ⅱ applies to devices that are supplied with power from fixed equipment. The surge withstand voltage is 2,500V for devices with ratings up to 300V.
※6 : Index that indicates the level of foreign conductive matter in the operating environment of the device.
Contamination level 2 denotes an environment contaminated only by non-conductive matter which may, under certain conditions, become temporarily conductive due to condensation.

Do not use or store the GOT under direct sun light or in an environment with excessively high temperature, dust, humidity or vibration.

For inquiries relating to products which conform to UL, cUL, and CE directives and shipping directives, please contact your local sales office.

Performance specifications

Item		Specification							
		GT1595-XTBA GT1595-XTBD	GT1585V-STBA GT1585V-STBD GT1585-STBA GT1585-STBD	GT1575V-STBA GT1575V-STBD GT1575-STBA GT1575-STBD	GT1575-VTBA GT1575-VTBD	GT1575-VNBA GT1575-VNBD	GT1572-VNBA GT1572-VNBD	GT1565-VTBA GT1565-VTBD	GT1562-VNBA GT1562-VNBD
Display※1	Type	TFT color LCD (high-brightness, wide viewing angle)				TFT color LCD		TFT color LCD (high-brightness, wide viewing angle)	TFT color LCD
	Screen size	15"	12.1"	10.4"				8.4"	
	Resolution	XGA: 1024 × 768 [dots]	SVGA: 800 × 600 [dots]	VGA: 640 × 480 [dots]					
	Display size	304.1(W) × 228.1(H) [mm]	246(W) × 184.5(H) [mm]	211(W) × 158(H) [mm]				171(W) × 128(H) [mm]	
	No. of displayed characters	16-dot standard font: 64 chars. × 48 lines (2-byte) 12-dot standard font: 85 chars. × 64 lines (2-byte)	16-dot standard font: 50 chars. × 37 lines (2-byte) 12-dot standard font: 66 chars. × 50 lines (2-byte)	16-dot standard font: 40 chars. × 30 lines (2-byte) 12-dot standard font: 53 chars. × 40 lines (2-byte)					
	Display colors	65,536 colors				256 colors	16 colors	65,536 colors	16 colors
	View angle※3	Right/left: 75°, Up: 50°, Down: 60°	GT1585V Right/left: 60°, Up: 40°, Down: 50° GT1585 Right/left: 65°, Up: 45°, Down: 55°	Right/left/up/down: 85°		Right/left: 45°, Up: 30°, Down: 20°		Right/left: 65°, Up: 50°, Down: 60°	Right/left: 45°, Up: 20°, Down: 20°
	Contrast adjustment	–							
	Intensity	450 [cd/m^2]	GT1585V: 350 [cd/m^2] GT1585: 400 [cd/m^2]	400 [cd/m^2]	380 [cd/m^2]	200 [cd/m^2]		380 [cd/m^2]	150 [cd/m^2]
	Intensity adjustment	8-step adjustment				4-step adjustment		8-step adjustment	4-step adjustment
	Life	Approx. 52,000 hours (operating ambient temperature: 25°C)	Approx. 50,000 hours (operating ambient temperature: 25°C)	Approx. 41,000 hours (operating ambient temperature: 25°C)					
Backlight		Cold-cathode fluorescent tube (replaceable), with backlight OFF detection function. Backlight off time and screen save time can be set.							
	Life※4	Approx. 50,000 hours or more	Approx. 40,000 hours or more						
		(Time for display intensity reaches 50% at operating ambient temperature of 25°C)							
Touch panel※9	Type	Analog resistive type	Matrix resistive type						
	No. of touch keys	–	1900 keys/screen (38 lines × 50 columns)	1200 keys/screen (30 lines × 40 columns)					
	Key size	Min. 2 × 2 [dots] (per key)	Min. 16 × 16 [dots] (per key) (16 × 8 only on lowermost line)	Min. 16 × 16 [dots] (per key)					
	No. of simultaneous touch points	Simultaneous touch prohibited※5 (1 point only)	Max. 2 points						
	Life	1,000,000 times or more (operating force 0.98N or less)※10							
Human sensor	Detection distance	1 [m]	–						
	Detection range	Right/left/up/down: 70°	–						
	Detection delay time	0 to 4 [sec]	–						
	Detection temperature	Temperature difference to be 4°C or more between human body and ambient air	–						
Memory※6	C drive	9MB built-in flash memory (for saving project data and OS)				5MB built-in flash memory (for saving project data and OS)		9MB built-in flash memory (for saving project data and OS)	5MB built-in flash memory (for saving projectdata and OS)
	Life (No. of writings)	100,000 times							
Battery		GT15-BAT type lithium battery (optional)							
	Backed up data	Clock data and maintenance time notification data							
	Life	Approx. 5 years (operating ambient temperature: 25°C)							
Built-in interface	RS-232※8	RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (male) Application: Communication with connected devices, connection to personal computer (project data read/write, OS installation, FA transparent function)							
	USB	USB (full-speed 12Mbps), device 1ch Connector shape: Mini-B Application: Connection to personal computer (project data read/write, OS installation, FA transparent function)							
	CF card	Compact flash slot, 1ch Connector shape: TYPE Ⅰ Application: Data transfer, data storage, GOT startup FAT16 format: max. 2GB, FAT32 format: not usable							
	Optional function board	1ch for optional function board installation							
	Extension unit※8	2ch for communication unit/optional unit installation							
Buzzer output		Single tone (tone length adjustable)							
Protective construction		Front: IP67f※7 In panel: IP2X							
External dimensions (without USB port cover)		397(W) × 296(H) × 61(D) [mm]	316(W) × 242(H) × 52(D) [mm]	303(W) × 214(H) × 49(D) [mm]				241(W) × 190(H) × 52(D) [mm]	
Panel cut dimensions		383.5(W) × 282.5(H) [mm]	302(W) × 228(H) [mm]	289(W) × 200(H) [mm]				227(W) × 176(H) [mm]	
Weight (excl. mounting brackets)		5.0 [kg]	2.8 [kg]	GT1575V: 2.3 [kg] GT1575: 2.4 [kg]	2.4 [kg]	2.3 [kg]		1.9 [kg]	
Applicable software package		GT Works3 Version1.31H or later							

Power supply specifications

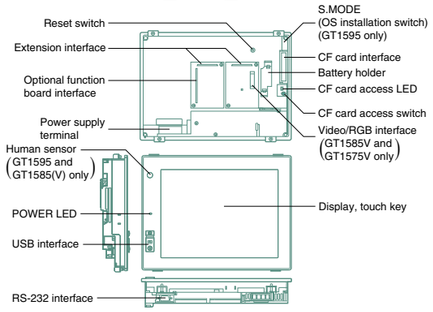
Item	Specification								
	GT1595-XTBA	GT1585V-STBA GT1585-STBA	GT1575V-STBA GT1575-STBA GT1575-VTBA GT1575-VNBA GT1572-VNBA GT1565-VTBA GT1562-VNBA	GT1595-XTBD	GT1585V-STBD GT1585-STBD	GT1575V-STBD GT1575-STBD GT1575-VTBD GT1575-VNBD GT1572-VNBD GT1565-VTBD GT1562-VNBD	GT1555-VTBD	GT1555-QTBD	GT1555-QSBD	GT1550-QLBD
Input power supply voltage	100 to 240VAC (+10%, -15%)			24VDC (+25%, -20%)						
Input frequency	50/60Hz ±5%			–						
Input maximum apparent power	110VA (at max. load)			–						
Power consumption	56W or less	41W or less	39W or less	57W or less (2380mA/24VDC)	43W or less (1790mA/24VDC)	41W or less (1710mA/24VDC)	19W or less (790mA/24VDC)	18W or less (750mA/24VDC)	17W or less (710mA/24VDC)	15W or less (620mA/24VDC)
With backlight off	30W or less	28W or less	28W or less	32W or less (1330mA/24VDC)	30W or less (1250mA/24VDC)	30W or less (1250mA/24VDC)	14W or less (580mA/24VDC)	13W or less (540mA/24VDC)		
Inrush current	50A or less (4ms, at max. load)	45A or less (4ms, at max. load)	40A or less (4ms, at max. load)	100A or less (4ms, at max. load)	115A or less (1ms, at max. load)	115A or less (1ms, at max. load)	67A or less (1ms, at max. load)	60A or less (1ms, at max. load)		
Permissible instantaneous failure time	Within 20ms (100VAC or more)			Within 10ms						
Noise resistance	Noise voltage 1500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz			Noise voltage 500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz						
Withstand voltage	1500VAC for 1 minute between power supply terminal and ground			500VDC for 1 minute between power supply terminal and ground						
Insulation resistance	10MΩ or higher with an insulation resistance tester (500VDC between power supply terminal and ground)									
Applicable wire size	0.75 to 2 [mm^2]									
Clamp terminal	Clamp terminals for M3 screw RAV1.25-3, V2-S3.3, V2-N3A, FV2-N3A									
Tightening torque (terminal block's terminal screws)	0.5 to 0.8 [N·m]									

Performance specifications

Item		Specification			
		GT1555-VTBD	GT1555-QTBD	GT1555-QSBD	GT1550-QLBD
Display※1※2	Type	TFT color LCD (high-brightness, wide viewing angle)		STN color LCD	STN monochrome (black/white) LCD
	Screen size	5.7"			
	Resolution	VGA: 640 × 480 [dots]	QVGA: 320 × 240 [dots]		
	Display size	115(W) × 86(H) [mm]			
	No. of displayed characters	16-dot standard font: 40 chars. × 30 lines (2-byte) 12-dot standard font: 53 chars. × 40 lines (2-byte)	16-dot standard font: 20 chars. × 15 lines (2-byte) 12-dot standard font: 26 chars. × 20 lines (2-byte)		
	Display colors	65,536 colors		4,096 colors	Monochrome 16 gray scale
	View angle※3	Right/left: 80°, Up: 80°, Down: 70°	Right/left: 70°, Up: 70°, Down: 50°	Right/left: 55°, Up: 65°, Down: 70°	Right/left: 45°, Up: 20°, Down: 40°
	Contrast adjustment	–		16-step adjustment	
	Intensity	350 [cd/m^2]	400 [cd/m^2]	380 [cd/m^2]	220 [cd/m^2]
	Intensity adjustment	8-step adjustment			
	Life	Approx. 50,000 hours (operating ambient temperature: 25°C)			
Backlight		Cold-cathode fluorescent tube (not replaceable), with backlight OFF detection function. Backlight off time and screen save time can be set.			
	Life※4	Approx. 75,000 hours or more			Approx. 58,000 hours or more
		(Time for display intensity reaches 50% at operating ambient temperature of 25°C)			
Touch panel※9	Type	Matrix resistive type			
	No. of touch keys	1200 keys/screen (30 lines × 40 columns)	300 keys/screen (15 lines × 20 columns)		
	Key size	Min. 16 × 16 [dots] (per key)			
	No. of simultaneous touch points	Max. 2 points			
	Life	1,000,000 times or more (operating force 0.98N or less)			
Human sensor	Detection distance	–			
	Detection range	–			
	Detection delay time	–			
	Detection temperature	–			
Memory※6	C drive	9MB built-in flash memory (for saving project data and OS)			
	Life (No. of writings)	100,000 times			
Battery		GT15-BAT type lithium battery (optional)			
	Backed up data	Clock data and maintenance time notification data			
	Life	Approx. 5 years (operating ambient temperature: 25°C)			
Built-in interface	RS-232※8	RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (male) Application: Communication with connected devices, connection to personal computer (project data read/write, OS installation, FA transparent function)			
	USB	USB (full-speed 12Mbps), device 1ch Connector shape: Mini-B Application: Connection to personal computer (project data read/write, OS installation, FA transparent function)			
	CF card	Compact flash slot, 1ch Connector shape: TYPE Ⅰ Application: Data transfer, data storage, GOT startup FAT16 format: max. 2GB, FAT32 format: not usable			
	Optional function board	1ch for optional function board installation			
	Extension unit※8	1ch for communication unit/optional unit installation			
Buzzer output		Single tone (tone length adjustable)			
Protective construction		Front: IP67f※7 In panel: IP2X			
External dimensions (without USB port cover)		167(W) × 135(H) × 60(D) [mm]			
Panel cut dimensions		153(W) × 121(H) [mm]			
Weight (excl. mounting brackets)		1.1 [kg]			
Applicable software package		GT Works3 Version1.31H or later			

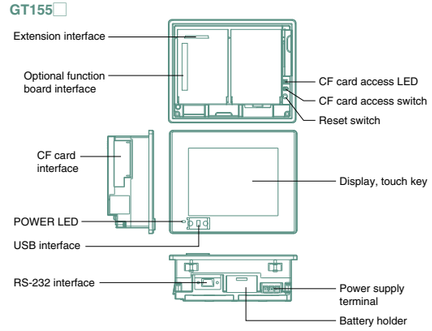
Component names

GT1595/GT1585/GT157□/GT156□



※ : This illustration shows GT1585V-STBA.

GT155□



※1 : On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear.
Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero.
Note that the existence of bright and black dots is a standard characteristic of LCD screens, and it does not mean that the products are defective or damaged.
※2 : Flickering may occur depending on the display colors.
※3 : LC panels have characteristics of tone reversal. Note that even within the indicated view angles, the screen display may not be clear enough depending on the display color.
※4 : Using the GOT screen save/backlight OFF functions prevents screen burn-in and extends the backlight life.
※5 : An analog resistive touch display is used. When 2 points on the screen are touched simultaneously, if a switch is located the middle of the 2 points then the switch will be activated. Therefore, avoid touching 2 points on the screen simultaneously.
※6 : The memory is ROM that permits overwriting of new data without having to delete the existing data.
※7 : IP67f is supported when the USB environmentally protective cover is on. (The USB interface conforms to IP2X when a USB cable is connected.) However, this does not guarantee protection in all users' environments.
The unit may not be used in an environment where it is exposed to splashing oil or chemicals for a long time or it is soaked with oil mist.
※8 : Where more than one extension unit, barcode reader, and RFID controller are used, the sum of their current consumptions should be within the current level which the GOT can supply. For the currents which the extension units, barcode reader, and RFID controller consume and the current level which the GOT can supply, see "Notes for use" (page 81).
※9 : If necessary, use a stylus pen meeting the following specifications.
• Material: Polyacetal resin • Pen point radius: 0.8mm or more
※10: When using a stylus pen with GT1595-XTB□, it will be 100,000 times or more (operating force 0.98N max.). Since the touch panel is a consumable product structurally, it may not be used even fewer than above, depending on the usage method and environment.

Specifications

GT12

General specifications

Item			Specification			
Operating ambient temperature	Display		0°C to 50°C			
	Other than display		0°C to 55°C			
Storage ambient temperature			-20°C to 60°C			
Operating ambient humidity			10 to 90%RH, no condensation			
Storage ambient humidity			10 to 90%RH, no condensation			
Vibration resistance	Conforming to JIS B 3502 and IEC 61131-2		Frequency	Acceleration	Half amplitude	Sweep count
		Under intermittent vibration	5 to 8.4Hz	–	3.5mm	10 times each in X, Y and Z directions
			8.4 to 150Hz	9.8m/s^2	–	
		Under continuous vibration	5 to 8.4Hz	–	1.75mm	–
			8.4 to 150Hz	4.9m/s^2	–	
Impact resistance			Conforming to JIS B 3502 and IEC 61131-2 (147m/s^2, 3 times each in X, Y and Z directions)			
Operating atmosphere			No oily smoke, corrosive gas or combustible gas, less conductive dust, away from direct sunlight (the same in storage)			
Operating altitude*1			2,000m or lower			
Installation location			In control panel			
Overvoltage category*2			Ⅱ or lower			
Contamination level*3			2 or less			
Cooling method			Self-cooling			
Grounding			Type D grounding (100Ω or less). Connect to panel if unable to ground.			

*1 : Do not operate or store the GOT unit in pressurized environments where the pressure exceeds 0 m elevation atmospheric pressure, as this could result in abnormal operation.
Do not pressurize inside the control panel for air purge cleaning. The pressure could raise the surface sheet, making the touch panel difficult to operate or causing the sheet to come off.
*2 : Assuming that the device is connected at some point between a public power distribution network and local system equipment. Category Ⅱ applies to devices that are supplied with power from fixed equipment. The surge withstand voltage is 2,500V for devices with ratings up to 300V.
*3 : Index that indicates the level of foreign conductive matter in the operating environment of the device. Contamination level 2 denotes an environment contaminated only by non-conductive matter which may, under certain conditions, become temporarily conductive due to condensation.

Do not use or store the GOT under direct sun light or in an environment with excessively high temperature, dust, humidity or vibration.

For inquiries relating to products which conform to UL, cUL, and CE directives and shipping directives, please contact your local sales office.

Performance specifications

Item		Specification	
		GT1275-VNBA GT1275-VNBD	GT1265-VNBA GT1265-VNBD
Display *1	Type	TFT color LCD	
	Screen size	10.4"	8.4"
	Resolution	VGA: 640 × 480 [dots]	
	Display size	211.2(W) × 158.4(H) [mm]	170.9(W) × 128.2(H) [mm]
	No. of displayed characters	16-dot standard font: 40 chars. × 30 lines (2-byte) 12-dot standard font: 53 chars. × 40 lines (2-byte)	
	Display colors	256 colors	
	View angle*2	Right/left: 45°, Up/down: 20°	
	Intensity	200 [cd/m^2]	
	Intensity adjustment	4-step adjustment	
	Life	Approx. 52,000 hours (operating ambient temperature: 25°C)	
Backlight		Cold-cathode fluorescent tube (replaceable), 1CCFL light	
	Life*3	50,000 hours or more (at standard lamp current = 6.0 [mA])	40,000 hours or more (at standard lamp current = 7.0 [mA])
		(Time for display intensity reaches 50% at operating ambient temperature of 25˚C)	
Touch panel *7	Type	Analog resistive type	
	Key size	Min. 2 × 2 [dots] (per key)	
	No. of simultaneous touch points	Simultaneous touch prohibited*4 (1 point only)	
	Life*8	1,000,000 times or more (operating force 0.98N or less)	
Human sensor	Detection distance	–	
	Detection range	–	
	Detection delay time	–	
	Detection temperature	–	
Memory *5	C drive	6MB built-in flash memory (for saving project data and OS)	
	Life (No. of writings)	100,000 times	
Battery		GT11-50BAT type lithium battery (optional)	
	Backed up data	Clock data, alarm history, and recipe data	
	Life	Approx. 5 years (operating ambient temperature: 25°C)	
Built-in interface	RS-232*6	RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (male) Application: Communication with connected devices, connection to personal computer (project data read/write, OS installation, FA transparent function)	
	RS-422/485	RS-422/485, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (female) Application: Communication with connected devices	
	Ethernet	Data transfer system: 100BASE-TX, 1ch Connector shape: RJ-45 (modular jack) Application: Communication with connected devices, connection to personal computer (project data read/write, OS installation, FA transparent)	
	USB	USB (Full Speed 12 Mbps), device 1ch Connector shape: Mini-B Application: Connection to personal computer (project data read/write, OS installation, FA transparent function)	
	CF card	Compact flash slot, 1ch Connector shape: TYPE Ⅰ Application: Data transfer, data storage, GOT startup FAT16 format: max. 2GB, FAT32 format: not usable	
	Optional function board	–	
	Extension unit*6	–	
Buzzer output		Single tone (tone length adjustable)	
Protective construction		IP67f	
External dimensions		303(W) × 214(H) × 53(D)	241(W) × 190(H) × 58(D)
Panel cut dimensions		289(W) × 200(H) [mm]	227(W) × 176(H) [mm]
Weight (excl. mounting brackets)		2.3 [kg]	1.7 [kg]
Applicable software package		GT Works3 Version1.31H or later	

*1 : On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear. Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero. Note that the existence of bright and black dots is a standard characteristic of LCD screens, and it does not mean that the products are defective or damaged.
*2 : LCD panels have characteristics of tone reversal. Note that even within the indicated view angles, the screen display may not be clear enough depending on the display color.
*3 : Using the GOT screen save/backlight OFF functions prevents screen burn-in and extends the backlight life.
*4 : An analog resistive touch display is used. When 2 points on the screen are touched simultaneously, if a switch is located the middle of the 2 points then the switch will be activated. Therefore, avoid touching 2 points on the screen simultaneously.
*5 : The memory is a ROM that permits overwriting of new data without having to delete the existing data.
*6 : Where more than one extension unit, barcode reader, and RFID controller are used, the sum of their current consumptions should be within the current level which the GOT can supply.
For the currents which the extension units, barcode reader, and RFID controller consume and the current level which the GOT can supply, see "Notes for use" (page 81).
*7 : If necessary, use a stylus pen meeting the following specifications.
• Material: Polyacetal resin • Pen point radius: 0.8mm or more
*8 : When using a stylus pen, it will be 100,000 times or more (operating force 0.98N max.).
Since the touch panel is a consumable product structurally, it may not be used even fewer than above, depending on the usage method and environment.

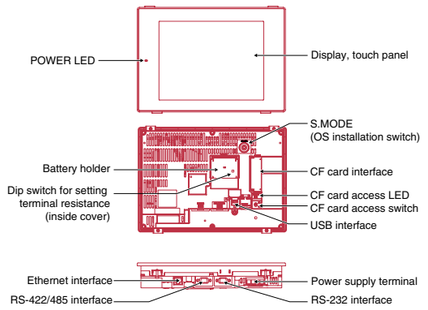
Power supply specifications

Item	Specification	
	GT1265/75-VNBA	GT1265/75-VNBD
Input power supply voltage	100 to 240VAC (+10%, -15%)	24VDC (+25%, -20%)
Input frequency	50/60Hz ±5%	–
Input maximum apparent power	44VA (at max. load)	–
Power consumption	18W or less	11W or less
With backlight off	15W or less	6W or less
Inrush current	40A or less (4ms, at max. load)	29A or less (2ms, at max. load)
Permissible instantaneous failure time	Within 20ms (100VAC or more)	Within 10ms
Noise resistance	Noise voltage 1500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz	Noise voltage 500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz
Withstand voltage*1	1500VAC for 1 minute between power supply terminal and ground	500VDC for 1 minute between power supply terminal and ground
Insulation resistance*1	10MΩ or higher with an insulation resistance tester (500VDC between power supply terminal and ground)	
Applicable wire size	0.75 to 2 [mm^2]	
Clamp terminal	Clamp terminals for M3 screw RAV1.25-3, V2-S3.3, V2-N3A, FV2-N3A	
Tightening torque (terminal block's terminal screws)	0.5 to 0.8 [N-m]	

*1 : In DC type products, the surge absorber is connected between the power supply and the ground to avoid a malfunction due to noise caused by the application of lightning surge.
The values of the dielectric withstand voltage and insulation resistance are recorded when the surge absorber is not connected.

Component names

GT1275/GT1265



Specifications

GT11 GT10

General specifications

Item		Specification					
Operating ambient temperature	Display	0°C to 50°C※5					
	Other than display	0°C to 55°C (horizontal installation), 0°C to 50°C (vertical installation)※5					
Storage ambient temperature		-20°C to 60°C					
Operating ambient humidity※1		10 to 90%RH, no condensation					
Storage ambient humidity※1		10 to 90%RH, no condensation					
Vibration resistance	Conforming to JIS B 3502 and IEC 61131-2		Frequency	Acceleration	Half amplitude	Sweep count	
		Under intermittent vibration	5 to 8.4Hz	–	3.5mm	10 times each in X, Y and Z directions	
			8.4 to 150Hz	9.8m/s²	–		
		Under continuous vibration	5 to 8.4Hz	–	1.75mm	–	
			8.4 to 150Hz	4.9m/s²	–		
Impact resistance		Conforming to JIS B 3502 and IEC 61131-2 (147m/s², 3 times each in X, Y and Z directions)					
Operating atmosphere		Free from oil mist, corrosive gases, flammable gases and excessive conductive dusts or direct sun beams (The same applies to unit storage.)					
Operating altitude※2		2000m or less					
Installation location		In control panel※6					
Overvoltage category※3		Ⅱ or lower					
Contamination level※4		2 or less					
Cooling method		Self-cooling					
Grounding		Type D grounding (100Ω or less). Connect to panel if unable to ground.※7					

※1 : Water bulb temperature for STN display type must be 39°C or lower.
※2 : Do not operate or store the GOT unit in pressurized environments where the pressure exceeds 0m elevation atmospheric pressure, as this could result in abnormal operation.
※3 : Assuming that the device is connected at some point between a public power distribution network and local system equipment. Category Ⅱ applies to devices that are supplied with power from fixed equipment. The surge withstand voltage is 2500V for devices with ratings up to 300V.
※4 : Index that indicates the level of foreign conductive matter in the operating environment of the device. Contamination level 2 denotes contamination by non-conductive matter only, though momentary conductivity may occur due to occasional condensation.
※5 : 0 to 40°C for GT115□HS
※6 : Excluding GT115□HS
※7 : The 5VDC type requires no grounding.

Do not use or store the GOT under direct sun light or in an environment with excessively high temperature, dust, humidity or vibration.

For inquiries relating to products which conform to UL, cUL, and CE directives and shipping directives, please contact your local sales office.

Performance specifications

Item		Specification							
		GT1155-QTBD	GT1155-QSBD	GT1150-QLBD	GT1155-QTBDQ GT1155-QTBDA	GT1155-QSBDQ GT1155-QSBDA	GT1150-QLBDQ GT1150-QLBDA	GT1155HS-QSBD	GT1150HS-QLBD
Display※1	Type	TFT color LCD	STN color LCD	STN monochrome (black/white) LCD	TFT color LCD	STN color LCD	STN monochrome (black/white) LCD	STN color LCD	STN monochrome (black/white) LCD
	Screen size	5.7"							
	Resolution	QVGA: 320 × 240 [dots]							
	Display size	115(W) × 86(H) [mm] (in horizontal display mode)			115(W) × 86(H) [mm] (in horizontal display mode)			115(W) × 86(H) [mm]	
	No. of displayed characters	16-dot standard font: 20 chars. × 15 lines (2-byte) 12-dot standard font: 26 chars. × 20 lines (2-byte) (in horizontal display mode)							
	Display colors	256 colors		Monochrome (black/white) 16 gray scale	256 colors		Monochrome (black/white) 16 gray scale	256 colors	Monochrome (black/white) 16 gray scale
	View angle	Right/left: 70°, Up: 70°, Down: 50° (in horizontal display mode)	• Right/left: 50°, Up: 50°, Down: 60° (Hardware versions A and B) (In horizontal display mode) • Right/left: 55°, Up: 65°, Down: 70° (Hardware version C or later) (In horizontal display mode)	Right/left: 45°, Up: 20°, Down: 40° (in horizontal display mode)	Right/left: 70°, Up: 70°, Down: 50° (in horizontal display mode)	Right/left: 55°, Up: 65°, Down: 70° (in horizontal display mode)	Right/left: 45°, Up: 20°, Down: 40° (in horizontal display mode)	• Right/left: 50°, Up: 50°, Down: 60° (Hardware versions A and B) • Right/left: 55°, Up: 65°, Down: 70° (Hardware version C or later)	Right/left: 45°, Up: 20°, Down: 40°
	Contrast adjustment	–	16-step adjustment		–	16-step adjustment			
	Intensity	400 [cd/m²]	• 350 [cd/m²] (Hardware versions A and B) • 380 [cd/m²] (Hardware version C or later)	220 [cd/m²]	400 [cd/m²]	380 [cd/m²]	220 [cd/m²]	• 350 [cd/m²] (Hardware versions A and B) • 380 [cd/m²] (Hardware version C or later)	220 [cd/m²]
	Intensity adjustment	8-step adjustment							
	Life	Approx. 50,000 hours (operating ambient temperature: 25°C)							
Backlight		Cold-cathode fluorescent tube (not replaceable), with backlight OFF detection function. Backlight off time and screen save time can be set.							
	Life※2	Approx. 75,000 hours or more		Approx. 54,000 hours or more	Approx. 75,000 hours or more		Approx. 54,000 hours or more	Approx. 75,000 hours or more	Approx. 54,000 hours or more
		(Time for display intensity reaches 50% at operating ambient temperature of 25°C)							
Touch panel	Type	Matrix resistive type							
	No. of touch keys	300 keys/screen (matrix consisting of 15 lines × 20 columns)							
	Key size	Min. 16 × 16 [dots] (per key)							
	No. of simultaneous touch points	Max. 2 points							
	Life	1,000,000 times or more (operating force 0.98N or less)							
Memory	C drive※3	3MB built-in flash memory (for saving project data and OS)							
	Life (No. of writings)	100,000 times							
	D drive	512KB built-in SRAM (battery backup)							
Battery		GT11-50BAT type lithium battery							
	Backed up data	Clock data, alarm history, recipe data, time action set values							
	Life	Replacement guideline approx. 5 years (operating ambient temperature: 25°C)							
Built-in interface	Bus	–			1ch for QCPU (Q mode)/motion controller CPU (Q series) or 1ch for QnA/ACPU/motion controller CPU (A series) Application: For bus connection of PLC			–	
	RS-422/485	RS-422/485, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (female) Application: Communication with PLCs Terminal resistance※5: OPEN/110Ω/330Ω (switching by terminal resistance transfer switch)			–			–	
	RS-422/232	–			–			RS-422/232, 1ch (Select one when using.) Transmission speed: 115200/ 57600/38400/19200/9600/4800bps Connector shape: Round type, 32-pin (male) Application: Communication with connected devices	
	RS-232	RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (male) Application: Communication with connected devices, connection to personal computer (project data read/write, OS installation, FA transparent function, etc.)			RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (male) Application: Connection to barcode reader/personal computer (project data read/write, OS installation, FA transparent function, etc.)			RS-232, 1ch, Transmission speed: 115200/ 57600/38400/19200/9600/4800bps Connector shape: Mini-DIN 6-pin (female) Application: Connection to personal computer (project data read/write, OS installation, FA transparent function, etc.)	
	USB	USB (full-speed 12Mbps), device 1ch Connector shape: Mini-B Application: Connection to personal computer (project data read/write, OS installation, FA transparent function)							
	CF card	Compact flash slot, 1ch Connector shape: TYPE Ⅰ Application: Data transfer, data storage, GOT startup FAT16 format: max. 2GB, FAT32 format: not usable							
	Optional function board	Embedded in main unit							
Buzzer output		Single tone (tone length adjustable)							
Protective construction※4		Front: IP67f In panel: IP2X			Front: IP67f In panel: IP2X			IP65f (when external connection cable is connected)	
External dimensions (without USB port cover)		164(W) × 135(H) × 56(D) [mm]			167(W) × 135(H) × 65(D) [mm]			176(W) × 220(H) × 93(D) [mm]	
Panel cut dimensions		153(W) × 121(H) [mm]			153(W) × 121(H) [mm]			–	
Weight		0.7 [kg] (excl. mounting brackets)			0.9 [kg] (excl. mounting brackets)			1.0 [kg] (main unit only)	
Applicable software package		GT Works3 Version1.31H or later							

Power supply specifications

Item	Specification								
	GT1155-QTBD GT1155-QSBD GT1155HS-QSBD	GT1150-QLBD GT1150HS-QLBD	GT1155-QTBDQ GT1155-QTBDA	GT1155-QSBDQ GT1155-QSBDA	GT1150-QLBDQ GT1150-QLBDA	GT1055-QSBD	GT1050-QBBD	GT1045-QSBD	GT1040-QBBD
Input power supply voltage	24VDC (+10%, -15%), ripple voltage of 200mV or less								
Input frequency	–								
Input maximum apparent power	–								
Power consumption	9.84W or less (410mA/24VDC)	9.36W or less (390mA/24VDC)	11.16W or less (465mA/24VDC)	9.72W or less (405mA/24VDC)	7.92W or less (330mA/24VDC)	9.84W or less (410mA/24VDC)	9.36W or less (390mA/24VDC)	3.6W or less (150mA/24VDC)	
With backlight off	4.32W or less (180mA/24VDC)		5.04W or less (210mA/24VDC)			4.32W or less (180mA/24VDC)		2.9W or less (120mA/24VDC)	
Inrush current	15A or less (2ms, at max. load)		26A or less (4ms, at max. load)			15A or less (26.4V) 2ms			
Permissible instantaneous failure time	Within 5ms		Within 10ms			Within 5ms			
Noise resistance	Noise voltage 1000Vp-p, noise width 1µs by noise simulator with noise frequency 30 to 100Hz		Noise voltage 500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz			Noise voltage 1000Vp-p, noise width 1µs by noise simulator with noise frequency 30 to 100Hz			
Withstand voltage	500VAC for 1 minute between power supply terminal and ground								
Insulation resistance	10MΩ or higher with an insulation resistance tester (500VDC between power supply terminal and ground)								
Applicable wire size	0.75 to 2 [mm²]※1							Single-wire installation: 0.14 to 1.5 [mm²], AWG26 to AWG16 (single wire) 0.14 to 1.0 [mm²], AWG26 to AWG16 (stranded wire) 0.25 to 0.5 [mm²], AWG24 to AWG20 (bar terminal with insulation sleeve) Two-wire installation: 0.14 to 0.5 [mm²], AWG26 to AWG20 (single wire) 0.14 to 0.2 [mm²], AWG26 to AWG24 (stranded wire)	
Clamp terminal	Clamp terminals for M3 screw RAV1.25-3, V2-N3A, FV2-N3A※1							AI2.5-6BU, AI0.34-6TQ, AI0.5-6WH (made by Phoenix Contact)	
Tightening torque (terminal block's terminal screws)	0.5 to 0.8 [N·m]※1							0.22 to 0.25 [N·m]	

※1 : Excluding GT115□HS

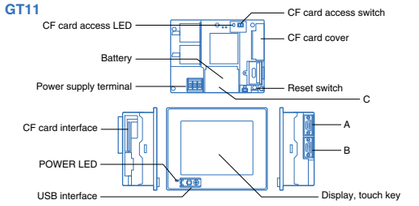
Performance specifications

Item		Specification			
		GT1055-QSBD	GT1050-QBBD	GT1045-QSBD	GT1040-QBBD
Display※1	Type	STN color LCD	STN monochrome (blue/white) LCD	STN color LCD	STN monochrome (blue/white) LCD
	Screen size	5.7"		4.7"	
	Resolution	QVGA: 320 × 240 [dots]			
	Display size	115(W) × 86(H) [mm] (in horizontal display mode)		96(W) × 72(H) [mm] (in horizontal display mode)	
	No. of displayed characters	16-dot standard font: 20 chars. × 15 lines (2-byte), 12-dot standard font: 26 chars. × 20 lines (2-byte) (in horizontal display mode)			
	Display colors	256 colors	Monochrome (blue/white) 16 gray scale	256 colors	Monochrome (blue/white) 16 gray scale
	View angle	Right/left: 55°, Up: 65°, Down: 70° (in horizontal display mode)	Right/left: 45°, Up: 20°, Down: 40° (in horizontal display mode)	Right/left: 50°, Up: 40°, Down: 70° (in horizontal display mode)	Right/left: 45°, Up: 20°, Down: 40° (in horizontal display mode)
	Contrast adjustment	16-step adjustment			
	Intensity	380 [cd/m²]	260 [cd/m²]	150 [cd/m²]	300 [cd/m²]
	Life	Approx. 50,000 hours (Time for display contrast reaches 20% at operating ambient temperature of 25°C)			
Backlight		Cold-cathode fluorescent tube (not replaceable) with backlight OFF detection function. Backlight off time and screen save time can be set.		LED (no need to replace) Backlight off time and screen save time can be set.	
	Life※2	Approx. 75,000 hours or more	Approx. 54,000 hours or more	–	
		(Time for display intensity reaches 50% at operating ambient temperature of 25°C)		–	
Touch panel	Type	Matrix resistive type			
	No. of touch keys	Max. 50 keys/screen			
	Key size	Min. 16 × 16 [dots] (per key)			
	No. of simultaneous touch points	Max. 2 points			
	Life	1,000,000 times or more (operating force 0.98N or less)			
Memory	User memory※3	Built-in flash memory for saving project data (3 MB or less) and OS			
	Life (No. of writings)	100,000 times			
Battery		GT11-50BAT type lithium battery			
	Backed up data	Clock data, alarm history, recipe data, time action set values			
	Life	Replacement guideline approx. 5 years (operating ambient temperature: 25°C)			
Built-in interface	RS-422/485	RS-422/485, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (female) Application: Communication with PLCs Terminal resistance※5: OPEN/110Ω/330Ω (switched by terminal resistance transfer switch)			
	RS-232	RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (male) Application: Communication with PLCs, connection with barcode readers, communication with personal computers (project data read/write, OS installation, transparent function)			
	USB	USB (full-speed 12Mbps), device 1ch Connector shape: Mini-B Application: Communication with personal computer (project data read/write, OS installation, transparent function)			
	Memory board	For installing memory board (GT10-50FMB) 1ch			
Buzzer output		Single tone (tone length adjustable/none)			
Protective construction※4		Conforming to IP67f (front panel)			
External dimensions		164(W) × 135(H) × 56(D)[mm]		139(W) × 112(H) × 41(D)[mm]	
Panel cut dimensions		153(W) × 121(H)[mm]		130(+1 -0)(W) × 103(+1 -0)(H)[mm]	
Weight (excl. mounting brackets)		0.7[kg]		0.45[kg]	
Applicable software package		GT Works3 Version1.31H or later			

※1 : On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear.
Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero.
Flickering may occur depending on the display colors.
Note that the existence of bright and black dots is a standard characteristic of LCD screens, and it does not mean that the products are defective or damaged.
Displaying one single screen for a long time can lead to burn-in, causing afterimages or image irregularities that could not disappear. Use the screen saver that is effective to prevent burn-in.
※2 : Using the GOT screen save/backlight OFF functions prevents screen burn-in and extends the backlight life.
※3 : The memory is ROM that permits overwriting of new data without having to delete the existing data.
※4 : This does not guarantee protection in all users' environments. The specification is not applied when the interface protective cover and rear face protective cover are removed. The unit may not be used in an environment where it is exposed to splashing oil or chemicals for a long time or it is soaked with oil mist.
※5 : In the case of GOT multi-drop connection, set the terminal resistance transfer switch on the GOT main unit according to the connection configuration.

Component names

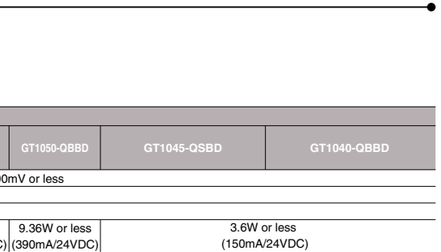
GT11



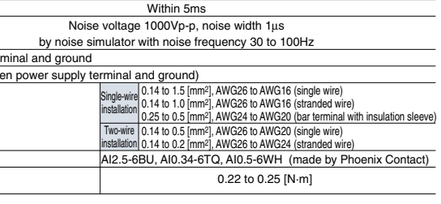
	GT115□-Q□BD	GT115□-Q□BDQ GT115□-Q□BDA
A	RS-232 interface	Bus interface
B	RS-422 interface	RS-232 interface
C	Terminal resistance transfer switch (inside cover)	–

※ : GT115□-Q□BDQ and GT115□-Q□BDA do not have a reset switch.

GT115□HS (Handy)



GT105□



GT104□

Specifications

GT10

Power supply specifications

Item		Specification					
		GT1030-HBD GT1030-HWD GT1030-HBD2 GT1030-HWD2	GT1030-HBDW GT1030-HWDW GT1030-HBDW2 GT1030-HWDW2	GT1020-LBD GT1020-LWD GT1020-LBD2 GT1020-LWD2	GT1020-LBDW GT1020-LWDW GT1020-LBDW2 GT1020-LWDW2	GT1030-HBL GT1030-HWL GT1030-HBLW GT1030-HWLW	GT1020-LBL GT1020-LWL GT1020-LBLW GT1020-LWLW
Input power supply voltage		24VDC (+10%, -15%), ripple voltage of 200mV or less				5VDC (±5%), supplied from PLC communication cable	
Input frequency		–					
Input maximum apparent power		–					
Power consumption		2.2W or less (90mA/24VDC)		1.9W or less (80mA/24VDC)		1.1W or less (220mA/5VDC)	
	With backlight off	1.7W or less (70mA/24VDC)		1.2W or less (50mA/24VDC)		0.6W or less (120mA/5VDC)	
Inrush current		18A or less (26.4DCV) 1ms		13A or less (26.4DCV) 1ms		–	
Permissible instantaneous failure time		Within 5ms				–	
Noise resistance		Noise voltage 1000Vp-p, noise width 1μs by noise simulator with noise frequency 30 to 100Hz					
Withstand voltage		500VAC for 1 minute between power supply terminal and ground				–	
Insulation resistance		10MΩ or higher with an insulation resistance tester (500VDC between power supply terminal and ground)				–	
Applicable wire size	Single-wire installation	0.14 to 1.5mm², AWG26 to AWG16 (single wire), 0.14 to 1.0mm², AWG26 to AWG16 (stranded wire), 0.25 to 0.5mm², AWG24 to AWG20 (bar terminal with insulation sleeve)					
	Two-wire installation	0.14 to 0.5mm², AWG26 to AWG20 (single wire), 0.14 to 0.2mm², AWG26 to AWG24 (stranded wire)					
Clamp terminal		AI2.5-6BU, AI0.34-6TQ, AI0.5-6WH (made by Phoenix Contact)					
Tightening torque (terminal block's terminal screws)		0.22 to 0.25 [N·m]					

Do not use or store the GOT under direct sun light or in an environment with excessively high temperature, dust, humidity or vibration.

For inquiries relating to products which conform to UL, cUL, and CE directives and shipping directives, please contact your local sales office.

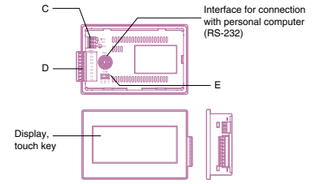
Performance specifications

Item		Specification							
		GT1030-HBD GT1030-HWD GT1030-HBL GT1030-HWL	GT1030-HBDW GT1030-HWDW GT1030-HBLW GT1030-HWLW	GT1030-HBD2 GT1030-HWD2	GT1030-HBDW2 GT1030-HWDW2	GT1020-LBD GT1020-LWD GT1020-LBL GT1020-LWL	GT1020-LBDW GT1020-LWDW GT1020-LBLW GT1020-LWLW	GT1020-LBD2 GT1020-LWD2	GT1020-LBDW2 GT1020-LWDW2
Display※1	Type	STN monochrome (black/white) LCD							
	Screen size	4.5"				3.7"			
	Resolution	288 × 96 [dots] (in horizontal mode)				160 × 64 [dots] (in horizontal mode)			
	Display size	109.42(W) × 35.98(H)[mm](in horizontal mode)				86.4(W) × 34.5(H)[mm](in horizontal mode)			
	No. of displayed characters	16-dot standard font: 36 chars. × 6 lines (1-byte) or 18 chars. × 6 lines (2-byte) (in horizontal mode) 12-dot standard font: 48 chars. × 8 lines (1-byte) or 24 chars. × 8 lines (2-byte) (in horizontal mode)				16-dot standard font: 20 chars. × 4 lines (1-byte) or 10 chars. × 4 lines (2-byte) (in horizontal mode)			
	Display colors	Monochrome (black/white)							
	View angle	Right/left: 30°, Up: 20°, Down: 30°(in horizontal display mode)							
	Contrast adjustment	16-step adjustment							
	Intensity	200 [cd/m²] (in green)	500 [cd/m²] (in white)	200 [cd/m²] (in green)	500 [cd/m²] (in white)	200 [cd/m²] (in green)	300 [cd/m²] (in white)	200 [cd/m²] (in green)	300 [cd/m²] (in white)
	Intensity adjustment	8-step adjustment				–			
	Life	Approx. 50,000 hours (Time for display contrast reaches 20% at operating ambient temperature of 25°C)							
Backlight	Color	3-color LED (green, orange and red) (no need to replace)	3-color LED (white, pink and red) (no need to replace)	3-color LED (green, orange and red) (no need to replace)	3-color LED (white, pink and red) (no need to replace)	3-color LED (green, orange and red) (no need to replace)	3-color LED (white, pink and red) (no need to replace)	3-color LED (green, orange and red) (no need to replace)	3-color LED (white, pink and red) (no need to replace)
	Function	Status control (color, on/flashing/off) is available and screen save time setting can be set. PLC can control color and status of backlight based on system information.							
Touch panel	Type	Matrix resistive type				Analog resistive type			
	No. of touch keys	Max. 50 keys/screen							
	Key size	Min. 16 × 16 [dots] (per key)				Min. 2 × 2 [dots] (per key)			
	No. of simultaneous touch points	Max. 2 points				Impossible (If there is a switch near the center of the pressed keys, the switch may function.)			
	Life	1,000,000 times or more (operating force 0.98N or less)							
Memory	User memory※2	Built-in flash memory for saving project data (1.5MB or less) and OS				Built-in flash memory for saving project data (512KB or less), OS, alarm history, recipe data, time action set values			
	Life (No. of writings)	100,000 times							
Battery		GT11-50BAT type lithium battery				–			
	Backed up data	Clock data, alarm history, recipe data, time action set values				–			
	Life	Replacement guideline approx. 5 years (operating ambient temperature: 25°C)				–			
Built-in interface	For communication with PLC	GT1030-HBD/HWD, GT1030-HBDW/HWDW RS-422/485, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: Connecter terminal block, 9-pin Application: Communication with PLC Terminal resistance※3: OPEN/110Ω/330Ω (switched by terminal resistance transfer switch)		RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: Connecter terminal block, 9-pin Application: Communication with PLC		GT1020-LBD/LWD, GT1020-LBDW/LWDW RS-422/485 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: Connector terminal block, 9-pin Application: Communication with PLC Terminal resistance※3: OPEN/110Ω/330Ω (switched by terminal resistance transfer switch)		RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: Connecter terminal block, 9-pin Application: Communication with PLC
		GT1030-HBL/HWL, GT1030-HBLW/HWLW RS-422, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: Connector terminal block, 9-pin Application: Communication with PLC				GT1020-LBL/LWL, GT1020-LBLW/LWLW RS-422 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: Connector terminal block, 9-pin Application: Communication with PLC			
	For communication with personal computer	RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: Mini DIN 6-pin (female) Application: Communication with personal computer (project data read/write, OS installation, transparent function)							
Buzzer output		Single tone (tone length adjustable/none)							
Protective construction※4		Conforming to IP67f (front panel)							
External dimensions		145(W) × 76(H) × 29.5(D)[mm]				113(W) × 74(H) × 27(D)[mm]			
Panel cut dimensions		137(W) × 66(H)[mm]				105(W) × 66(H)[mm]			
Weight		GT1030-H□D(W): 0.3kg (excl. mounting brackets)		0.3kg (excl. mounting brackets)		GT1020-L□D(W): 0.2kg (excl. mounting brackets)		0.2kg (excl. mounting brackets)	
		GT1030-H□L(W): 0.28kg (excl. mounting brackets)				GT1020-L□L(W): 0.18kg (excl. mounting brackets)			
Applicable software packages		GT Works3 Version1.31H or later (not supported GT Works2/GT Designer 2)				GT Works3 Version1.31H or later			

※1 : On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear.
Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero.
Flickering may occur depending on the display colors.
Note that the existence of bright and black dots is a standard characteristic of LCD screens, and it does not mean that the products are defective or damaged.
Displaying one single screen for a long time can lead to burn-in, causing afterimages or image irregularities that could not disappear. Use the screen saver that is effective to prevent burn-in.
※2 : The memory is ROM that permits overwriting of new data without having to delete the existing data.
※3 : In the case of GOT multi-drop connection, set the terminal resistance transfer switch on the GOT main unit according to the connection configuration.
※4 : This does not guarantee protection in all users' environments. The specification is not applied when the interface protective cover and rear face protective cover are removed.
The unit may not be used in an environment where it is exposed to splashing oil or chemicals for a long time or it is soaked with oil mist.

Component names

GT1030/GT1020



	GT1030-HBD GT1030-HWD GT1030-HBDW GT1030-HWDW GT1020-LBD GT1020-LWD GT1020-LBDW GT1020-LWDW	GT1030-HBL GT1030-HWL GT1030-HBLW GT1030-HWLW GT1020-LBL GT1020-LWL GT1020-LBLW GT1020-LWLW	GT1030-HBD2 GT1030-HWD2 GT1030-HBDW2 GT1030-HWDW2 GT1020-LBD2 GT1020-LWD2 GT1020-LBDW2 GT1020-LWDW2
C	Power supply terminal	–	Power supply terminal
D	RS-422 interface	RS-422 interface, Power supply terminal	RS-232 interface
E	Terminal resistance transfer switch	–	–

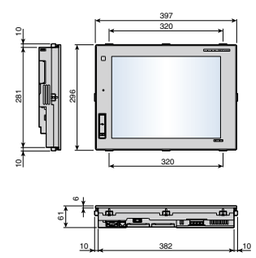
External dimensions

GOT main units

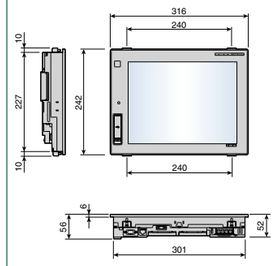
External dimensions

(Unit: mm)

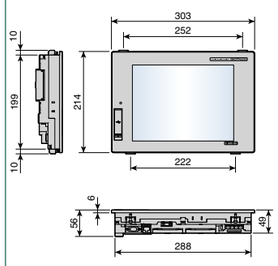
GT1695



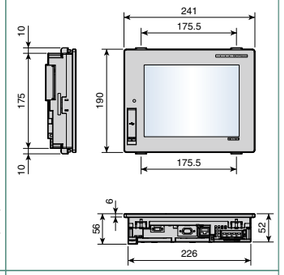
GT1685



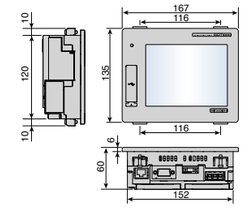
GT167□



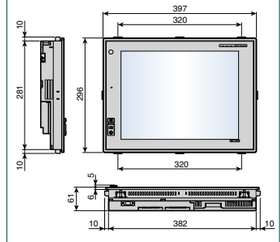
GT166□



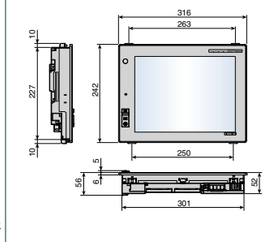
GT1655



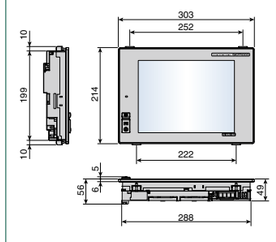
GT1595



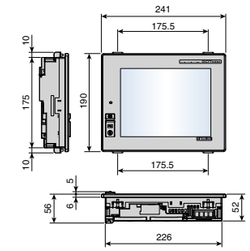
GT1585



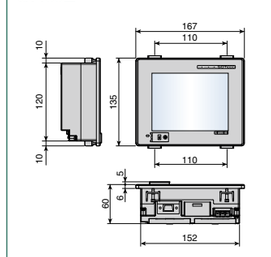
GT157□



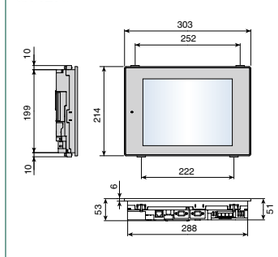
GT156□



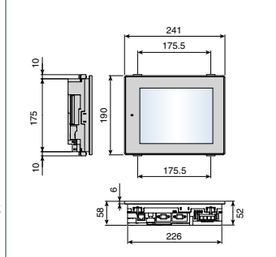
GT155□



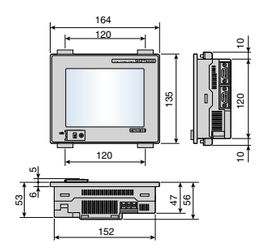
GT1275



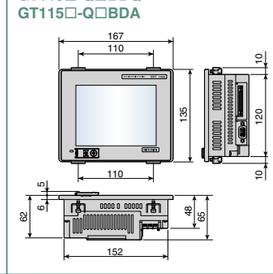
GT1265



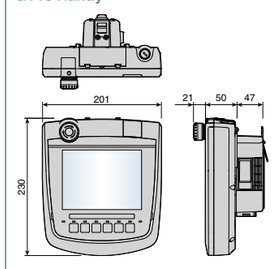
GT115□-Q□BD



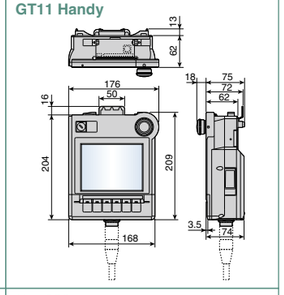
GT115□-Q□BDQ
GT115□-Q□BDA



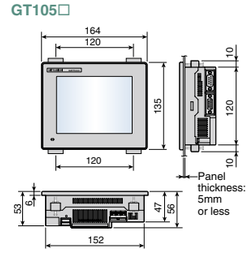
GT16 Handy



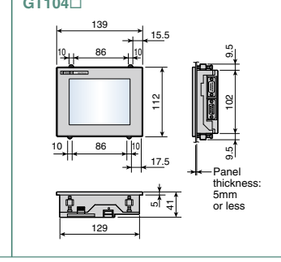
GT11 Handy



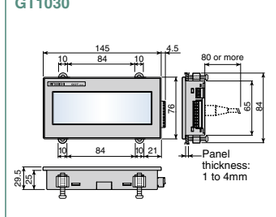
GT105□



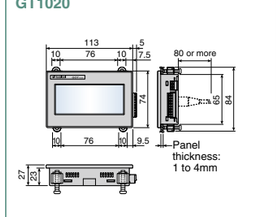
GT104□



GT1030



GT1020

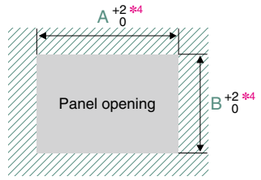


External dimensions

Panel cut dimensions

●When the GOT is installed (Unit: mm)

Screen size	Type of GOT main unit	A	B
15"	GT1695	383.5	282.5
	GT1595		
12.1"	GT1685※1	302	228
	GT1585※1		
10.4"	GT167□※2	289	200
	GT157□※2		
	GT1275		
8.4"	GT166□	227	176
	GT156□		
	GT1265		
5.7"	GT1655※3	153	121
	GT155□※3		
	GT115□※3		
	GT105□※3		
4.7"	GT104□	130	103
4.5"	GT1030	137	66
3.7"	GT1020	105	66



※1 : Same dimensions as A985GOT(-V)
※2 : Same dimensions as A975/970GOT(-B)
※3 : Same dimensions as F940GOT
※4 : For the GT104□, GT1030 and GT1020, the tolerances are +1/0.

●When the CF card extension unit (mounting unit on control panel) is installed

Type	A	B
GT15-CFEX-C08SET	94.0	33.0

●Cautions when installing and uninstalling
When installing the CF card extension unit on the control panel, make sure that the extension unit does not interfere with the extension unit cable or the CF card interface of the GOT. Place the CF card extension unit at a distance of 25mm or more from the GOT.
For installation locations, see the GT16 User's Manual (Hardware) or the GT15 User's Manual.

For compatibility with GOT900 series, see "Backward compatibility" (page 81).

Product installation spacing

The GOT must have the clearances from other devices as shown in [Fig. A]. The GOT may require more distance than the dimensions shown in the table depending on the types of connection cables. Consider the connector dimensions and cable bending radius when designing the installation.

●GT16/GT15 (Unit: mm)

	Item	GT1695	GT1685	GT167□	GT166□	GT1655	GT1595	GT1585	GT157□	GT156□	GT155□
A	GOT only	50 or more (20 or more)				61 or more	50 or more (20 or more)			50 or more (21 or more)	49 or more
	When a bus connection unit is installed	50 or more (20 or more)	50 or more (24 or more)	50 or more (33 or more)	50 or more (43 or more)	50 or more	50 or more (20 or more)		50 or more (35 or more)	50 or more (40 or more)	50 or more
	When a serial communication unit is installed	50 or more (20 or more)				49 or more	50 or more (20 or more)			50 or more (21 or more)	49 or more
	When a RS-422 conversion unit is installed	50 or more (20 or more)	50 or more (39 or more)	50 or more (48 or more)	58 or more	–	50 or more (20 or more)	50 or more (39 or more)	53 or more	58 or more	–
	When an Ethernet communication unit is installed	–				50 or more (20 or more)					
	When the CC-Link communication unit (GT15-J61BT13) is installed	50 or more (20 or more)				50 or more (24 or more)	50 or more (20 or more)				50 or more (24 or more)
	When a MELSECNET/H communication unit (coaxial) is installed	50 or more (20 or more)		50 or more (25 or more)	50 or more (35 or more)	64 or more	50 or more (20 or more)		50 or more (30 or more)	50 or more (35 or more)	64 or more
	When a MELSECNET/H communication unit (optical) is installed	50 or more (20 or more)※1	50 or more (23 or more)※1	50 or more (32 or more)※1	50 or more (42 or more)※1	79 or more	50 or more (20 or more)※1	50 or more (23 or more)※1	50 or more (37 or more)※1	50 or more (42 or more)※1	79 or more※1
	When a CC-link IE Controller Network communication unit is installed	50 or more (20 or more)				57 or more	50 or more (20 or more)		50 or more (23 or more)	50 or more (28 or more)	57 or more
	When a CC-link IE Field Network communication unit is installed	50 or more (20 or more)				57 or more	50 or more (20 or more)		50 or more (23 or more)	50 or more (29 or more)	57 or more
	When a printer unit is installed	50 or more (20 or more)				50 or more (29 or more)	50 or more (20 or more)				50 or more (29 or more)
	When a multimedia unit is installed	50 or more (20 or more)※2	61 or more※2	70 or more※2	80 or more※2	–					
	When a video input unit is installed	50 or more (20 or more)※2	61 or more※2	70 or more※2	80 or more※2	–	61 or more※2	75 or more※2		–	
	When a RGB input unit is installed	50 or more (20 or more)※3			50 or more (25 or more)※3	–	50 or more (20 or more)※3			–	
	When a video/RGB input unit is installed	50 or more (20 or more)※2 ※3	61 or more※2 ※3	70 or more※2 ※3	80 or more※2 ※3	–	61 or more※2 ※3	75 or more※2 ※3		–	
	When a RGB output unit is installed	50 or more (20 or more)※3			50 or more (25 or more)※3	–	50 or more (20 or more)※3			–	
	When a CF card unit is installed	50 or more (20 or more)									
	When a CF card extension unit is installed	50 or more (20 or more)	50 or more (49 or more)	58 or more	68 or more	50 or more	50 or more (20 or more)	50 or more (49 or more)	63 or more	68 or more	97 or more
	When an audio output unit is installed	50 or more (20 or more)				50 or more	50 or more (20 or more)				
	When an external input/output unit is installed	50 or more (20 or more)			50 or more (29 or more)	50 or more	50 or more (20 or more)		50 or more (24 or more)	50 or more (29 or more)	58 or more
B		80 or more (20 or more)									
C	(When a CF card is not used)	50 or more (20 or more)				50 or more (20 or more)※4	50 or more (20 or more)				
	(When a CF card is used)	50 or more (20 or more)				100 or more	50 or more (20 or more)				100 or more
D		50 or more (20 or more)									
E		100 or more (20 or more)									

※1 : The distance varies depending on the cable to be used. For details, consult your local sales office.
The values in the table are given for your reference only and may not reflect actual conditions.
※2 : The distances required when the coaxial cable 3C-2V (JIS C 3501) is used.
※3 : The distance varies depending on the cable to be used. When the bending radius of the cable is larger than the indicated value, keep a space appropriate to the bending radius.
※4 : When using a battery, the required dimension is greater than when using a CF card.

●GT12 (Unit: mm)

GOT main unit	A, D	B	C		E
			When CF card is not used	When CF card is used	
GT1275	50 or more	80 or more	50 or more	50 or more	100 or more
GT1265				100 or more	

●GT11 (Unit: mm)

GOT main unit	A, D	B	C		E
			When CF card is not used	When CF card is used	
GT1155 GT1150	50 or more (20 or more)	80 or more※1 (20 or more)	50 or more※2 (20 or more)	100 or more	100 or more (20 or more)

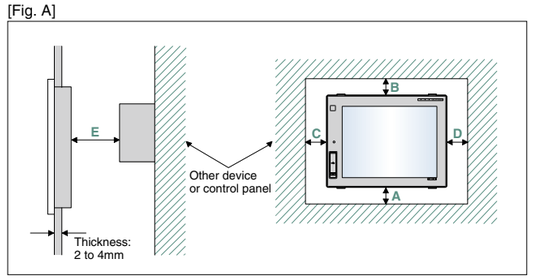
※1 : 50 or more (20 or more) in the case of vertical installation
※2 : 80 or more (20 or more) in the case of vertical installation

●GT10 (Unit: mm)

GOT main unit	A	B	C	D	E
GT105□ GT104□	50 or more (20 or more)	80 or more (20 or more)	50 or more (20 or more)	50 or more (20 or more)	100 or more (20 or more※3)
GT1030 GT1020	50 or more (20 or more※1)	50 or more (20 or more)	50 or more (20 or more)	50 or more	80 or more (20 or more※2)

※1 : 50 or more when a RS-232/USB conversion adapter is used.
※2 : 80 or more when a personal computer connection cable is used or when a personal computer RS-232 interface is used for connecting multiple GOTs.
50 or more when a RS-232 interface is used for using an RS-232/USB conversion adapter.
※3 : 80 or more when using a USB cable or a memory board.

[Fig. A]



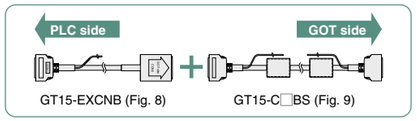
●Dimensions shown in parentheses apply when there are no devices nearby (contactor, etc.) which produce radiated noise or heat. Even with these dimensions, however, the ambient temperature must never exceed 55°C.
Depending on the unit and cable being used, a cable length longer than dimension A (or dimension D for the GT10) in above [Fig. A] may be required.

Bus connection cables

Cable model name	Cable length (L)	External dimensions
GT15-QC□B	0.6, 1.2, 3, 5, 10m	Fig. 1
GT15-QC□BS	15, 20, 25, 30, 35m	Fig. 1
GT15-C□NB	1.2, 3, 5m	Fig. 2
GT15-AC□B	0.6, 1.2, 3, 5m	Fig. 3
GT15-A370C□B-S1	1.2, 2.5m	Fig. 4
GT15-A370C□B	1.2, 2.5m	Fig. 5
GT15-A1SC□B	0.7, 1.2, 3, 5m	Fig. 6
GT15-A1SC□NB	0.45, 0.7, 3, 5m	Fig. 7
GT15-C□EXSS-1※1	10.6, 20.6, 30.6m	Figs. 8 & 9
GT15-EXCNB	0.5m	Fig. 8
GT15-C□BS	0.7, 1.2, 3, 5, 10, 20, 30m	Fig. 9
GT15-J2C10B	1m	Fig. 10

※1 : GT15-C□EXSS-1 is a set consisting of GT15-EXCNB and GT15-C□BS. (See Fig. A.)

[Fig. A]



RS-422 cables

Cable model name	Cable length (L)	External dimensions
GT16-C02R4-9S	0.2m	Fig. 11
GT01-C30R4-25P	3m	Fig. 12
GT01-C□R4-25P	10, 20, 30m	Fig. 13
GT01-C□R4-8P	1, 3, 10, 20, 30m	Fig. 14
GT10-C□R4-8P	1, 3, 10, 20, 30m	Fig. 15
GT10-C□R4-25P	3, 10, 20, 30m	Fig. 16
GT10-C10R4-8PL	1m	Fig. 17
GT10-C02H-9SC	0.2m	Fig. 18

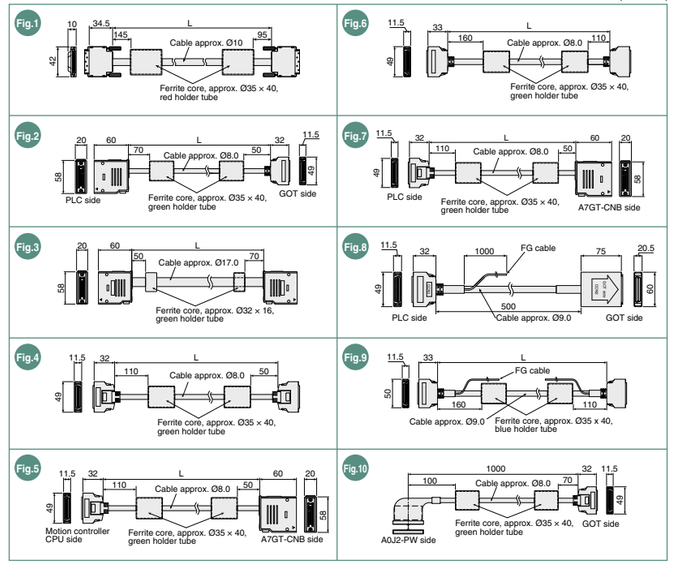
RS-232 cables

Cable model name	Cable length (L)	External dimensions
GT01-C30R2-6P	3m	Fig. 19
GT01-C30R2-9S	3m	Fig. 20
GT01-C30R2-25P	3m	Fig. 21
GT10-C30R2-6P	3m	Fig. 22

RS-485 terminal block conversion unit

Model name	Cable length (L)	External dimensions
FA-LTBGTR4CBL□	0.5, 1, 2m	Fig. 23

(Unit: mm)



External dimensions

Communication units/optional units

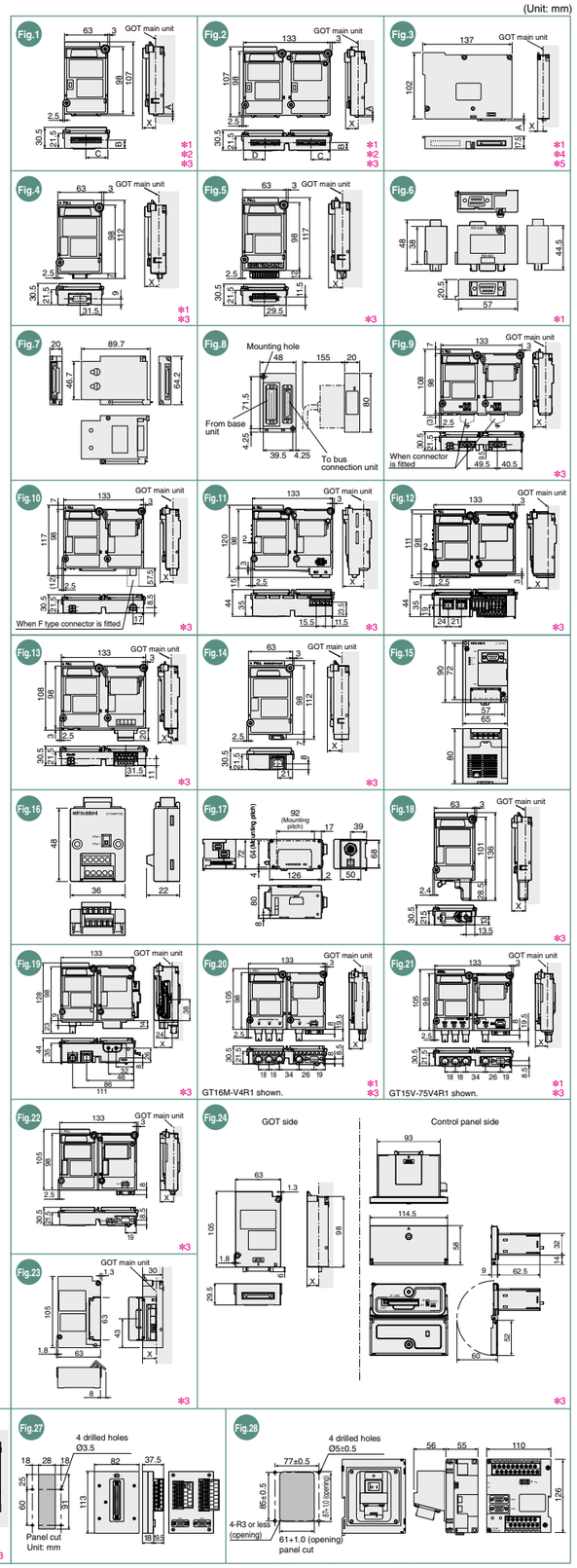
●Communication units/bus extension connector boxes

Product name			Model name	External dimensions
Bus connection unit	Standard model of bus connection unit for QCPU (Q mode)/motion controller CPU (Q Series)	1ch	GT15-QBUS	Fig. 1
		2ch	GT15-QBUS2	Fig. 2
	Standard model of bus connection unit for QnA/ACPU/motion controller CPU (A Series)	1ch	GT15-ABUS	Fig. 1
		2ch	GT15-ABUS2	Fig. 2
	Thin model of bus connection unit for QCPU (Q mode)/motion controller CPU (Q Series)	1ch	GT15-75QBUSL	Fig. 3
		2ch	GT15-75QBUS2L	Fig. 3
	Thin model of bus connection unit for QnA/ACPU/motion controller CPU (A Series)	1ch	GT15-75ABUSL	Fig. 3
		2ch	GT15-75ABUS2L	Fig. 3
Serial communication unit	RS-232 serial communication unit (D-sub 9-pin (male))		GT15-RS2-9P	Fig. 4
	RS-422/485 serial communication unit (D-sub 9-pin (female))		GT15-RS4-9S	Fig. 4
	RS-422/485 serial communication unit (terminal block)		GT15-RS4-TE	Fig. 5
RS-422 conversion unit	RS-232→RS-422 conversion unit (9-pin)		GT15-RS2T4-9P	Fig. 6
	RS-232→RS-422 conversion unit (25-pin)		GT15-RS2T4-25P	Fig. 6
Bus extension connector box			A9GT-QCNB	Fig. 7
Bus connector conversion box			A7GT-CNB	Fig. 8
MELSECNET/H communication unit	Optical loop unit		GT15-J71LP23-25	Fig. 9
	Coaxial bus unit		GT15-J71BR13	Fig. 10
CC-Link IE Controller Network communication unit			GT15-J71GP23-SX	Fig. 11
CC-Link IE Field Network communication unit			GT15-J71GF13-T2	Fig. 12
CC-Link communication unit	Intelligent device station unit		GT15-J61BT13	Fig. 13
Ethernet communication unit			GT15-J71E71-100	Fig. 14
Serial multi-drop connection unit			GT01-RS4-M	Fig. 15
Connector conversion adapter			GT10-9PT5S	Fig. 16
CC-Link interface unit			GT11H(S)-CCL	Fig. 17

●Optional units

Product name	Model name	External dimensions
Printer unit	GT15-PRN	Fig. 18
Multimedia unit	GT16M-MMR	Fig. 19
Video input unit	GT16M-V4	Fig. 20
	GT15V-75V4	Fig. 21
RGB input unit	GT16M-R2	Fig. 20
	GT15V-75R1	Fig. 21
Video/RGB input unit	GT16M-V4R1	Fig. 20
	GT15V-75V4R1	Fig. 21
RGB output unit	GT16M-ROUT	Fig. 22
	GT15V-75ROUT	Fig. 22
CF card unit	GT15-CFCD	Fig. 23
CF card extension unit	GT15-CFEX-C08SET	Fig. 24
Audio output unit	GT15-SOUT	Fig. 25
External input/output unit	GT15-DIOR	Fig. 26
	GT15-DIO	Fig. 26
Handy GOT connector conversion box	GT11H-CNB-37S	Fig. 27
	GT16H-CNB-42S	Fig. 28

(Unit: mm)

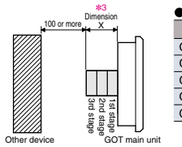


∗1 : The connector shape varies depending on the model.

∗2 : Dimensions A to D for each communication unit

Model name	A	B	C	D
GT15-QBUS	2.5	12	31.5	–
GT15-QBUS2	2.5	11	29	33.5
GT15-ABUS	4.5	15	29.5	–
GT15-ABUS2	4.5	11	31	31

∗3 : Dimension X when GOT is installed



●GOT main unit factor

Type of GOT	Y (main unit factor)
GT1695	-2
GT1595	-0.5
GT1685, GT1585	-3.5
GT167□, GT157□	-0.5
GT166□, GT1655, GT156□, GT155□	1.5

(Unit: mm)

●Option factor for communication units / option units

Model name	Z (option factor)
GT15-CFCD, GT15-CFEX-C08SET	20.5
GT16M-V4, GT16M-R2, GT16M-V4R1, GT16M-ROUT, GT15V-75V4, GT15V-75R1, GT15V-75V4R1, GT15V-75ROUT, GT15-QBUS, GT15-QBUS2, GT15-ABUS, GT15-ABUS2, GT15-RS2-9P, GT15-RS4-9S, GT15-RS4-TE, GT15-J71LP23-25, GT15-J71E71-100, GT15-J71BR13, GT15-J61BT13, GT15-PRN, GT15-DIO, GT15-DIOR, GT15-SOUT	21.5
GT16M-MMR, GT15-J71GP23-SX, GT15-J71GF13-T2	35.5

(Unit: mm)

●Calculation of dimension X

One-layer configuration: Y (main unit factor) + Z (option factor)

Two-layer configuration: Y (main unit factor) + Z (option factor) + Z (option factor)

Three-layer configuration: Y (main unit factor) + Z (option factor) + Z (option factor) + Z (option factor)

∗4 : Dimension A for each communication unit

Model name	A
GT15-75QBUSL	2.5
GT15-75QBUS2L	2.5
GT15-75ABUSL	4
GT15-75ABUS2L	4

∗5 : Dimension X when GOT is installed

●For GT16

15"	6.5
12.1"	5
10.4"	8
8.4", 5.7"	10

●For GT15

15", 10.4"	8
12.1"	5
8.4", 5.7"	10

List of connectable models

For details of connection configurations, see the GOT1000 Series Handbook and the GOT1000 Series Connection Manual.

The GOT1000 series allows connection to Mitsubishi PLCs and a variety of other FA devices.

Mitsubishi PLCs/Motion controllers/Safety controllers/ C controllers

Connectable to a broad range of product lines.

Series	Model name	Connection configuration: GT16/GT15/GT12/GT11 — Bus connection ∗2 ∗25	CPU direct connection	Computer link	MELSECNET/H ∗1	MELSECNET/10 ∗1 ∗3	CC-Link IE Controller Network ∗1	CC-Link IE Field Network ∗1	CC-Link (ID) ∗1 ∗4	CC-Link (via G4) ∗4	Ethernet ∗24	Connection configuration: GT10 — CPU direct connection	Computer link	CC-Link (via G4) ∗4
MELSEC-Q series (Q mode)	Q00JCPU	○ ∗7												
	Q00CPU ∗6													
	Q01CPU ∗6													
	Q02CPU ∗6											○ ∗18	○ ∗18	○
	Q02HCPU ∗6													
	Q06HCPU ∗6													
	Q12HCPU ∗6	○	○ ∗18	○ ∗18	○	○ ∗8	○	×	○	○	○			
	Q25HCPU ∗6													
	Q02PHCPU													
	Q06PHCPU													
	Q12PHCPU													
	Q25PHCPU													
Redundant system (main base)	Q12PRHCPU	×	○ ∗18	×	○	○ ∗8	○	×	○	○	○	×	×	×
	Q25PRHCPU													
Redundant system (extension base)	Q12PRHCPU	×	×	○	×	×	×	×	○	○	○			
	Q25PRHCPU													
MELSEC-Q series (Q mode)	Q00UJCPU	○ ∗7												
	Q00UCPU													
	Q01UCPU													
	Q02UCPU													
	Q03UDCPU													
	Q04UDHCPU		○ ∗18									○ ∗18		
	Q06UDHCPU													
	Q10UDHCPU													
	Q13UDHCPU													
	Q20UDHCPU													
	Q26UDHCPU	○		○ ∗18	○	○	○	○	○	○	○		○ ∗18	○
	Q03UDECPU													
	Q04UDEHCPU													
	Q06UDEHCPU													
	Q10UDEHCPU													
	Q13UDEHCPU		○ ∗18 ∗19									○ ∗18 ∗19		
	Q20UDEHCPU													
	Q26UDEHCPU													
	Q50UDEHCPU													
	Q100UDEHCPU													
MELSEC-QS series	QS001CPU	×	×	×	○	○	○	×	×	×	○	×	×	×
MELSEC-Q series (A mode)	Q02CPU-A													
	Q02HCPU-A	×	○ ∗18	○	×	○	×	×	○	×	○	○ ∗18	○	×
	Q06HCPU-A													
MELSEC-L series	L02CPU													
	L26CPU-BT	×	○ ∗18 ∗20	○ ∗18	×	×	×	○	○	○	○	○ ∗18 ∗20	○ ∗18	○
	L02CPU-P													
	L26CPU-PBT													
MELSEC-WS series	WS0-CPU0	×	○	×	×	×	×	×	×	×	○	×	×	
	WS0-CPU1													
C controller	Q12DCCPU-V ∗21	○	○ ∗18 ∗19	○ ∗18 ∗22	○	○	○	○	○	○	○	○ ∗18 ∗19	○ ∗18 ∗22	○
MELSEC-QnA series (QnACPU type)	Q2ACPU													
	Q2ACPU-S1	○										○ ∗18	○ ∗5 ∗18	
	Q3ACPU													
	Q4ACPU													
	Q4ARCPU	○ ∗9	○ ∗18	○ ∗5 ∗18	×	○	×	×	○	×	○ ∗5	×	×	
MELSEC-QnA series (QnASCPU type)	Q2ASCPU													
	Q2ASCPU-S1	○										○ ∗18	○ ∗5 ∗18	
	Q2ASHCPU													
	Q2ASHCPU-S1													
MELSEC-A series (AnCPU type)	A2UCPU					○								
	A2UCPU-S1													
	A3UCPU													
	A4UCPU													
	A2ACPU													
	A2ACPUP21													
	A2ACPUR21		○ ∗18									○ ∗18		×
	A2ACPU-S1													
	A2ACPUP21-S1													
	A2ACPUR21-S1													
	A3ACPU													
	A3ACPUP21													
	A3ACPUR21	○		○	×		×	×	○	×	○		○	
	A1NCPU													
	A1NCPUP21					×								
	A1NCPUR21													
	A2NCPU													
	A2NCPUP21													
	A2NCPUR21		○ ∗11 ∗18									○ ∗11 ∗18		
	A2NCPUP21-S1													
	A2NCPUR21-S1													
	A3NCPU													
	A3NCPUP21													
	A3NCPUR21													

Series	Model name	Connection configuration: GT16/GT15/GT12/GT11 — Bus connection ∗2 ∗25	CPU direct connection	Computer link	MELSECNET/H ∗1	MELSECNET/10 ∗1 ∗3	CC-Link IE Controller Network ∗1	CC-Link IE Field Network ∗1	CC-Link (ID) ∗1 ∗4	CC-Link (via G4) ∗4	Ethernet ∗24	Connection configuration: GT10 — CPU direct connection	Computer link	CC-Link (via G4) ∗4
MELSEC-A series (AnSCPU type) ∗10	A2USCPU					○								
	A2USCPU-S1		○ ∗18									○ ∗18		
	A2USHCPU-S1													
	A1SCPU			○ ∗11 ∗18		×						○ ∗11 ∗18		
	A1SCPUC24-R2	○			○		×	×	○	×	○		○	×
	A1SHCPU													
	A2SCPU													
	A2SCPU-S1					×								
	A2SHCPU			○ ∗18								○ ∗18		
	A2SHCPU-S1													
	A1SJCPU													
	A1SJCPU-S3	○ ∗12												
	A1SJHCPU													
MELSEC-A series ∗10	A0J2HCPU													
	A0J2HCPUP21	○	○ ∗18	○ ∗11 ∗18	○	×			○	×	○	○ ∗11 ∗18	○	×
	A0J2HCPUR21													
	A0J2HCPU-DC24													
	A2CCPU													
	A2CCPUP21	×		×	×	×	×	×	×	×	×		×	
	A2CCPUR21													
	A2CCPUC24		○ ∗18	○		×			×	×	×	○ ∗18	○	
	A2CCPUC24-PRF	×												
	A2CJCPU-S3	×		×		×			×	×	×		×	
	A1FXCPU	×		×		×			×	×	×		×	
Motion controller CPU (Q series)	Q172CPU ∗13	○	○ ∗15 ∗18	○ ∗16 ∗18	○	○ ∗16			○	○	○	○ ∗16 ∗18	○ ∗16	○ ∗16
	Q173CPU ∗13	○ ∗15 ∗18			○ ∗16				○	○	○			
	Q172CPUN ∗13		○ ∗18				×	×				○ ∗18		
	Q173CPUN ∗13	○		○	○	○			○	○	○		○	○
	Q172HCPU		○ ∗14 ∗18	○ ∗18								○ ∗14 ∗18	○ ∗18	
	Q173HCPU													
	Q172DCPU													
	Q173DCPU													
	Q172DCPU-S1	○	○ ∗14 ∗18	○ ∗18	○	○	○	×	○	○	○	○ ∗14 ∗18	○ ∗18	○
	Q173DCPU-S1													
	Q170MCPU		○ ∗18					○ ∗23				○ ∗18		
	MR-MQ100	×	○	×	×	×	×	×	×	×		×	×	×
Motion controller CPU (A series) (large type)	A273UCPU													
	A273UHCPU													
	A273UHCPU-S3	○	○	○	×	○	×	×	○	×	○	×	×	
	A373UCPU													
	A373UCPU-S3													
Motion controller CPU (A series) (small type) ∗10	A171SCPU													
	A171SCPU-S3					×								
	A171SCPU-S3N						×	×	○	×	○	×	×	
	A171SHCPU													
	A171SHCPUN	○ ∗17	○	○	○	×								
	A172SHCPU						×	×				×	×	
	A172SHCPUN													
	A173UHCPU					○								
	A173UHCPU-S1													×
MELSEC-FX series	FX0S													
	FX0N													
	FX1S													
	FX1N										×			
	FX1NC	×	○ ∗18	×	×	×	×	×	×	×		○ ∗18	×	
	FX2N													
	FX2NC													
	FX3G													
	FX3U										○			
	FX3UC													
MELSEC NET/H remote I/O station	QJ72LP25-25													
	QJ72LP25G	×	○	○	×	×	×	×	×	×	○	×	×	×
	QJ72BR15													
CC-Link IE Field Network head unit	LJ72GF15-T2	×	×	○	×	×	×	○	×	×	×	×	○	×
CC-Link IE Field Network Ethernet adaptor unit	NZ2GF-ET8	×	×	×	×	×	×	○	×	×	○	×	×	×

∗1 : Supported by the GT16 and GT15 only. (GT16 Handy can be connected only through Ethernet.)

∗2 : When connecting multiple GOTs, note that the following GOT models cannot be used together: GOT1000 series, GOT-A900 series, GOT800 series and A77GOT.

∗3 : When MELSECNET/H is used in NET/10 mode, the GOT terminal cannot be connected directly to a remote I/O station.

∗4 : CC-Link (ID): Connected as CC-Link (intelligent device station)
CC-Link (via G4): Connected to a CC-Link system via AJ65BT-G4-S3 or AJ65BT-R2N

∗5 : When using A series computer link or an Ethernet module with a QnACPU, only the device ranges within AnACPU specifications are supported. The following devices cannot be monitored:
- Devices that have been newly added to the QnACPU
- Latch relays (L) and step relays (S)
(In the QnACPU, the latch relay (L) and step relay (S) are separate devices from the internal relay (M), but the internal relay is nonetheless accessed when either a latch relay or step relay is specified.)
- File register (R)

∗6 : Use CPU function version B or later in a multi-CPU system.

∗7 : When using a bus extension connector box, it must be installed on an extension base. (It cannot be installed on the main base.)

∗8 : Use function version B or later for the CPU and MELSECNET/H network unit.

∗9 : In a Q4ARCPU redundant system, the GOT must be connected via bus connection to the last stage's redundant system extension base A68RB version B or later.

∗10 : Computer link unit software version U or later must be used for the A2SCPU, A2SHCPU, A1SHCPU, A1SJHCPU, A0J2HCPU, A171SHCPU and A172SHCPU computer link connections.
A0J2-C214-S1 (dedicated computer link unit for A0J2HCPU) cannot be used.

∗11 : Only the following software version or later can be used to write data to the AnNCPU(S1), A2SCPU, A0J2HCPU and A2CCPU. Earlier versions cannot be used.
- AnNCPU(S1) : Version L or later for CPUs with link, and version H or later for CPUs without link
- A2SCPU : Version H or later
- A0J2HCPU (with/without link) : Version E or later
- A0J2HCPU-DC24 : Version B or later
- A2CCPU : Version H or later

∗12 : Cannot connect to bus if an extension base is connected.

∗13 : Use of SV13, SV22 or SV43 requires a motion controller with the following OS version installed.
SW6RN-SV13□ : 00H or later (00E or later in the case of bus connection or CPU direct connection with Q172CPU or Q173CPU)
SW6RN-SV22Q□ : 00H or later (00E or later in the case of bus connection or CPU direct connection with Q172CPU or Q173CPU)
SW6RN-SV43Q□ : 00B or later

∗14 : Only a USB interface is available on the CPU unit. The CPU can be accessed via RS-232 of the QCPU of a multi-CPU system.

∗15 : Use a unit with the following Serial No.
Q172CPU Serial No. K******** or later Q173CPU Serial No. J******** or later

∗16 : Use a unit with the following Serial No.
Q172CPU Serial No. N******** or later Q173CPU Serial No. M******** or later

∗17 : When an expansion base is used, use A168B.

∗18 : Applicable to GOT multi-drop connection. If a large number of devices are monitored on a GOT, the device updating cycles on the screen may be delayed. (In general, it is recommended to monitor up to 250 device points per GOT, up to 750 device points in total)
The GT11 Handy is not applicable to GOT multi-drop connection.

∗19 : Access these units through multi-CPU, QCPU (RS-232).

∗20 : L6ADP-R2 is required.

∗21 : Use Q12DCCPU-V having a serial number (first five digits) "12042" or later.

∗22 : Use C24 serial port controlled by another CPU in a multi-CPU system.

∗23 : Monitoring is possible only for the PLC CPU.

∗24 : Supported by the GT16, GT15, and GT12 only.

∗25 : Supported by the GT16, GT15, and GT11 only.

For details of connection configurations, see the GOT1000 Series Handbook and the GOT1000 Series Connection Manual.

List of connectable models

The GOT1000 series allows connection to Mitsubishi PLCs and a variety of other FA devices.

■Modules usable when connected with Mitsubishi PLCs

●For computer link connection

CPU series	Serial communication module/computer link module※1		
	Model name	CH1	CH2
MELSEC-Q series (Q mode) Motion controller CPU (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 unit	LJ71C24	RS-232	RS-422/485
	LJ71C24-R2	RS-232	RS-232
MELSEC-Q series (A mode)	A1SJ71UC24-R2	RS-232	–
	A1SJ71UC24-R4	RS-422/485	–
MELSEC-QnA series	AJ71QC24 ※4	RS-232	RS-422/485
	AJ71QC24-R2 ※4	RS-232	RS-232
	AJ71QC24-R4 ※4	RS-422	RS-422/485
	AJ71QC24N ※4	RS-232	RS-422/485
	AJ71QC24N-R2 ※4	RS-232	RS-232
	AJ71QC24N-R4 ※4	RS-422	RS-422/485
	A1SJ71QC24 ※4	RS-232	RS-422/485
	A1SJ71QC24-R2 ※4	RS-232	RS-232
	A1SJ71QC24N ※4	RS-232	RS-422/485
	A1SJ71QC24N-R2 ※4	RS-232	RS-232
	A1SJ71QC24N1 ※4 ※6	RS-232	RS-422/485
	A1SJ71QC24N1-R2 ※6	RS-232	RS-232
	AJ71UC24 ※6	RS-232	RS-422/485
	A1SJ71UC24-R2 ※4 ※5	RS-232	–
	A1SJ71UC24-R4 ※5	RS-422/485	–
MELSEC-A series Motion controller CPU (A series)	AJ71UC24 ※5	RS-232	RS-422/485
	A1SJ71UC24-R2 ※5 ※6	RS-232	–
	A1SJ71UC24-R4 ※5 ※6	RS-422/485	–
	A1SJ71C24-R2 ※5	RS-232	–
	A1SJ71C24-R4 ※4	RS-422/485	–
	A1SCPUC24-R2	RS-232	–
	A2CCPUC24	RS-232	RS-422/485

※1 : RS-485 communication is not possible; therefore, A0J2-C214-S1 is unusable.
When using A series computer link with QnACPU, only the device ranges within AnACPU specifications are supported.
The following devices cannot be monitored:
• Devices that have been newly added to the QnACPU
• Latch relays (L) and step relays (S)
(In the QnACPU, the latch relay (L) and step relay (S) are separate devices from the internal relay (M), but the internal relay is nonetheless accessed when either a latch relay or step relay is specified.)
• File register (R)

※2 : With function version A, either CH1 or CH2 can be connected. With function version B or later, both CH1 and CH2 can be connected.
※3 : Only CH2 can be connected.
※4 : Either CH1 or CH2 can be connected.
※5 : When connecting to A1SHCPU, A2SCPU(S1), A2SHCPU(S1), A1SJHCPU, A0J2HCPU, A171SHCPU(N) or A172SHCPU(N), use computer link module software version U or later.
※6 : Computer link module/serial communication module operate within the range of devices available on AnACPU. (R devices cannot be used.)

●For MELSECNET/H connection

CPU series	MELSECNET/H module	
	Optical loop	Coaxial bus
MELSEC-Q series (Q mode)※1 MELSEC-QS series	QJ71LP21 QJ71LP21-25 QJ71LP21S-25	QJ71BR11
C controller	QJ71LP21-25 QJ71LP21S-25	

※1 : Use CPU and MELSECNET/H network unit function version B or later.

●For MELSECNET/10 connection

CPU series	MELSECNET/H (NET/10 mode), MELSECNET/10 module	
	Optical loop	Coaxial bus
MELSEC-Q series (Q mode)※1 MELSEC-QS series	QJ71LP21 QJ71LP21-25 QJ71LP21S-25	QJ71BR11
C controller	QJ71LP21-25 QJ71LP21S-25	
MELSEC-QnA series	AJ71QLP21 A1SJ71QLP21 AJ71QLP21S A1SJ71QLP21S	AJ71QBR11 A1SJ71QBR11
MELSEC-Q series (A mode) MELSEC-A series Motion controller CPU (A series)	AJ71LP21 A1SJ71LP21	AJ71BR11 A1SJ71BR11

※1 : Use CPU and MELSECNET/H network unit function version B or later.

●For CC-Link IE Controller Network connection

CPU series	CC-Link IE Controller Network communication unit
MELSEC-Q series (Q mode) MELSEC-QS series C controller	QJ71GP21-SX※1 QJ71GP21S-SX※1

※1 : In the extension mode, use a CPU with the first 5 digits of the serial No. are 12052 or higher.

●For CC-Link IE Field Network connection

CPU series	CC-Link IE Field Network communication unit
MELSEC-Q series (Q-mode) C controller	QJ71GF11-T2
MELSEC-L series	LJ71GF11-T2

●For CC-Link (ID) connection

CPU series	CC-Link unit
MELSEC-Q series (Q mode) C controller	QJ61BT11 QJ61BT11N
MELSEC-L series	LJ61BT11
MELSEC-QnA series	AJ61QBT11※1 A1SJ61QBT11※1
MELSEC-Q series (A mode) MELSEC-A series Motion controller CPU (A series)	AJ61BT11※1 A1SJ61BT11※1

※1 : GOT can communicate only with CC-Link units function version B or later and software version J or later.

●For CC-Link (via G4) connection※1

CPU series	CC-Link unit	Peripheral device unit
MELSEC-Q series (Q mode) C controller MELSEC-L series	QJ61BT11 QJ61BT11N LJ61BT11	AJ65BT-G4-S3 AJ65BT-R2N

※1 : GT11 and GT10 can monitor only the master station.

●For Ethernet connection

CPU series	Ethernet module※1				
MELSEC-Q series (Q mode)/MELSEC-QS series	QJ71E71-100	QJ71E71-B5	QJ71E71-B2	QJ71E71	
MELSEC-QnA series	AJ71QE71N3-T	AJ71QE71N-T	AJ71QE71-B5	A1SJ71QE71N-B2	A1SJ71QE71-B5
	AJ71QE71N-B5	AJ71QE71N-B5T	A1SJ71QE71N3-T	A1SJ71QE71N-T	A1SJ71QE71-B2
	AJ71QE71N-B2	AJ71QE71	A1SJ71QE71N-B5	A1SJ71QE71N-B5T	
MELSEC-Q series (A mode) MELSEC-A series Motion controller CPU (A series)	AJ71E71N3-T	AJ71E71N-T	A1SJ71E71N3-T	A1SJ71E71N-T	A1SJ71E71-B5-S3
	AJ71E71N-B5	AJ71E71N-B5T	A1SJ71E71N-B5	A1SJ71E71N-B5T	A1SJ71E71-B2-S3
	AJ71E71N-B2	AJ71E71-S3	A1SJ71E71N-B2		
MELSEC-FX series	FX3U-ENET (-L)				

※1 : When using an A series Ethernet with QnACPU, only the device ranges within AnACPU specifications are supported except for the following devices.
• Devices that have been newly added to the QnACPU
• Latch relays (L) and step relays (S)
(In the QnACPU, the latch relay (L) and step relay (S) are separate devices from the internal relay (M), but the internal relay is nonetheless accessed when either a latch relay or step relay is specified.)
• File register (R)

Inverters

The GOT can be connected to Mitsubishi inverters to set their parameters and display alarms.

Model name	GT16/GT15/GT12/GT11/GT10	
	RS-422	RS-232
FREQROL-S500/S500E	○	×
FREQROL-E500	○	×
FREQROL-F500/F500L	○	×
FREQROL-F500J	○	×
FREQROL-A500/A500L	○	×
FREQROL-V500/V500L	○	×
FREQROL-E700	○	×
FREQROL-F700	○	×
FREQROL-A700	○	×
FREQROL-D700	○	×
FREQROL-F700P/F700PJ	○	×

Servo amplifiers

The GOT can be connected to Mitsubishi servo amplifiers to set their parameters and display alarms.

Series	Model name	GT16/GT15/GT12/GT11/GT10	
		RS-422	RS-232
MELSERVO-J3 series	MR-J3-□A	○	○
	MR-J3-□T	○	○
MELSERVO-J2-Super series	MR-J2S-□A	○	○
	MR-J2S-□CP	○	○
	MR-J2S-□CL	○	○
MELSERVO-J2M series	MR-J2M-P8A	○	○
	MR-J2M□DU	○	○

Robot controllers

The GOT can be used to monitor Mitsubishi robot controllers and set their parameters.

Controller name	GT16/GT15/GT12/GT11 Connection configuration									
	Bus connection※7	CPU direct connection	Computer link	MELSEC NET/H※1	MELSEC NET/10※1※2	CC-Link IE Controller Network※1	CC-Link IE Field Network※1	CC-Link (ID)※1※3	CC-Link (via G4)	Ethernet※6
CRnQ-700	○	○※4	○	○	○	○	○	○	○	○※5
CRnD-700	×	×	×	×	×	×	×	×	×	○

※1 : Supported by the GT16 and GT15 only. (GT16 Handy can be connected only through Ethernet.)
※2 : Supported only when MELSECNET/H is used in NET/10 mode. The GOT terminal cannot be connected to a remote I/O net.
※3 : CC-Link (ID): Connected as CC-Link (intelligent device station).
※4 : The CRnQ-700 can be accessed via RS-232 of the QCPU of a multi-CPU system.
※5 : The CRnQ-700's DISP I/F cannot be used. Access the controller via the Ethernet module or the Ethernet port of the QCPU of a multi-CPU system.
※6 : Supported by the GT16, GT15, and GT12 only.
※7 : Supported by the GT16, GT15, and GT11 only.

CNC

The GOT can be used to monitor Mitsubishi CNC C70 and C6/C64 and to set their parameters.

Series	Model name	GT16/GT15/GT12/GT11 Connection configuration									
		Bus connection※7	CPU direct connection	Computer link	MELSEC NET/H※1	MELSEC NET/10※1※2	CC-Link IE Controller Network※1	CC-Link IE Field Network※1	CC-Link (ID)※1※3	CC-Link (via G4)	Ethernet※6
CNC C70	Q173NCCPU	○	○※5	○	○	○	○	○	○	○	○
MELDAS C6/C64	FCA C6	×	○※4	×	×	○※4	×	×	○※4	×	○※4

※1 : Supported by the GT16 and GT15 only. (GT16 Handy can be connected only through Ethernet.)
※2 : When MELSECNET/H is used in NET/10 mode, the GOT terminal cannot be connected directly to a remote I/O station.
※3 : CC-Link (ID): Connected as CC-Link (intelligent device station).
※4 : Use NC system software version D0 or later.
※5 : Only a USB interface is available on the Q173NCCPU.
The Q173NCCPU can be accessed via RS-232 of the QCPU of a multi-CPU system.
※6 : Supported by the GT16, GT15, and GT12 only.
※7 : Supported by the GT16, GT15, and GT11 only.

■Units usable when connected with MELDAS C6/C64

●For MELSECNET/10 connection

Series	MELSECNET/H (NET/10 mode), MELSECNET/10 module	
	Optical loop	Coaxial bus
MELDAS C6/C64	FCU6-EX879	FCU6-EX878

●For CC-Link (ID) connection

Series	CC-Link unit
MELDAS C6/C64	FCU6-HR865

●For Ethernet connection

Series	Ethernet module
MELDAS C6/C64	FCU6-EX875

※ : Applicable GOT varies depending on the connection destination.
GT16 ··· When connected via RS-232, RS-422/485 or Ethernet : All models (Use the built-in interface of the GOT main unit.)
When connected via ports other than above : All models (Bus connection and network connection are enabled by mounting a communication unit on the GOT main unit.)
GT15 ··· When connected via RS-232 : All models (Use the built-in interface of the GOT main unit.)
When other than RS-232 : All models (Bus connection and network connection are enabled by mounting a communication unit on the GOT main unit.)
GT12 ··· When connected via RS-232, RS-422/485 or Ethernet : All models (Use the built-in interface of the GOT main unit.)
GT11 ··· When connected via RS-232 or RS-422 : GT115_-Q_BD
When using bus connection : GT115_-Q_BDQ, GT115□-Q□BDA
Handy GOT ··· When connected via RS-232, RS-422/485 or Ethernet : GT1665HS-VTBD
When connected via RS-232 or RS-422 : GT115_HS-Q_BD
GT10 ··· When connected via RS-232 : GT105_-Q_BD, GT104□-Q□BD, GT1030-H□D2/H□DW2, GT1020-L□D2/L□DW2
When connected via RS-422 : GT105_-Q_BD, GT104□-Q□BD, GT1030-H□D/H□DW, GT1030-H□L/H□LW, GT1020-L□D/L□DW, GT1020-L□L/L□LW (The GT1030-H□L/H□LW and GT1020-L□L/L□LW can be used only with the MELSEC-FXCPU.)

Third party PLCs/Motion controllers/Safety controllers

The GOT can be connected with third party PLCs through RS-232 communication at up to 115.2kbps or Ethernet.

Manufacturer		Model name		GT16/GT15/GT12/GT11/GT10 Computer link connection RS-422	Computer link connection RS-232	CPU direct connection RS-422	CPU direct connection RS-232	Ethernet connection※9
OMRON	SYSMAC CPM	CPM1	CPM1A	×	○		×	×
		CPM2A					○	
		CPM2C					×	
	SYSMAC CQM1	CQM1			×		○※2	
	SYSMAC CPQ1H	CQM1H					○	
	SYSMAC CJ1	CJ1H	CJ1M	○※3			○	○※12
		CJ1G						
	SYSMAC CJ2	CJ2H						
		CJ2M					○※14	
	SYSMAC CP1	CP1H	CP1L	○	○	×	×	×
		CP1E (N type) ※13					○※13	
	SYSMAC C200HS	C200HS						
	SYSMAC C200H	C200H					×	
	SYSMAC α	C200HX	C200HE				○	
		C200HG						
	SYSMAC CS1	CS1H	CS1D				○	○※12
		CS1G						
	SYSMAC C1000H	C1000H		○※3			×	×
	SYSMAC C2000H	C2000H						
	SYSMAC CVM1/CV	CV500	CV2000	×	×	○※3		
		CV1000	CVM1					
KEYENCE		KV-700	KV-3000	○	○	×	○	×
		KV-1000						
		KV-5000	KV-5500				×	
KOYO ELECTRONICS INDUSTRIES※1	KOSTAC SU series	SU-5E	SU-5M	○	○	○	○	×
		SU-6B	SU-6M					
	PZ series	PZ3		×	×	○	○	×
	DirectLOGIC 205 series	D2-240		○	○	×	○	×
		D2-250-1	D2-260			○		
	DirectLOGIC 05 series	D0-05AA	D0-05DD	○	○	×	○	×
		D0-05AD	D0-05DD-D					
		D0-05AR	D0-05DR					
		D0-05DA	D0-05DR-D					
	DirectLOGIC 06 series	D0-06DD1	D0-06AA	○	○	○	○	×
		D0-06DD2	D0-06DD1-D					
		D0-06DR	D0-06DD2-D					
		D0-06DA	D0-06DR-D					
		D0-06AR						
Sharp Manufacturing Systems※1		JW-21CU	JW-50CUH	○	×	×	×	×
		JW-31CUH						
		JW-22CU	JW-70CUH	○	×	○※3		
		JW-32CUH	JW-100CUH					
		JW-33CUH	JW-100CU					
		Z-512J		×	×	○※3		
JTEKT※1	TOYOPUC series	PC3JG-P-CPU	PC3JG-CPU	○	○※4	×	○※4	×
		PC3J-CPU	PC3JL-CPU	○	○※4	○	○※4	
		PC2JC-CPU	PC2J16PR-CPU	○	○※4	×	○※4	
		PC2J16P-CPU						
		PC2J-CPU	PC2JR-CPU				×	
		PC2JS-CPU						
TOSHIBA※1	PROSEC T series	T2 (PU224)		×	×	○	×	×
		T2E	T2N			○※3		
		T3	T3H			○	×	
	PROSEC V series	model 3000 (S3)		×	×	○	×	
		model 2000 (S2)						
		model 2000 (S2T)						
		model 2000 (S2E)						
	Unified controller nv series	PU811		×	×	×	×	○
TOSHIBA MACHINE	TCmini series	TC3-01	TC6-00	×	×	×	○	×
		TC3-02	TC8-00					
	Robot controller	TS2000	TS2100	×	×	×	○	×
Hitachi Industrial Equipment Systems※1	Large-sized H series	H-302	H-4010	○※3		×	○	×
		H-702	H-300					
		H-1002	H-700					
		H-2002	H-2000					
	H-200 to 252 series	H-200	H-252B	×	×	×	○	×
		H-250	H-252C					
		H-252						
	H series board type	H-20DR	H-28DT	×	×	×	○	×
		H-28DR	H-40DT					
		H-40DR	H-64DT					
		H-64DR	HL-40DR					
		H-20DT	HL-64DR					
	EH-150 series	EH-CPU104	EH-CPU308	×	×	×	○	×
		EH-CPU208	EH-CPU316					
Hitachi※1	S10V	LQP510		○	○	○	×	×
		LQP520				×		
	S10mini	LQP800	LQP011	○	○	×	×	×
		LQP000	LQP120					
		LQP010						
Fuji Electric FA Components & Systems※1	MICREX-F	F55	F140S	○	○	×	×	×
		F70	F15□S					
		F120S						
Panasonic Electric Works		FP0-C16CT	FP1-C24C	×	×	×	○	×
		FP0-C32CT	FP1-C40C					
		FP0R						
		FP2	FP5	×	○	×	○	
		FP2SH	FP10 (S)					
		FP3	FP10SH					
		FP-M (C20TC)	FP-Σ	×	×	×	○	
		FP-M (C32TC)						
		FP-X		○	○			
YASKAWA Electric※10		GL120		○	×	×	○	×
		GL130						
		GL60S					×	
		GL60H			○			
		GL70H						
		CP-9200SH		×	○	×	×	○
		CP-9300MS			×			×
		MP920		○	○			○
		MP930		×	×	○	○	×
		MP940						
		PROGIC-8						
		CP-9200 (H)						
		CP-312				×	×	○
		CP-317						×
		MP2200		○	○		×	○
		MP2300						
Yokogawa Electric※10	FA500	FA500		○※3		×	×	×
	FA-M3	F3SP05	F3SP08	○	×	×	○	○
		F3SP10		×				×
		F3SP20	F3SP30	×			×	
		F3FP36			○			
		F3SP21	F3SP38	○		×	○	○
		F3SP25	F3SP53					
		F3SP35	F3SP58					
		F3SP28	F3SP59					
		F3SP66	F3SP67	×	×			
	STARDOM	NFCP100	NFJT100	×	×	×	○	○※11

Manufacturer		Model name	GT16/GT15/GT12/GT11/GT10 Computer link connection RS-422	Computer link connection RS-232	CPU direct connection RS-422	CPU direct connection RS-232	Ethernet connection※9
Allen-Bradley (Rockwell Automation, Inc)	SLC500 series※5	SLC500-20	×	×	×	○※1	×
		SLC500-30					
		SLC500-40					
		SLC5/01					
		SLC5/02					
		SLC5/03				○	
		SLC5/04					
		SLC5/05					
	MicroLogix 1000 series (digital CPU)※5※6※7	1761-L10BWA	×	×	×	○	×
		1761-L10BWB					
		1761-L16AWA					
		1761-L16BWA					
		1761-L16BWB					
		1761-L16BBB					
		1761-L32AWA					
		1761-L32BWA					
		1761-L32BWB					
		1761-L32BBB					
		1761-L32AAA					
	MicroLogix 1000 series (analog CPU)※5	1761-L20AWA-5A					
		1761-L20BWA-5A					
		1761-L20BWB-5A					
	MicroLogix 1200 series※5	1762-L24BWA					
	MicroLogix 1500 series※5	1764-LSP					
	ControlLogix series	1756-L	×	×	×	○※1	○※8
		1756-L1M1					
		1756-L1M2					
		1756-L1M3					
		1756-L61					
		1756-L62					
		1756-L63					
		1756-L55M12					
		1756-L55M13					
		1756-L55M14					
		1756-L55M16					
		1756-L55M22					
		1756-L55M23					
		1756-L55M24					
	CompactLogix series	1769-L31	×	×	×	○※1	×
		1769-L32E					○※8
		1769-L32C					×
		1769-L35E					○※8
		1769-L35CR					×
	FlexLogix series	1794-L33	×	×	×	○※1	×
		1794-L34					
GE Fanuc Automation Corporation※1	Series 90-30	IC693CPU311	○	○	×	×	×
		IC693CPU313					
		IC693CPU323					
		IC693CPU350					
		IC693CPU360					
		IC693CPU363					
		IC693CPU366					
		IC693CPU367					
		IC693CPU374					
	Series 90-70	IC697CPU731	○	○	×	×	×
		IC697CPX772					
		IC697CPX782					
		IC697CPX928					
		IC697CPX935					
		IC697CPU780					
		IC697CGR772					
		IC697CGR935					
		IC697CPU788					
		IC697CPU789					
		IC697PM790					
	VersaMax Micro	IC200UAA003	○	○	○		
		IC200UAR014	×	×	×	○	×
		IC200UDD104					
		IC200UDD112					
		IC200UDR001					
		IC200UDR002					
		IC200UDR003					
		IC200UAL004					
		IC200UAL005					
		IC200UAL006					
		IC200UAA007					
		IC200UAR028					
		IC200UDD110					
		IC200UDD120					
		IC200UDD212					
		IC200UDR005					
		IC200UDR006					
		IC200UDR010					
		IC200UDD064	○	○			
		IC200UDD164					
		IC200UDR164					
		IC200UDR064					
LS Industrial Systems	K300S	K4P-15S	○	○	×	○	×
	K200S	K3P-07□S					
	K120S	K7M-D□□□U				○	
	K80S	K7M-D□□□S (/DC)					
Schneider Electric SA	Modicon Premium	TSX P57 203M	×	×	×	○※1	○※11
		TSX P57 253M					
		TSX P57 303M					
		TSX P57 353M					
		TSX P57 453M					
	Modicon Quantum	140 CPU 311 10					
		140 CPU 434 12U					
		140 CPU 534 14U					
		140 CPU 651 50					
		140 CPU 651 60					
		140 CPU 671 60					
		140 CPU 113 02					
		140 CPU 113 03					
		140 CPU 434 12A					
		140 CPU 534 14A					
SICK AG		Flexi Soft series	×	×	×	○	×
Siemens AG		SIMATIC S7-200 series	×	×	×	○	×
		SIMATIC S7-300 series					○
		SIMATIC S7-400 series					

※1 : The GT10 cannot be connected.
※2 : The GOT cannot be connected to the CQM1-CPU11 because it does not have an RS-232 interface.
※3 : RS-422 or RS232 is selectable.
※4 : RS-232/RS-422 converter (TXU-2051) is required.
※5 : Connection to the DH485 network via an adapter (1770-KF3) is possible.
※6 : Connection to the DH485 requires a C-Series or later CPU. (B-Series and earlier models do not support the DH485 protocol.)
※7 : A one-to-one connection requires a D-Series or later CPU. (C-Series and earlier models do not support the DF1 half-duplex format.)
※8 : EtherNet/IP (PCCC protocol) is supported.
※9 : Supported by the GT16, GT15, and GT12 only.
※10 : The GT10 is applicable only to the following models: CP-9200SH, MP920, MP930, MP940, MP2200, MP2300.
※11 : Only MODBUS®/TCP connection is supported. Use a MODBUS/TCP communication driver.
※12 : Not applicable to duplex Ethernet
※13 : CPU units with 20 points or less of CP1E (N type) can be connected only directly to CPU.
※14 : Only the CJ2M-CPU1□ can be connected.

List of connectable models

Third party PLCs/Motion controllers/Safety controllers

■Modules usable when connected with a third party computer link and Ethernet modules

Manufacturer	RS-422	RS-232	Ethernet
OMRON Host link unit/ communication unit/ communication board/ Ethernet unit	C200H-LK202-V1 C500-LK201-V1 CQM1-SCB41 CJ1W-SCU41 CJ1W-SCU21-V1+CP1W-EXT01 CS1W-SCB41 C200HW-COM03/06 CP1W-CIF11 CP1W-CIF12 CJ1W-CIF11	C200H-LK201-V1 C500-LK201-V1 CS1W-SCU21 CS1W-SCB21/41 CJ1W-SCU21-V1 CJ1W-SCU21-V1+CP1W-EXT01 CJ1W-SCU41 C200HW-COM02/05/06 CQM1-CIF01/02 CQM1-SCB41 CPM1-CIF01 CPM2C-CN111 CPM2C-CIF01-V1 CP1W-CIF01	CS1W-ETN21 CS1D-ETN21D CJ1W-ETN21
KEYENCE Multi-communication unit	KV-L20R KV-L20V	KV-L20R KV-L20V KV-L20	—
KOYO ELECTRONICS INDUSTRIES Data communication module/ serial data communication module	U-01DM D2-DCM D0-DCM	U-01DM D2-DCM D0-DCM	—
Sharp Manufacturing Systems Link unit	JW-21CM ZW-10CM JW-10CM	—	—
JTEKT Link unit	THU-2755 THU-5139 THU-2927	—	—
TOSHIBA Ethernet unit	—	—	EN811
Hitachi Industrial Equipment Systems Intelligent serial port module	COMM-H COMM-2H	COMM-H COMM-2H	—
Hitachi Communication module	LQE565 LQE165	LQE560 LQE160 LQE060	—
Fuji Electric FA Components & Systems — RS-232C interface card	—	NV1L-RS2	—
Fuji Electric FA Components & Systems — RS-232C/485 interface capsule	FFK120A-C10	FFK120A-C10	—
Fuji Electric FA Components & Systems — General interface module	NC1L-RS4 FFU120B	NC1L-RS2 FFU120B	—
Panasonic Electric Works Computer communication unit	AFPX-COM3	AFP2462 AFPX-COM1 AFP3462 AFPX-COM2 AFP5462 AFPX-COM4	—
YASKAWA Electric MEMOBUS module/ communication module	JAMSC-120NOM27100 JAMSC-IF612 217IF 217IF-01	JAMSC-IF60 217IF JAMSC-IF61 217IF-01 CP-217IF 218IF-01	218IF 218IF-01
Yokogawa Electric Personal computer link module/ Ethernet interface module	LC02-0N F3LC11-2N	LC01-0N F3LC11-1N LC02-0N F3LC11-1F F3LC01-1N F3LC12-1F	F3LE01-5T F3LE11-0T F3LE12-0T
Allen-Bradley (Rockwell Automation, Inc.) EtherNet/IP communication module	—	—	1756-ENBT 1756-ENET
GE Fanuc Automation Corporation Communication module	IC693CMM311 IC697CMM711	IC693CMM311 IC697CMM711	—
LS Industrial Systems — Cnet communication unit	G7L-CUEC	G7L-CUEB	—
LS Industrial Systems — Cnet communication module	G6L-CUEC G4L-CUEA	G6L-CUEB G4L-CUEA	—
Schneider Electric SA Ethernet unit	—	—	TSX ETY 4102 TSX ETY 5102 140 NOE 771 00 140 NOE 771 10 140 NWM 100 00

Servo amplifiers

The GOT can be used to set parameters and display alarms.

Manufacturer	Model name	GT16/GT15/GT12/GT11 RS-485	GT16/GT15/GT12/GT11 RS-232
Panasonic	MINAS A4 series MINAS A4F series MINAS A4L series MINAS A5 series	○	○

Robot controllers

The GOT can be used to monitor robot controllers and set their parameters.

Manufacturer		Model name	GT16/GT15/GT12/GT11/GT10 RS-422	GT16/GT15/GT12/GT11/GT10 RS-232
IAI	X-SEL	XSEL-J/K/KE XSEL-P/Q XSEL-KT/KET XSEL-JX/KX XSEL-KTX XSEL-PX/QX	×	○
IAI	SSEL	SSEL		
IAI	PCON	PCON-C/CG/CF/CY PCON-SE PCON-PL/PO		
IAI	ACON	ACON-C/CG/CY ACON-SE ACON-PL/PO	○	○
IAI	SCON	SCON-C		

Temperature controllers/Indicating controllers

The GOT can be used to log data, set parameters, and display alarms.

Manufacturer		Model name	GT16/GT15/GT12/GT11 RS-485	RS-422	RS-232	Ethernet※9
OMRON	Thermac NEO	E5AN/E5EN E5CN E5GN	○ (2-wire type)※1	×	○※2	×
OMRON	In-Panel NEO	E5ZN				
Shinko Technos	ACS-13A series	ACS-13A □/□,□,C5※8	○ (2-wire type)※1	×	○※2	
Shinko Technos	DCL-33A series	DCL-33A-□/M,□,C5※8				
Shinko Technos	JC series	JCS-33A-□/□,□,C5※8 JCR-33A-□/□,□,C5※8 JCD-33A-□/□,□,C5※8				
Shinko Technos	JCM-33A series	JCM-33A-□/□,□C5※8				
Shinko Technos	FCR-100 series	FCR-13A-□/M,C FCR-15A-□/M,C	×	×	○※4	
Shinko Technos	FCD-100 series	FCD-13A-□/M,C FCD-15A-□/M,C				
Shinko Technos	FCR-23A series	FCR-23A-□/M,C				
Shinko Technos	PC-900 series	PC935-□/M,C				
Shinko Technos	PC-900 series	PC935-□/M,C5※8	○(2-wire type)※1			
Shinko Technos	PC-900 series	PC955-□/M,C	×			
Shinko Technos	PC-900 series	PC955-□/M,C5※8	○ (2-wire type)※1			
Shinko Technos	PCD-300 series	PCD-33A-□/M,C5※8				
Shinko Technos	FIR series	FIR-201-M,C	×			
Shinko Technos	JIR-301-M series	JIR-301-M□,C5※8	○(2-wire type)※1		○※2	

Manufacturer		Model name	GT16/GT15/GT12/GT11 RS-485	RS-422	RS-232	Ethernet※9
CHINO		LT300 series	○ (2-wire type)※1	○	○※2 ※3	×
CHINO		LT400 series				
CHINO		DZ1000 series		×	○※2	
CHINO		DZ2000 series				
CHINO		LT230 series				
CHINO		LT830 series				
CHINO		GT120 series		○	○	
CHINO		DB1000 series				
CHINO		DB2000 series				
CHINO		KP series	○ (2-wire type)※1	○	○	
CHINO		AL3000 series				
CHINO		AH3000 series				
CHINO		SE3000 series				
CHINO		JU series			×	
CHINO		KE series				
CHINO		LE5000 series				
Fuji Electric Systems	Micro Controller X	PXR PXR3/4/5/9 PXG PXG4/5/9 PXH PXH9	○ (2-wire type)※1	×	○※2	
YAMATAKE	SDC	SDC20/21 SDC30/31 SDC40A/40B/40G	○ (4-wire type)	×	○※2	
YAMATAKE	SDC	SDC15 SDC25/26 SDC35/36	○ (2-wire type)※1			
YAMATAKE	DMC	DMC10 DMC50	○(4-wire type)	×	×	
YAMATAKE	NX	NX-D15 NX-D25	○(2-wire type)※1 ※10	×	×	○※11
Yokogawa	GREEN series	UT320/321 UT350/351 UT420 UT450 UT520 UT550/551 UT750 UP350/351 UP550 UP750 UM330/331 UM350/351 US1000	○ (2-wire type/ 4-wire type)※1	×	○※2	×
Yokogawa	UT100 series	UT130 UT150 UT152 UT155 UP150	○ (2-wire type)※1			
Yokogawa	UT2000 series	UT2400 UT2800	○ (4-wire type)			
Yokogawa	UTAdvanced series	UT32A/UT35A UT52A/UT55A UP35A/UP55A UM33A	○ (2-wire type/ 4-wire type)※1			○※11
RKC Instrument	SR Mini HG	H-PCP-J H-PCP-A, H-PCP-B※7	○ (2-wire type)※1 ×	○	○	×
RKC Instrument	SRZ	Z-TIO, Z-DIO, ZCT	○ (2-wire type)※1※6	○※5	○※2	
RKC Instrument	CB	CB100/400/500※7 CB700/900※7	○ (2-wire type)※1	×	○※2	
RKC Instrument	FB	FB100 FB400/900		○	○	
RKC Instrument	RB	RB100/400/500/700/900		×	○※2	
RKC Instrument	PF	PF900/901	○ (2-wire type)※1	○	○	
RKC Instrument	HA	HA400/401/900/901				
RKC Instrument	RMC	RMC500		×	○※2	
RKC Instrument	MA	MA900/901		○	○	
RKC Instrument	AG	AG500			×	
RKC Instrument	THV	THV-A1				
RKC Instrument	SA	SA100/200		×	○※2	
RKC Instrument	SRX	X-TIO				

※1 : Supported by the GT16 and GT15 only. Not supported by the GT16 Handy.
GT16: Use RS-422/485 interface or GT15-RS4-TE. GT-15-RS4-9S is not applicable.
GT15: Use GT15-RS4-TE. GT-15-RS4-9S is not applicable.
※2 : If the temperature controller/indicating controller is designed for RS-485, use the RS-232/RS-485 converter supplied by the manufacturer.
※3 : If the temperature controller/indicating controller is designed for RS-422, use the RS-232/RS-422 converter supplied by the manufacturer.
※4 : Only indicating controllers with RS-232 serial communication function can be connected.
※5 : Use a communication extension module (Z-COM).
※6 : Use a communication extension module (Z-COM) depending on the temperature controller system configuration.
※7 : Select a model name that supports the MODBUS® communication function.
※8 : Connection is possible to products manufactured after October, 2010 (Instrument Nos. 07Axxxxxx, 07Kxxxxxx, 07Xxxxxxx, and subsequent Nos.)
※9 : Supported by the GT16, GT15, and GT12 only.
※10: Only MODBUS®/RTU connection is supported. Use a MODBUS/RTU communication driver.
※11: Only MODBUS®/TCP connection is supported. Use a MODBUS/TCP communication driver.

MODBUS® devices

Connection to all MODBUS®/RTU and MODBUS®/TCP slave devices is possible by using the MODBUS/RTU communication driver or the MODBUS/TCP communication driver.
(For the GT11 and GT10, only MODBUS®/ RTU connection is supported.)

For details regarding operation-verified MODBUS® devices, refer to Technical Bulletin No. GOT-A-0037 (List of Valid Devices Applicable for GOT1000 Series MODBUS® Connection).

Microcomputer connection

Data can be written to and read from virtual devices on a GOT by connecting a personal computer, microcomputer board, PLC, etc. to the GOT.

※ : Applicable GOT varies depending on the connection destination.
GT16 ··· When connected via RS-232, RS-422/485 or Ethernet: All models (Use the built-in interface of the GOT main unit.)
When connected via ports other than above: All models (Bus connection and network connection are enabled by mounting a communication unit on the GOT main unit.)
GT15 ··· When connected via RS-232: All models (Use the built-in interface of the GOT main unit.)
When other than RS-232: All models (Bus connection and network connection are enabled by mounting a communication unit on the GOT main unit.)
GT12 ··· When connected via RS-232, RS-422/485 or Ethernet: All models (Use the built-in interface of the GOT main unit.)
GT11 ··· When connected via RS-232 or RS-422: GT115□-Q□BD
When using bus connection: GT115□-Q□BDQ, GT115□-Q□BDA
Handy GOT ··· When connected via RS-232, RS-422/485 or Ethernet: GT166SHS-VTBD
When connected via RS-232 or RS-422: GT115□HS-Q□BD
GT10 ··· When connected via RS-232: GT105□-Q□BD, GT104□-Q□BD, GT1030-H□D2/H□DW2, GT1020-L□D2/L□DW2
When connected via RS-422: GT105□-Q□BD, GT104□-Q□BD, GT1030-H□D/H□DW, GT1030-H□L/H□LW, GT1020-L□D/L□DW, GT1020-L□L/L□LW
(The GT1030-H□L/H□LW and GT1020-L□L/L□LW can be used only with the MELSEC-FXCPU.)

The GOT1000 series allows connection to Mitsubishi PLCs and a variety of other FA devices.

■GT SoftGOT1000 Version3 Connectable Device List

[PLCs/motion controllers]

Mitsubishi PLCs and motion controllers

Series	Model name	Connection configuration: CPU direct connection	Computer link	MELSECNET/H※1	MELSECNET/10※2	CC-Link IE Controller Network	CC-Link IE Field Network	Ethernet
MELSEC-Q series (Q mode)	Q00JCPU	USB connection	○	○	○※5	○※5	○	×	○
MELSEC-Q series (Q mode)	Q00CPU※3								
MELSEC-Q series (Q mode)	Q01CPU※3								
MELSEC-Q series (Q mode)	Q02CPU※3								
MELSEC-Q series (Q mode)	Q02HCPU※3								
MELSEC-Q series (Q mode)	Q06HCPU※3								
MELSEC-Q series (Q mode)	Q12HCPU※3								
MELSEC-Q series (Q mode)	Q25HCPU※3								
MELSEC-Q series (Q mode)	Q02PHCPU	○							
MELSEC-Q series (Q mode)	Q06PHCPU								
MELSEC-Q series (Q mode)	Q12PHCPU								
MELSEC-Q series (Q mode)	Q25PHCPU								
MELSEC-Q series (Q mode) — Redundant system (main base)	Q12PRHCPU			×	○※5※6※12	○※5※6	○	×	○
MELSEC-Q series (Q mode) — Redundant system (main base)	Q25PRHCPU								
MELSEC-Q series (Q mode) — Redundant system (extension base)	Q12PRHCPU	×	×	○	×	×	×	×	○
MELSEC-Q series (Q mode) — Redundant system (extension base)	Q25PRHCPU								
MELSEC-Q series (Q mode)	Q00UJCPU	○	○	○	○	○	○	○	○
MELSEC-Q series (Q mode)	Q00UCPU								
MELSEC-Q series (Q mode)	Q01UCPU								
MELSEC-Q series (Q mode)	Q02UCPU								
MELSEC-Q series (Q mode)	Q03UDCPU								
MELSEC-Q series (Q mode)	Q04UDHCPU								
MELSEC-Q series (Q mode)	Q06UDHCPU								
MELSEC-Q series (Q mode)	Q10UDHCPU								
MELSEC-Q series (Q mode)	Q13UDHCPU								
MELSEC-Q series (Q mode)	Q20UDHCPU								
MELSEC-Q series (Q mode)	Q26UDHCPU								
MELSEC-Q series (Q mode)	Q03UDECPU	○	×	○	○	○	○	○	○
MELSEC-Q series (Q mode)	Q04UDEHCPU								
MELSEC-Q series (Q mode)	Q06UDEHCPU								
MELSEC-Q series (Q mode)	Q10UDEHCPU								
MELSEC-Q series (Q mode)	Q13UDEHCPU								
MELSEC-Q series (Q mode)	Q20UDEHCPU								
MELSEC-Q series (Q mode)	Q26UDEHCPU								
MELSEC-Q series (Q mode)	Q50UDEHCPU								
MELSEC-Q series (Q mode)	Q100UDEHCPU								
MELSEC-QS series	QS001CPU	○	×	×	○	○	○	×	○
MELSEC-Q series (A mode)	Q02CPU-A	○		○	×	○	×	×	○
MELSEC-Q series (A mode)	Q02HCPU-A								
MELSEC-Q series (A mode)	Q06HCPU-A								
MELSEC-L series	L02CPU	○	○※14	○	×	×	×	○	○
MELSEC-L series	L26CPU-BT								
MELSEC-L series	L02CPU-P								
MELSEC-L series	L26CPU-PBT								
MELSEC-WS series	WS0-CPU0	×		×	×	×	×	×	×
MELSEC-WS series	WS0-CPU1								
C controller	Q12DCCPU-V※16	○	○	○	○	○	○	○	○
MELSEC-QnA series (QnACPU type)	Q2ACPU (-S1)	○		○※4	×	○	×	×	○※4
MELSEC-QnA series (QnACPU type)	Q3ACPU								
MELSEC-QnA series (QnACPU type)	Q4ACPU								
MELSEC-QnA series (QnACPU type)	Q4ARCPU								
MELSEC-QnA series (QnASCPU type)	Q2ASCPU (-S1)	○		○※4	×	○	×	×	○※4
MELSEC-QnA series (QnASCPU type)	Q2ASHCPU								
MELSEC-QnA series (QnASCPU type)	Q2ASHCPU-S1								
MELSEC-A series (AnCPU type)※10	A2UCPU (-S1)	○※7		○	×	○	×	×	○
MELSEC-A series (AnCPU type)※10	A3UCPU								
MELSEC-A series (AnCPU type)※10	A4UCPU								
MELSEC-A series (AnCPU type)※10	A2ACPU (-S1)								
MELSEC-A series (AnCPU type)※10	A2ACPUP21 (-S1)								
MELSEC-A series (AnCPU type)※10	A2ACPUR21 (-S1)								
MELSEC-A series (AnCPU type)※10	A3ACPU								
MELSEC-A series (AnCPU type)※10	A3ACPUP21								
MELSEC-A series (AnCPU type)※10	A3ACPUR21								
MELSEC-A series (AnCPU type)※10	A1NCPU								
MELSEC-A series (AnCPU type)※10	A1NCPUP21								
MELSEC-A series (AnCPU type)※10	A1NCPUR21								
MELSEC-A series (AnCPU type)※10	A2NCPU (-S1)								
MELSEC-A series (AnCPU type)※10	A2NCPUP21 (-S1)								
MELSEC-A series (AnCPU type)※10	A2NCPUR21 (-S1)								
MELSEC-A series (AnCPU type)※10	A3NCPU								
MELSEC-A series (AnCPU type)※10	A3NCPUP21								
MELSEC-A series (AnCPU type)※10	A3NCPUR21								
MELSEC-A series (AnSCPU type)※10	A2USCPU (-S1)	○※7		○	×	○	×	×	○
MELSEC-A series (AnSCPU type)※10	A2USHCPU-S1								
MELSEC-A series (AnSCPU type)※10	A1SCPU								
MELSEC-A series (AnSCPU type)※10	A1SCPUC24-R2								
MELSEC-A series (AnSCPU type)※10	A1SHCPU								
MELSEC-A series (AnSCPU type)※10	A2SCPU (-S1)								
MELSEC-A series (AnSCPU type)※10	A2SHCPU (-S1)								
MELSEC-A series (AnSCPU type)※10	A1SJCPU (-S3)								
MELSEC-A series (AnSCPU type)※10	A1SJHCPU								
MELSEC-A series※10	A0J2HCPU	○※7		○	×	×	×	×	○
MELSEC-A series※10	A0J2HCPUP21								
MELSEC-A series※10	A0J2HCPUR21								
MELSEC-A series※10	A0J2HCPU-DC24								
MELSEC-A series※10	A2CCPU								
MELSEC-A series※10	A2CCPUP21								
MELSEC-A series※10	A2CCPUR21								
MELSEC-A series※10	A2CCPUC24								
MELSEC-A series※10	A2CCPUC24-PRF								
MELSEC-A series※10	A2CJCPU-S3	○※7		×	×	×	×	×	×
MELSEC-A series※10	A1FXCPU	○		×	×	×	×	×	×
Motion controller CPU (Q series)	Q172CPU (-N)	USB connection		×	×	×	×	×	×
Motion controller CPU (Q series)	Q173CPU (-N)								
Motion controller CPU (Q series)	Q172HCPU								
Motion controller CPU (Q series)	Q173HCPU								
Motion controller CPU (Q series)	Q172DCPU (-S1)								
Motion controller CPU (Q series)	Q173DCPU (-S1)								
Motion controller CPU (Q series)	Q170MCPU※13	○	○	○	○	○	○	×	○
Motion controller CPU (A series/large type)	A273UCPU	×		×	×	×	×	×	×
Motion controller CPU (A series/large type)	A273UHCPU (-S3)	○※8		○	×	○	×	×	○
Motion controller CPU (A series/large type)	A373UCPU (-S3)	×		×	×	×	×	×	×
Motion controller CPU※10 (A series/small type)	A171SCPU (-S3)	×		×	×	×	×	×	×
Motion controller CPU※10 (A series/small type)	A171SCPU-S3N								
Motion controller CPU※10 (A series/small type)	A171SHCPU (N)	○※8		○	×	○	×	×	○
Motion controller CPU※10 (A series/small type)	A172SHCPU (N)								
Motion controller CPU※10 (A series/small type)	A173UHCPU (-S1)								
MELSEC-FX series	FX0S	○		×	×	×	×	×	×
MELSEC-FX series	FX0N								
MELSEC-FX series	FX1S								
MELSEC-FX series	FX1N								
MELSEC-FX series	FX1NC								
MELSEC-FX series	FX2N								
MELSEC-FX series	FX2NC								
MELSEC-FX series	FX3G	○	○						
MELSEC-FX series	FX3U		○						○
MELSEC-FX series	FX3UC								
MELSECNET/H remote I/O station	QJ72LP25-25	×	○	×	×	×	×	×	×
MELSECNET/H remote I/O station	QJ72LP25G								
MELSECNET/H remote I/O station	QJ72BR15								
CC-Link IE Field Network head unit	LJ72GF15-T2	○	×	○	×	×	×	○	×
CC-Link IE Field Network Ethernet adaptor unit※15	NZ2GF-ETB	×	×	×	×	×	×	×	○

Modules usable when connected with Mitsubishi PLCs

■For computer link connection*

CPU series	Serial communication module/computer link module
MELSEC-Q series (Q mode)	QJ71C24(-R2)/QJ71C24N(-R2)/QJ71CMO(N)
MELSEC-Q series (A mode)	A1SJ71UC24-R2/A1SJ71C24-R2
MELSEC-L series/CC-Link IE Field Network	LJ71C24 (-R2)
MELSEC-QnA series	AJ71QC24(-R2)/AJ71QC24N(-R2)/ A1SJ71QC24(-R2)/A1SJ71QC24N(-R2)
MELSEC-A series	AJ71C24-S8/AJ71UC24/A1SJ71C24-R2/A1SJ71UC24-R2

* : Only RS-232 communication is possible.

■For MELSECNET/H and MELSECNET/10 connection
Use a network unit applicable to the network board used for GT SoftGOT1000. The network boards that can be used with GT SoftGOT1000 are shown on the right. Q80BD-J71BR11 (coaxial loop), Q80BD-J71LP21-25 (optical loop) and Q80BD-J71LP21G (optical loop)

■For CC-Link IE Controller Network connection
Use a network unit applicable to the network board used for GT SoftGOT1000. The network boards that can be used with GT SoftGOT1000 are shown on the right. Q80BD-J71GP21-SX and Q80BD-J71GP21S-SX

■For CC-Link IE Field Network connection
Use a network unit applicable to the network board used for GT SoftGOT1000. The network boards that can be used with GT SoftGOT1000 are shown on the right. Q81BD-J71GF11-T2

■For Ethernet connection

CPU series	Ethernet module
MELSEC-Q series (Q mode)/MELSEC-QS series	AJ71E71-100/QJ71E71-B5/QJ71E71-B2/QJ71E71
MELSEC-QnA series	AJ71QE71N3-T/AJ71QE71N-B5/AJ71QE71N-B2/AJ71QE71N-T/ AJ71QE71N-B5T/AJ71QE71/AJ71QE71-B5/A1SJ71QE71N3-T/ A1SJ71QE71N-B5/A1SJ71QE71N-B2/A1SJ71QE71N-T/ A1SJ71QE71N-B5T/A1SJ71QE71-B5/A1SJ71QE71-B2
MELSEC-Q series (A mode)/ MELSEC-A series/ Motion controller CPU (A series)※	AJ71E71N3-T/AJ71E71N-B5/AJ71E71N-B2/AJ71E71N-T/ AJ71E71N-B5T/AJ71E71-S3/A1SJ71E71N3-T/A1SJ71E71N-B5/ A1SJ71E71N-B2/A1SJ71E71N-T/A1SJ71E71N-B5T/ A1SJ71E71-B5-S3/A1SJ71E71-B2-S3
MELSEC-FX series	FX3U-ENET (-L)

※ : Only the device ranges within AnACPU specifications are supported.

Third party PLCs

Manufacturer		Model name	Connection configuration: CPU direct connection (RS-232)	Computer link (RS-232)	Ethernet
OMRON	Micro PLC	CPM2A	○	—	—
OMRON	Small-size PLC	C200HX C200HG CQM1 CQM1H CS1H CS1G CS1D CJ1H CJ1G CJ1M CJ2H	○	—	○※18
OMRON	Small-size PLC	CJ2M	○※17		
OMRON	Small-size PLC	CP1E (N type)	○		—
OMRON	Large-size PLC	CV500 CV1000 CV2000 CVM1	○	—	—
Yaskawa Electric		GL120 GL130	○	×	×
Yaskawa Electric		GL60S GL60H GL70H	×	○	
Yaskawa Electric		CP-9200SH	×	○	
Yaskawa Electric		CP-9300MS		×	
Yaskawa Electric		MP920		○	○
Yaskawa Electric		MP930 MP940 PROGIC-8 CP-9200 (H)	○	×	×
Yaskawa Electric		MP2200 MP2300	×	○	○
Yokogawa Electric		F3SP05 F3SP38 F3SP08 F3SP53 F3FP36 F3SP58 F3SP21 F3SP59 F3SP25 F3SP66 F3SP35 F3SP67 F3SP28	—	—	○

Modules usable when connected with PLCs made by the OMRON Corporation

■For Ethernet connection

Ethernet unit	CS1W-ETN21, CS1D-ETN21D, CJ1W-ETN21

Modules usable when connected with PLCs made by the Yaskawa Electric Corporation

■For computer link connection

MEMOBUS module/communication module	JAMSC-IF60, JAMSC-IF61, CP-217IF, 217IF-01, 217IF, 218IF-01

■For Ethernet connection

Communication module	218IF, 218IF-01

Modules usable when connected with PLCs made by the Yokogawa Electric Corporation

■For Ethernet connection

Ethernet interface module	F3LE01-5T, F3LE11-0T, F3LE12-0T

[CNCs] Mitsubishi CNCs

Series	Model name	Connection configuration: CPU direct connection	Computer link	MELSECNET/H※1	MELSECNET/10※2	CC-Link IE Controller Network	CC-Link IE Field Network	Ethernet
CNC C70	Q173NCCPU	○※11	○	○	○	○	○	○
MELDAS C6/C64	FCA C6	○※9	×	×	×	×	×	○※9
MELDAS C6/C64	FCA C64							

Usable units when connected to the MELDAS C6/C64

■For Ethernet connection

CPU series	Ethernet module
MELDAS C6/C64	FCU6-EX875

[Robot] Mitsubishi Industrial Robots

Controller name	Connection configuration: CPU direct connection	Computer link	MELSECNET/H※1	MELSECNET/10※2	CC-Link IE Controller Network	CC-Link IE Field Network	Ethernet
CRnQ-700	○※11	○	○	○	○	○	○※19
CRnD-700	×	×	×	×	×	×	○

※1 : Connection configuration for network type MELSECNET/H mode and MELSECNET/H extension mode (PC-to-PC net).
※2 : Connection configuration for network type MELSECNET/10 mode (PC-to-PC net).
(Including the case where the mode is switched from MELSECNET/H to MELSECNET/10 (PC-to-PC net))
※3 : For multi-CPU configuration, use the CPU function version B or later.
※4 : When using a computer link module for A series or an Ethernet module with QnACPU, GT SoftGOT1000 cannot monitor the module.
※5 : Use the PLC CPU and MELSECNET/H network module function version B or later.
※6 : Use the driver (SW0DNC-MNETH-B) of version K or later for the MELSECNET/H board.
※7 : Only the following software version or later can be used to write data to the AnNCPU(S1), A2SCPU, A0J2HCPU and A2CCPU. Earlier versions cannot be used.
• AnNCPU(S1): Version L or later for a CPU with link, and version H or later for a CPU without link
• A2SCPU: Version H or later • A0J2HCPU: Version E or later
• A0J2HCPU-DC24: Version B or later • A2CCPU: Version H or later
※8 : When connected with GT SoftGOT1000, the CPUs cannot be connected simultaneously with other MELSOFT products (GX Developer, etc.).
※9 : Use a MELDAS C6/C64 of the following NC system software version.
• NC system software version D0 or later
※10: Computer link unit software version U or later must be used for the A2SCPU, A2SHCPU, A1SHCPU, A1SJHCPU, A0J2HCPU, A171SHCPU and A172SHCPU computer link connection.
A0J2-C214-S1 (computer link unit for A0J2HCPU) cannot be used.
※11: Accessing Q173NCCPU, CRnQ-700 must be performed via USB or RS-232 of QCPU in the multi-CPU system.
※12: MELSECNET/H extension mode cannot be used.
※13: Only the PLC unit (No.1) of Q170MCPU can be connected. The peripheral I/F cannot be used.
※14: For connection through RS-232, L6ADP-R2 is required.
※15: Host station monitoring is not possible.
※16: Use a CPU with the first 5 digits of the serial No. are 12042 or higher.
※17: Only the CJ2M-CPU1□ can be connected.
※18: Not applicable to duplex Ethernet
※19: The CRnQ-700's DISP I/F cannot be used. Access the controller via the Ethernet module or the Ethernet port of the QCPU of a multi-CPU system.

[MODBUS® devices]

Connection to all MODBUS®/TCP slave devices is possible by using the MODBUS/TCP communication driver.
For details regarding operation-verified MODBUS® devices, refer to Technical Bulletin No. GOT-A-0037 (List of Valid Devices Applicable for GOT1000 Series MODBUS® Connection).

Function list

GT16 GT15 GT12 GT SoftGOT

Category	Function ※1	Optional function board ※2	Extended/optional function OS installation ※2	Other necessary devices ※3	Details page	Model: GT16 GT1695M-XTB□ XGA 15"	GT1685M-STB□ SVGA 12.1"	GT1675M-STB□ SVGA 10.4"	GT1675M-VTB□ VGA 10.4"	GT167□-VNB□ VGA 10.4"	GT1665M-STB□ SVGA 8.4"	GT1665M-VTB□ VGA 8.4"	GT1662-VNB□ VGA 8.4"	GT1655-VTBD VGA 5.7"	GT1665 HS-VTBD VGA ※4 6.5"	GT1595-XTB□ XGA 15"	GT15 GT1585(V)-STB□ SVGA 12.1"	GT1575(V)-STB□ SVGA 10.4"	GT1575-VTB□ VGA 10.4"	GT157□-VNB□ VGA 10.4"	GT1565-VTB□ VGA 8.4"	GT1562-VNB□ VGA 8.4"	GT155□-□□BD VGA/QVGA 5.7"	GT12 GT1275-VNB□ VGA 10.4"	GT1265-VNB□ VGA 8.4"	GT SoftGOT 1000 Version3 ※4	Optional function board ※2	Extended/optional function OS installation ※2	Other necessary devices ※3	Details page	Model: GT11 GT115□-Q□BD QVGA 5.7"	GT115□-Q□BD QVGA 5.7"	GT115□-HS-Q□BD QVGA ※4 5.7"	GT10 ※4 GT105□-Q□BD QVGA 5.7"	GT104□-Q□BD QVGA 4.7"	GT1030-HB□(W)(2) 4.5"	GT1020-LB□(W)(2) 3.7"
Connection configuration	Mitsubishi PLC bus connection					●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	—	—	—					—	●	—	—	—	—
	Mitsubishi PLC CPU direct connection					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●	—	●	●	●	●	●
	Mitsubishi PLC computer link connection					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●	—	●	●	●	●	●
	Mitsubishi PLC MELSECNET/H connection					●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	—	—	—					—	—	—	—	—	—	—
	Mitsubishi PLC MELSECNET/10 connection					●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	—	—	—					—	—	—	—	—	—	—
	Mitsubishi PLC CC-Link IE Controller Network connection					●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	—	—	—					—	—	—	—	—	—	—
	Mitsubishi PLC CC-Link IE Field Network connection					●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	—	—	—					—	—	—	—	—	—	—
	Mitsubishi PLC CC-Link connection (ID station/via G4)					●	●	●	●	●	●	●	●	●	Via G4 only	●	●	●	●	●	●	●	●	●	Via G4 only	Via G4 only	—					Via G4 only	—	Via G4 only	Via G4 only	Via G4 only	Via G4 only	Via G4 only
	Mitsubishi PLC Ethernet connection			※10	P.65	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				P.65	—	—	—	—	—	—	—
	Third party PLC connection					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●	—	●	●	●	●	●
	Microcomputer connection					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—					●	—	●	●	●	●	●
	MODBUS®/RTU connection					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—					●	—	●	●	●	●	●
	MODBUS®/TCP connection					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					—	—	—	—	—	—	—
	Temperature controller connection					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—					●	—	●	●	●	●	●
	Inverter connection					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—					●	—	●	●	●	●	●
	Servo amplifier connection					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—					●	—	●	●	●	●	●
	CNC connection					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●※12	●※12					●	—	●	—	—	—	—
	Robot controller connection					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					—	—	—	—	—	—	—
	GOT multi-drop connection			※10	P.49	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—			※10	P.49	●	—	—	●	●	●	●
Hardware specifications — Memory	Standard memory capacity					15MB	15MB	15MB	15MB	11MB	15MB	15MB	11MB	15MB	15MB	9MB	9MB	9MB	9MB	5MB	9MB	5MB	9MB	6MB	6MB	57MB					3MB	3MB	3MB	3MB	3MB	1.5MB	512KB
	Total memory capacity when using optional memory (standard + optional)	Required※2 (GT15 only)		CF card	P.52~	Up to 57MB	Up to 57MB	Up to 57MB	Up to 57MB	Up to 53MB	Up to 57MB	Up to 57MB	Up to 53MB	Up to 57MB	Up to 57MB	Up to 57MB	Up to 57MB	Up to 57MB	Up to 57MB	Up to 53MB	Up to 57MB	Up to 53MB	Up to 57MB	—	—	—				P.52~	—	—	—	—	—	—	—
Display colors	65,536 colors					●	●	●	●	—	●	●	—	●	●	●	●	●	●	—	●	—	GT1555-□TBD only	—	—	●					—	—	—	—	—	—	—
	4,096 colors					—	—	—	—	GT1675-VNB□only	—	—	—	—	—	—	—	—	—	—	—	—	GT1555-QSBD only	—	—	—					—	—	—	—	—	—	—
	256 colors					—	—	—	—	—	—	—	—	—	—	—	—	—	—	GT1575-VNB□only	—	—	—	●	●	—					GT1155-Q□BD only	GT1155-Q□BD/A only	GT1155 HS-QSBD only	GT1055-QSBD only	GT1045-QSBD only	—	—
	16 colors					—	—	—	—	GT1672-VNB□only	—	—	●	—	—	—	—	—	—	GT1572-VNB□only	—	●	—	—	—	—					—	—	—	—	—	—	—
	Monochrome (black/white) 16 gray scales					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	GT1550-QLBD only	—	—	—					GT1150-QLBD only	GT1150-QLBD/A only	GT1150 HS-QLBD only	—	—	—	—
	Monochrome (black/white) 2 colors					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					—	—	—	—	—	●	●
	Monochrome (blue/white) 16 gray scales					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					—	—	—	GT1050-QBBD only	GT1040-QBBD only	—	—
Resolution	1920 × 1200 dots (WUXGA) (max. at specified resolution)					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●					—	—	—	—	—	—	—
	1600 × 1200 dots (UXGA)					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●					—	—	—	—	—	—	—
	1280 × 1024 dots (SXGA)					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●					—	—	—	—	—	—	—
	1024 × 768 dots (XGA)					●	—	—	—	—	—	—	—	—	—	●	—	—	—	—	—	—	—	—	—	●					—	—	—	—	—	—	—
	800 × 600 dots (SVGA)					—	●	●	—	—	●	—	—	—	—	—	●	●	—	—	—	—	—	—	—	●					—	—	—	—	—	—	—
	640 × 480 dots (VGA)				P.52~	—	—	—	●	●	—	●	●	●	●	—	—	—	●	●	●	●	GT1555-VTBD only	●	●	●				P.52~	—	—	—	—	—	—	—
	320 × 240 dots (QVGA)					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	GT155□-Q□BD only	—	—	●					●	●	●	●	●	—	—
	288 × 96 dots					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					—	—	—	—	—	●	—
	160 × 64 dots					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					—	—	—	—	—	—	●
Built-in interface	RS-232 interface					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—					●	●	●	●	●	●	●
	RS-422 interface					※5	※5	※5	※5	※5	※5	※5	※5	※5	—	—	※5	※5	※5	※5	※5	※5	※5	—	—	—					—	—	—	—	—	—	—
	RS-422/232 interface					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					—	—	●	—	—	—	—
	RS-422/485 interface					●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	●	●	—					●※11	—	—	●※11	●	●※11 GT1030-HB□(W) only	●※11 GT1020-LB□(W) only
	Bus interface					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					—	●	—	—	—	—	—
	Ethernet interface					●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	●	●	—					—	—	—	—	—	—	—
	USB interface — USB host					●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	—	—	—					—	—	—	—	—	—	—
	USB interface — USB device					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—					●	●	●	●	●	—	—
	CF card interface					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—					●	●	●	—	—	—	—
	Optional function board interface					●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	—	—	—					—	—	—	—	—	—	—
	Extension interface					● 2ch	● 2ch	● 2ch	● 2ch	● 2ch	● 2ch	● 2ch	● 2ch	● 1ch	—	● 2ch	● 2ch	● 2ch	● 2ch	● 2ch	● 2ch	● 2ch	● 1ch	—	—	—					—	—	—	—	—	—	—
	Multimedia & Video/RGB interface					●	●	●	●	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—					—	—	—	—	—	—	—
	Video/RGB interface					—	—	—	—	—	—	—	—	—	—	—	GT1585V only	GT1575V only	—	—	—	—	—	—	—	—					—	—	—	—	—	—	—
Others	Vertical display					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					●	●	—	●	●	●	●
	Clock function			(Battery)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●	●	●	●	●	●	※9
	Buzzer output				P.52~	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				P.52~	●	●	●	●	●	●	●
	Human sensor					●	●	—	—	—	—	—	—	—	—	●	●	—	—	—	—	—	—	—	—	—					—	—	—	—	—	—	—
	Printer		Required	(Printer unit)	P.33	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	—	—	●				P.33	—	—	—	—	—	—	—
	CF card unit (CF card extension unit)			CF card unit/ CF card extension unit		●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	—	—	—					—	—	—	—	—	—	—
	Sound output		Required	Sound output unit		●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	—	—	●					—	—	—	—	—	—	—
	External input/output		Required	External input/ output unit		●	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	—	—	—					—	—	—	—	—	—	—
	Video input / RGB input / RGB output		Required	Video/RGB unit	P.32	●	●	●	●	—	●	●	—	—	—	●	GT1585V only	GT1575V only	—	—	—	—	—	—	—	—				P.32	—	—	—	—	—	—	—
	USB mouse/keyboard connection		Required		P.34	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	—	—	—	—				P.34	—	—	—	—	—	—	—
	Backlight OFF detection function					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—					●	●	●	●	—	—	—
Main unit functions	Start from CF card	Required※2 (GT15 only)		CF card		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—					—	—	—	—	—	—	—
	Project data read/write			(CF card/ USB memory <GT16 only>)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			(CF card)		●	●	●	●	●	●	●
	Resource data read					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			(CF card)		●	●	●	●	●	●	●
	FA transparent function				P.39	●	●	●	●	●	●	●	●	●	●※6	—	●	●	●	●	●	●	●	●	●	—				P.39	●	●	●※6	●	●	●	●
	Multi-channel function	Required※2 (GT15 only)			P.33	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 4ch	● Up to 2ch	● Up to 2ch	● Up to 2ch	—			P.33	—	—	—	—	—	—	—
	Gateway function		Required	(CF card)	P.35	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●※13	●※13	—			P.35	—	—	—	—	—	—	—
	MES interface function	Required※2	Required	(CF card)	P.35	●	●	●	●	●	●	●	●	—	●	●	●	●	●	●	●	●	—	—	—				P.35	—	—	—	—	—	—	—
	SoftGOT-GOT link function		Required		P.27, 34	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	●				P.27, 34							
	File transfer function (FTP client)		Required	(CF card/ USB memory <GT16 only>)	P.34	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—				P.34	—	—	—	—	—	—	—
Screen design — Specifications	Base screen, window screen				P.37	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				P.37	●	●	●	●	●	●	●
	Dialog window display					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●	●	●	—	—	—	—
	Graphic drawing — BMP image display					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●	●	●	●	●	●	●
	Graphic drawing — JPEG image display					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					—	—	—	—	—	—	—
	Graphic drawing — DXF data					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					●	●	●	●	●	●	●
	Graphic drawing — IGES data					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—					●	●	●	—	—	—	—

※1 : The function details, such as the number of settings and the data storage destination, vary depending on the model.
※2 : An optional function board may be required depending on the model, function version or hardware version of the GOT main unit. The optional function board to be used varies depending on the required function. For details, see "Notes for use" (page 81).
For the GT10 and GT SoftGOT1000, it is unnecessary to install an optional function board or the extended/optional function OS.
※3 : Necessary optional units, CF cards and USB memory devices other than the optional function board are shown. Parenthesized devices will be required depending on conditions of use. For details, see "Notes for use" (page 81).
※4 : For details, see "GT10" (page 48), "Handy GOT" (page 24) and "GT SoftGOT1000" (page 26).
※5 : The RS-232 interface can be used as an RS-422 interface by connecting an RS-422 conversion unit.
※6 : Structural restrictions are applied.
※7 : Only user alarms can be used.
※8 : To use the historical data list display and the historical trend graph, it is necessary to specify the logging function in advance. In addition, it is necessary to install the optional function OS (logging).
※9 : Read from the PLC clock.
※10 : Different connection configurations may require different communication units. For details, see the GOT1000 Series Handbook and the GOT1000 Series Connection Manual.
※11 : For the compatible hardware versions, please contact your local sales office.
※12 : Only CPU direct connection and Ethernet connection are supported.
※13 : Only the FTP server function is supported.

Function list

GT16 GT15 GT12 GT SoftGOT

Category	Function※1		Optional function board ※2	Extended/optional function OS installation ※2	Other necessary devices ※3	Details page	Model: GT16 GT1695M-XTB□ XGA 15"	GT1685M-STB□ SVGA 12.1"	GT1675M-STB□ SVGA 10.4"	GT1675M-VTB□ VGA 10.4"	GT167□-VNB□ VGA 10.4"	GT1665M-STB□ SVGA 8.4"	GT1665M-VTB□ VGA 8.4"	GT1662-VNB□ VGA 8.4"	GT1655-VTBD VGA 5.7"	GT1665HS-VTBD VGA※4 6.5"	GT1595-XTB□ XGA 15"	GT15: GT1585(V)-STB□ SVGA 12.1"	GT1575(V)-STB□ SVGA 10.4"	GT1575-VTB□ VGA 10.4"	GT157□-VNB□ VGA 10.4"	GT1565-VTB□ VGA 8.4"	GT1562-VNB□ VGA 8.4"	GT155□-□BD VGA/QVGA 5.7"	GT12: GT1275-VNB□ VGA 10.4"	GT1265-VNB□ VGA 8.4"	GT SoftGOT1000 Version3 ※4
Specifications	Standard fonts (basic)	(Japanese, Japanese (supporting European languages), Chinese (Simplified), Chinese (Simplified, supporting European languages), Chinese (Traditional, supporting European languages))					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Standard fonts (optional)	Chinese (Simplified), Chinese (Traditional), Japanese		Required			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
	High-quality font						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	TrueType font, TrueType font (7 segments)						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Windows® font						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Stroke basic font (extended)			Required			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
	Stroke font (optional)			Required			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
	Logo character function						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Common settings	Parts (object + figure) layer function						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Station No. switching						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
	Multilingual support function					P.36	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Password						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Boot logo						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Data operation function						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Offset function						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Security function	Security level authentication					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Operator authentication		Required	(CF card/ USB memory <GT16 only>)	P.41	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
Screen design / Object settings	Lamp display						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Touch switch						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Numeric display/input						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Data list display						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Historical data list display※8			Required※8		P.40	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
	ASCII display/input						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Kana-Kanji conversion function	Normal version		Required			–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	●	–	–	–
		Enhanced version		Required			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
	Clock display						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Comment display						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Extended alarm monitoring/display				(CF card) (Battery)	P.43	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Alarm display						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Alarm history display				(CF card)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Floating alarm display						–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Parts display				(CF card)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Parts movement				(CF card)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Panel meter display						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Level display						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Trend graph/Line graph/Bar graph/Statistical graph						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Historical trend graph※8			Required※8		P.40	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
	Scatter graph						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Status observation function						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Advanced recipe function			Required	(CF card)	P.37	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
	Recipe function			Required	(CF card)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Others	Report function			Required	(Printer unit) (CF card)		●	●	●	●	●	●	●	●	●	–	●	●	●	●	●	●	●	–	–	●
	Hardcopy function	File saving in CF card			CF card		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Printing on printer		Required	(Printer unit)		●	●	●	●	●	●	●	●	●	–	●	●	●	●	●	●	●	–	–	●
	Barcode function			Required		P.33	●	●	●	●	●	●	●	●	●	–	●	●	●	●	●	●	●	●	●	●
	RFID function			Required			●	●	●	●	●	●	●	●	●	–	●	●	●	●	●	●	●	●	●	●
	Multimedia function			Required	Multimedia unit CF card	P.32	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–
	Remote personal computer function (Ethernet)			Required	License	P.34	●	●	●	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–
	Remote personal computer function (serial)			Required	Video/RGB input unit	P.34	●	●	●	●	–	●	●	–	–	–	–	● GT1585V only	● GT1575V only	–	–	–	–	–	–	–
	Operation panel function			Required	External input/ output unit		●	●	●	●	●	●	●	●	●	–	●	●	●	●	●	●	●	–	–	●
	Operation log function			Required	CF card	P.41	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
	Document display function		Required※2 (GT15 only)	Required	CF card	P.33	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
	Logging function			Required	(CF card) (Battery)	P.40	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Log viewer function			Required	(CF card/ USB memory)	P40	●	●	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–
	Script function	Project script/Screen script				P.37	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Object script		Required			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
	Device data transfer function			Required		P.33	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
Maintenance functions	Device monitor function						–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	System monitor function			Required		P.46	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
	List editor for A			Required		P.47	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
	List editor for FX			Required			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
	SFC monitor function		Required※2 (GT15 only)	Required	CF card	P.44	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	● GT1555-VTBD only	–	–	–	–	●
	Motion SFC monitor function		Required※2 (GT15 only)	Required	CF card	P.45	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	● GT1555-VTBD only	–	–	–	–	●
	Ladder editor function		Required※2 (GT15 only)	Required	CF card	P.45	●	●	●	●	●	●	●	●	–	●	●	●	●	●	●	–	–	–	–	–	●
	Ladder monitor function		Required※2 (GT15 only)	Required	(CF card)	P.44	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	● GT1555-VTBD only	–	–	–	–	●
	Intelligent unit monitor function			Required		P.46	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	–	●
	Q motion monitor function			Required		P.47	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	–	●
	Servo amplifier monitor function			Required			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	–	●
	Network monitor function			Required		P.46	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	–	●
	CNC monitor function			Required		P.47	●	●	●	–	–	●	–	–	–	–	●	●	–	–	–	–	–	–	–	–	●
	CNC data input/output function			Required	CF card/ USB memory <GT16 only>		●	●	●	–	–	●	–	–	–	–	●	●	–	–	–	–	–	–	–	–	●
	Backup/restoration function			Required		P.42	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●
	MELSEC-L troubleshooting function			Required		P.46	●	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–
	Maintenance time notification function				Battery	P.38	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	–	●

GT11 GT10

Optional function board ※2	Extended/optional function OS installation ※2	Other necessary devices ※3	Details page	Model: GT11 GT115□-Q□BD QVGA 5.7"	GT115□-Q□BD QVGA 5.7"	GT115□-HS-Q□BD QVGA※4 5.7"	GT10※4: GT105□-Q□BD QVGA 5.7"	GT104□-Q□BD QVGA 4.7"	GT1030-HB□(W)(2) 4.5"	GT1020-LB□(W)(2) 3.7"
				●	●	●	●	●	●	●
				–	–	–	–	–	–	–
				●	●	●	●	●	●	●
				●	●	●	●	●	●	●
				●	●	●	●	●	●	●
				–	–	–	–	–	–	–
				–	–	–	–	–	–	–
				●	●	●	–	–	–	–
			P.36	●	●	●	●	●	●	●
				●	●	●	●	●	●	●
				●	●	●	●	●	●	●
				●	●	●	●	●	●	●
				●	●	●	●	●	●	●
				●	●	●	●	●	●	●
			P.41	–	–	–	–	–	–	–
				●	●	●	●	●	●	●
				●	●	●	●	●	●	●
				●	●	●	●	●	●	●
				●	●	●	●	●	●	●
				●	●	●	●	●	●	●
				●	●	●	●	●	●	●
			P.43	–	–	–	–	–	–	–
				●	●	●	● ※7	● ※7	● ※7	● ※7
		(CF card)		●	●	●	●	●	●	●
				●	●	●	●	●	●	●
				●	●	●	●	●	●	●
				●	●	●	–	–	–	–
				●	●	●	●	●	●	●
				●	●	●	●	●	●	●
				●	●	●	●	●	●	●
			P.40	–	–	–	–	–	–	–
				●	●	●	–	–	–	–
			P.37	–	–	–	–	–	–	–
				–	–	–	–	–	–	–
				–	–	–	●	●	●	●
Required			P.46	●	●	●	–	–	–	–
Required			P.47	●	GT115□-Q□BDA only	●	–	–	–	–
Required				●	–	●	●	●	–	–
			P.44	–	–	–	–	–	–	–
			P.45	–	–	–	–	–	–	–
			P.45	–	–	–	–	–	–	–
			P.44	–	–	–	–	–	–	–
			P.46	–	–	–	–	–	–	–
			P.47	–	–	–	–	–	–	–
				–	–	–	–	–	–	–
			P.46	–	–	–	–	–	–	–
			P.47	–	–	–	–	–	–	–
				–	–	–	–	–	–	–
			P.42	–	–	–	–	–	–	–
			P.46	–	–	–	–	–	–	–
			P.38	–	–	–	–	–	–	–

※1 : The function details, such as the number of settings and the data storage destination, vary depending on the model.
※2 : An optional function board may be required depending on the model, function version or hardware version of the GOT main unit. The optional function board to be used varies depending on the required function. For details, see "Notes for use" (page 81).
For the GT10 and GT SoftGOT1000, it is unnecessary to install an optional function board or the extended/optional function OS.
※3 : Necessary optional units, CF cards and USB memory devices other than the optional function board are shown. Parenthesized devices will be required depending on conditions of use. For details, see "Notes for use" (page 81).
※4 : For details, see "GT10" (page 48), "Handy GOT" (page 24) and "GT SoftGOT1000" (page 26).
※5 : The RS-232 interface can be used as an RS-422 interface by connecting an RS-422 conversion unit.
※6 : Structural restrictions are applied.
※7 : Only user alarms can be used.
※8 : To use the historical data list display and the historical trend graph, it is necessary to specify the logging function in advance. In addition, it is necessary to install the optional function OS (logging).
※9 : Read from the PLC clock.
※10 : Different connection configurations may require different communication units. For details, see the GOT1000 Series Handbook and the GOT1000 Series Connection Manual.
※11 : For the compatible hardware versions, please contact your local sales office.
※12 : Only CPU direct connection and Ethernet connection are supported.
※13 : Only the FTP server function is supported.

Product list

Main unit model name

GT16 9 5 M - X T B A □ □

Code	Screen size
9	15"
8	12.1"
7	10.4"
6	8.4", 6.5"
5	5.7"
4	4.7"
3	3.5"
2	3.7"

Code	Display colors
5	256 colors or more
2	16 colors
0	Monochrome

Code	Mounting type
V	Compatible with video/RGB
None	Panel mount type
HS	Handy type
M	Compatible with multimedia & Video/RGB

Code	Resolution
X	XGA (1024 × 768 dots)
S	SVGA (800 × 600 dots)
V	VGA (640 × 480 dots)
Q	QVGA (320 × 240 dots)
None	(288 × 96 dots) (160 × 64 dots)

Code	Display device
T	TFT color (high brightness, wide viewing angle)
N	TFT color
S	STN color
B	STN monochrome (blue/white)
L	STN monochrome
H	STN monochrome (White/black, high contrast)

Code	Power supply
A	100 to 240VAC
D	24VDC
L	5VDC

Code	Communication interface
Q※1	With built-in bus connection interface for QCPU (Q mode)/motion controller CPU (Q series)
A※1	With built-in bus connection interface for QnA/ACPU/motion controller CPU (A series)
2※2	With built-in RS-232
None※2	With built-in RS-422

※1 : GT115□-Q□BDQ and GT115□-Q□BDA only
※2 : GT10 only

Code	Main unit frame
B	Black
W	White

Code	GT10 backlight
W	White backlight
None	Green backlight

GT16	High performance models with multimedia and a host of features and functions
GT15	Performance models ideal for a wide range of applications in a network or standalone environment
GT12	Large basic models with integrated features and communications
GT11	Small models with a host of advanced functions
GT10	Compact models with basic functions

※ For inquiries relating to products which conform to UL, cUL, and CE directives and shipping directives, please contact your local sales office.

GOT main units

Model name			Screen size [resolution]	Display	Display colors (number of colors)	Power supply	Memory size	Remarks
GT16	GT1695	GT1695M-XTBA	15" XGA [1024 × 768 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC	15MB	Compatible with multimedia & Video/RGB
		GT1695M-XTBD				24VDC		
	GT1685	GT1685M-STBA	12.1" SVGA [800 × 600 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC	15MB	Compatible with multimedia & Video/RGB
		GT1685M-STBD				24VDC		
	GT167□	GT1675M-STBA	10.4" SVGA [800 × 600 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC	15MB	Compatible with multimedia & Video/RGB
		GT1675M-STBD				24VDC		
		GT1675M-VTBA	10.4" VGA [640 × 480 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC	15MB	Compatible with multimedia & Video/RGB
		GT1675M-VTBD				24VDC		
		GT1675-VNBA※1		TFT color LCD	4,096 colors	100-240VAC	11MB	–
		GT1675-VNBD※1				24VDC		
		GT1672-VNBA※1		TFT color LCD	16 colors	100-240VAC	11MB	–
		GT1672-VNBD※1				24VDC		
	GT166□	GT1665M-STBA	8.4" SVGA [800 × 600 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC	15MB	Compatible with multimedia & Video/RGB
		GT1665M-STBD				24VDC		
		GT1665M-VTBA	8.4" VGA [640 × 480 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC	15MB	Compatible with multimedia & Video/RGB
		GT1665M-VTBD				24VDC		
		GT1662-VNBA※1		TFT color LCD	16 colors	100-240VAC	11MB	–
		GT1662-VNBD※1				24VDC		
	GT1655	GT1655-VTBD※1 NEW	5.7" VGA [640 × 480 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	24VDC	15MB	–
	Handy GOT	GT1665HS-VTBD※1	6.5" VGA [640 × 480 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	24VDC	15MB	–
GT15	GT1595	GT1595-XTBA	15" XGA [1024 × 768 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC	9MB	–
		GT1595-XTBD				24VDC		
	GT1585	GT1585V-STBA	12.1" SVGA [800 × 600 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC	9MB	Compatible with Video/RGB
		GT1585V-STBD				24VDC		
		GT1585-STBA		TFT color LCD (high brightness, wide viewing angle)		100-240VAC		–
		GT1585-STBD				24VDC		
	GT157□	GT1575V-STBA	10.4" SVGA [800 × 600 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC	9MB	Compatible with Video/RGB
		GT1575V-STBD				24VDC		
		GT1575-STBA		TFT color LCD (high brightness, wide viewing angle)		100-240VAC		–
		GT1575-STBD				24VDC		
		GT1575-VTBA	10.4" VGA [640 × 480 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC	9MB	–
		GT1575-VTBD				24VDC		
		GT1575-VNBA		TFT color LCD	256 colors	100-240VAC	5MB	
		GT1575-VNBD				24VDC		
		GT1572-VNBA		TFT color LCD	16 colors	100-240VAC	5MB	
		GT1572-VNBD				24VDC		
	GT156□	GT1565-VTBA	8.4" VGA [640 × 480 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC	9MB	–
		GT1565-VTBD				24VDC		
		GT1562-VNBA		TFT color LCD	16 colors	100-240VAC	5MB	
		GT1562-VNBD				24VDC		
	GT155□	GT1555-VTBD	5.7" VGA [640 × 480 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	24VDC	9MB	–
		GT1555-QTBD	5.7" QVGA [320 × 240 dots]	STN color LCD	4,096 colors			
		GT1550-QLBD		STN monochrome LCD	Monochrome (black/white) 16 gray scales			
GT12	GT1275	GT1275-VNBA	10.4" VGA [640 × 480 dots]	TFT color LCD	256 colors	100-240VAC	6MB	–
		GT1275-VNBD				24VDC		
	GT1265	GT1265-VNBA	8.4" VGA [640 × 480 dots]			100-240VAC		
		GT1265-VNBD				24VDC		
GT11	GT1155	GT1155-QTBD	5.7" QVGA [320 × 240 dots]	TFT color LCD	256 colors	24VDC	3MB	–
		GT1155-QTBDQ						Dedicated to Q bus connection
		GT1155-QTBDA						Dedicated to A bus connection
		GT1155-QSBD		STN color LCD				–
		GT1155-QSBDQ						Dedicated to Q bus connection
		GT1155-QSBDA						Dedicated to A bus connection
	GT1150	GT1150-QLBD		STN monochrome LCD	Monochrome (black/white) 16 gray scales			–
		GT1150-QLBDQ						Dedicated to Q bus connection
		GT1150-QLBDA						Dedicated to A bus connection
	Handy GOT	GT1155HS-QSBD		STN color LCD	256 colors			–
		GT1150HS-QLBD		STN monochrome LCD	Monochrome (black/white) 16 gray scales			
GT10	GT105□	GT1055-QSBD	5.7" QVGA [320 × 240 dots]	STN color LCD	256 colors	24VDC	3MB	–
		GT1050-QBBD		STN monochrome LCD	Monochrome (blue/white) 16 gray scales			
	GT104□	GT1045-QSBD	4.7" QVGA [320 × 240 dots]	STN color LCD	256 colors	24VDC	3MB	–
		GT1040-QBBD		STN monochrome LCD	Monochrome (blue/white) 16 gray scales			

GOT main units

Model name			Screen size [resolution]	Display		Display colors (number of colors)	Power supply	Memory size	Remarks
GT10	GT1030	GT1030-HBD※1 NEW	4.5" [288 × 96 dots]	STN monochrome LCD (High contrast)	Frame color	Monochrome (black/white)	3-color LED (green, orange, red)	24VDC	1.5MB	Dedicated to RS-422 connection
		GT1030-HBD2※1 NEW						5VDC		Dedicated to RS-232 connection
		GT1030-HBL※1 NEW					3-color LED (white, pink, red)	24VDC		Dedicated to RS-422FX connection
		GT1030-HBDW※1 NEW						5VDC		Dedicated to RS-422 connection
		GT1030-HBDW2※1 NEW								Dedicated to RS-232 connection
		GT1030-HBLW※1 NEW								Dedicated to RS-422FX connection
		GT1030-HWD※1 NEW	4.5" [288 × 96 dots]	STN monochrome LCD (High contrast)	White	Monochrome (black/white)	3-color LED (green, orange, red)	24VDC	1.5MB	Dedicated to RS-422 connection
		GT1030-HWD2※1 NEW						5VDC		Dedicated to RS-232 connection
		GT1030-HWL※1 NEW					3-color LED (white, pink, red)	24VDC		Dedicated to RS-422FX connection
		GT1030-HWDW※1 NEW						5VDC		Dedicated to RS-422 connection
		GT1030-HWDW2※1 NEW								Dedicated to RS-232 connection
		GT1030-HWLW※1 NEW								Dedicated to RS-422FX connection
	GT1020	GT1020-LBD	3.7" [160 × 64 dots]	STN monochrome LCD	Black	Monochrome (black/white)	3-color LED (green, orange, red)	24VDC	512KB	Dedicated to RS-422 connection
		GT1020-LBD2						5VDC		Dedicated to RS-232 connection
		GT1020-LBL					3-color LED (white, pink, red)	24VDC		Dedicated to RS-422FX connection
		GT1020-LBDW						5VDC		Dedicated to RS-422 connection
		GT1020-LBDW2								Dedicated to RS-232 connection
		GT1020-LBLW								Dedicated to RS-422FX connection
		GT1020-LWD	3.7" [160 × 64 dots]	STN monochrome LCD	White	Monochrome (black/white)	3-color LED (green, orange, red)	24VDC	512KB	Dedicated to RS-422 connection
		GT1020-LWD2						5VDC		Dedicated to RS-232 connection
		GT1020-LWL					3-color LED (white, pink, red)	24VDC		Dedicated to RS-422FX connection
		GT1020-LWDW						5VDC		Dedicated to RS-422 connection
		GT1020-LWDW2								Dedicated to RS-232 connection
		GT1020-LWLW								Dedicated to RS-422FX connection

※1 : Not supported by GT Works2/GT Designer2.

Communication interface

Product name	Model name	Specifications		Applicable model					
				GT16	GT15	GT12	GT11	Handy GOT	GT10
Bus connection unit	GT15-QBUS	Bus connection (1ch) unit standard model for QCPU (Q mode)/motion controller CPU (Q series)		●	●	–	–	–	–
	GT15-QBUS2	Bus connection (2ch) unit standard model for QCPU (Q mode)/motion controller CPU (Q series)		●	●	–	–	–	–
	GT15-ABUS	Bus connection (1ch) unit standard model for QnA/ACPU/motion controller CPU (A series)		●	●	–	–	–	–
	GT15-ABUS2	Bus connection (2ch) unit standard model for QnA/ACPU/motion controller CPU (A series)		●	●	–	–	–	–
	GT15-75QBUSL	Bus connection (1ch) unit thin model※1 for QCPU (Q mode)/motion controller CPU (Q series)		●	●	–	–	–	–
	GT15-75QBUS2L	Bus connection (2ch) unit thin model※1 for QCPU (Q mode)/motion controller CPU (Q series)		●	●	–	–	–	–
	GT15-75ABUSL	Bus connection (1ch) unit thin model※1 for QnA/ACPU/motion controller CPU (A series)		●	●	–	–	–	–
	GT15-75ABUS2L	Bus connection (2ch) unit thin model※1 for QnA/ACPU/motion controller CPU (A series)		●	●	–	–	–	–
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))※2 ※3		●	●	–	–	–	–
	GT15-RS4-TE	RS-422/485 serial communication unit (terminal block)※2 ※ Usable only when connecting to temperature controllers/indicating controllers via RS-485 or in GOT multi-drop connection		●	●	–	–	–	–
RS-422 conversion unit	GT15-RS2T4-9P	RS-232→RS-422 conversion unit	RS-422 connector: 9-pin	●※6	●※4	–	–	–	–
	GT15-RS2T4-25P		RS-422 connector: 25-pin	●※6	●※4	–	–	–	–
MELSECNET/H communication unit	GT15-J71LP23-25	Standard station unit (optical loop)		●	●	–	–	–	–
	GT15-J71BR13	Standard station unit (coaxial bus)		●	●	–	–	–	–
CC-Link IE Controller Network communication unit	GT15-J71GP23-SX	Standard station unit (optical loop)		●	●	–	–	–	–
CC-Link IE Field Network communication unit	GT15-J71GF13-T2 NEW	Intelligent device station unit		●	●	–	–	–	–
CC-Link communication unit	GT15-J61BT13	Intelligent device station unit (supporting CC-Link version 2)		●	●	–	–	–	–
Ethernet communication unit	GT15-J71E71-100	Ethernet (100Base-TX) unit		–	●	–	–	–	–
Serial multi-drop connection unit	GT01-RS4-M	For GOT multi-drop connection		●※5	●※5	●※5	●※5	–	●※5
Connector conversion adapter	GT10-9PT5S	Conversion connector between D sub 9-pin male and Europe terminal block 5-pin		–	–	●※5	●※5	–	●※5
CC-Link interface unit	GT11HS-CCL	CC-Link interface unit for Handy GOT		–	–	–	–	●	–
	GT11H-CCL			–	–	–	–	●	–

※1 : The unit cannot be used stacked on other units.
※2 : The unit may not be able to be used depending on the connection destination. See "List of connectable models" (page 65).
※3 : The unit cannot be used when connecting to temperature controllers/indicating controllers via RS-485 (2-wire type)
※4 : The unit cannot be used with the GT155□.
※5 : For the hardware version compatible with GOT, please contact your local sales office. For the instructions for connection of GT16/GT15, please contact your local sales office.
※6 : The unit cannot be used with the GT1655.

Optional units

Product name	Model name	Specifications	Applicable model					
			GT16	GT15	GT12	GT11	Handy GOT	GT10
Printer unit	GT15-PRN	USB slave (PictBridge) for printer connection, 1ch ※ Cable for printer connection (3m) included	●	●	–	–	–	–
Multimedia unit	GT16M-MMR	For video input (NTSC/PAL) 1ch motion image playback	●※2	–	–	–	–	–
Video input unit	GT16M-V4	For video input (NTSC/PAL) 4ch	●※2	–	–	–	–	–
	GT15V-75V4	For video input (NTSC/PAL) 4ch	–	●※3	–	–	–	–
RGB input unit	GT16M-R2	For analog RGB input 2ch	●※2	–	–	–	–	–
	GT15V-75R1	For analog RGB input 1ch	–	●※3	–	–	–	–
Video/RGB input unit	GT16M-V4R1	For video input (NTSC/PAL) 4ch / analog RGB 1ch composite input	●※2	–	–	–	–	–
	GT15V-75V4R1	For video input (NTSC/PAL) 4ch / analog RGB 1ch composite input	–	●※3	–	–	–	–
RGB output unit	GT16M-ROUT	For analog RGB output 1ch	●※2	–	–	–	–	–
	GT15V-75ROUT	For analog RGB output	–	●※3	–	–	–	–
CF card unit	GT15-CFCD	For additional CF card port (B drive) on the back of the GOT	●	●	–	–	–	–
CF card extension unit	GT15-CFEX-C08SET	For additional CF card port (B drive) at the front of the control panel※1	●	●	–	–	–	–
Sound output unit	GT15-SOUT	For sound output	●	●	–	–	–	–
External input/output unit	GT15-DIOR	For external input/output devices and operation panel connection (negative common input / source type output)	●	●	–	–	–	–
	GT15-DIO	For external input/output devices and operation panel connection (positive common input / sink type output)	●	●	–	–	–	–

※1 : Includes unit to be installed on the control panel, unit to be installed on the GOT, and connection cable (0.8m).
※2 : Excluding the GT16□□-VNB□ and GT1655.
※3 : Only the GT1585V and GT1575V are supported.

Product list

Software

Product name	Model name	Contents
GT Works3 Version1	SW1DNC-GTWK3-E	Single license <English version>
	SW1DNC-GTWK3-EA	Multiple-license <English version>※3
License key for GT SoftGOT1000※1	GT15-SGTKEY-U	For USB port
Personal computer remote operation function (Ethernet) license※2	GT16-PCRAKEY	1 license

※1 : To use GT SoftGOT1000, a license key for GT SoftGOT1000 is necessary for each personal computer.
※2 : 1 license is required for 1 GOT unit.
※3 : The desired number of licenses (2 or more) can be purchased. For details, please contact your local sales office.

Options

Product name	Model name	Specifications		Applicable model					
				GT16	GT15	GT12	GT11	Handy GOT	GT10
Backlight	GT16-90XLTT	Backlight	For GT1695M-XTB□	●	–	–	–	–	–
	GT16-80SLTT		For GT1685M-STB□	●	–	–	–	–	–
	GT16-70SLTT		For GT1675M-STB□	●	–	–	–	–	–
	GT16-70VLTT		For GT1675M-VTB□※1	●	–	–	–	–	–
	GT16-70VLTTA		For GT1675M-VTB□※2	●	–	–	–	–	–
	GT16-70VLTN		For GT1675-VNB□/GT1672-VNB□	●	–	–	–	–	–
	GT16-60SLTT		For GT1665M-STB□	●	–	–	–	–	–
	GT16-60VLTT		For GT1665M-VTB□	●	–	–	–	–	–
	GT16-60VLTN		For GT1662-VNB□	●	–	–	–	–	–
	GT15-90XLTT		For GT1595-XTB□	–	●	–	–	–	–
	GT15-80SLTT		For GT1585V-STB□/GT1585-STB□	–	●	–	–	–	–
	GT15-70SLTT		For GT1575-STB□※3	–	●	–	–	–	–
	GT15-70VLTT		For GT1575V-STB□/GT1575-VTB□/GT1575-STB□※4	–	●	–	–	–	–
	GT15-70VLTN		For GT1575-VNB□/GT1572-VNB□	–	●	–	–	–	–
	GT15-60VLTT		For GT1565-VTB□	–	●	–	–	–	–
	GT15-60VLTN		For GT1562-VNB□	–	●	–	–	–	–
	GT12-70VLTN		For GT1275-VNB□	–	–	●	–	–	–
	GT12-60VLTN		For GT1265-VNB□	–	–	●	–	–	–
Optional function board	GT16-MESB	Optional function board ※ The required optional function board varies depending on the GOT main unit and function. For the details, see "Notes for use" (page 81).	For MES interface function	●	–	–	–	–	–
	GT15-FNB		(No expansion memory)	–	●	–	–	–	–
	GT15-QFNB		(No expansion memory)	–	●	–	–	–	–
	GT15-QFNB16M		+ 16MB expansion memory	–	●	–	–	–	–
	GT15-QFNB32M		+ 32MB expansion memory	–	●	–	–	–	–
	GT15-QFNB48M		+ 48MB expansion memory	–	●	–	–	–	–
	GT15-MESB48M		+ 48MB expansion memory	–	●	–	–	–	–
	GT11-50FNB		–	–	–	–	●※5	●※9	–
GT10 memory loader	GT10-LDR	For GT1030/GT1020 (for OS project data transfer) no power source required		–	–	–	–	–	●
GT10 memory board	GT10-50FMB	For GT105□/GT104□ (for OS and project data transfer)		–	–	–	–	–	●
Protective sheet	GT16-90PSCB	Protective sheet for 15" screen (for GT16)	Clear, 5 sheets	●	–	–	–	–	–
	GT16-90PSGB		Anti-glare, 5 sheets	●	–	–	–	–	–
	GT16-90PSCW		Clear (frame: white), 5 sheets	●	–	–	–	–	–
	GT16-90PSGW		Anti-glare (frame: white), 5 sheets	●	–	–	–	–	–
	GT16-90PSCB-012		Clear (USB protective cover type), 5 sheets※14	●	–	–	–	–	–
	GT15-90PSCB	Protective sheet for 15" screen (for GT15)	Clear, 5 sheets	–	●	–	–	–	–
	GT15-90PSGB		Anti-glare, 5 sheets	–	●	–	–	–	–
	GT15-90PSCW		Clear (frame: white), 5 sheets	–	●	–	–	–	–
	GT15-90PSGW		Anti-glare (frame: white), 5 sheets	–	●	–	–	–	–
	GT16-80PSCB	Protective sheet for 12.1" screen (for GT16)	Clear, 5 sheets	●	–	–	–	–	–
	GT16-80PSGB		Anti-glare, 5 sheets	●	–	–	–	–	–
	GT16-80PSCW		Clear (frame: white), 5 sheets	●	–	–	–	–	–
	GT16-80PSGW		Anti-glare (frame: white), 5 sheets	●	–	–	–	–	–
	GT16-80PSCB-012		Clear (USB protective cover type), 5 sheets※14	●	–	–	–	–	–
	GT15-80PSCB	Protective sheet for 12.1" screen (for GT15)	Clear, 5 sheets	–	●	–	–	–	–
	GT15-80PSGB		Anti-glare, 5 sheets	–	●	–	–	–	–
	GT15-80PSCW		Clear (frame: white), 5 sheets	–	●	–	–	–	–
	GT15-80PSGW		Anti-glare (frame: white), 5 sheets	–	●	–	–	–	–
	GT16-70PSCB	Protective sheet for 10.4" screen (for GT16)	Clear, 5 sheets	●	–	–	–	–	–
	GT16-70PSGB		Anti-glare, 5 sheets	●	–	–	–	–	–
	GT16-70PSCW		Clear (frame: white), 5 sheets	●	–	–	–	–	–
	GT16-70PSGW		Anti-glare (frame: white), 5 sheets	●	–	–	–	–	–
	GT16-70PSCB-012		Clear (USB protective cover type), 5 sheets※14	●	–	–	–	–	–
	GT15-70PSCB	Protective sheet for 10.4" screen (for GT15)	Clear, 5 sheets	–	●	–	–	–	–
	GT15-70PSGB		Anti-glare, 5 sheets	–	●	–	–	–	–
	GT15-70PSCW		Clear (frame: white), 5 sheets	–	●	–	–	–	–
	GT15-70PSGW		Anti-glare (frame: white), 5 sheets	–	●	–	–	–	–
	GT11-70PSCB	Protective sheet for 10.4" screen (for GT12)	Clear, 5 sheets	–	–	●	–	–	–
	GT16-60PSCB	Protective sheet for 8.4" screen (for GT16)	Clear, 5 sheets	●	–	–	–	–	–
	GT16-60PSGB		Anti-glare, 5 sheets	●	–	–	–	–	–
	GT16-60PSCW		Clear (frame: white), 5 sheets	●	–	–	–	–	–
	GT16-60PSGW		Anti-glare (frame: white), 5 sheets	●	–	–	–	–	–
	GT16-60PSCB-012		Clear (USB protective cover type), 5 sheets※14	●	–	–	–	–	–
	GT15-60PSCB	Protective sheet for 8.4" screen (for GT15)	Clear, 5 sheets	–	●	–	–	–	–
	GT15-60PSGB		Anti-glare, 5 sheets	–	●	–	–	–	–
	GT15-60PSCW		Clear (frame: white), 5 sheets	–	●	–	–	–	–
	GT15-60PSGW		Anti-glare (frame: white), 5 sheets	–	●	–	–	–	–
	GT11-60PSCB	Protective sheet for 8.4" screen (for GT12)	Clear, 5 sheets	–	–	●	–	–	–
	GT16H-60PSC	Protective sheet for 6.5" screen (for GT16 Handy GOT)	Clear, 5 sheets	–	–	–	–	●	–
	GT16-50PSCB NEW	Protective sheet for 5.7" screen (for GT16)	Clear, 5 sheets	●	–	–	–	–	–
	GT16-50PSGB NEW		Anti-glare, 5 sheets	●	–	–	–	–	–
	GT16-50PSCW NEW		Clear (frame: white), 5 sheets	●	–	–	–	–	–
	GT16-50PSGW NEW		Anti-glare (frame: white), 5 sheets	●	–	–	–	–	–
	GT16-50PSCB-012 NEW		Clear (USB protective cover type), 5 sheets※14	●	–	–	–	–	–
	GT15-50PSCB	Protective sheet for 5.7" screen (for GT15)	Clear, 5 sheets	–	●	–	–	–	–
	GT15-50PSGB		Anti-glare, 5 sheets	–	●	–	–	–	–
	GT15-50PSCW		Clear (frame: white), 5 sheets	–	●	–	–	–	–
	GT15-50PSGW		Anti-glare (frame: white), 5 sheets	–	●	–	–	–	–
	GT11-50PSCB	Protective sheet for 5.7" screen (for GT11)	Clear, 5 sheets	–	–	–	●	–	–
	GT11-50PSGB		Anti-glare, 5 sheets	–	–	–	●	–	–
	GT11-50PSCW		Clear (frame: white), 5 sheets	–	–	–	●	–	–
	GT11-50PSGW		Anti-glare (frame: white), 5 sheets	–	–	–	●	–	–

Options

Product name	Model name	Specifications			Applicable model					
					GT16	GT15	GT12	GT11	Handy GOT	GT10
Protective sheet	GT11H-50PSC	Protective sheet for 5.7" screen (for GT11 Handy GOT)	Clear, 5 sheets		–	–	–	–	●	–
	GT10-50PSCB	Protective sheet for 5.7" screen (for GT105□)	Clear, 5 sheets		–	–	–	–	–	●
	GT10-50PSGB		Anti-glare, 5 sheets		–	–	–	–	–	●
	GT10-50PSCW		Clear (frame: white), 5 sheets		–	–	–	–	–	●
	GT10-50PSGW		Anti-glare (frame: white), 5 sheets		–	–	–	–	–	●
	GT10-40PSCB	Protective sheet for 4.7" screen (for GT104□)	Clear, 5 sheets		–	–	–	–	–	●
	GT10-40PSGB		Anti-glare, 5 sheets		–	–	–	–	–	●
	GT10-40PSCW		Clear (frame: white), 5 sheets		–	–	–	–	–	●
	GT10-40PSGW		Anti-glare (frame: white), 5 sheets		–	–	–	–	–	●
	GT10-30PSCB	Protective sheet for 4.5" screen (for GT1030)	Clear, 5 sheets		–	–	–	–	–	●
	GT10-30PSGB		Anti-glare, 5 sheets		–	–	–	–	–	●
	GT10-30PSCW		Clear (frame: white), 5 sheets		–	–	–	–	–	●
	GT10-30PSGW		Anti-glare (frame: white), 5 sheets		–	–	–	–	–	●
	GT10-20PSCB	Protective sheet for 3.7" screen (for GT1020)	Clear, 5 sheets		–	–	–	–	–	●
	GT10-20PSGB		Anti-glare, 5 sheets		–	–	–	–	–	●
	GT10-20PSCW		Clear (frame: white), 5 sheets		–	–	–	–	–	●
	GT10-20PSGW		Anti-glare (frame: white), 5 sheets		–	–	–	–	–	●
USB protective cover	GT16-UCOV	Protective cover for USB interface on main unit front panel (for replacement)	For 15"/12.1"/10.4"/8.4"		●	–	–	–	–	–
	GT16-50UCOV NEW		For 5.7"		●	–	–	–	–	–
	GT15-UCOV		For 15"/12.1"/10.4"/8.4"		–	●	–	–	–	–
	GT11-50UCOV		For 5.7"		–	●	–	●	–	–
Oil resistant cover※7	GT05-90PCO	Oil resistant cover for 15" screen			●	●	–	–	–	–
	GT05-80PCO	Oil resistant cover for 12.1" screen			●	●	–	–	–	–
	GT05-70PCO	Oil resistant cover for 10.4" screen			●	●	●	–	–	–
	GT05-60PCO	Oil resistant cover for 8.4" screen			●	●	●	–	–	–
	GT16-50PCO NEW	Oil resistant cover for 5.7" screen			●	–	–	–	–	–
	GT05-50PCO	Oil resistant cover for 5.7" screen			–	●	–	●	–	●
	GT10-40PCO NEW	Oil resistant cover for 4.7" screen			–	–	–	–	–	●
	GT10-30PCO	Oil resistant cover for 4.5" screen			–	–	–	–	–	●
	GT10-20PCO	Oil resistant cover for 3.7" screen			–	–	–	–	–	●
Emergency stop switch guard	GT16H-60ESCOV	Cover for accidental operation prevention of emergency stop switch (for GT16 Handy GOT)			–	–	–	–	●	–
	GT11H-50ESCOV	Cover for accidental operation prevention of emergency stop switch (for GT11 Handy GOT)			–	–	–	–	●	–
Stand	GT15-90STAND	Stand for 15" type			●	●	–	–	–	–
	GT15-80STAND	Stand for 12.1" type			●	●	–	–	–	–
	GT15-70STAND	Stand for 10.4"/8.4" type			●	●	●	–	–	–
	GT05-50STAND	Stand for 5.7" type			●	●	–	●	–	●
CF card	GT05-MEM-128MC	128MB flash ROM			●	●	●	●	●	–
	GT05-MEM-256MC	256MB flash ROM			●	●	●	●	●	–
	GT05-MEM-512MC	512MB flash ROM			●	●	●	●	●	–
	GT05-MEM-1GC	1GB flash ROM			●	●	●	●	●	–
	GT05-MEM-2GC	2GB flash ROM			●	●	●	●	●	–
	GT05-MEM-4GC	4GB flash ROM			●	–	–	–	●※10	–
	GT05-MEM-8GC	8GB flash ROM			●	–	–	–	●※10	–
	GT05-MEM-16GC	16GB flash ROM			●	–	–	–	●※10	–
Memory card adapter	GT05-MEM-ADPC	CF card→memory card (TYPE Ⅱ) conversion adapter			●	●	●	●	●	–
Attachment	GT15-70ATT-98	Attachment for 10.4" type	A985GOT※8	GT167□ →GT157□ GT1275	●	●	●	–	–	–
	GT15-70ATT-87		A870GOT-SWS A870GOT-TWS A8GT-70GOT-TW	A8GT-70GOT-TB A8GT-70GOT-SW A8GT-70GOT-SB		●	●	–	–	–
	GT15-60ATT-97	Attachment for 8.4" type	A97□GOT	GT166□ →GT156□ GT1265	●	●	●	–	–	–
	GT15-60ATT-96		A960GOT			●	●	–	–	–
	GT15-60ATT-87		A870GOT-EWS A8GT-70GOT-EW A8GT-70GOT-EB	A77GOT-EL-S5 A77GOT-EL-S3 A77GOT-EL		●	●	–	–	–
	GT15-60ATT-77		A77GOT-CL-S5 A77GOT-CL-S3 A77GOT-CL	A77GOT-L-S5 A77GOT-L-S3 A77GOT-L		●	●	–	–	–
	GT15-50ATT-95W	Attachment for 5.7" type	A956WGOT	GT1655 →GT155□ GT115□	●	●	–	●	–	–
	GT15-50ATT-85		A85□GOT			●	–	●	–	–
Battery	GT15-BAT	Battery for backup of clock data and maintenance time notification data			●※11	●	–	–	●※13	–
	GT11-50BAT	Battery for backup of clock data, alarm history, recipe data, time action set values (for replacement)			●※12	–	●	●	●※9	●※6

※1 : Function version C or earlier.
※2 : Function version D or later.
※3 : Function version B or earlier.
※4 : Function version C or later.
※5 : Excluding the GT115□-Q□BDQ and GT115□-Q□BDA.
※6 : Excluding the GT1020.
※7 : Check if the oil resistant cover can be used in the actual environment before use. When using the oil resistant cover, the front USB interface and human sensor cannot be used.
※8 : Including the GP250□ and GP260□ manufactured by Pro-face.
※9 : Can be used only with the GT11 Handy.
※10 : Can be used only with the GT16 Handy.
※11 : Excluding GT1655. Application: Battery for backup of clock data, maintenance time notification data, system log data, SRAM user area (for replacement)
※12 : Can be used only with the GT1655. Application: Battery for backup of clock data, maintenance time notification data, system log data, SRAM user area (for replacement)
※13 : Can be used only with the GT16 Handy. Application: Battery for backup of clock data, maintenance time notification data, system log data, SRAM user area (for replacement)
※14 : The front-face USB interface cannot be used when using a protective sheet that covers the USB protective cover area.

Manuals

※Manuals are supplied as PDF documents with the software package in the CD-ROM. Printed manuals are also available.

Manual title	Catalog No.
GT Designer3 Version1 Screen Design Manual (Fundamentals)	SH-080866ENG
GT Designer3 Version1 Screen Design Manual (Functions) *A set of two volumes	SH-080867ENG
GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3	SH-080868ENG
GOT1000 Series Connection Manual (Non-Mitsubishi Products 1) for GT Works3	SH-080869ENG
GOT1000 Series Connection Manual (Non-Mitsubishi Products 2) for GT Works3	SH-080870ENG
GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3	SH-080871ENG
GOT1000 Series Gateway Functions Manual for GT Works3	SH-080858ENG
GOT1000 Series MES Interface Function Manual for GT Works3	SH-080859ENG
GT SoftGOT1000 Version3 Operating Manual for GT Works3	SH-080861ENG
GT Simulator3 Version1 Operating Manual for GT Works3	SH-080860ENG
GT Converter2 Version3 Operating Manual for GT Works3	SH-080862ENG
GOT1000 Series User's Manual (Extended Functions, Option Functions) for GT Works3	SH-080863ENG
GT16 User's Manual (Hardware)	SH-080928ENG
GT16 User's Manual (Basic Utility)	SH-080929ENG
GT15 User's Manual	SH-080528ENG
GT12 Supplementary Description	SH-080864ENG
GT11 User's Manual	JY997D17501
GT16 Handy GOT User's Manual (Hardware • Utility, Connection) *A set of two volumes	JY997D41201
GT11 Handy GOT User's Manual (Hardware • Utility, Connection) *A set of two volumes	JY997D20101
GT10 User's Manual	JY997D24701

Product list

Cables

Product name		Model name	Cable length	Third party products ※1	Application	Applicable model ※2 GT16	GT15	GT12	GT11	Handy GOT	GT10
Bus connection cable for QCPU (Q mode)	QCPU extension cable GOT-to-GOT connection cable	GT15-QC06B	0.6m	○	For connection between QCPU and GOT For connection between GOT and GOT	●	●	–	●	–	–
		GT15-QC12B	1.2m								
		GT15-QC30B	3m								
		GT15-QC50B	5m								
		GT15-QC100B	10m								
	Long-distance connection cable for QCPU GOT-to-GOT long-distance connection cable	GT15-QC150BS	15m	○	For long-distance (13.2m or more) connection between QCPU and GOT (A9GT-QCNB required) For long-distance connection between GOT and GOT	●	●	–	●	–	–
		GT15-QC200BS	20m								
		GT15-QC250BS	25m								
		GT15-QC300BS	30m								
		GT15-QC350BS	35m								
Bus extension connector box		A9GT-QCNB	–	–	Used for QCPU long-distance (13.2m or more) bus connection	●	●	–	●	–	–
Bus connection cable for QnA/ACPU/motion controller CPU (A series)	Large CPU extension cable	GT15-C12NB	1.2m	○	For connection between QnA/ACPU/motion controller CPU (A series, extension base) and GOT	●	●	–	●	–	–
		GT15-C30NB	3m								
		GT15-C50NB	5m								
		GT15-AC06B	0.6m	○	For connection between QnA/ACPU/motion controller CPU (A series, extension base) and A7GT-CNB	●	●	–	●	–	–
		GT15-AC12B	1.2m								
		GT15-AC30B	3m								
		GT15-AC50B	5m								
		GT15-A370C12B-S1	1.2m	○	For connection between motion controller CPU (A series, main base) and GOT	●	●	–	●	–	–
		GT15-A370C25B-S1	2.5m								
		GT15-A370C12B	1.2m	○	For connection between motion controller CPU (A series, main base) and A7GT-CNB	●	●	–	●	–	–
		GT15-A370C25B	2.5m								
	Small CPU extension cable	GT15-A1SC07B	0.7m	○	For connection between QnAS/AnSCPU/motion controller CPU (A series) and GOT	●	●	–	●	–	–
		GT15-A1SC12B	1.2m								
		GT15-A1SC30B	3m								
		GT15-A1SC50B	5m	○	For connection between QnAS/AnSCPU and GOT	●	●	–	●	–	–
		GT15-A1SC05NB	0.45m	○	For connection between QnAS/AnSCPU/motion controller CPU (A series) and A7GT-CNB	●	●	–	●	–	–
		GT15-A1SC07NB	0.7m								
		GT15-A1SC30NB	3m								
		GT15-A1SC50NB	5m	○	For connection between QnAS/AnSCPU and A7GT-CNB	●	●	–	●	–	–
	Small CPU long-distance connection cable	GT15-C100EXSS-1	10.6m	○	For long-distance connection between QnAS/AnSCPU/motion controller CPU (A series) and GOT For long-distance connection between A7GT-CNB and GOT ※Set of GT15-EXCNB and GT15-C□BS	●	●	–	●	–	–
		GT15-C200EXSS-1	20.6m								
		GT15-C300EXSS-1	30.6m								
	GOT-to-GOT connection cable	GT15-C07BS	0.7m	○	For connection between GOT and GOT	●	●	–	●	–	–
		GT15-C12BS	1.2m								
		GT15-C30BS	3m								
		GT15-C50BS	5m								
	GOT-to-GOT long-distance connection cable	GT15-C100BS	10m	○	For connection between GOT and GOT	●	●	–	●	–	–
		GT15-C200BS	20m								
		GT15-C300BS	30m								
	A0J2HCPU connection cable	GT15-J2C10B	1m	○	For connection between power supply unit (A0J2-PW) for A0J2HCPU and GOT	●	●	–	●	–	–
Bus connector conversion box		A7GT-CNB	–	–	Used for QnA/ACPU long-distance bus connection	●	●	–	●	–	–
Buffer circuit cable		GT15-EXCNB	0.5m	○	Usable as GT15-C□EXSS-1 in combination with GT15-C□BS	●	●	–	●	–	–
Ferrite core set for Q bus cable (two-pack)		GT15-QFC	–	○	Ferrite cores for replacing existing GOT-A900 bus cable with bus cable for GOT1000	●	●	–	●	–	–
Ferrite core set for A bus cable (two-pack)		GT15-AFC	–								
RS-422 conversion cable		GT16-C02R4-9S	0.2m	○	For connection between RS-422/485 (connector) of GT16 and RS-422 cable (D-sub 9 pins)	●	–	–	–	–	–
		GT16-C02R4-25S	0.2m	○	For connection between RS-422/485 (connector) of GT16 and RS-422 cable (D-sub 25 pins)	●	–	–	–	–	–
RS-485 terminal block conversion unit		FA-LTBGTR4CBL05	0.5m	○	RS-485 terminal block conversion unit ※With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit	●	–	–	–	–	–
		FA-LTBGTR4CBL10	1m								
		FA-LTBGTR4CBL20	2m								
RS-422 cable	QnA/A/FXCPU direct connection cable Computer link connection cable	GT01-C30R4-25P	3m	–	For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between FA-CNV□CBL and GOT For connection between serial communication unit and GOT For connection between AJ65BT-G4-S3 and GOT	●※6	●	●	●	●※3 –	●※4
		GT01-C100R4-25P	10m								
		GT01-C200R4-25P	20m								
		GT01-C300R4-25P	30m								
		GT10-C30R4-25P	3m	–	For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT	–	–	–	–	–	●※5
		GT10-C100R4-25P	10m								
		GT10-C200R4-25P	20m								
		GT10-C300R4-25P	30m								
	Computer link connection cable	GT09-C30R4-6C	3m	○	For connection between serial communication unit and GOT For connection between computer link unit and GOT	●※6	●	●	●	●※3 –	●※4
		GT09-C100R4-6C	10m								
		GT09-C200R4-6C	20m								
		GT09-C300R4-6C	30m								
	FXCPU direct connection cable FX communication function extension board connection cable	GT01-C10R4-8P	1m	–	For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT	●※6	●	●	●	●※3 –	●※4
		GT01-C30R4-8P	3m								
		GT01-C100R4-8P	10m								
		GT01-C200R4-8P	20m								
		GT01-C300R4-8P	30m								
		GT10-C10R4-8P	1m			–	–	–	–	–	●※5
		GT10-C30R4-8P	3m								
		GT10-C100R4-8P	10m								
		GT10-C200R4-8P	20m								
		GT10-C300R4-8P	30m								
		GT10-C10R4-8PL	1m	–	For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT ※The unit cannot be used with the FX1NC, FX2NC, FX3UC-D/DSS, FX3G.						
		GT10-C10R4-8PC	1m	–	For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT	–	–	–	–	–	●※5
		GT10-C30R4-8PC	3m								
		GT10-C100R4-8PC	10m								
		GT10-C200R4-8PC	20m								
		GT10-C300R4-8PC	30m								
	Connector conversion cable for F930→GT1030 replacement	GT10-C02H-9SC	0.2m	–	For replacing a F930GOT unit with the GT1030 series unit Converts D-sub 9-pin connector to loose wire (Europe terminal block)	–	–	–	–	–	●
RS-232 cable	Q/LCPU direct connection cable Data transfer cable	GT01-C30R2-6P	3m	–	For connection between Q/LCPU and GOT/personal computer (GT SoftGOT1000) (D-sub 9-pin)	●	●	●	●	–	●※4
					For connection between personal computer (screen design software) (D-sub 9-pin, female) and GOT (MINI-DIN 6-pin, male)	–	–	–	–	●	●※5
		GT10-C30R2-6P	3m	–	For connection between Q/LCPU and GOT For connection between GOT and GOT	–	–	–	–	–	●※5
		GT11H-C30R2-6P	3m	–	For connection conversion box between Q/LCPU and Handy GOT	–	–	–	–	●※8	–

Cables

Product name		Model name	Cable length	Third party products ※1	Application	Applicable model ※2 GT16	GT15	GT12	GT11	Handy GOT	GT10
RS-232 cable	FX communication function extension board connection cable, FX communication function adapter connection cable, Data transfer cable	GT01-C30R2-9S	3m	–	For connection between FXCPU communication function extension board (D-sub 9-pin connector) and GOT/personal computer (GT SoftGOT1000) (D-sub 9-pin) For connection between FXCPU communication function adapter (D-sub 9-pin connector) and GOT For connection between personal computer (screen design software) (D-sub 9-pin, female) and GOT (D-sub 9-pin, female)	●	●	●	●	●※3	●※4
	FX communication function adapter connection cable	GT01-C30R2-25P	3m	–	For connection between FXCPU communication special adapter (D-sub 25-pin connector) and GOT, personal computer (GT SoftGOT1000) (D-sub 9-pin)	●	●	●	●	●※3	●※4
	Computer link connection cable	GT09-C30R2-9P	3m	○	For connection between serial communication unit and GOT For connection between computer link unit and GOT For connection between AJ65BT-R2N and GOT (GT09-C30R2-9P only)	●	●	●	●	●※3	●※4
		GT09-C30R2-25P	3m								
Connector conversion box for Handy GOT		GT16H-CNB-42S	–	–	Converts Handy GOT connector to RJ-45 for terminal block, D-sub connector or Ethernet for each signal type	–	–	–	–	●※7	–
		GT11H-CNB-37S	–	–	Converts D-sub 37-pin connector to terminal block and D-sub 9-pin connector	–	–	–	–	●※8	–
External connection cable	FA device, power supply and operation switch connection cable	GT16H-C30-42P	3m	–	For connection between connector conversion box and Handy GOT	–	–	–	–	●※7	–
		GT16H-C60-42P	6m								
		GT16H-C100-42P	10m								
		GT16H-C30-32P	3m	–	For connection between CC-Link interface unit and Handy GOT	–	–	–	–	●※7	–
		GT16H-C50-32P	5m								
		GT16H-C80-32P	8m								
		GT16H-C130-32P	13m								
		GT11H-C30-37P	3m	–	For connection between FA device connection relay cable and GOT	–	–	–	–	●※8	–
		GT11H-C60-37P	6m								
		GT11H-C100-37P	10m								
		GT11H-C30	3m	–	For connection between FA device, power supply and operation switches and GOT	–	–	–	–	●※8	–
		GT11H-C60	6m								
		GT11H-C100	10m								
	Dedicated cable for CC-Link interface unit	GT11H-C30-32P	3m	–	For connection between CC-Link interface unit and Handy GOT	–	–	–	–	●※8	–
		GT11H-C50-32P	5m								
		GT11H-C80-32P	8m								
		GT11H-C130-32P	13m								
FA device connection relay cable	RS-422, power supply and operation switch connection cable	GT11H-C15R4-8P	1.5m	–	For connection between FXCPU and GOT For connection between power supply and operation switches and GOT	–	–	–	–	●※8	–
		GT11H-C15R4-25P	1.5m	–	For connection between A/QnACPU and GOT For connection between power supply and operation switches and GOT	–	–	–	–	●※8	–
	RS-232, power supply and operation switch connection cable	GT11H-C15R2-6P	1.5m	–	For connection between QCPU and GOT For connection between power supply and operation switches and GOT	–	–	–	–	●※8	–
Barcode reader connection cable		GT10-C02H-6PT9P	0.2m	–	For connection between barcode reader (D-sub 9-pin, male) and GOT (MINI-DIN 6-pin, male) RS-232	–	–	–	–	–	●※5
External I/O unit connection conversion cable		GT15-C03HTB	0.3m	○	For connection between GOT1000 (external I/O unit) and GOT-A900 external I/O interface unit connection cable (A8GT-C05TK/A8GT-C30TB/user-fabricated cable)	●	●	–	–	–	–
Analog RGB cable		GT15-C50VG	5m	○	For connection between external monitor, personal computer and vision sensor and GOT	●	●	–	–	–	–
USB cable	RS-232/USB conversion adapter for data transfer	GT10-RS2TUSB-5S	–	–	For connection between personal computer (USB) and GOT (RS-232) (Adapter and personal computer are connected with GT09-C30USB-5P.)	–	–	–	–	–	●※5
	Data transfer cable	GT09-C30USB-5P	3m	○	For connection between personal computer (USB) and GOT (USB mini-B) For connection between QnUCPU (USB mini-B) and personal computer (GT SoftGOT1000)	●	●	●	●	●	●※4
					For connection between printer and GOT (printer unit)	●	●	–	–	–	–
Extension USB waterproof cable		GT10-C10EXUSB-5S	1m	–	For extending the USB port of GOT to the control panel	–	–	–	–	–	●※4

※1 : FA-LTBGTR4CBL□ is developed by Mitsubishi Electric Engineering Company Limited and sold through your local sales office.
The other products listed are developed by Mitsubishi Electric System & Service Co., LTD. and sold through your local sales office.
※2 : The applicable connection configuration and cable vary depending on the GOT main unit. For more details, see the GOT1000 Series Handbook and the GOT1000 Series Connection Manual.
※3 : Can be used when used together with the Handy GOT connector conversion box.
※4 : Can be used only with the GT105□ and GT104□.
※5 : Can be used only with the GT1030 and GT1020.
※6 : To connect with RS-422/485 interface of GT16 main unit, an RS-422 conversion cable (GT16-C02R4-9S) is required.
※7 : Can be used only with the GT16 Handy.
※8 : Can be used only with the GT11 Handy.

Cables for third party FA devices

Product name		Model name	Cable length	Third party products ※1	GOT connection destination	Applicable model ※2 GT16	GT15	GT12	GT11	Handy GOT	GT10
RS-232 cable	Cable for OMRON PLC	GT09-C30R20101-9P	3m	○	PLC CPU: CPM2A/CQM1(H)/CS1/CJ1/CJ2H/CP1E/C200HX/C200HG/C200HE/CV500/CV1000/CV2000/CVM1 RS-232C adapter: CPM1-CIF01/CPM2C-CIF01-V1 Cable: CPM2C-CN111/CQM1-CIF02 Serial communication unit/board: CQM1-SCB41/C200HW-COM02/C200HW-COM05/C200HW-COM06/CS1W-SCB21(-V1)/CS1W-SCB41(-V1)/CS1W-SCU21(-V1)/CJ1W-SCU21(-V1)/CJ1W-SCU41(-V1)/CP1W-CIE01	●	●	●	●	●※3	●※4
		GT09-C30R20102-25S	3m		Connection cable: CQM1-CIF01						
		GT09-C30R20103-25P	3m		Base mount type host link unit: C500-LK201-V1/C200H-LK201-V1						
	Cable for KEYENCE PLC	GT09-C30R21101-6P	3m		PLC CPU: KV-700/1000/3000						
		GT09-C30R21102-9S	3m		Multi-communication unit: KV-L20/KV-L20R/KV-L20V (port 1)						
		GT09-C30R21103-3T	3m		Multi-communication unit: KV-L20/KV-L20R/KV-L20V (port 2)						
	Cable for Sharp Manufacturing Systems PLC	GT09-C30R20601-15P	3m		PLC CPU: JW-22CU/70CUH/100CUH/100CU						
		GT09-C30R20602-15P	3m		PLC CPU: JW-32CUH/33CUH/Z-512J						
	Cables for JTEKT PLC	GT09-C30R21201-25P	3m		RS-232/RS-422 converter: TXU-2051						
	Cable for Shinko Technos digital indicating controller	GT09-C30R21401-4T	3m		Digital indicating controller: FCR-100/FCD-100/FCR-23A/PC-900/FIR series						–
	Cable for TOSHIBA PLC	GT09-C30R20501-9P	3m		PLC CPU: T2E						
		GT09-C30R20502-15P	3m		PLC CPU: T2N						
	Cable for Hitachi Industrial Equipment Systems PLC	GT09-C30R20401-15P	3m		PLC CPU: Large-size H series/H200 to 252 series/H series board type/EH-150 series Intelligent serial port module: COMM-H/COMM-2H						
		GT09-C30R20402-15P	3m		PLC CPU: H-4010/H-252C/EH-150 series						
	Cable for Hitachi PLC	GT09-C30R21301-9S	3m		Communication module: LQE560/LQE060/LQE160						
	Cable for Fuji Electric FA Components & Systems PLC	GT09-C30R21003-25P	3m		RS-232C interface card: NV1L-RS2 RS-232C/485 interface capsule: FFK120A-C10 General interface module: NC1L-RS2/FFU120B						
	Cable for Panasonic Electric Works PLC	GT09-C30R20901-25P	3m		RS-422→232 conversion adapter: AFP8550						
		GT09-C30R20902-9P	3m		PLC CPU: FP2/FP2SH/FP3/FP5/FP10(S)/FP10SH/FP-M Computer communication unit: AFP2462/AFP3462/AFP5462						●※4
		GT09-C30R20903-9P	3m		PLC CPU: FP1-C24C/C40C						
		GT09-C30R20904-3C	3m		PLC CPU: FP1-C16CT/C32CT/FPOR						

※1 : Items listed above are developed by Mitsubishi Electric System & Service Co., LTD., and sold through your local sales office.
※2 : The applicable connection configuration and cable vary depending on the GOT main unit. For more details, see the GOT1000 Series Handbook and the GOT1000 Series Connection Manual.
※3 : RS-422 cables less than 10m and the RS-232 cable less than 3m can be used when the connector conversion box for the Handy GOT is used.
※4 : Can be used only with the GT105□ and GT104□.

Product list

Cables for third party FA devices

Product name		Model name	Cable length	Third party products ※1	GOT connection destination	Applicable model ※2 GT16	GT15	GT12	GT11	Handy GOT	GT10
RS-232 cable	Cable for YASKAWA Electric PLC	GT09-C30R20201-9P	3m		PLC CPU: GL120/GL130/MP-920/MP-930/CP-9200(H)/PROGIC-8 (port 1) MEMOBUS module: JAMSC-IF60/JAMSC-IF61 Communication module: 217IF/CP-217IF (when connected to CN1)/ 217IF-01/218IF-01	●					
		GT09-C30R20202-15P	3m		PLC CPU: PROGIC-8 (port 2)						● ※4
		GT09-C30R20203-9P	3m		PLC CPU: CP-9300MS						
		GT09-C30R20204-14P	3m		PLC CPU: MP-940						
		GT09-C30R20205-25P	3m		MEMOBUS module: CP-217IF (when connected to CN2) Yokogawa Electric personal computer module: LC01-0N/LC02-0N						
	Cable for Yokogawa Electric PLC	GT09-C30R20301-9P	3m		CPU port/D-sub 9-pin conversion cable: KM10-0C/KM10-0S						
		GT09-C30R20302-9P	3m		Personal computer link module: F3LC01-1N/F3LC11-1N/F3LC11-1F/F3LC12-1F						
		GT09-C30R20305-9S	3m		PLC CPU: NFCP100/NFJT100						–
	Cable for Yokogawa Electric temperature controller	GT09-C30R20304-9S	3m		Converter: ML2-□						
	Cable for Allen-Bradley (Rockwell Automation, Inc.) PLC	GT09-C30R20701-9S	3m		PLC CPU: SL500 series						● ※4
	Cable for Siemens AG PLC	GT09-C30R20801-9S	3m		HMI adapter						
RS-422 cable	Cable for OMRON PLC	GT09-C30R40101-9P	3m		PLC CPU: CV500/CV1000/CV2000/CVM1 Serial communication unit: CJ1W-SCU41 Serial communication board: CQM1-SCB41/CS1W-SCB41 Communication board: C200HW-COM03/COM06	●					
		GT09-C100R40101-9P	10m								
		GT09-C200R40101-9P	20m								
		GT09-C300R40101-9P	30m								
		GT09-C30R40102-9P	3m		Base mount type host link unit: C200H-LK202-V1/C500-LK201-V1						
		GT09-C100R40102-9P	10m								
		GT09-C200R40102-9P	20m								
		GT09-C300R40102-9P	30m								
		GT09-C30R40103-5T	3m		Communication board: CP1W-CIF11/CP1W-CIF12/CJ1W-CIF11						
		GT09-C100R40103-5T	10m								
		GT09-C200R40103-5T	20m								
		GT09-C300R40103-5T	30m								
	Cable for KEYENCE PLC	GT09-C30R41101-5T	3m		Multi-communication unit: KV-L20/KV-L20R/KV-L20V (port 2)						
		GT09-C100R41101-5T	10m								
		GT09-C200R41101-5T	20m								
		GT09-C300R41101-5T	30m								
	Cable for Sharp Manufacturing Systems PLC	GT09-C30R40601-15P	3m		PLC CPU: JW-22CU/70CUH/100CUH/100CU						
		GT09-C100R40601-15P	10m								
		GT09-C200R40601-15P	20m								
		GT09-C300R40601-15P	30m								
		GT09-C30R40602-15P	3m		PLC CPU: JW-32CUH/33CUH/Z-512J						
		GT09-C100R40602-15P	10m								
		GT09-C200R40602-15P	20m								
		GT09-C300R40602-15P	30m								
		GT09-C30R40603-6T	3m		Link unit: JW-21CM/JW-10CM/ZW-10CM						
		GT09-C100R40603-6T	10m								
		GT09-C200R40603-6T	20m								
		GT09-C300R40603-6T	30m								
	Cable for JTEKT PLC	GT09-C30R41201-6C	3m		PLC CPU: PC3J/PC3JL Communication module: PC/CMP2-LINK						
		GT09-C100R41201-6C	10m								
		GT09-C200R41201-6C	20m	○		●	●	●	●	● ※3	
		GT09-C300R41201-6C	30m								
	Cable for TOSHIBA PLC	GT09-C30R40501-15P	3m		PLC CPU: T2/T3/T3H/model3000(S3)						
		GT09-C100R40501-15P	10m								
		GT09-C200R40501-15P	20m								
		GT09-C300R40501-15P	30m								
		GT09-C30R40502-6C	3m		PLC CPU: T2E/model2000(S2)						–
		GT09-C100R40502-6C	10m								
		GT09-C200R40502-6C	20m								
		GT09-C300R40502-6C	30m								
		GT09-C30R40503-15P	3m		PLC CPU: T2N						
		GT09-C100R40503-15P	10m								
		GT09-C200R40503-15P	20m								
		GT09-C300R40503-15P	30m								
	Cable for Hitachi Industrial Equipment Systems PLC	GT09-C30R40401-7T	3m		Intelligent serial port module: COMM-H/COMM-2H						
		GT09-C100R40401-7T	10m								
		GT09-C200R40401-7T	20m								
		GT09-C300R40401-7T	30m								
	Cable for Hitachi PLC	GT09-C30R41301-9S	3m		PLC CPU: LQP510 Communication module: LQE565/LQE165						
		GT09-C100R41301-9S	10m								
		GT09-C200R41301-9S	20m								
		GT09-C300R41301-9S	30m								
	Cable for Fuji Electric FA Components & Systems PLC	GT09-C30R41001-6T	3m		RS-232C/485 interface capsule: FFK120A-C10 General interface module: NC1L-RS4/FFU120B						
		GT09-C100R41001-6T	10m								
		GT09-C200R41001-6T	20m								
		GT09-C300R41001-6T	30m								
	Cable for Yaskawa Electric PLC	GT09-C30R40201-9P	3m		MEMOBUS module: JAMSC-120NOM27100/JAMSC-IF612						
		GT09-C100R40201-9P	10m								
		GT09-C200R40201-9P	20m								
		GT09-C300R40201-9P	30m								
		GT09-C30R40202-14P	3m		PLC CPU: MP940						● ※4
		GT09-C100R40202-14P	10m								
		GT09-C200R40202-14P	20m								
		GT09-C300R40202-14P	30m								
	Cable for Yokogawa Electric PLC	GT09-C30R40301-6T	3m		Personal computer link module: F3LC11-2N						
		GT09-C100R40301-6T	10m								
		GT09-C200R40301-6T	20m								
		GT09-C300R40301-6T	30m								
		GT09-C30R40302-6T	3m		Personal computer link module: LC02-0N						
		GT09-C100R40302-6T	10m								
		GT09-C200R40302-6T	20m								
		GT09-C300R40302-6T	30m								
		GT09-C30R40303-6T	3m		Temperature controller: GREEN series						–
		GT09-C100R40303-6T	10m								
		GT09-C200R40303-6T	20m								
		GT09-C300R40303-6T	30m								
		GT09-C30R40304-6T	3m		Temperature controller: UT2000 series						
		GT09-C100R40304-6T	10m								
		GT09-C200R40304-6T	20m								
		GT09-C300R40304-6T	30m								

※1 : Items listed above are developed by Mitsubishi Electric System & Service Co., LTD., and sold through your local sales office.
※2 : The applicable connection configuration and cable vary depending on the GOT main unit. For more details, see the GOT1000 Series Handbook and the GOT1000 Series Connection Manual.
※3 : RS-422 cables less than 10m and the RS-232 cable less than 3m can be used when the connector conversion box for the Handy GOT is used.
※4 : Can be used only with the GT105□ and GT104□.
※5 : To connect with RS-422/485 interface of GT16 main unit, an RS-422 conversion cable (GT16-C02R4-9S) is necessary.

Notes for use

Backward compatibility

Project data

GT Designer/GT Designer2 → GT Works3 compatibility ※

Project data created in GT Designer2 can be used in GT Works3.
Project data created in GT Designer can be used in GT Works3 after the data is converted by GT Designer2/GT Designer2 Classic.

GOT900 series → GOT1000 series compatibility ※

● Using data from the GOT-A900 series

Project data for the GOT-A900 series can be used in the GOT1000 series.
For the details, see Technical Bulletin No.GOT-A-0009 "Precautions when Replacing GOT-A900 Series with GOT1000 Series".

● Using data from the GOT-F900 series

Project data for the GOT-F900 series can be used in the GOT1000 series.
For the details, see "Replacement Guidance (for GOT1000 Series) – From GOT-F900/A950 Handy Series to GOT1000 Series" (JY997D39301).

※Some data and functions cannot be used in the GOT1000 series.

Cables

- For details on using the GOT-A900 series bus connection cables, RS-422 cables and RS-232 cables with the GOT1000 series, see Technical Bulletin No.GOT-A-0009.
- For details regarding use of the GOT-F900 series RS-422 cable with the GOT1000, please contact your local sales office.
- The bus connection cables, RS-422 cables and RS-232 cables for the GOT1000 series cannot be used for the GOT900 series.
  (For details regarding use of bus connection cables in systems where both the GOT-A900 and GOT1000 series coexist, see Technical Bulletin No. GOT-A-0009.)

Panel cut dimensions

GOT900 series → GOT1000 series compatibility

- The A985GOT(-V) and GT1685/GT1585, A975/970GOT(-B) and GT167□/GT157□, F940GOT and GT1655/GT155□/GT115□/GT105□ have the same panel dimensions, respectively. Therefore, it is not necessary to change the mounting hole size.
- Although the A95□ differs in panel cut dimensions from the GT1655, GT155□, GT115□-Q□BDQ and GT115□-Q□BDA, the GOT900 series model can be replaced with any of the GOT1000 series ones without changing the mounting hole size.

Selection of optional units and devices

Using the optional functions listed in the table below may require optional devices or units as shown. Note that the availability of the function or the required optional units and devices may vary depending on the model of the GOT main unit.
Functions not listed in the table below may also require a CF card or a USB memory device depending on the application. For details, see "Function list" (page 70) and "GT Designer3 Version1 Screen Design Manual."
An optional function board or a CF card may be necessary depending on the function version and hardware version of the GOT main unit or available space of the user area.
For details, see "Optional function board, CF card, and USB memory selection <GT16/GT15/GT12/GT11>" (page 82).

– : Function that cannot be used on the model

Function		Required optional units and devices GT16	GT16 Handy	GT15	GT12	GT11※6	GT10
Memory extension		CF card	CF card	Optional function board: GT15-QFNB□M or GT15-MESB48M CF card	–	–	–
Multi-channel function		Not necessary	Not necessary	Optional function board: GT15-QFNB(□M) or GT15-MESB48M	Not necessary	–	–
Multimedia function※1		Multimedia unit: GT16M-MMR CF card for multimedia	–	–	–	–	–
Video/RGB function	Video input※1 ※2	Video input unit: GT16M-V4 or Video/RGB input unit: GT16M-V4R1	–	Video input unit: GT15V-75V4 or Video/RGB input unit: GT15V-75V4R1	–	–	–
	RGB input※1 ※2	RGB input unit: GT16M-R2 or Video/RGB input unit: GT16M-V4R1	–	RGB input unit: GT15V-75R1 or Video/RGB input unit: GT15V-75V4R1	–	–	–
	RGB output※1 ※2	RGB output unit: GT16M-ROUT	–	RGB output unit: GT15V-75ROUT	–	–	–
CF card unit/CF card extension unit		CF card unit: GT15-CFCD or CF card extension unit: GT15-CFEX-C08SET	–	CF card unit: GT15-CFCD or CF card extension unit: GT15-CFEX-C08SET	–	–	–
Sound output function		Sound output unit: GT15-SOUT	–	Sound output unit: GT15-SOUT	–	–	–
Remote personal computer operation function (serial)※1 ※2		RGB input unit: GT16M-R2 or Video/RGB input unit: GT16M-V4R1	–	RGB input unit: GT15V-75R1 or Video/RGB input unit: GT15V-75V4R1	–	–	–
External input/output function, operation panel function		External input/output unit: GT15-DIO or GT15-DIOR	–	External input/output unit: GT15-DIO or GT15-DIOR	–	–	–
File transfer function (FTP client)		USB memory device or CF card	USB memory or CF card	CF card	–	–	–
Gateway function		Not necessary	Not necessary	Ethernet communication unit: GT15-J71E71-100	Not necessary	–	–
MES interface function		Optional function board: GT16-MESB	–	Ethernet communication unit: GT15-J71E71-100 Optional function board: GT15-MESB48M	–	–	–
Document display function		CF card	CF card	Optional function board: GT15-QFNB(□M) or GT15-MESB48M CF card	–	–	–
Operation log function		CF card	CF card	CF card	–	–	–
Backup/restoration function		USB memory device or CF card	USB memory or CF card	CF card	CF card	–	–
Maintenance time notification function		Not necessary (equipped with battery as standard feature)	Not necessary (equipped with battery as standard feature)	Battery: GT15-BAT	–	–	–
CNC data input/output function※3		USB memory device or CF card	–	CF card	–	–	–
Ladder monitor function※4 (when using Q/L/QnA ladder monitor function)		Not necessary	Not necessary	Optional function board: GT15-QFNB(□M) or GT15-MESB48M	–	–	–
SFC monitor function※4		CF card	CF card	Optional function board: GT15-QFNB□M or GT15-MESB48M CF card	–	–	–
Motion SFC monitor function※4		CF card	CF card	Optional function board: GT15-QFNB□M or GT15-MESB48M CF card	–	–	–
Ladder editor function※5		CF card	CF card	Optional function board: GT15-QFNB□M or GT15-MESB48M CF card	–	–	–
Report function		Printer unit: GT15-PRN (when PictBridge-compatible printer is used) CF card	–	Printer unit: GT15-PRN (when PictBridge-compatible printer is used) CF card	–	–	–
Hard copy function	Saving files on CF card	CF card	CF card	CF card	CF card	–	–
	Printing by printer	Printer unit: GT15-PRN (when PictBridge-compatible printer is used)	–	Printer unit: GT15-PRN (when PictBridge-compatible printer is used)	–	–	–

※1 : Excluding the GT16□□-VNB□ and GT1655.
※2 : For the GT15, only the GT1585V and GT1575V are applicable.
※3 : Only XGA and SVGA of the GT16 and GT15 are applicable.
※4 : Excluding QVGA of the GT155□.
※5 : Excluding the GT155□.
※6 : Including the GT11 Handy.

Optional function board, CF card, and USB memory selection <GT16/GT15/GT12/GT11>

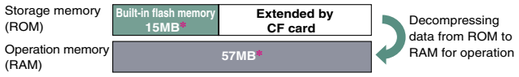
When using the GT16

When using optional functions & extended functions

When using the MES interface function, install the optional function board GT16-MESB.
No optional boards are necessary when using other functions.
Some functions, however, may require a CF card due to OS installation.
See below for details.

Storage memory (ROM) and operation memory (RAM)

The GOT operates by decompressing the OS and project data, which is stored in the storage memory (ROM), into the operation memory (RAM). Since the GT16 compresses some data before storing it in the storage memory (ROM), the data size becomes larger when decompressed in the operation memory (RAM).
The GT16 has a 15MB* built-in flash memory for storage memory (ROM) as a standard feature.
The CF card expands the memory capacity if the OS and project data exceeds 15MB*.
The GT16 has a 57MB* operation memory (RAM) as a standard feature. The operation memory is not extendable.
The built-in flash memory is for "drive C". The CF card is for "drive A (standard)" or "drive B (extension)."



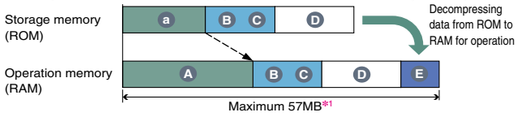
*: Differs depending on the GOT main unit model.

Types and capacities of data and CF card selection

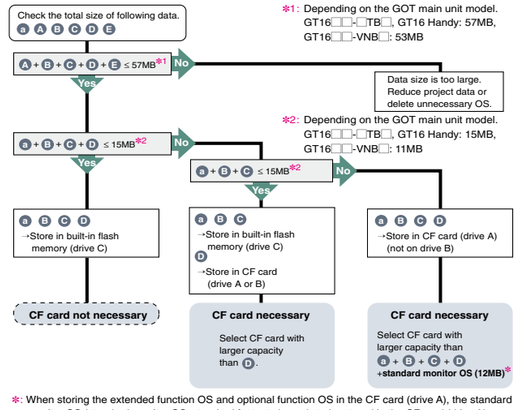
The data types and capacities are as shown in the table below.

Data type	Data capacity
(a) Extended function OS and optional function OS stored in ROM	Capacity of "GT16(ROM)" in【Table A】on page 84
(A) Extended function OS and optional function OS decompressed in RAM	Capacity of "GT16(RAM)" in【Table A】on page 84
(B) Communication driver	Check with【Table B】on page 84.
(C) Special data	Check with a screen design software.
(D) Project data	Check with a screen design software.
(E) Buffering area	Check with a screen design software.

As for the extended function OS and optional function OS, when decompressing the compressed data (a) in the storage memory (ROM) to the operation memory (RAM), the data size becomes larger as shown in (A).
The buffering area (E) is an area for storing resource data for the functions such as logging and advanced alarms. It uses the operation memory (RAM). The data size differs depending on the setting.
When the file save mode is specified in the screen design software, the accumulated resource data is stored in the designated storage (drive A or B). (The storage memory (ROM) is not used.)
If the size of data decompressed on the operation memory (RAM) exceeds 57MB*1, it is necessary to reduce, for instance, the project data size or delete unnecessary OS components.



Necessity and capacity of the CF card depends on the data size.
Determine the necessity and capacity of the CF card according to the following flow chart.



*: When storing the extended function OS and optional function OS in the CF card (drive A), the standard monitor OS (standard monitor OS, standard font, etc.) needs to be stored in the CF card (drive A).

CF card and USB memory capacities

The CF card and USB memory capacities are as follows.
FAT16 format: max. 2GB, FAT32 format: max. 32GB.
(Boot OS and standard monitor OS of GT Designer3 Ver.1.17T or later must be installed in order to use a CF card or USB memory with a capacity exceeding 2GB. Such CF cards and USB memories cannot be used with GT Works2 / GT Designer2.)

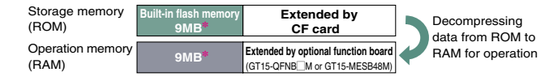
When using the GT15

When using optional functions & extended functions

When using the following function, install the optional function board GT15-MESB48M.
• MES interface function
When using the following function, install the optional function board GT15-QFNB□M or GT15-MESB48M.
• SFC monitor function • Motion SFC monitor function
When using the following functions, install the optional function board GT15-QFNB(□M) or GT15-MESB48M.
• Multi-channel function • Document display function
• MELSEC-Q/L/QnA ladder monitor function
The following GOT requires no optional function boards when using optional functions other than above.
• GT15: hardware version D or later
To activate the built-in optional function board in the GOT, it is necessary to install the standard monitor OS on the GOT using GT Designer Version 2.55H or later.
Some functions, however, require an optional function board with expansion memory (GT15-QFNB□M or GT15-MESB48M) and a CF card.
See below for details.

Storage memory (ROM) and operation memory (RAM)

The GOT operates by decompressing the OS and project data, which is stored in the storage memory (ROM), into the operation memory (RAM). The GT15 has a 9MB* memory for the storage memory (ROM) and the operation memory (RAM) as a standard feature. When the OS or the project data exceeds 9MB*, use a CF card and an optional function board with expansion memory (GT15-QFNB□M or GT15-MESB48M) to increase the memory capacity.
The built-in flash memory is for "drive C". The CF card is for "drive A (standard)" or "drive B (extension)."



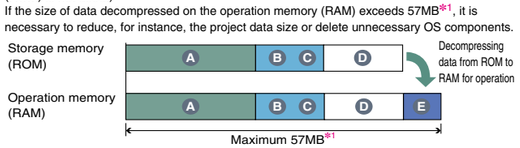
*: Differs depending on the GOT main unit model: GT15□□-□TB□: 9MB, GT15□□-VNB□: 5MB

Types and capacities of data and CF card selection

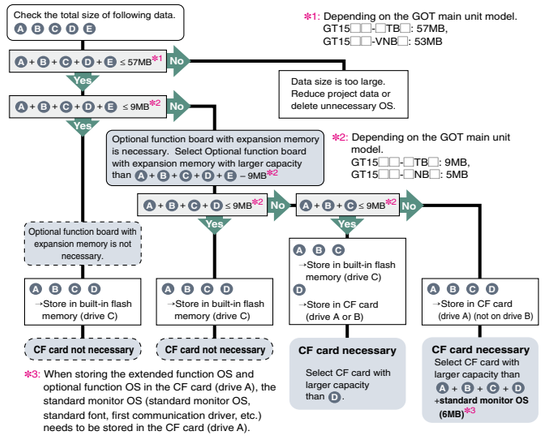
The data types and capacities are as shown in the table below.

Data type	Data capacity
(A) Extended function OS, optional function OS	Capacity of "GT15" on【Table A】on page 84
(B) Second communication driver and onwards	150KB for each
(C) Special data	Check with a screen design software.
(D) Project data	Check with a screen design software.
(E) Buffering area	Check with a screen design software.

The buffering area (E) is an area for storing resource data for the functions such as logging and advanced alarms. It uses the operation memory (RAM). The data size differs depending on the setting.
When the file save mode is specified in the screen design software, the accumulated resource data is stored in the designated storage (drive A or B). (The storage memory (ROM) is not used.)
If the size of data decompressed on the operation memory (RAM) exceeds 57MB*1, it is necessary to reduce, for instance, the project data size or delete unnecessary OS components.



Necessity and capacity of the optional function board with expansion memory and the CF card depends on the data size. Determine the necessity and capacity of the optional function board with expansion memory and the CF card according to the following flow chart.



*3: When storing the extended function OS and optional function OS in the CF card (drive A), the standard monitor OS (standard monitor OS, standard font, first communication driver, etc.) needs to be stored in the CF card (drive A).

CF card capacities

The CF card capacities are as follows. FAT16 format: max. 2GB, FAT32 format: not usable

When using the GT12

When using optional functions & extended functions

The optional function board is not required when using the optional functions or extended functions.
Some functions, however, may require a CF card due to OS installation.
See below for details.

Storage memory (ROM) and operation memory (RAM)

The GOT operates by decompressing the OS and project data, which is stored in the storage memory (ROM), into the operation memory (RAM).
The GT12 has a 9MB built-in flash memory for storage memory (ROM) as a standard feature.
The CF card expands the memory capacity if the OS and project data exceeds 9MB.
Up to 6MB of project data can be stored in the storage memory (ROM) or a CF card. When storing the project data to the storage memory (ROM), the maximum size of the project data may be less than 6MB depending on the data size of the extended function OS, optional function OS, and communication drivers.

The GT12 has a 12MB operation memory (RAM) as a standard feature. The operation memory is not extendable.
The extended function OS, optional function OS, and communication drivers occupy 6MB of the operation memory (RAM). The remaining 6MB of the operation memory (RAM) is used for the project data and the buffering area.



The built-in flash memory is for "drive C". The CF card is for "drive A (standard)".

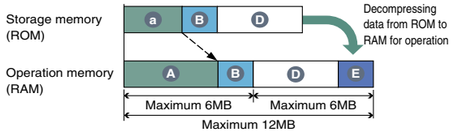
Types and capacities of data and CF card selection

The data types and capacities are as shown in the table below.

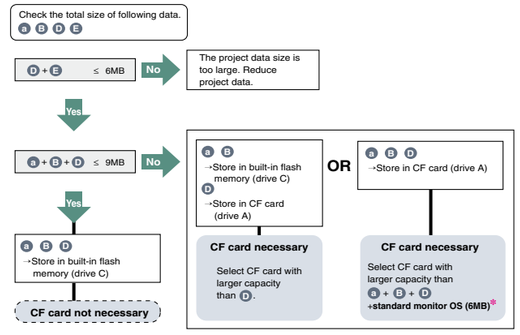
Data type	Data capacity
(a) Extended function OS and optional function OS stored in ROM	Capacity of "GT12(ROM)" in【Table A】on page 84
(A) Extended function OS and optional function OS decompressed in RAM	Capacity of "GT12(RAM)" in【Table A】on page 84
(B) Communication driver	Check with【Table B】on page 84.
(D) Project data	Check with a screen design software.
(E) Buffering area	Check with a screen design software.

As for the extended function OS and optional function OS, when decompressing the compressed data (a) in the storage memory (ROM) to the operation memory (RAM), the data size becomes larger as shown in (A).
Up to 6MB of the operation memory (RAM) can be used for the total of the data (A) and the data (B).

The buffering area (E) is an area for storing resource data for the functions such as logging and advanced alarms. It uses the operation memory (RAM). The data size differs depending on the setting.
When the file save mode is specified in the screen design software, the accumulated resource data is stored in the designated storage (drive A). (The storage memory (ROM) is not used.)
Up to 6MB of the operation memory (RAM) can be used for the total of the project data (D) and the buffering area (E). If the total data size exceeds 6MB, it is necessary to reduce, for instance, the project data size or delete unnecessary OS.



Necessity and capacity of the CF card depends on the data size.
Determine the necessity and capacity of the CF card according to the following flow chart.



*: When storing the extended function OS and optional function OS in the CF card (drive A), the standard monitor OS (standard monitor OS, standard font, etc.) needs to be stored in the CF card (drive A).

CF card capacities

The CF card capacities are as follows. FAT16 format: max. 2GB, FAT32 format: not usable

When using the GT11

When using optional functions

Since the following GOT models have a built-in optional function board (GT11-50FNB), it is unnecessary to mount an optional function board to use optional functions shown in【Table A】.
• GT115□-Q□BDQ • GT115□-Q□BDA • GT1155-QTBD
• GT115□HS-Q□BD: Version B or later • GT115□-Q□BD: Version C or later

CF card capacities

The CF card capacities are as follows. FAT16 format: max. 2GB, FAT32 format: not usable

Notes for use

【Table A】Used capacity of extended functional OS and optional function OS

	Function		User area size to be used (KB)			
			GT16/GT12※13		GT15	GT11
			RAM	ROM		
Extended functions	Barcode※13		84	50	84	※1
	RFID※13		166	50	166	※1
	System monitor※13		692	450	746	※1
	Report		235	150	235	None
	Printer (PictBridge)		1104	552	1104	None
	Printer (serial)		200	80	200	None
	Device name conversion library※12 ※14		800	400	800	None
	Stroke font	Stroke font support function	400	300	400	None
		Stroke basic font (Japanese)	2160	2160	2160	None
		Stroke basic font (Japanese) (with Hangul)	3175	3175	3175	None
		Stroke basic font (Chinese: Simplified)	1474	1474	1474	None
		Stroke basic font (Chinese: Simplified) (with Hangul)	2016	2016	2016	None
	Video display / RGB display	Video/RGB	480	298	512	None
	Multimedia		1074	292	None	None
	Remote personal computer operation (Ethernet)		5130	860	None	None
	Remote personal computer operation (serial)	Video/RGB	480	292	512	None
		Remote personal computer operation (serial)	84	50	84	None
	Backup/restoration※13		766	420	820	None
	Operator authentication	Operator authentication	730	460	784	None
	USB mouse/keyboard function		200	80	None	None
	Audio output		200	100	200	None
	External I/O, operation panel		100	70	100	None
	CNC data input/output	CNC data input/output	383	210	437	None
		GOT platform library	200	77	100	None
	Device data transfer		100	50	100	None
	MELSEC-L troubleshooting function		770	340	None	None
	SoftGOT-GOT link function		200	100	200	None
	Log viewer function		3882	1434	None	None
	File transfer function (FTP client)		1300	300	1300	None
Optional functions	Maintenance time notification		※2	※2	※2	None
	Multi-channel※13		※2	※2	※2	None
	Chinese region	Standard font (Chinese: Simplified)	1280	1280	1280	None
		Standard font (Chinese: Traditional)	1920	1920	1920	None
		Standard font (Japanese)	1280	1280	1280	None
		Stroke font (Japanese)	1037	1037	1037	None
		Stroke font (Chinese: Simplified)	1248	1248	1248	None
		Stroke font (Chinese: Traditional)	1680	1680	1680	None
	Operation log		1221	384	1218	None
	Document display		3072	150	2048	None
	Kana-Kanji conversion		None	None	1223	None
	Kana-Kanji conversion (enhanced version)		2774	1242	2774	None
	Historical data list display※3 ※13		※2	※2	※2	None
	Historical trend graph※3 ※13		※2	※2	※2	None
	Logging※4 ※13		710	380	740	None
	Recipe※13		100	70	100	※1
	Advanced recipe		1187	310	1241	None
	Object script※4		360	180	360	None
	Ladder monitor	MELSEC-A ladder monitor	674	342	523	None
		MELSEC-FX ladder monitor	674	342	592	None
		MELSEC-Q/L/QnA ladder monitor	4170	590	1082	None
	A list editor※13	MELSEC-A list editor	1024	542	1058	※1
	FX list editor※13	MELSEC-FX list editor	1024	542	1058	※1
	Intelligent unit monitor		770	390	384	None
	Network monitor		370	210	324	None
Optional functions	Q motion monitor		770	390	607	None
	Servo amplifier monitor		770	390	588	None
	CNC monitor		2108	442	1373※5	None
	SFC monitor※7	GOT platform library	200	77	100※5	None
		SFC monitor	19381	4729	4729※5	None
		GOT function extension library	12522	1240	2477※11	None
	Motion SFC monitor※10	GOT platform library	200	77	100※11	None
		Motion SFC monitor	8192	2567	5121※6	None
	Ladder editor※8	GOT platform library	19381	4729	4729※6	None
		Ladder editor	100	50	100	None
	Gateway	Gateway (server, client)	100	50	100	None
		Gateway (mail)	84	50	64	None
		Gateway (FTP server)※13	13461	1598	3196※9	None
	MES interface					

※1 : Requires installation of the optional function OS and extended function OS, but does not use the user area.
※2 : Installation of the optional function OS is not required.
※3 : It is necessary to specify the logging function and install the optional function OS (logging) in advance.
※4 : Necessary when using the GOT project data that is automatically created by PX Developer (Ver. 1.15 or later). For details, see "PX Developer Version 1 Operating Manual (GOT Screen Generator)(SH-080772ENG)."
※5 : To use the SFC monitor, free space of 6202KB or more is necessary in the user area of the specified drive for installing the extension function OS and optional function OS. The total capacity of the memory necessary for using the SFC monitor is 14393KB. Due to the above, the setting shown in Table 1 is necessary depending on the GOT to be used.

<Table 1>

GOT	Necessary setting
GT157□-VN, GT1562-VN	· Set boot source of OS to "A: standard CF card." · Memory extension (install optional function board with expansion memory)
Other than above	· Memory extension (install optional function board with expansion memory)

For setting the boot source of the OS, see "GT Designer3 Version1 Screen Design Manual (Fundamentals)."

※6 : To use the ladder editor, free space of 9950KB or more is necessary in the user area of the specified drive for installing the extension function OS and optional function OS. The total capacity of the memory necessary for using the ladder editor is 21212KB. For the above reasons, when using the ladder editor, specify "A: Standard CF card" for the OS boot source, and mount an optional function board with a memory capacity of 16MB or more.
※7 : To use the SFC monitor, it is necessary to install all of the GOT platform library, SFC monitor and GOT function extension library.
※8 : To use the ladder editor, it is necessary to install all of the GOT platform library, ladder editor and GOT function extension library.
※9 : The operation of the MES interface function uses 8218KB of the extended memory (GT15-MESB48M(48MB)) of GT15's operation memory.
※10 : To use the motion SFC monitor, it is necessary to install all of the GOT platform library and motion SFC monitor.
※11 : To use the motion SFC monitor, free space of 2577KB or more is necessary in the user area of the specified drive for installing the extended function OS and optional function OS. The total capacity of the memory necessary for using the motion SFC monitor is 12622KB. For the above reasons, mount an optional function board with a memory capacity of 16MB or more.
※12 : The device name conversion library (extended function) is required when confirming the trigger device on the GOT using the backup/restoration function and when outputting the device name using the operation log function.
※13 : Function usable with the GT12.
※14 : The GT12 user usage area is as follows. RAM: 500KB, ROM: 250KB

【Table B】Capacity of GT16/GT12 communication driver

Units connected	Communication driver name	Capacity (KB)
Mitsubishi PLC, motion controller, robot controller, CNC	Bus connection Q	180
	A/QnA/L/QCPU, LJ71C24, QJ71C24	180
	MELSEC-FX	180
	MELSECNET/H	200
	CC-Link IE Controller Network	200
	CC-Link IE Field Network	230
Third party PLC, motion controller	JTEKT Corporation TOYOPUC-PC	160
	Ethernet (Yaskawa Electric Corporation)	160
Microcomputer	Microcomputer connection, Ethernet (microcomputer)	230
Communication drivers other than above		150

To use the multi-channel function <GT16/GT15/GT12>

The multi-channel function is designed to connect and monitor multiple FA devices by mounting multiple communication units on a single GOT unit or by using the standard interface.

Acceptable combinations

The following connection combinations can be used for the multi-channel function.

When using GT16:

①Bus connection or network connection ※1 + serial connection ※2
②Bus connection or network connection ※1 + Ethernet connection ※3
③Ethernet connection ※3 + serial connection ※2
④Bus connection or network connection ※1 + Ethernet connection ※3 + serial connection ※2
⑤Serial connection ※2
⑥Ethernet connection ※3
※ GT16 Handy can be connected only by methods ③ or ⑥.

When using GT15:

①Bus connection, network connection ※1, or Ethernet connection ※3 + serial connection ※2
②Serial connection ※2

When using GT12:

①Ethernet connection ※3 + serial connection ※2
②Serial connection ※2

※1: The network connections include the following connection configurations.
- MELSECNET/H connection
- MELSECNET/10 connection
- CC-Link IE Controller Network connection
- CC-Link IE Field Network connection
- CC-Link connection (ID)

※2: The serial connections include the following connection configurations.
- CPU direct connection
- Computer link connection
- CC-Link connection (via G4)
- Microcomputer connection (serial)
- Connection with third party PLCs (serial)
- Temperature controller connection
- Inverter connection
- Servo amplifier connection
- CNC connection (CPU direct connection)
- GOT multi-drop connection
- MODBUS®/RTU connection
- Robot controller connection (serial)

※3: The Ethernet connections include the following connection configurations.
- Ethernet connection
- MODBUS®/TCP connection
- Third party PLC connection (Ethernet)
- Robot controller connection (Ethernet)
- CNC connection (Ethernet)
- Microcomputer connection (Ethernet)

Maximum number of connectable channels, mountable units and mounting stages

(1) Number of connectable channels
The number of connectable channels varies depending on the GOT model. See Table C on the following page.
(2) Number of mountable units and mounting stages
When the multi-channel function is used, add interfaces to the GOT using any of the following methods.
(a) Stack communication units on the extension interface.
(b) Mount communication units on the extension interface to use the unit in combination with the standard interface. The number of mountable units and mounting stages vary depending on the GOT model. See Table C on the following page.

※: The performance of GOT may be affected depending on the configuration of connected devices.
※: Up to two channels can be connected to the GT12.
※: No communication units can be mounted on the GT12.

Optional function board

Not necessary when using the GT16 and GT12.
The GT15 requires an optional function board. Use the optional function board GT15-QFNB(□M) or GT15-MESB48M. The GT15-FNB cannot be used.

Communication driver

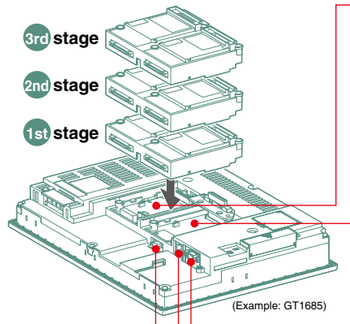
A communication driver must be installed for each of the connection configurations.
For the GT16, the communication driver is installed in the user area.
For the GT15, communication drivers for the second and subsequent channels will be installed in the user area.
For the GT12, the communication driver is installed in the system area.

【Table C】Number of connectable channels, number of mountable units and number of mountable stages when the multi-channel function is used

		GT1695/GT1685/GT167□/GT166□	GT1655	GT1595/GT1585/GT157□/GT156□	GT155□	Handy GT16	GT12	Description	
(1)	Number of connectable channels	Up to 4 channels			Up to 2 channels	Up to 4 channels	Up to 2 channels	<GT16/GT15/GT12> The number of communication ports (communication units and interfaces) for use for communication on the GOT. • Only one channel per one GOT can be connected in the bus connection (excluding GT12) and network connection. • When the Ethernet interface built into the GOT (GT16/GT12) or the Ethernet communication unit (GT15) is used for functions other than communication with the connected device ※4, the interface is not included in the number of connected channels. • The number of channels does not include the interface used for connection with external devices. ※5 <GT16 only> • Ethernet connection is available for up to four channels.	
(2)	Number of mountable units	Up to 5 units	Up to 3 units	Up to 5 units	Up to 3 units	No units can be mounted	No units can be mounted	The number of units that can be mounted on extension interfaces 1 and 2 of the GOT. • More than one serial communication unit ※6 of the same model can be mounted. • Optional units are included in the number of units. • RS-422 conversion units are not included in the number of units. (The RS-422 conversion unit cannot be used with GT1655 and GT155□.) • It is necessary to calculate the total current consumed by the units to be mounted.	See "Calculation of current consumed by units < GT16/GT15>" (page 85).
	Number of mounting stages	Up to 3 stages (2 slots)	Up to 3 stages (1 slot)	Up to 3 stages (2 slots)	Up to 3 stages (1 slot)	No units can be mounted	No units can be mounted	The number of mounting stages that units can be stacked on extension interfaces 1 and 2 of GOT. • Units that occupy two slots ※7 ※8 must be mounted on the first stage. • When any units in ※8 are used, mount the unit on the first stage, then mount other units on the second or subsequent stages. • Units in ※9 cannot be stacked on other units. Mount units on the first stage.	See "External dimensions" (page 61) and "Mounting units on the GOT side interface <GT16/GT15>" (page 85).

※4 : Ethernet download function, gateway function, MES interface function, file transfer function (FTP client), remote personal computer function (Ethernet)
※5 : Barcode reader, RFID controller, personal computer (remote personal computer function [serial], FA transparent function, OS write, and project data write), and printer (serial)
※6 : GT15-RS2-9P, GT15-RS4-9S and GT15-RS4-TE
※7 : GT15-QBUS2, GT15-ABUS2, GT15-J71LP23-25, GT15-J71BR13, GT15-J61BT13, GT15-J71GP23-SX
※8 : GT16M-V4, GT15V-75V4, GT16M-R2, GT15V-75R1, GT16M-V4R1, GT15V-75V4R1, GT16M-ROUT, GT15V-75ROUT, GT16M-MMR
※9 : GT15-75QBUSL, GT15-75QBUS2L, GT15-75ABUSL, GT15-75ABUS2L, GT15-75J71LP23-Z, GT15-75J71BR13-Z, GT15-75J61BT13-Z

Mounting units on the GOT interface <GT16/GT15>



Extension interface 1 (On GT16 Handy, no units can be mounted because it does not have extension interface 1 or 2.)

Extension interface 2 (GT1655 and GT155□ has the extension interface 1 only)

Up to 3 communication units and optional units can be mounted on each extension interface.

Mount a unit that occupies two slots on the first stage.
However, when any of the following units are used, mount the unit on the first stage, then mount other units on the second and subsequent stages.

For GT16 (Only one of these units can be mounted on the GT16 except GT16□□-VNB□ and GT1655)
●GT16M-V4, GT16M-R2, GT16-V4R1, GT16-ROUT, GT16M-MMR

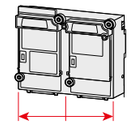
For GT15 (Only one of these units can be mounted on the GT1585V and GT1575V)
●GT15V-75V4, GT15V-75R1, GT15V-75V4R1, GT15V-75ROUT

The following units must not be stacked on other units. Mount any of them on the first stage.
●GT15-75QBUSL, GT15-75QBUS2L, GT15-75ABUSL, GT15-75ABUS2L
●GT15-75J71LP23-Z, GT15-75J71BR13-Z, GT15-75J61BT13-Z (GT16 or GT155□ cannot be used.)

Instructions for mounting and removing the GT15-CFCD
●An extension unit cannot be mounted on a CF card unit.
When extension units are mounted, mount the CF card unit on the last stage.
●When mounting a CF card unit on extension interface 1 (left), ensure that the number of extension units mounted on extension interface 2 (right) is smaller than the number on the extension interface 1 (left). Otherwise, the CF card cannot be inserted or removed.
●Remove the CF card unit in the designated direction (△PULL) to prevent damage to the connector.

Unit occupying two slots

Ex.: GT15-QBUS2



2 slots (1st stage) are occupied.

Standard interface (built-in RS-232 interface)

The interface can establish a serial connection with connected devices and peripheral devices, such as a barcode reader.

Standard interface (built-in Ethernet interface) (GT16 only)

The interface can establish a connection with connected devices via Ethernet.

Standard interface (built-in RS-422/485 interface) (GT16 only)

The interface can establish a serial connection with connected devices.

Calculation of current consumed by units <GT16/GT15>

When using multiple units, a barcode reader, and a RFID controller, the total current consumed by the units, barcode reader and RFID controller must be less than the current that can be supplied by the GOT. Design the system using the following values so that the total current is within the range of the current supply capacity of the GOT.

(1) Current that can be supplied by the GOT

GOT model	Current supply capacity (A)
GT1695	2.4
GT1685	2.4
GT167□	2.4
GT166□	2.4
GT1655	1.3
GT1595	2.13
GT1585 (incl. GT1585V)	1.74
GT157□ (incl. GT1575V)	2.2
GT156□	2.2
GT155□	1.3

(2) Current used by units, barcode reader and RFID controller

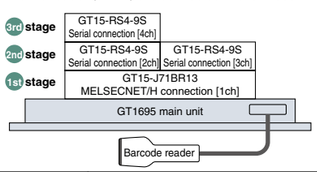
Unit model	Consumed current (A)
GT15-QBUS GT15-QBUS2 GT15-75QBUSL GT15-75QBUS2L	0.275※1
GT15-ABUS GT15-ABUS2 GT15-75ABUSL GT15-75ABUS2L	0.12
GT15-RS2-9P	0.29
GT15-RS4-9S	0.33
GT15-RS4-TE	0.3
GT15-RS2T4-9P	0.098
GT15-J71E71-100	0.224
GT15-J71GP23-SX	1.07
GT15-J71GF13-T2	0.96
GT15-J71LP23-25	0.56
GT15-J71BR13	0.77
GT15-J61BT13	0.56

Unit model	Consumed current (A)
Barcode reader	※2
GT15-PRN	0.09
GT16M-V4	0.12※1
GT15V-75V4	0.2※1
GT16M-R2	0※1
GT15V-75R1	0.2※1
GT16M-V4R1	0.12※1
GT15V-75V4R1	0.2※1
GT16M-ROUT	0.11※1
GT15V-75ROUT	0.11
GT16M-MMR	0.27※1
GT15-CFCD	0.07
GT15-CFEX-C08SET	0.15
GT15-SOUT	0.08
GT15-DIO	0.1
GT15-DIOR	0.1
RFID controller	※2

※1 : This value is used for calculating the current consumption of multi-channel functions. For the specifications of each unit, see the manual supplied with each unit.
※2 : When using a barcode reader or a RFID controller to which the power is supplied from the standard interface, add the current to be used by the barcode reader or RFID controller at 5VDC. (Maximum: less than 0.3A)

(3) Calculation example

When GT15-J71BR13, GT15-RS4-9S (3 units), and barcode reader (0.12A) are connected to a GT1695.



Current supply capacity of GOT (A)	Total current to be consumed (A)
2.4	0.77+0.33+0.33+0.33+0.12=1.88

Since the total current is within the current supply capacity of the GOT, the units can be used.

Notes for use

MELSOFT GT Works3 (English version) operating environment

Item	Details	
PC	PC/AT compatible machine on which the following OS operates	
OS	• Microsoft® Windows® 2000 Professional Service Pack 4 or later (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※1 • Microsoft® Windows® XP Professional Service Pack 2 or later (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※1※3※4 • Microsoft® Windows® XP Home Edition Service Pack 2 or later (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※1※3※4	• Microsoft® Windows Vista® Ultimate (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※2※3※4 • Microsoft® Windows Vista® Enterprise (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※2※3※4 • Microsoft® Windows Vista® Business (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※2※3※4 • Microsoft® Windows Vista® Home Premium (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※2※3※4 • Microsoft® Windows Vista® Home Basic (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※2※3※4 • Microsoft® Windows® 7 Ultimate (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※2※3※5※9※10 • Microsoft® Windows® 7 Enterprise (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※2※3※5※9※10 • Microsoft® Windows® 7 Professional (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※2※3※5※9※10 • Microsoft® Windows® 7 Home Premium (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※2※3※9※10 • Microsoft® Windows® 7 Starter (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※2※3※4
CPU	1 GHz or more recommended	
Required memory	512 MB or more recommended	1 GB or more recommended
Display	Resolution XGA (1024 × 768 dots) or more	
Available hard disk space	To install GT Designer3: 2 GB or more recommended To run GT Designer3: 512 MB or more recommended	
Display colors	High Color (16 bits) or more	

Software

Simulation on a PC requires the following software:
• GX Works2 version 1.12N or later※6 or GX Simulator version 5.00A or later※6.
※The applicable software version of GX Works2 or GX Simulator varies depending on the PLC CPU to be simulated.

PLC CPU to be simulated	GX Simulator	GX Works2
QCPU (A mode), ACPU, motion controller CPU (A series)	Version 5.00A or later	–
QnACPU	Version 5.40E or later	Version 1.24A or later
FX0 series, FX0N series, FX0S series, FX1 series, FX1N series, FX1NC series, FX1S series, FX2 series, FX2C series, FX2N series, FX2NC series		
QCPU (Q mode) (excluding Q00J, Q00, and Q01 CPUs)		Version 1.12N or later
Q00JCPU, Q00CPU, Q01CPU	Version 6.00A or later	
Q02PHCPU, Q06PHCPU	Version 7.20W or later	–
Q12PHCPU, Q25PHCPU	Version 6.10L or later	
Q12PRHCPU, Q25PRHCPU	Version 6.20W or later	
FX3UC Series	Version 7.08J or later	Version 1.24A or later
FX3U Series※7		
FX3G Series※7	Version 7.22Y or later	
Q00UJCPU, Q00UCPU, Q01UCPU, Q02UCPU, Q03UDCPU, Q04UDHCPU, Q06UDHCPU, Q10UDHCPU, Q13UDHCPU, Q20UDHCPU, Q26UDHCPU, Q03UDECPU, Q04UDEHCPU, Q06UDEHCPU, Q10UDEHCPU, Q13UDEHCPU, Q20UDEHCPU, Q26UDEHCPU	Version 7.23Z or later	Version 1.12N or later
LCPU	–	Version 1.24A or later
Q50UDEHCPU, Q100UDEHCPU		Version 1.30G or later

Others	Mouse, keyboard, printer, CD-ROM drive, sound function (sound card)※8 and loudspeakers※8 used with the above OS
Applicable GOT	GOT1000 Series

※1 : Installation requires administrator authority. Simulating the GOT-A900 requires administrator authority.
※2 : Installation requires administrator authority. Using GT Works3 requires an account higher than the standard user.
To use GT Works3 with another application, if an administrator account is used to run the application then use an administrator account to run GT Works3.
Simulating the GOT-A900 requires administrator authority.
※3 : The following functions are not supported:
Compatibility Mode, Fast User Switching, Desktop Theme (Font) Change, Remote Desktop
※4 : Only the 32-bit OS is applicable.
※5 : Windows XP Mode is not supported.
※6 : Use GT Simulator3, GX Developer, GX Simulator, and GX Works2 of the same language version.
※7 : The GOT-A900 cannot be simulated.
※8 : May be required when the simulation function is used.
※9 : Windows Touch features are not supported.
※10 : The 32-bit OS and the 64-bit OS NEW are applicable.

GT SoftGOT1000 Version3 (English version) operating environment

Item	Description	
	With DOS/V personal computer	With PC CPU module
Personal computer	PC/AT compatible machine on which the following OS operates	CONTEC PC CPU unit (PPC-852-212, PPC-852-217, PPC-852-226)※7
OS	Microsoft® Windows® 2000 Professional Service Pack 4 or later (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※2 ※4 Microsoft® Windows® XP Professional Service Pack 2 or later (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※3 ※4 ※9 Microsoft® Windows® XP Home Edition Service Pack 2 or later (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※3 ※4 ※9 Microsoft® Windows® XP Embedded (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※3 ※4 ※8 Microsoft® Windows Vista® Ultimate (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※3 ※4 ※9 Microsoft® Windows Vista® Enterprise (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※3 ※4 ※9 Microsoft® Windows Vista® Business (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※3 ※4 ※9 Microsoft® Windows Vista® Home Premium (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※3 ※4 ※9 Microsoft® Windows Vista® Home Basic (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※3 ※4 ※9 Microsoft® Windows® 7 Ultimate (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※3 ※4 ※12 ※13 ※14 Microsoft® Windows® 7 Enterprise (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※3 ※4 ※12 ※13 ※14 Microsoft® Windows® 7 Professional (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※3 ※4 ※12 ※13 ※14 Microsoft® Windows® 7 Home Premium (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※3 ※4 ※13 ※14 Microsoft® Windows® 7 Starter (English, Simplified Chinese, Traditional Chinese, Korean, German versions)※3 ※4 ※9	
CPU	Recommended: 1GHz or more	
Required memory	Other than Microsoft® Windows Vista®, Microsoft® Windows® 7: 512MB or more Microsoft® Windows Vista®, Microsoft® Windows® 7: 1GB or more recommended	
Display	Resolution of VGA (640 × 480 dots) or more	
Free hard disk space※1	For installation: 2GB or more recommended For execution: 512MB or more recommended	
Display colors	High Color (16 bit) or more	
Hardware※6	GT15-SGTKEY-U (License key (for USB port)) GT15-SGTKEY-P (License key (for parallel port))	GT15-SGTKEY-U (License key (for USB port))
Software	When creating or editing project data : GT Designer3※5 When using with PX Developer : PX Developer Version 1.14Q or later GT Designer3 Version 1.01B or later	
Other	Mouse, keyboard, printer, CD-ROM drive, sound function (sound speaker), or speaker	

Specification

Item	Description
Resolution (dots)	640 × 480, 800 × 600, 1024 × 768, 1280 × 1024, 1600 × 1200 Specifiable resolution (640 to 1920 × 480 to 1200)
Display colors	65,536 colors
Memory capacity	57MB
Connection configuration※10	Bus connection※11, CPU direct connection, computer link connection, CC-Link IE Controller Network connection, CC-Link IE Field Network connection, MELSECNET connection, Ethernet connection

※1 : Use of GT Designer3 and PX Developer requires additional memory space. For free space required when using the PX Developer monitoring tool, refer to the PX Developer Version1 Operation Manual (Monitor Tool). Additional memory space is also required when using user-created applications.
※2 : Administrator authority is required to install GT SoftGOT1000.
※3 : Administrator authority is required to install and operate GT SoftGOT1000.
※4 : The following functions are not supported.
• Compatibility Mode • Fast User Switching
• Desktop Theme (Font) Change • Remote Desktop
※5 : GT Designer3 and GT SoftGOT1000 must be installed from the same GT Works3 suite.
※6 : The PC must be equipped with a USB port to use the GT15-SGTKEY-U. The PC must be equipped with a parallel port (Centro/printer connector) to use the GT15-SGTKEY-P.
※7 : For CONTEC PC CPU unit, refer to the manual for the PC CPU module.
※8 : Use is possible only when PPC-852-226 is preinstalled.
※9 : Supported only by the 32-bit OS.
※10 : The required devices vary depending on the connection configuration.
※11 : Connectable only when using a PC CPU unit.
※12 : Windows XP Mode is not supported.
※13 : Windows Touch features are not supported.
※14 : The 32-bit OS and the 64-bit OS NEW are applicable.

Warranty

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

Gratis Warranty Term and Gratis Warranty Range

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

■Gratis Warranty Term

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

■Gratis Warranty Range

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

Onerous repair term after discontinuation of production

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

Overseas service

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

Exclusion of loss in opportunity and secondary loss from warranty liability

Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation to damages caused by any cause found not to be the responsibility of Mitsubishi, loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products, special damages and secondary damages whether foreseeable or not, compensation for accidents, and compensation for damages to products other than Mitsubishi products, replacement by the user, maintenance of on-site equipment, start-up test run and other tasks.

Changes in product specifications

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

Product application

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

"Mitsubishi Global FA Centers" are located around the world in Asia, North America and Europe to provide optimum services.

● Global FA Centers

◎Shanghai FA Center
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◎ASEAN FA Center
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◎India FA Center
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◎Thailand FA Center
Mitsubishi Electric Automation (Thailand) Co., Ltd.
Bang-Chan Industrial Estate No.111, Soi Serithai 54, T.Kannayao, A.Kannayao, Bangkok10230, Thailand
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Complying with international quality assurance standards

All of Mitsubishi Electric's FA component products have acquired the international quality assurance "ISO9001" and the environment management system standard "ISO14001" certification. Mitsubishi's products also comply with various safety standards, including UL standards.

<Safety standards>

Mark	Standards/Agency	Country/Region
CE	EN Standards	Europe
UL	UL Standards	United States
cUL	Canadian Standards Association (CSA)	Canada

<Shipping Standards>

Abbrev.	Name	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 standards, please contact your local sales office.

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Mitsubishi Electric Corporation Nagoya Works and Himeji Works are factories certified for ISO14001 (standards for environmental management systems) and ISO9001 (standards for quality assurance management systems).

Mitsubishi Graphic Operation Terminal

Precautions for Choosing the Products

This catalog explains the typical features and functions of the GOT1000 series HMI and does not provide restrictions and other information on usage and module combinations.
When using the products, always read the user's manuals of the products.
Mitsubishi will not be held liable for damage caused by factors found not to be the cause of Mitsubishi; machine damage or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi products; and to other duties.

⚠ For safe use

- To use the products given in this catalog properly, always read the related manuals before starting to use them.
- The products within this catalog have been manufactured as general-purpose parts for general industries and have not been designed or manufactured to be incorporated into any devices or systems used in purpose related to human life.
- Before using any product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi.
- The products within this catalog have been manufactured under strict quality control. However, when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

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