



Changes for the Better

Mitsubishi Graphic Operation Terminal

GRAPHIC OPERATION TERMINAL
GOT1000

The best solutions for your industry needs.
An innovative and highly perfected platform -- the GOT1000 Series.



Jul. 2007 GOT1000 GRAPHIC OPERATION TERMINAL

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).





GT15

With various sophisticated functions and a vast lineup, now is the start of a new movement in the GOT symphony.



GT11



GOT1000 GRAPHIC OPERATION TERMINAL

GRAPHIC OPERATION TERMINAL **GOT1000**

The GOT1000 series, originating from and developed for the needs of the industry

The desire to offer a display which meets users' needs has been our theme since the birth of

GOT1000 and its development has been continued by constantly adding new functions.

The vast GOT1000 lineup with its new functions continues to advance.

GOT1000 boasts unique and innovative functions such as the backup/restoration function which is the key to shortening downtime, and the operator authentication function which is an effective from of security to work management.

Now with the compact GT10 series models including the 3.7" type micro-GOT, we have a total of 44 models in our lineup.

The GOT is developed based on the idea of usability, taking into account the requests from customers.

Under the slogan "Simply the best!" Mitsubishi Electric aims at a unique brand of display.

Again, we bring you new possibilities.

Toward a unique GOT brand

The needs expressed by users will continue to be a central part of the GOT series evolution to the next-generation display. Mitsubishi Electric's aims are summed up by the slogan, "Simply the best!"

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A total of 44 GOT1000 models

GRAPHIC OPERATION TERMINAL **GOT1000**

Performance is the pride of GOT1000.



Common features

Performance 1

Beautiful and expressive screens

- TFT65536 full color (GT15)
- STN4096 colors (GT15)
- Monochrome 16 gray scales
- Greatly increased memory capacity



Performance 2

Standard front-mounted USB interface

- Up to 20 times faster data transmission than previous models.
- Front-mounted USB interface improves work efficiency.



Performance 3

Drawing, computing, communication A triad of high-speed response

- Drawing: Equipped with a high-speed drawing chip (GT15)
- Computing: Offers high-speed computing performance
- Communication: Bus connection and RS-232 communication (max. 115.2 kbps)



OPEN!

15" TFT (High-brightness, wide viewing angle)
GT1595-XTBA AC type
XGA GT1595-XTBD DC type **NEW**

Resolution : 1024 × 768
Display colors : 65536 colors



10.4" TFT (High-brightness, wide viewing angle)
GT1575-VTBA AC type
VGA GT1575-VTBD DC type

Resolution : 640 × 480
Display colors : 65536 colors



NEW
12.1" TFT (High-brightness, wide viewing angle)
GT1585V-STBA AC type
SVGA GT1585V-STBD DC type

Resolution : 800 × 600
Display colors : 65536 colors
Video/RGB model



10.4" TFT
GT1575-VNBA AC type
VGA GT1575-VNBD DC type

Resolution : 640 × 480
Display colors : 256 colors



12.1" TFT (High-brightness, wide viewing angle)
GT1585-STBA AC type
SVGA GT1585-STBD DC type

Resolution : 800 × 600
Display colors : 65536 colors



10.4" TFT
GT1572-VNBA AC type
VGA GT1572-VNBD DC type

Resolution : 640 × 480
Display colors : 16 colors



NEW
10.4" TFT (High-brightness, wide viewing angle)
GT1575V-STBA AC type
SVGA GT1575V-STBD DC type

Resolution : 800 × 600
Display colors : 65536 colors
Video/RGB model



8.4" TFT (High-brightness, wide viewing angle)
GT1565-VTBA AC type
VGA GT1565-VTBD DC type

Resolution : 640 × 480
Display colors : 65536 colors



10.4" TFT (High-brightness, wide viewing angle)
GT1575-STBA AC type
SVGA GT1575-STBD DC type

Resolution : 800 × 600
Display colors : 65536 colors



8.4" TFT
GT1562-VNBA AC type
VGA GT1562-VNBD DC type

Resolution : 640 × 480
Display colors : 16 colors



GT 15 Functions bearing this mark are available only on the GT15 series models. All other functions are supported by both the GT11 and GT15 series.

(Full-spec models accommodate a wide range of applications in stand-alone or network environments)
Full-spec models

GT15

The upper model of the GOT1000 series aiming at the best performance for the next-generation HMI. Various models are available to meet the application needs.

NEW
5.7" TFT (High-brightness, wide viewing angle)
VGA GT1555-VTBD DC type

Resolution : 640 × 480
Display colors : 65536 colors



NEW
5.7" TFT (High-brightness, wide viewing angle)
QVGA GT1555-QTBD DC type

Resolution : 320 × 240
Display colors : 65536 colors



NEW
5.7" STN
QVGA GT1555-QSBD DC type

Resolution : 320 × 240
Display colors : 4096 colors



NEW
5.7" STN
QVGA GT1550-QLBD DC type

Resolution : 320 × 240
Display colors : 16 gray scales



(Standard models offer a full array of basic functions for stand-alone use)
Standard models

GT11

A convenient, standard model with usability as a design concept. Even beginners can utilize the brilliant performance of the standard series.

NEW
5.7" TFT
GT1155-QTBQ DC type Q bus connection
QVGA GT1155-QTBDA DC type A bus connection

Resolution : 320 × 240
Display colors : 256 colors



5.7" Handy GOT/STN
QVGA GT1155HS-QSBD DC type

Resolution : 320 × 240
Display colors : 256 colors



5.7" STN
GT1155-QSBD DC type
QVGA GT1155-QSBDQ DC type Q bus connection **NEW**
GT1155-QSBD A bus connection **NEW**

Resolution : 320 × 240
Display colors : 256 colors



5.7" Handy GOT/STN
QVGA GT1150HS-QLBD DC type

Resolution : 320 × 240
Display colors : 16 gray scales



5.7" STN
GT1150-QLBD DC type
QVGA GT1150-QLBDQ DC type Q bus connection **NEW**
GT1150-QLBDA DC type A bus connection **NEW**

Resolution : 320 × 240
Display colors : 16 gray scales



(Compact models include all the basic functions required for a HMI display)
Compact models

GT10

A compact model which meets customers' needs. The usability of the GOT1000 series in its simplest design.

NEW
4.5" STN
GT1030-LBD 24 VDC type RS-422 connection
GT1030-LBD2 24 VDC type RS-232 connection

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



NEW
4.5" STN
GT1030-LBDW 24 VDC type RS-422 connection
GT1030-LBDW2 24 VDC type RS-232 connection

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



NEW
3.7" STN
GT1020-LBD 24 VDC type RS-422 connection
GT1020-LBD2 24 VDC type RS-232 connection
GT1020-LBL 5 VDC type RS-422 connection

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



NEW
3.7" STN
GT1020-LBDW 24 VDC type RS-422 connection
GT1020-LBDW2 24 VDC type RS-232 connection
GT1020-LBLW 5 VDC type RS-422 connection

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

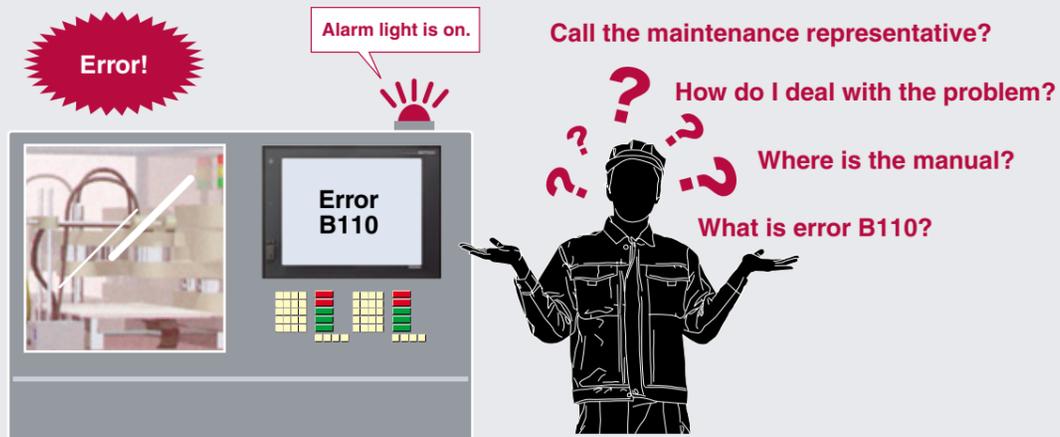


* : For the detailed functions of the GT10 series, see pages 43 - 45.

CASE 1

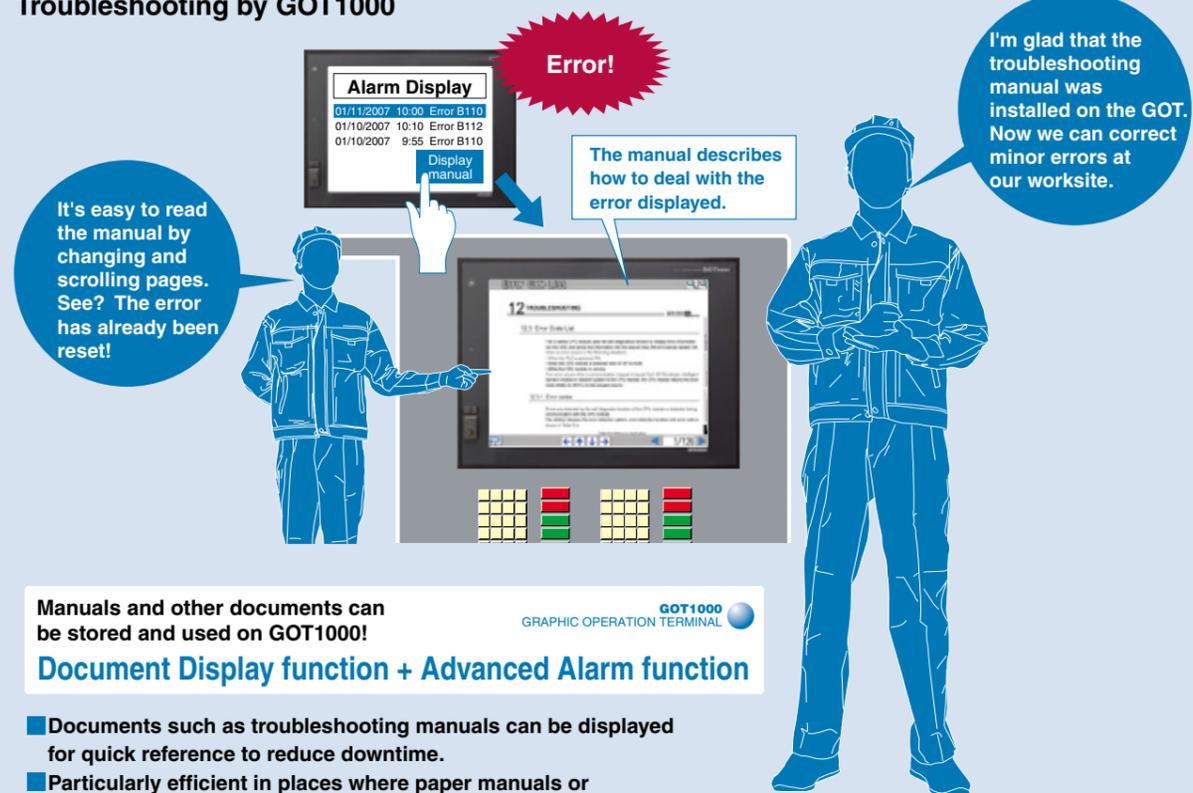
Don't panic when encountering unexpected errors — Quick troubleshooting at the worksite

Before



GOT Solution 1

Troubleshooting by GOT1000



Manuals and other documents can be stored and used on GOT1000!

GOT1000 GRAPHIC OPERATION TERMINAL

Document Display function + Advanced Alarm function

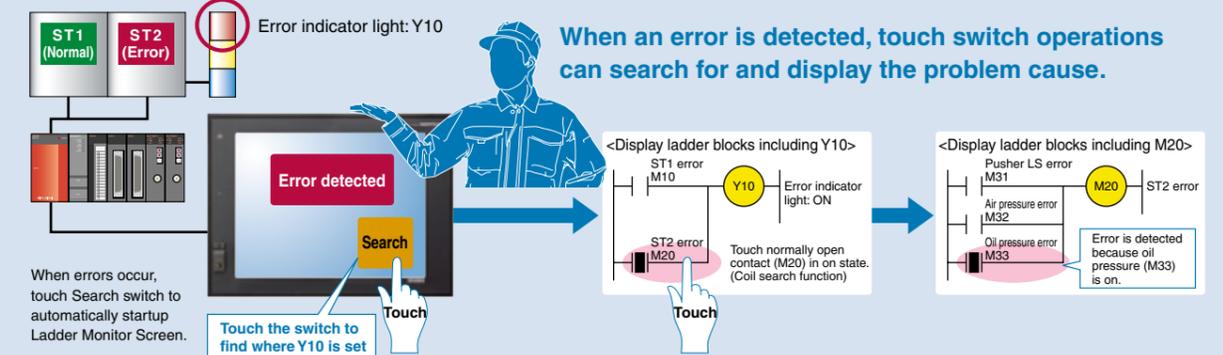
- Documents such as troubleshooting manuals can be displayed for quick reference to reduce downtime.
- Particularly efficient in places where paper manuals or personal computers cannot be brought in, such as clean rooms.
- Various types of general-purpose documents can be displayed. (doc, xls, ppt, pdf, jpg and bmp)

<For more details, see pages 34 to 38 of this catalog.>

GOT Solution 2

Investigate the problem cause at the production site

(Error occurred in ST2 device!)



Reduce downtime after problems caused by equipment breakdown or halt in the operation

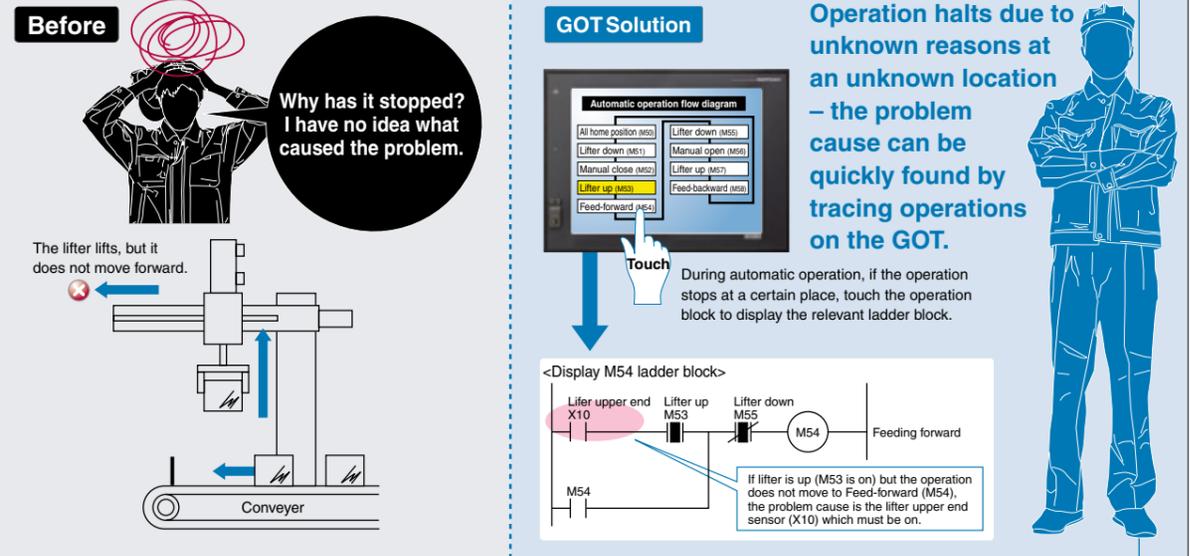
GOT1000 GRAPHIC OPERATION TERMINAL

One-Touch Ladder Jump function

- Just touch the operation flow diagram on the GOT, which will show you the root cause of the problem. There is no need to use personal computers or ladder programs.
- Using general purpose PLC error indication programs and detection programs makes developing new search programs and screens unnecessary.

<For more details, see page 40 of this catalog.>

(Application case) When error messages are not displayed



CASE 2

Quickly detect the cause of the problem to minimize production loss due to unexpected product failures

Before

Production failure!

There is no way to know which operation caused the problem...

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

Who was working at that time? I don't remember.

What was being operated and how?

GOT Solution

What is the cause of the defective product?

You don't have to panic. GOT will find the cause.

The operation log including the operator information is shown for analysis.

It is found that Jon Smith entered wrong data.

Root cause investigation by using the operator information and the operation records stored in the CF card
Operator Authentication function + Operation Log function

- In combination with the Operator Authentication function, the Operation Log function enables users to identify the problem cause in detail, such as who did which operation (e.g. key operation, data input) and entered what kind of data.
- If a defective product is produced due to an operation error, the operator and the operation contents are easily and quickly accessible.
- As long as the real cause is found, measures can be taken to prevent a recurrence.

We can determine the cause of the error and this will be helpful in improving operations and preventing a recurrence.

<For more details, see page 37 of this catalog.>

CASE 3

Backup your sequence programs on the GOT. Keep your system safe in case of a PLC failure.

Before

PLC failed!

No battery!

I have to go back to the worksite right now!

I need to go to the warehouse to get another PLC!

I also need to go to the office to get a PC.

Where did we store the sequence program?

GOT Solution

The GOT backs up the sequence program.

PLC failed!

No battery!

Restore

Change CPU.

Don't we need a PC?

It is OK, because the latest program was stored in the GOT.

PLC programs can be stored and written to the GOT without using a personal computer.
Backup/restoration function

- Sequence programs, parameters and comments can be read and stored by the GOT. (Backup function)
- Easily write the sequence programs saved in the GOT to a new PLC. (Restoration function)
- If an error occurs due to no battery and program changes, users can quickly restore the system by using previously backed up data.

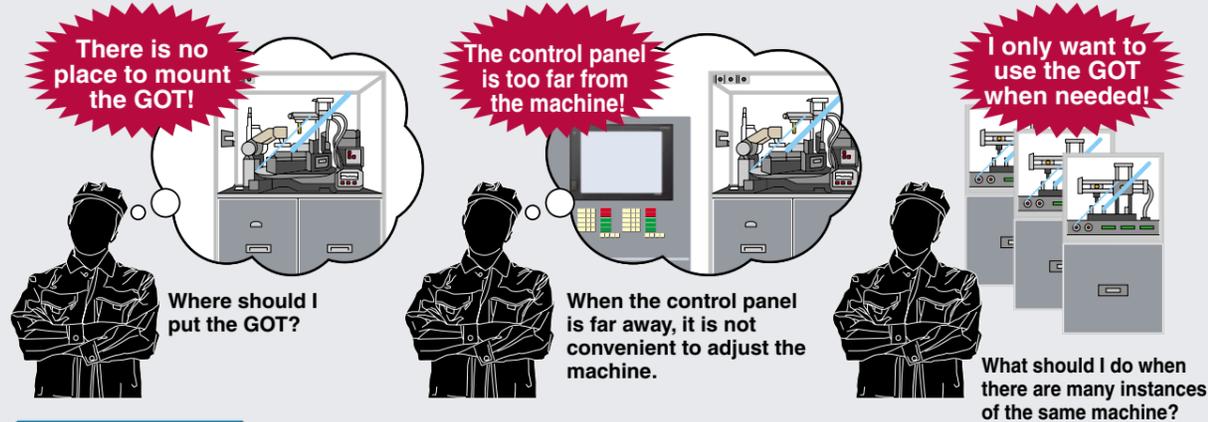
We can recover the system quickly by just using the GOT.

<For more details, see page 39 of this catalog.>

CASE 4

Portable handy type GOT expands machine design flexibility and increases work comfort.

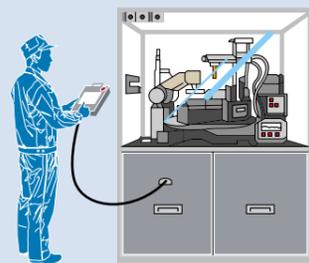
Before In machine tool manufacturing, the position and layout of the operation panel for easy operation have been a problem.



GOT Solution

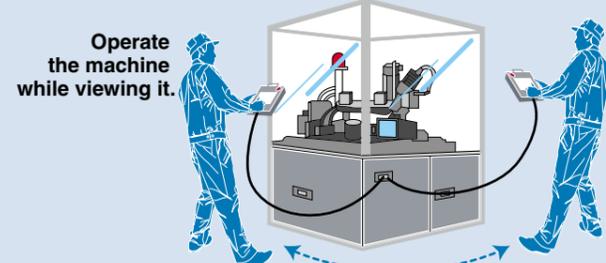
Portable and wearable Handy terminals can be used in many ways.

Limitless installation possibilities



Operators can connect the GOT only when needed.

Operable from every direction



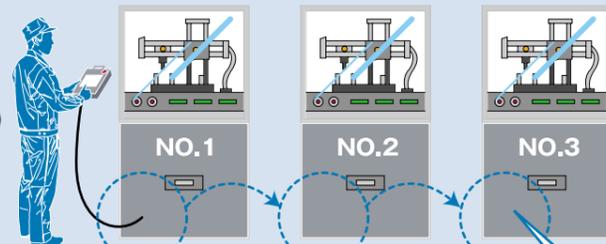
Operate the machine while viewing it.



Initialize and adjust the operations easily.

Take the GOT around only when needed

Easy to connect and disconnect. One GOT for two or more devices.



Easy to carry, easy to mount. The possibilities are endless.

Handy GOT



- Minimum mounting space required for handy terminal.
- Possible to use a single GOT to operate multiple machines by connecting the GOT to the machines one by one.
- Easy to initialize and adjust machine tools. The portable handy GOT can be used from every direction of the machine.

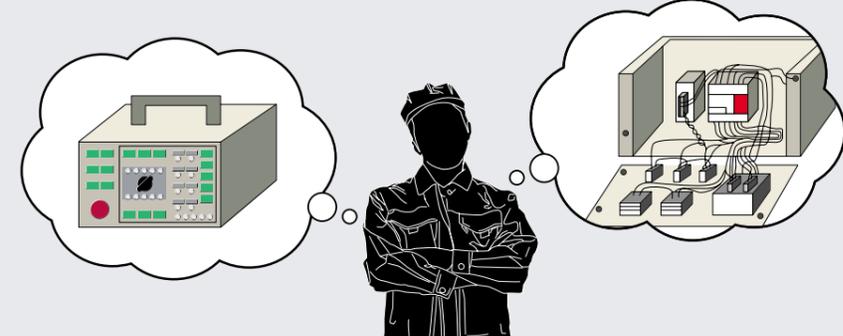
Note: Direct disconnection of the handy unit will cause the emergency stop switch to activate unless a design such as configuring an external parallel circuit is implemented. Refer to GOT Handy manual for details.

<For more details of functions, see page 42 of this catalog.>

CASE 5

Extremely compact size expands the effective use of the GOT1000 series

Before Hardware switches and lamps take up space on the control panel, and it takes a lot of effort to change the layout and wiring when specifications are changed.



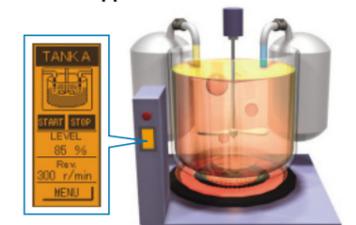
GOT Solution

Compact, easy-to-use, simple wiring unit reduces assembling man-hours



Three-color backlight screen can be used to indicate the machine status.

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



For simple and small applications, GOT1000 is just right.



GT10 series

■ Highly flexible GOT screen layout with bright, clear 3-color indication

Compact, readable display GT1020 3.7 inch type



green orange red 3-color display model

Clear, sharp, wide display GT1030 4.5 inch type



green orange red 3-color display model



white pink red 3-color display model



white pink red 3-color display model

<For more details of functions, see pages 43 to 45 of this catalog.>

GOT1000 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 safest HMI for their facilities.

To satisfy all of our customers, we are constantly developing more and more functions for the GOT1000.

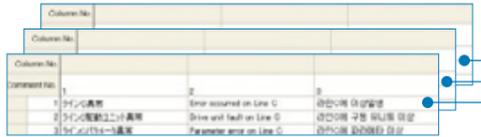


Efficient input of extensive comment data

GOT1000 GRAPHIC OPERATION TERMINAL

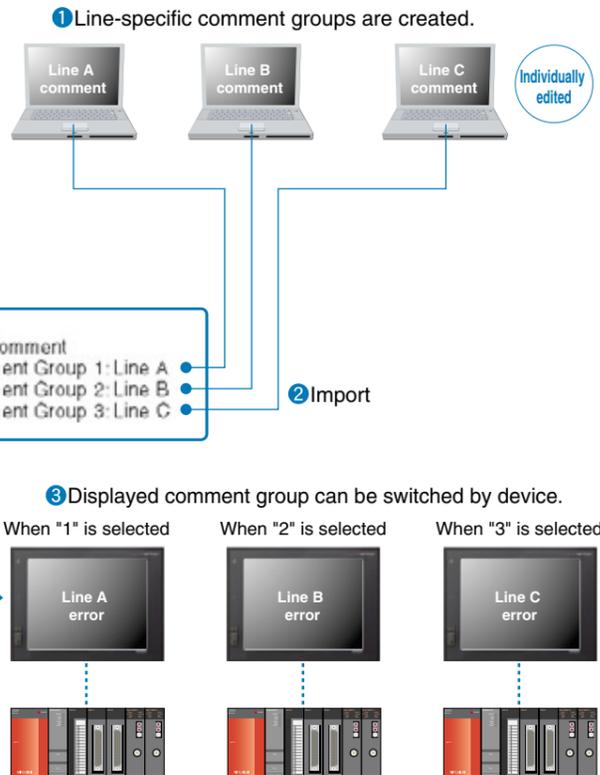
Comment groups

- CSV/Unicode text format files can be imported. Multiple files can also be imported to individual comment groups, allowing the comment input task to be distributed among several workers, greatly reducing the required input time.
- GT Designer2 allows easy column and line insertions and comment No. changes similar to those offered by Microsoft® Excel.



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

Example of comment group use



No need to adjust character string length

GOT1000 GRAPHIC OPERATION TERMINAL

Automatic length adjustment of comment group labels

- 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



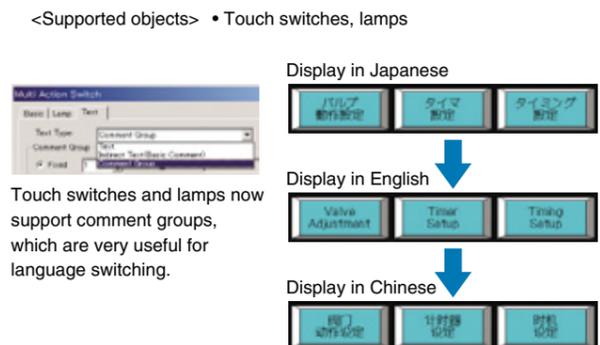
When switching languages, character string length is automatically adjusted to fit within the object.

Easy-to-create language switching screens

GOT1000 GRAPHIC OPERATION TERMINAL

Comment groups for switch and lamp labels

- Comment groups can be used to display label names on touch switches and lamps.



Easy creation of multilingual screens

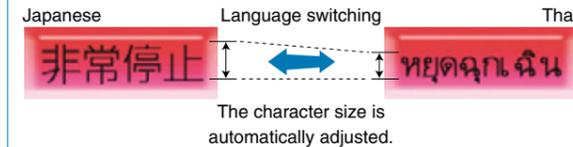
GOT1000 GRAPHIC OPERATION TERMINAL

Multilingual support

- Different language comments can be created for each comment group column to switch the display language.
 - Up to 10 columns can be created for 1 comment group.
 - Comment group comments can be created freely for applications, as well as for different languages.
- *: For details, see "Comment group" section.

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.



For better work efficiency and enhanced customization functions

GOT1000 GRAPHIC OPERATION TERMINAL

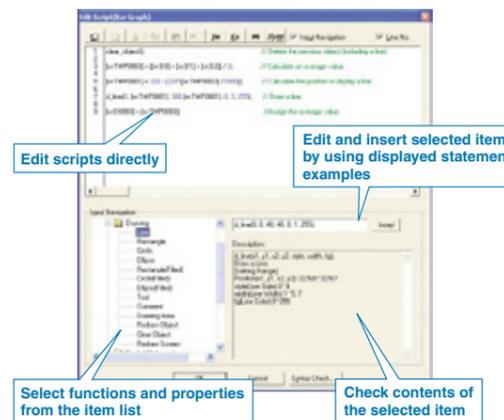
Script function

Project script/screen script

- Controlling GOT display by using GOT scripts can reduce the load on PLCs (PLC CPU, microcomputer, etc.) dramatically.

Input support function makes it easy to specify functions and properties, thereby preventing spelling errors and reducing the time to look up control statements.

GT Designer2 script editor screen

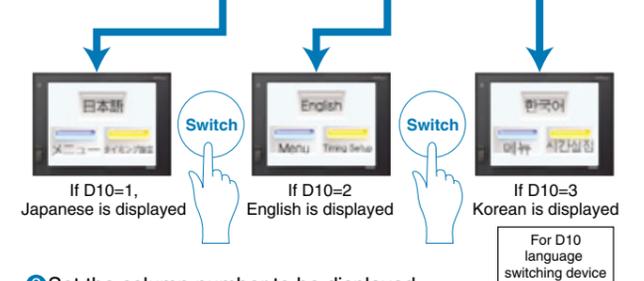


Users can quickly change the language display.

Example of switching between Japanese, English, and Korean screens

- 1 Create Japanese, English, and Korean comments in their respective columns.

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



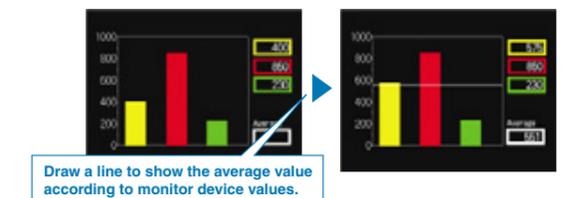
- 2 Set the column number to be displayed within the language switching device.
- 3 The displayed comment (language) changes.

Object script (GT15 only)

- Drawing and display control functions can be specified for every object, allowing objects to be easily used in other projects.
- Scripts make screen display control highly flexible by changing properties (colors and display positions) and making the object design process flexible.

Now the optional function board (GT15-FNB) is not required. For more details, see Notes for Use on page 59.

Example of how to use object scripts (draw straight line on graph display)



```
clear_object(); // Delete the previous object (including the line).
[w:TMP0003] = ([w:D0] + [w:D1] + [w:D2]) / 3; // Calculate the average value.
[w:TMP0001] = 320 - (320 * ([w:TMP0003] / 1000)); // Calculate the position to display the line.
d_line(0, [w:TMP0001], 380, [w:TMP0001], 0, 3, 255); // Draw the line.
[w:D0003] = [w:TMP0003]; // Assign an average value.
```

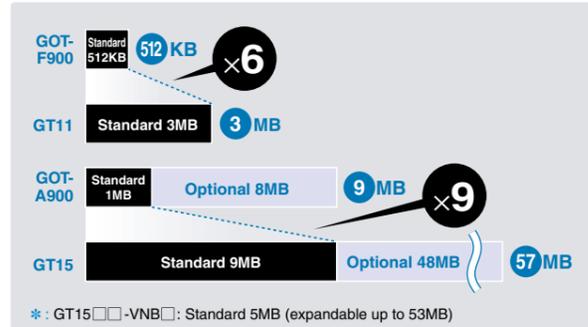
Improved usability provides designers with more comfortable and flexible screen design options



Designing without memory capacity limitations

Vastly increased memory capacity

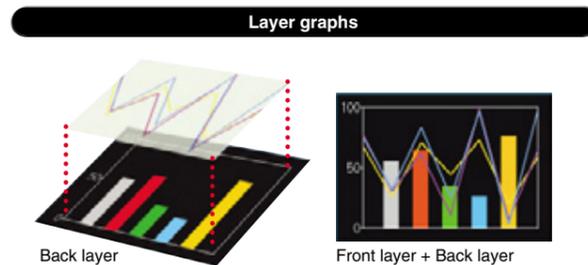
- GT15 memory capacity can be optionally expanded up to 57MB (optional function board with add-on memory + CF card).
 - GT11 has 3MB memory standard.
 - BMP and JPEG* images can be used to create easy-to-understand screens with minimal memory usage.
- * : JPEG format is supported only by GT15.



Increased flexibility in designing screens

Component layering (Layer function)

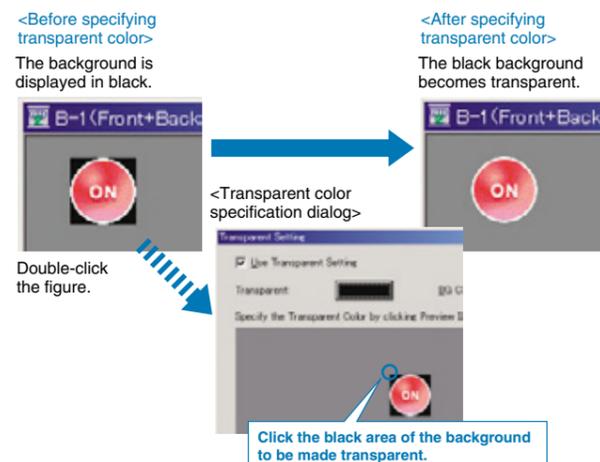
- Component (object, figures) layering increases the flexibility of design.



Improved expressiveness in screen design

Transparent bitmap figures

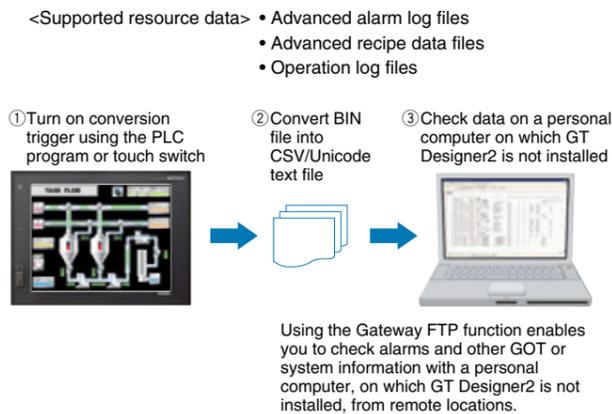
- Designers can specify a transparent color for bitmap data.
- Since the background of figures (not limited to rectangle) can be made transparent, the expressiveness of screen design is widely expanded.



Easy check and analysis of resource data

CSV/Unicode text file conversion

- Binary resource data files can be converted into CSV or Unicode format text files by external control using a trigger device.



Simplify complicated production setup with the GOT



Simple process of creating complicated recipe data

Advanced recipe function

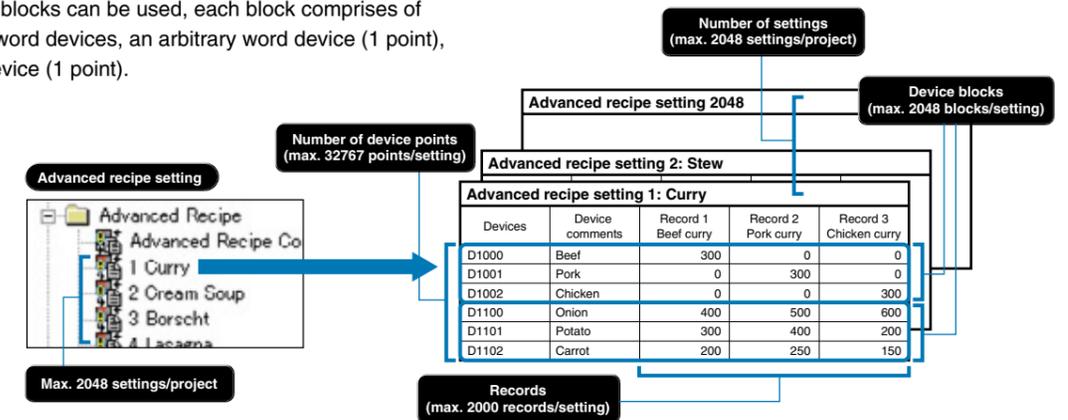
This function allows material combination data and processing conditions data (device values) to be held in the GOT, with only the required data being written to and read from the PLC.

Extensive number of recipe files, device points, and record points

- Greatly expanded capacity permits up to 2048 recipe files and 32767 device points.
- Up to 2000 types of device values can be handled by a single advanced recipe setting file. **Version upgrade**

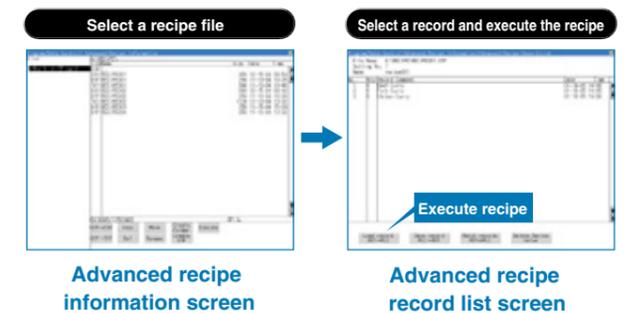
Flexible recipe data can now be created.

- Flexible recipe data can be created by combining advanced recipe settings and records.
- Reading/writing is performed by specifying the recipe No. and record No., eliminating the need for a trigger device for each file. This reduces the number of devices, and permits trigger device concentration. *1
- Up to 2048 blocks can be used, each block comprises 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 economizing 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. *2



Easy handling of recipe data at GOT

- Recipes can be handled easily by the GOT's utility function without having to create a recipe operation screen.
- The utility function permits the following operations: folder create/delete, advanced recipe file copy/delete/rename change, record write/read/consistency check.



Now the optional function board (GT15-FNB) is not required. For more details, see Notes for Use on page 59.

*1 : The "recipe No. saving device," "record No. saving device," and the "external control device" can be specified in the advanced recipe common settings in GT Designer2. (These settings are required when using Advanced Recipe) After values are saved to every device, reading and writing of the recipe data is enabled in accordance with the ON/OFF status of the external control device. (It is also possible to specify a trigger device for reading/writing each advanced recipe setting)

*2 : The advanced recipe file has a binary format. It must therefore be converted to a CSV file or a Unicode text file by using GT Designer2 or the GOT's utility. 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 to open the file.

Continuously expanding connectable devices and models

GOT1000 GRAPHIC OPERATION TERMINAL

Wide selection of connectable FA devices and peripherals

PLCs

- Expanded manufacturers and models of PLCs **NEW**
 - Matsushita Electric Works : FP-X
 - Allen-Bradley (Rockwell) : ControlLogix series CompactLogix series FlexLogix series
- Allen Bradley (Rockwell) : EtherNet/IP connection (PCCC protocol) to ControlLogix series and CompactLogix series will be supported. **Coming soon**

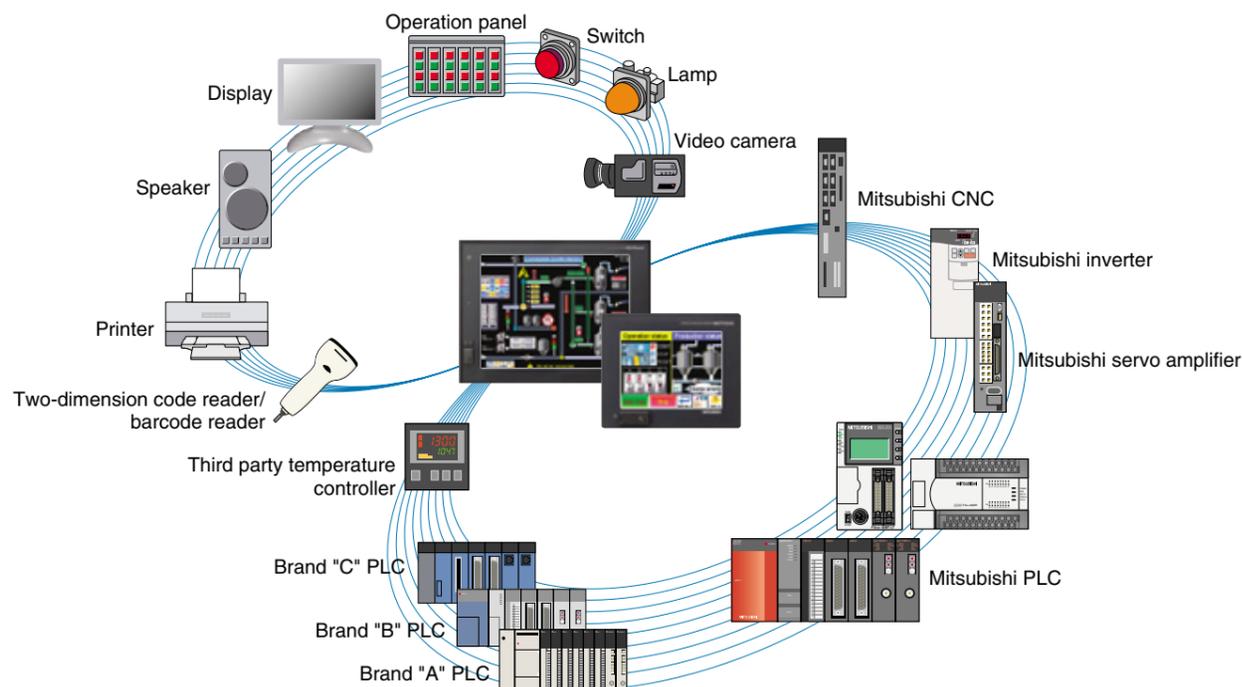
Microcomputers

- Supported protocol
 - Mitsubishi Q/QnA/A computer link unit (8 types)
 - GOT-A900 series compatible (2 types)
 - GOT-F900 series compatible (2 types)
 - Digital Electronics (Proface) memory link format (3 types)

Temperature controllers

- Expanded manufacturers and models of temperature controllers **NEW**
 - CHINO Corporation
- Data logging, parameter setting, and alarm display for temperature controllers are possible.

* : Connectable models and usable functions vary depend on the GOT main unit. For more details, see List of Connectable Models (page 48), Notes for Use (page 59) and Functions List (page 62).



Mitsubishi CNCs

- Monitoring and writing of devices, which are equivalent to MELSEC-Q4A, are supported.
- CNC parameters can be specified by using the CNC monitor function.
 - * : For more details on the CNC monitor function, see CNC monitor function on page 41.

Mitsubishi servo amplifiers

- MR-J2S-□CP point tables can be edited. Connecting the GOT to servo amplifier allows easy editing of the positioning parameters.
- Users can create parameter setting, alarm display, and test operation screens. There is no need to create screens to use the servo amplifier monitor function.
 - * : For more details on the servo amplifier monitor function, see Servo amplifier monitor function on page 41.

Mitsubishi inverters

- Up to 10 inverters can be connected in multi-drop connection with capabilities of parameter setting and alarm display.

Other peripheral devices

- External devices (operation panels, switches, lamps, and relays) **NEW**
- Speakers **NEW**
- Video cameras
- Displays (RGB output)
- Personal computers (RGB input)
- Printers
 - The latest PictBridge printers can be connected with a USB cable.
 - Print GOT screens (Hardcopy function) and output production results (Report function) when an error occurs.
- Two-dimensional code readers and barcode readers

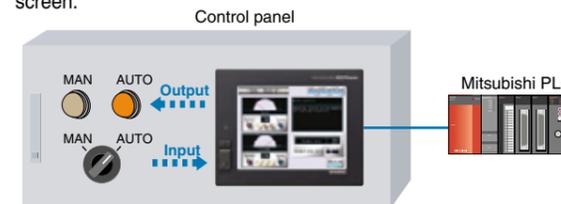


Direct connection to I/O devices simplifies your system

GOT1000 GRAPHIC OPERATION TERMINAL

External I/O function

- Connecting various I/O devices (e.g. hard switches, lamps, sensors, relays) directly to the GOT can reduce PLC I/O connections and wiring in order to reduce the cost of your system.
- A user-created operation panel can be connected to use Numerical Input and ASCII Input without displaying key windows on the GOT screen.



<Input: Max. 128 device points (16 input points × 8 scanning points = 128 points), Output: Max. 16 points>

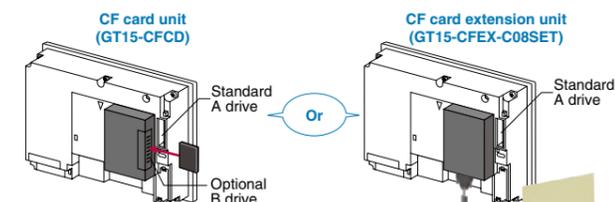
[Required device] • External I/O unit (GT15-DIO)

Additional CF card unit for more convenient use

GOT1000 GRAPHIC OPERATION TERMINAL

CF card unit/CF card extension unit

- The standard CF card interface unit (A drive) and the optional CF card interface unit (B drive) can be used for separate purposes.



A drive: Store screen data and logging data that should remain in the GOT
 B drive: Store data such as Recipe files that can be frequently removed during operation

- Using the new CF card extension unit attached to the front face of a panel, operators can insert/remove a CF card without opening the control panel. This greatly improves the machine operability.

[Required device] • CF card unit (GT15-CFCD) or CF card extension unit (GT15-CFEX-C08SET)

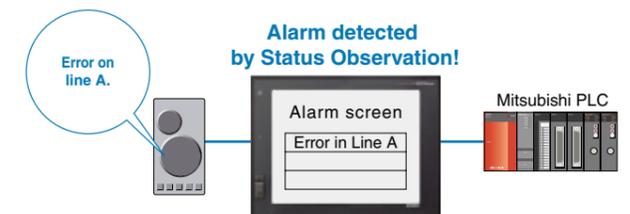
* : CF card unit and CF card extension unit cannot be used together.

Sound notification of alarms

GOT1000 GRAPHIC OPERATION TERMINAL

Sound output function

- By connecting a speaker, the GOT can play WAV sound files (8kHz, 16bit mono) synchronized with device operation.
- Synchronized with alarms, audio error notifications quickly notify operators of problems.



* : It is recommended to use a speaker with a built-in amplifier. (Straight cable with stereo mini jack)

[Required device] • Sound output unit (GT15-SOUT)

High-quality images with 65536 colors provide precise detail

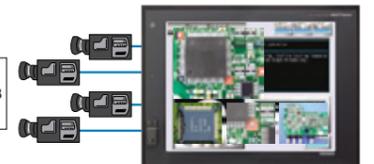
GOT1000 GRAPHIC OPERATION TERMINAL

For Video/RGB

Enhanced compatibility with cameras and inspection devices <Video input>

- Input images from up to four video cameras and inspection devices are simultaneously and precisely displayed on four windows in 65536 colors. Images can be saved in JPEG format.
- Since a video window can be placed anywhere on the screen the screen flexibility is improved.
- A simple one-touch operation allows users to switch the display size. (100%, 50%, 25%)

[Required device] • Video input unit (GT15V-75V4) or video/RGB input unit (GT15V-75V4R1)



Display a personal computer screen on the GOT <RGB input>

- PC images of either SVGA (800 × 600 dots) or VGA (640 × 480 dots) can be displayed at the same time as the GOT monitor screen.

[Required device] • RGB input module (GT15V-75R1) or video/RGB input module (GT15V-75V4R1)

Display the GOT screen on a display <RGB output>

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

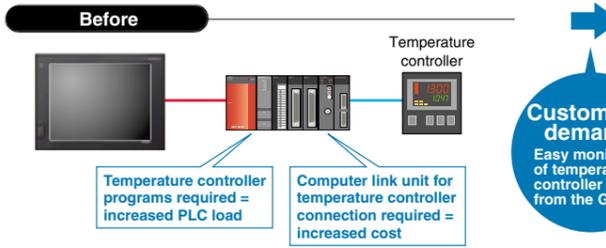
[Required device] • RGB output unit (GT15V-75ROUT)

* : For GT1585V and GT1575V only. Only one of the following devices can be used at a time: video input unit, RGB input unit, video/RGB input unit, or RGB output unit.

Central storage of FA device information on a single GOT terminal

GT 15

Multi-channel function

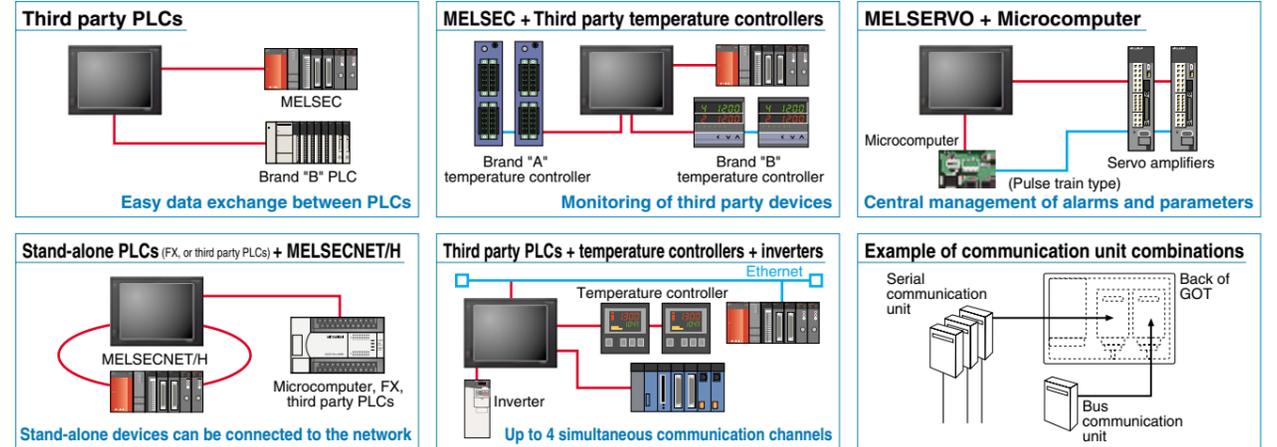


Customers' demand:
Easy monitoring of temperature controller data from the GOT

- Monitor up to 4 channels of FA devices (e.g. PLCs, servos, inverters, and temperature controllers).
- Monitor all FA devices on a single screen on the GOT. The monitor screen can be flexibly designed.

[Required device] • Optional function board (GT15-QFNB (□M) or GT15-MESB48M)
For more details, see Notes for Use on page 59.

Examples of using the multi-channel function



*: 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 on page 59.

Be alerted to worksite errors and collect device data from an office desk

GT 15

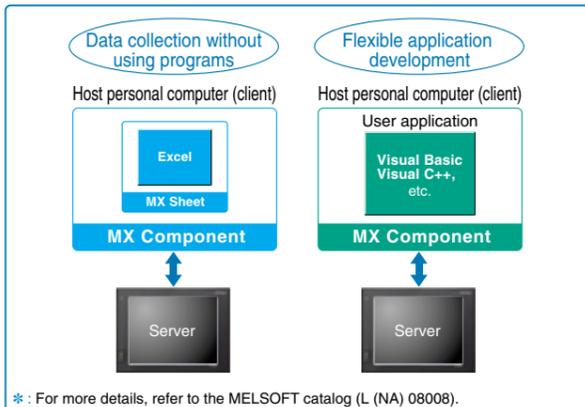
Gateway function

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 monitoring third party devices, the server function can be used to perform reading/writing with the MX Component alone.

*: The collected data can be displayed and analyzed by Excel without using any programs other than MX sheet. Programming Visual C++ and Visual Basic enables applications to be flexibly designed and built.



*: For more details, refer to the MELSOFT catalog (L (NA) 08008).

[Required devices] • Ethernet communication unit (GT15-J71E-100) • Communication unit for connection between the GOT and the connected equipment
Now the optional function board (GT15-FNB) is not required. For more details, see Notes for Use on page 59.

2 Monitor other GOTs from a GOT (client function)

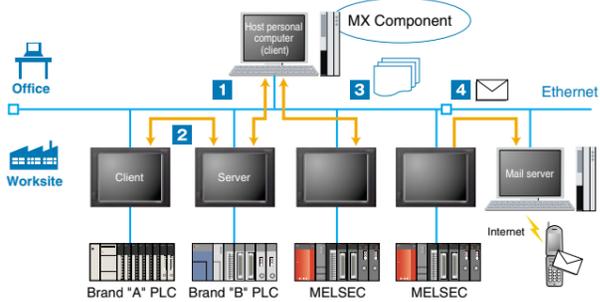
- A GOT (client) indirectly reads/writes device values of equipment monitored by the GOT (server).
- The client function can also be used to indirectly read/write device values of PLC CPUs other than the one to which the GOT (client) is connected.
- Communication is possible between GOT1000 and GOT-A900.

3 Direct check/edit of data in 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.
- No need to visit all factories to collect CF cards from all GOTs when there are multiple GOTs or when a GOT is located far away from the 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.
- Error information can be checked from locations far away from the worksite.



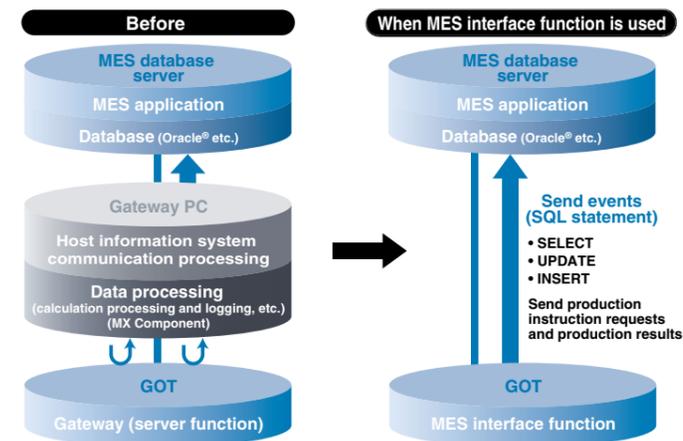
Database linkage supports enhances productivity at your worksite

NEW GT 15

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 Designer2 without programming. There is no need to use a gateway personal computer and complicated programs to communicate with the MES database server.
- If an error occurs during communication with the database, buffering of the transmission data (SQL statement) and recording an error log are possible. Important data can be protected, and errors can be analyzed.
- When trigger conditions are met, the actions (data calculation and transmission) are stored in the buffer. The GOT can securely execute actions without any omission even if data sending is concentrated temporarily and actions cannot be executed immediately.



[Required devices] • Optional function board (GT15-MESB48M) • Ethernet communication unit (GT15-J71E71-100) • Communication unit to connect the GOT and the device to be used
• A personal computer with screen resolution 1024 x 768 or higher for configuration is recommended.
For more details, see Notes for Use on page 59.

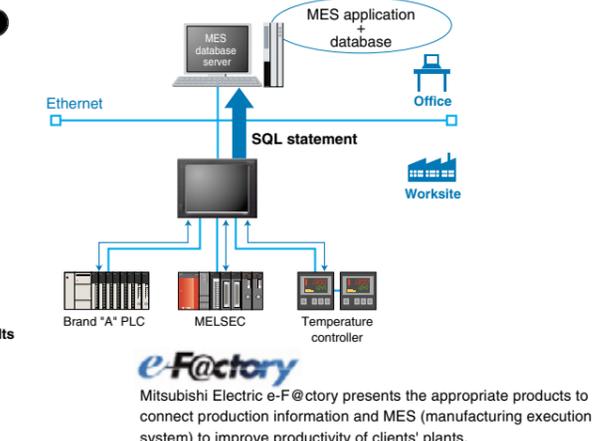
MES interface function

- DB Interface function (Tag function, trigger buffering function, trigger monitoring function, SQL sentence transmission function, calculation processing function, program execution function, and DB buffering function)
- SNTP time synchronization function
- Diagnosis function
- DB server function (ODBC connection function, connection setting function, and log output function)

Connectable database

- Oracle® 8i/9i/10g
- Microsoft® Access 2000/2003
- Microsoft® SQL Server 2000/2005 **NEW**
- Microsoft® SQL Server 2000 Desktop Engine (MSDE2000)
- Wonderware® Industrial SQL Server 9.0 **NEW**

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



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

A screen design software with many user-oriented functions, making custom screen creation easy

For designers



Cut screen drawing time in half*

- Reduced screen drawing time
- Windows® standard operability and menu configuration
- Data compatibility with GT Designer

An intuitive tree display makes copying, deleting, and component registration easy

Workspace

Project workspace

The entire project settings such as the created screens and common settings can be shown in a tree view. It is easy to see the entire project so the screen to be edited can be selected quickly.

Category work space

The entire project settings can be displayed in categories in a tree view. The devices, colors, and figures of components in multiple screens can be adjusted all at once by category.

*: "Category" refers to objects or figures that have been grouped according to purpose.

Library workspace

Registered objects and figures are displayed in a tree view. Frequently used components can be registered as "favorites," permitting quick access to an object or figure.

Image display of registered components

Library image list

- Registered components can be shown by image color, making it easy to find the component to be used. **NEW**
- Designing screens is made easy by selecting components from the image list and putting them on the drawing screen.



List display of object & figure attributes

Property sheet

- An attributes list can be displayed for the selected object or figure.
- Object settings can be changed without opening the dialog box.
- Multiple same-type objects and figures can be selected, and their color and character size can be adjusted all at once.

Object & figure setting screen

Dialog box

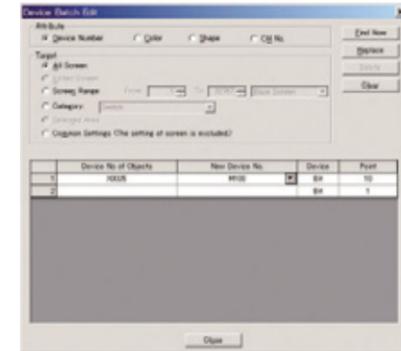
- The attributes screen is displayed by double-clicking the object or figure.
- Figure changes are immediately reflected onscreen. This allows work to be performed while checking the onscreen results, thereby simplifying the process and reducing setting errors.

*: This is also possible from the Property Sheet.

Conversion of multiple objects and figures all at once

Batch conversion

- Device numbers, objects, figure colors, and lamp and touch switch figures can be converted all at once.
- This tool is useful for changing objects and figures located on multiple screens.
- Different types of objects (touch switches and numerical displays) and figures (circles and rectangles) can also be converted at once.



Icon display improves work efficiency

Tool bar

- Various tool bars are available such as Figure, Object, View, and My Favorites.
- Icons show object, figure type, and operation at a glance, improving work efficiency.
- Frequently used objects and figures can be registered as My Favorites.

Dedicated component editing screen

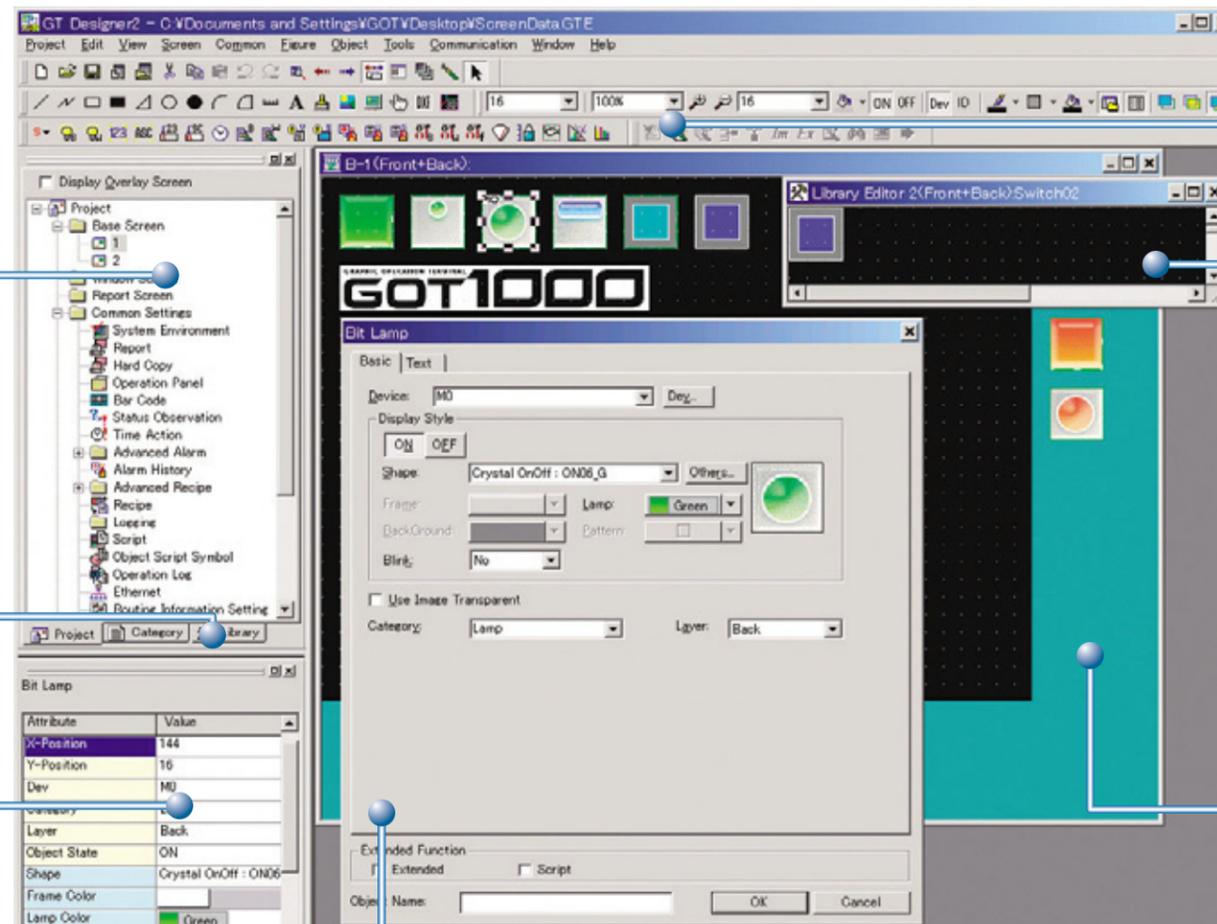
Library editor

- A component editing screen appears by double-clicking a registered component within the library workspace.
- Editing registered components is quick and easy.

Smoother screen design

Temporary area

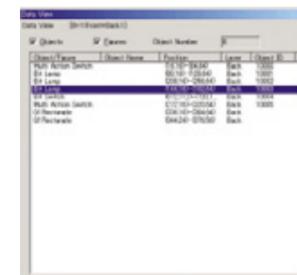
- Placing objects in the temporary area facilitates smoother screen design and screen layout change operations.



Easy to select overlapped figures

Data list

- All objects and figures located on the screen are listed.
- Data can be edited by double-clicking the object or figure from the list.



*: Compared to Mitsubishi Electric's GT Designer.

The latest developments and functions of GT Designer2

MELSOFT **GT Designer2** Version2

For designers

Crystal clear display, easy-to-create screens

High-quality parts library

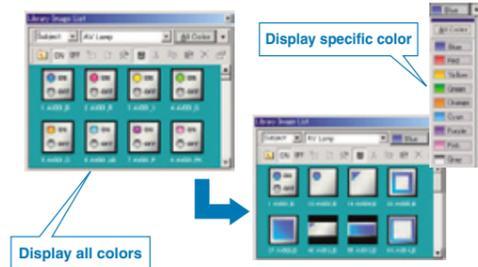
- User library can be easily imported.
- A variety of styles and designs are available for touch switches and lamps, easily permitting customized designs.
- All users can easily design sophisticated screen by using high-quality parts.



A variety of colors and easy-to-use library

Library color selection function

- Library images can be displayed by color. The new sort method helps users quickly look for the image to be used.



Elegant characters in any font and size

An assortment of fonts allows for more expression

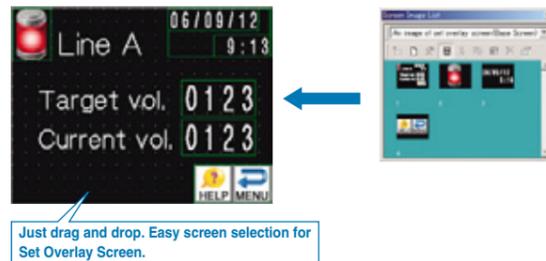
- The Unicode2.1 compatible standard font, high-quality font, and TrueType font display sharp and attractive characters in all languages.
- When using a Windows® font, the font style (italic, underline, italic underline) can also be specified.
- Since the curve of stroke fonts are clear even if it is enlarged or reduced, the font size can be incrementally adjusted. Thai and Chinese (Simplified and Traditional) are available as well as Japanese.



Selecting screens from a thumbnail list improves your work efficiency

Screen image list

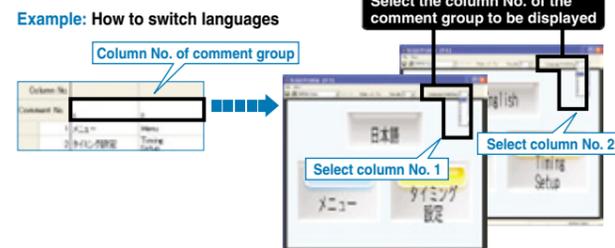
- Screen image list displays all base screens and window screens, and allows users to copy or delete screens and change the screen numbers. Double-click on a thumbnail image to edit the screen.



Easy confirmation of screen display

Screen preview

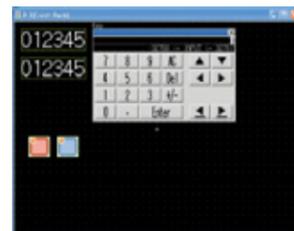
- Language switching, security level change and on/off image switching of objects can be checked with GT Designer2 on a personal computer.



Display of actual GOT screen

Window preview

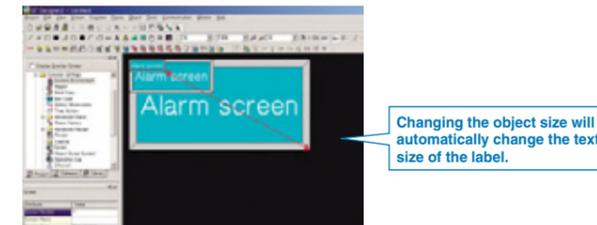
- The screen design software can display window screens (key windows, overlapping windows, superimposed windows) just as they would appear on the GOT, allowing them to be previewed.
- The key pad can be displayed just as it would appear on the GOT, allowing its position, size, and appearance etc., to be checked.



Convenient when converting different screen size data

Automatic size adjustment of direct input characters

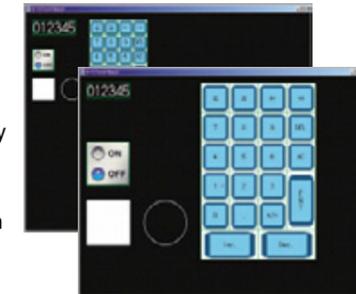
- When changing the object size, directly entered characters are automatically adjusted according to the object size.



Batch change of objects and figure sizes

Multiple object enlargement/reduction

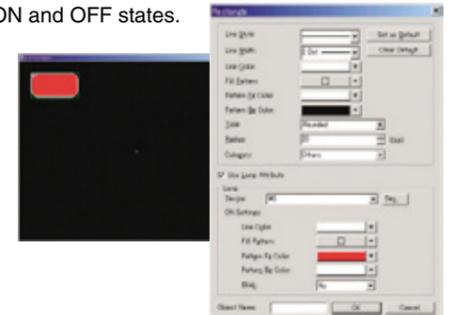
- Multiple objects and figures can be enlarged or reduced at once.
- This tool is useful for adjusting the size of components such as numerical keypads registered in the library and replacing the screen data with that from a different screen size.



Easily create lamps from figures

Lamp attribute added to figures

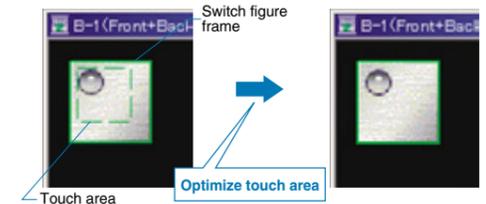
- Figures can be changed into lamps by setting colors and patterns for ON and OFF states.



Optimized touch area of switches

Touch area fit-in function

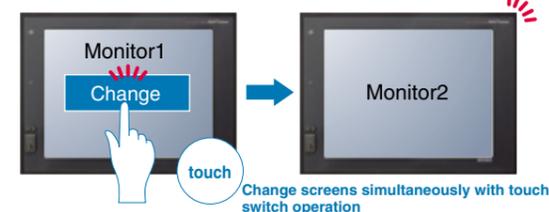
- Optimize the touch area (valid area) of a switch according to the figure frame. The touch area can be maximized within the switch figure frame.
- A new mode is added to hide the touch area. Users can select whether to display or to hide the touch area of switches.



Enhanced functionality including F900 compatible functions

Complete conversion of GOT-F900 series data

- Changing screens is now synchronized with touch switch operations, increasing comfort of operation.

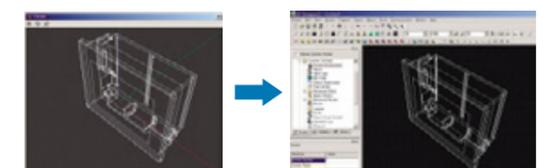


- Auto-repeat function that runs on specified intervals.

Enlarge and rotate CAD data in dedicated screen

3D CAD data processing

- Read and paste IGES format graphic data onto a screen.



Adjust the angle and size of the CAD data in the dedicated preview screen, then paste it onto a screen.

Flexible screen design and data use functions provide smooth and comfortable operation

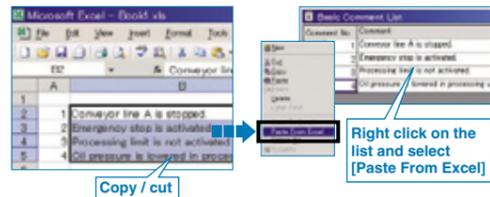
For designers

MELSOFT **GT Designer2** Version2
GRAPHIC OPERATION TERMINAL

Easy comment registration using Microsoft® Excel

Comment registration

- The comments selected on Excel can be copied/cut and pasted into the comment list.
- Comments selected on the comment list can also be copied/cut and pasted into an Excel sheet.



User-friendly setting procedure puts even beginners at ease

Wizard function

- When creating a new project, the GOT type, the number of colors, communication configuration and other settings can be interactively set in order.
- All the required settings on GOT can be smoothly set by using the Wizard function.



Make the most out of existing GOT projects

Backward compatibility

- GOT900 → GOT1000 compatibility
GOT900 project data can be used with the GOT1000.
- GOT800 → GOT1000 compatibility
GOT800 project data can be converted into data for the GOT1000 with GT Converter2.

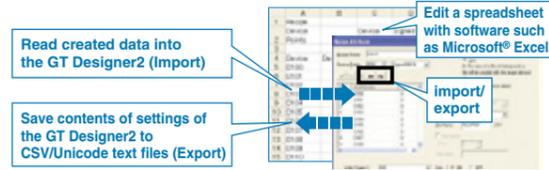


* : Backward compatibility does not extend to certain data and functions.

Higher efficiency by using familiar software

Improved import/export function

- Device data, range settings, device values, and comments, which have been created in a CSV/Unicode text file format, can easily be imported/exported to/from GT Designer2.
- This function is useful to import a large amount of data such as logging, advanced recipes, recipes and comments.



Better project data maintenance efficiency

Project data consistency check function

- Consistency checks between the GOT's project data and the personal computer project data can be performed.
- This allows project data inconsistencies to be identified, thereby reducing unnecessary uploads and downloads.

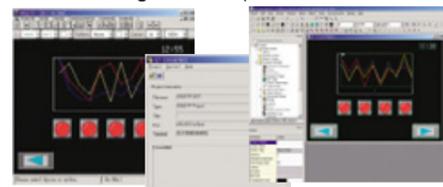


Easy project data conversion

GT Converter2

 Version2

- This software converts project data created with older screen design software to the data for GT Designer2 (GOT1000 or GOT-A900). (Included with GT Works2 and GT Designer2)
- Supported screen design software
 - GOT800 series screen design software (SW3NIW-A8GOTP)
 - ProFace drawing software (GP-PRO/PB III series)



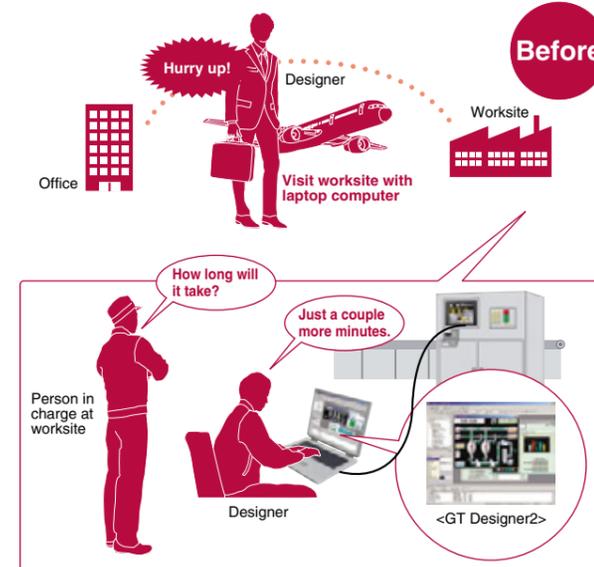
* : Backward compatibility does not extend to certain data and functions.

Fast and simple data transfer tool considerably improves work efficiency

Data transfer tool

The data transfer tool, dedicated for project data upload/download, is included with GT Works2 and GT Designer2.

- Even if screen design software is not installed on your computer, GOT project data can be uploaded/downloaded using the data transfer tool.



A simple operation to create clear, sharp document images

Document converter

The document converter, converting files for use with the document display function, is included with GT Works2 and GT Designer2.

- When converting documents, the image quality of the documents (brightness, contrast, sharpness) can be adjusted.
- The document converter software creates clear and sharp document images.

* : For more details, see the document display function on page 38.
* : To use the document converter, Ghost Script GPL8.15 or later is needed. For more details, refer to the GT Designer2 Version 2 Screen Design Manual.

- The project data can be easily uploaded and downloaded at the worksite where there is no screen design software, by operators without special training. This means that designers do not have to visit worksites to make program changes.

Supported GOT model GOT1000, GOT-A900, GOT-F900, GOT800

Supported Windows OS Windows® XP, Windows® 2000

After With data transfer tool



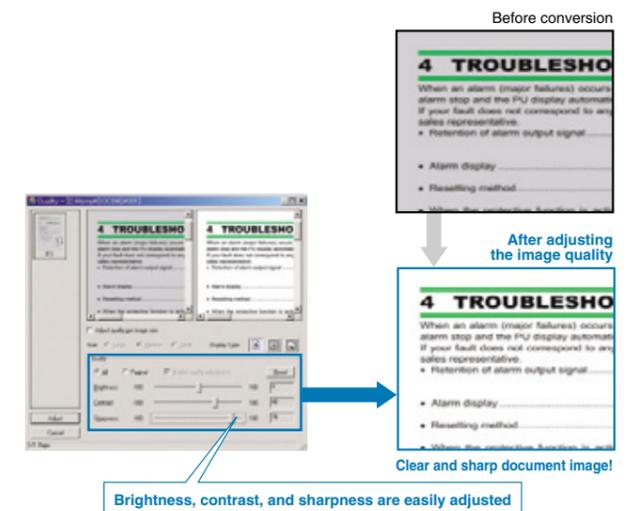
A simple operation to create clear, sharp document images

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* : To use the document converter, Ghost Script GPL8.15 or later is needed. For more details, refer to the GT Designer2 Version 2 Screen Design Manual.



Features of Functions GOT1000 • GRAPHIC OPERATION TERMINAL

Time-saving debugging and simulation software

For designers

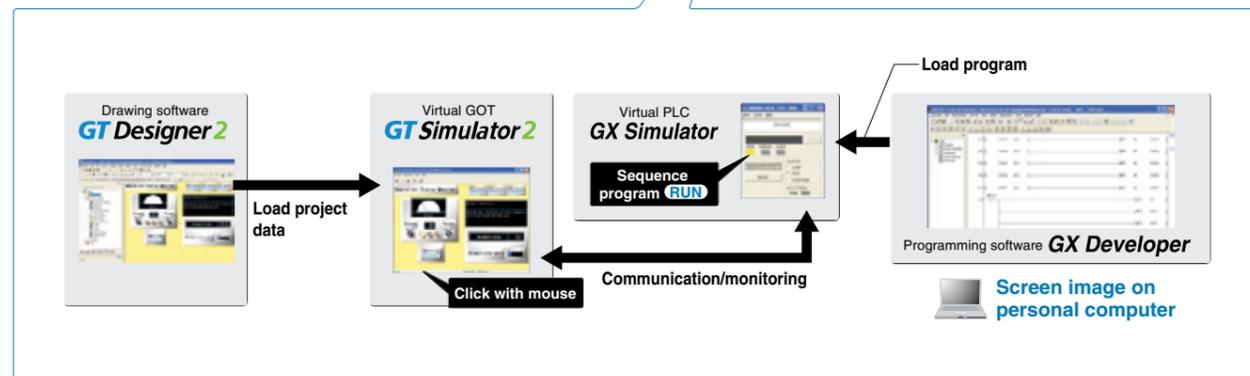
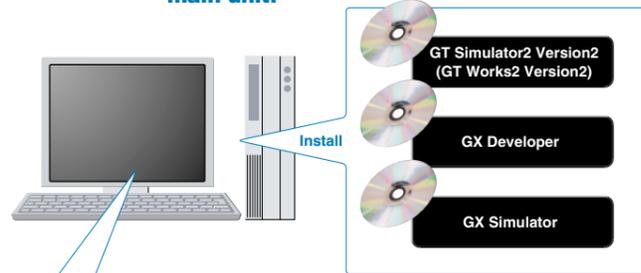
MELSOFT GT Simulator2 Version2

GT Simulator2 helps designers debug projects by simulating GOT operations on a personal computer.

Debugging from a single personal computer

- GT Simulator2 can be used in combination with a sequence program simulated by GX Simulator, allowing debugging to be performed in an intuitive manner from a single personal computer.
- The GT Simulator2 screen debugging function permits screen editing in GT Designer2 with the results immediately verifiable in GT Simulator2, thereby greatly reducing debugging man-hours.
- The touch switch input is simulated by clicking the mouse. In addition to monitoring devices, GT Simulator2 can be used to check stored data such as system alarms, script error information, and alarm history.

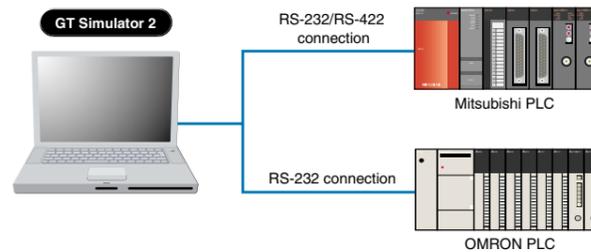
Quick and easy debugging without the GOT main unit.



Debugging is possible by connection with a PLC, without actual GOT operation required

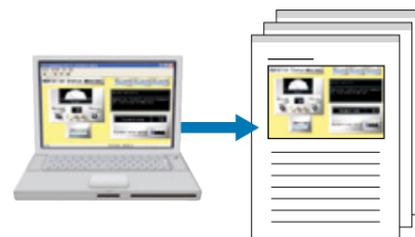
- Debugging can be performed using a direct CPU connection between a personal computer (GT Simulator2) and a Mitsubishi or Omron PLC, without an actual GOT unit.

| Connectable PLC | PLC ⇄ Personal computer connection |
|------------------------------------|---|
| Mitsubishi PLC (Q/QnA/A/FX series) | CPU direct connection RS-232, RS-422 |
| Mitsubishi CNC (MELDAS C6/C64) | CPU direct connection RS-232, RS-422 |
| OMRON PLC | CPU direct connection RS-232 |



Powerful support of customer specifications, compatibility checks and document creation

- While observing the operation image, the customer's screen specifications can be arranged without actual unit operation.
- Screen snapshots can be printed and saved as BMP/JPEG files which are extremely useful when creating specifications and operation manuals.



Quick response and useful standard functions provide users with comfortable operation

For operators

Dramatically improved GOT total response

GOT1000 GRAPHIC OPERATION TERMINAL

Drawing, computing, communication; a triad of high-speed response functions.

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

High-speed drawing

Equipped with an ultra high-speed graphics chip (GT15 only)

- High-speed drawing of figures and characters is made possible by using the specially developed graphics chip specifically for the GOT1000 series.
- Sharp and quick drawing of complex, layered component screens, and detailed photographic data in 65536 colors.

High-speed computing

GT11: Equipped with 64-bit RISC processor
GT15: Equipped with 64-bit super-scalar RISC processor

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

High-speed communication

- Greatly improved response performance.
- High-speed RS-232 communication (max. 115.2 kbps).
- GT15 high-speed communication is possible by bus connection. GT11 high-speed communication is now also possible by bus connection. **NEW**
- High-speed communication is possible for connections with both Mitsubishi and third party PLCs.

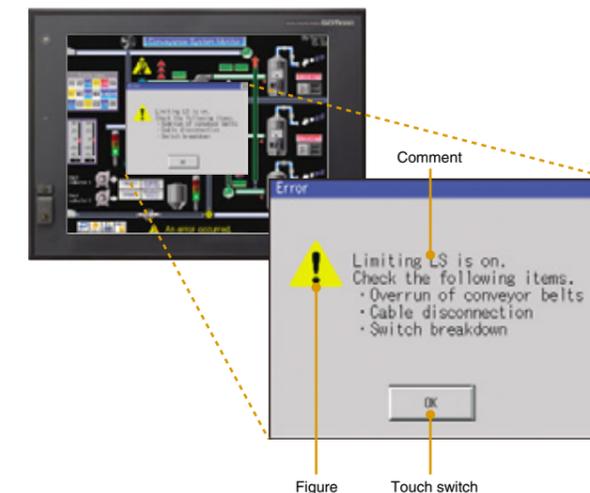
* For connectable PLC models, see the List of connectable models, starting on page 48.

Customized dialog windows showing custom messages to operators

GOT1000 GRAPHIC OPERATION TERMINAL

Dialog window function

- Instead of using system dialogs (e.g. input error at numerical input), users can customize dialogs to display help on user operations or troubleshooting messages when alarms occur.
- With templates such as icons and an OK button, users can easily create dialogs with the wizard function. Touch switches, numeric displays, comment displays and figures can also be utilized.



Easy switching between different languages to globalize your production site

GOT1000 GRAPHIC OPERATION TERMINAL

Display in different world languages

- The Unicode2.1 compatible standard font, high-quality font, and TrueType font display sharp and attractive characters in all languages.
- Correctly display Simplified Chinese and Traditional Chinese characters*.
- Allows the creation of elaborate, high-quality screens that are both attractive and easy to understand.



- The language displayed on the GOT main unit utility screen can be set to Japanese, English, Chinese (Simplified/Traditional*), Korean (Hangul), or German.



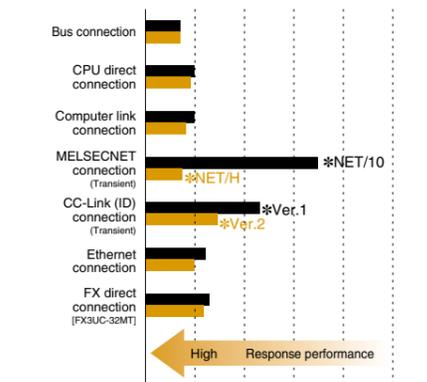
* Traditional Chinese can be displayed only on GT15. Now the optional function board (GT15-FNB) is not required. For more details, see Notes for Use on page 59.

Response comparison with conventional GOT series



GT15 response performance comparison

[Using MELSEC Q series] Conventionally As of Feb. 2007



The monitor screen includes about 250 points of word devices.

Features of Functions GOT1000 GRAPHIC OPERATION TERMINAL

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

For initial startup & adjustment operators

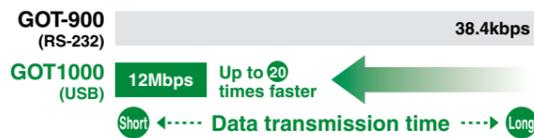
Easy data transmission without opening the cabinet

Equipped with front USB interface

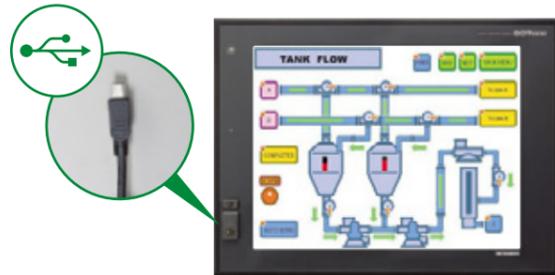
- The front USB interface allows a programming cable to be connected without having to open the cabinet.
- Data transmission using the USB interface greatly reduces the time required for startup and adjustment.
- When secured by the provided screw, the USB port cover complies with the IP67f standard*. (The screw can easily be tightened with a coin.)

* : Compliance cannot be guaranteed in all customer environments.

Comparison of project data downloading time



* : To connect the GOT to a personal computer, use the dedicated USB cable. For more details, see Product List on page 68.



With USB cable



Standard item IP67f (with IP67f-rated port cover installed)

Sequence program and parameters can easily be modified at the worksite

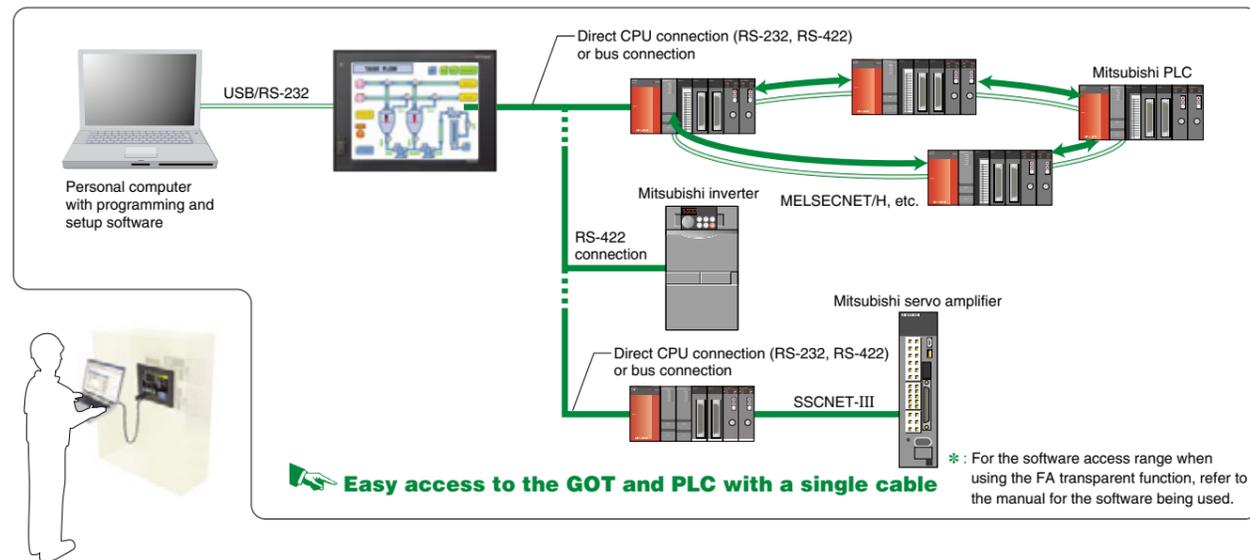
FA transparent function

- Sequence program debugging, startup, and adjustment can be performed via the GOT's front USB interface.
- There is no need to open the cabinet and change cable connections. (Operation is also possible via the RS-232 interface.)
- When multiple FA devices are connected, the communication target can be changed on the GOT main unit using the multi-channel function.

Supported software*

- GX Developer
Q/QnA/A/FXCPU, motion controller (A series)
- GX Configurator
Intelligent function module for the Q series (AD/DA/SC/CT/TC/TI/FL/PT/AS)
- PX Developer
Process CPU (Q12PHCPU/Q25PHCPU)
Redundant CPU (Q12PRHCPU/Q25PRHCPU)
- MT Developer
Motion controller (Q series)
- MR Configurator
Q172HCPU(-T)/Q173HCPU(-T)+MR-J3-□B (SSCNETIII)
- FR Configurator
FREQROL A700/F700

* : The version of the software depends on the system configuration.



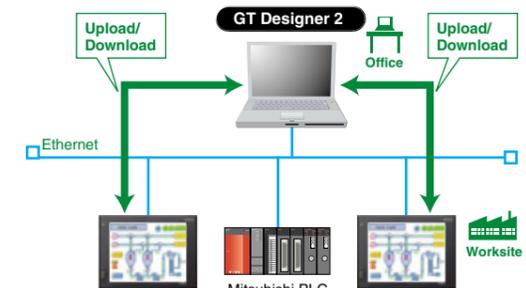
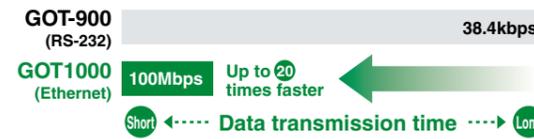
Project data can be maintained from a remote location

GT 15

High-speed uploading/downloading via Ethernet

- Project data can be uploaded and downloaded* from your personal computer to a GOT terminal from a remote site via Ethernet.

Comparison of project data downloading time



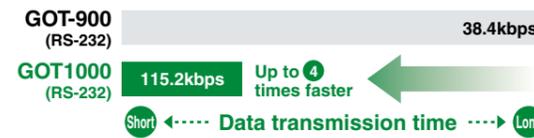
* : Ethernet communication unit (GT15-J71E71-100) must be installed on the GOT main unit where basic functions have also been installed.

For GOT data transmissions & a variety of external connections

Standard-item RS-232 interface

- Both the GT15 and GT11 have RS-232 interfaces located in convenient positions (bottom and side respectively) for cable connection. The GT11 also has a RS-422 interface.
- RS-232 interface is used for FA device connection, data transmission and bar-code reader connection, etc.

Comparison of project data downloading time

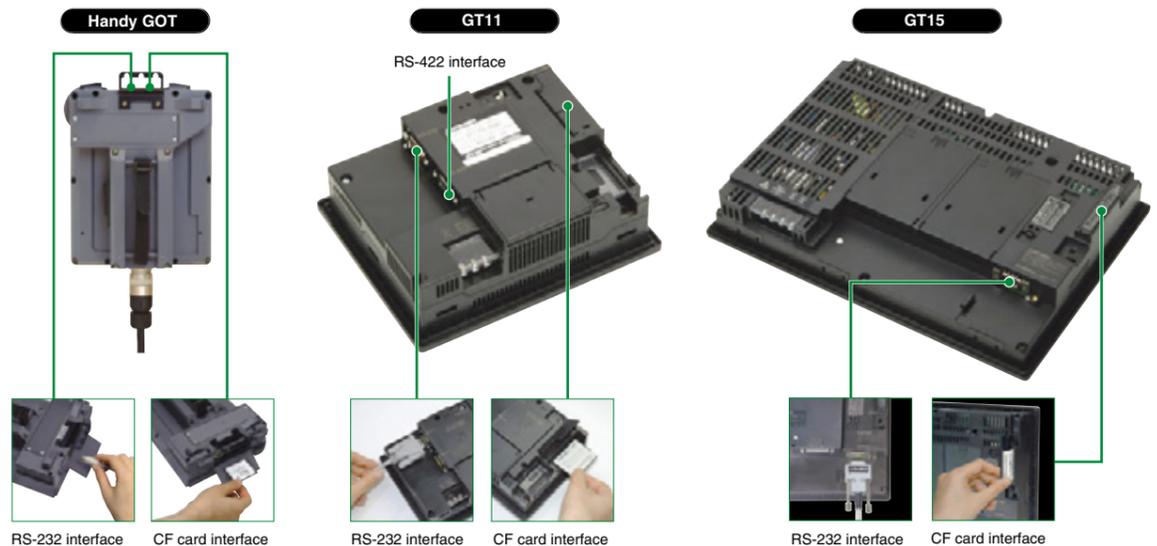


* : To connect GOT and a personal computer, use the dedicated RS-232 or RS-422 cable. For more details, see Product List on page 68.

Multi-purpose CF card interface for functions such as data transmission and alarm storage

Multi-purpose CF card interface

- All models are equipped with a CF card interface standard.
- The CF card interface permits rapid GOT data transmission even when the GOT is not connected to a personal computer by cable.
- When using multiple GOT units, a single CF card enables a quick GOT setup procedure simply by copying the data to each GOT unit.



* : The above image is GT115□-Q□BD.

Error detection and recovery through the GOT's Alarm Function with advanced features

For maintenance personnel

GT 15

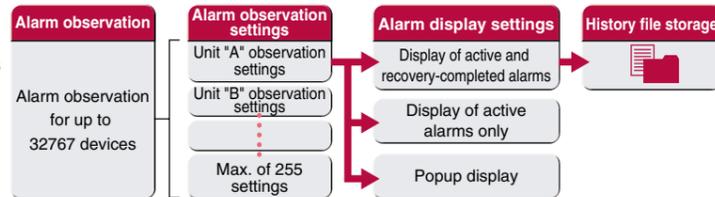
Accurate communication minimizes machine downtime even during an alarm

GOT1000 GRAPHIC OPERATION TERMINAL

Advanced alarm

Advanced alarm features

- 1 A wider monitoring range protects even large-scale systems
- 2 Rapid detection and corrective action for a wide array of alarms
- 3 Easy-to-understand error displays for the operator
- 4 Improved system alarms
- 5 Support in identifying alarm causes



1 A wider monitoring range protects even large-scale systems

- Alarm observation is possible for up to 32767 devices with a maximum of 255 alarm observation setting groups.
- Three types of alarm displays can be specified for a single alarm observation setting.
- Up to 32767 alarms can be saved in the alarm history.
- Batch display of large amounts of alarm information in large-scale systems, and unit-specific classification for easy management.

2 Rapid detection and corrective action for a wide array of alarms

Four-step alarm notification

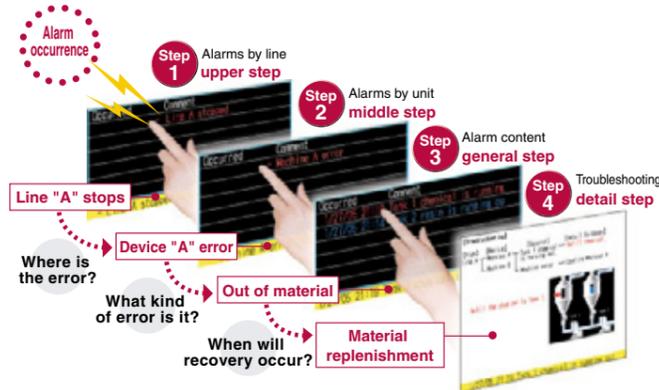
- Alarm occurrence conditions can be divided into 4 steps and conveyed to the operator in an easy-to-understand, step-by-step format.

For example,

- STEP1:** Alarms by line (upper step)
STEP2: Alarms by unit (middle step)
STEP3: Alarm content (general step)
STEP4: Troubleshooting (detail step)

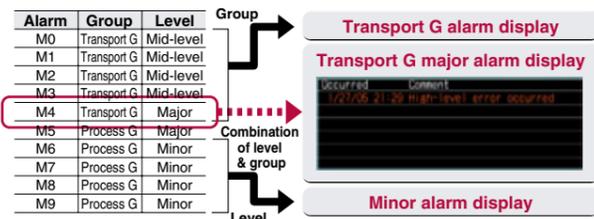
When multiple alarms occur, the above format permits the operator to quickly organize and identify the alarm conditions (what happened and where), resulting in effective troubleshooting.

- The contents of the 4 steps shown above can be freely defined to suit the application in question, with switching between the step displays performed by the step switching device or by touch-screen operation.



Group-specific & level-specific displays

- Alarms can be classified by group and level, with only the specified alarms being displayed.
- This makes it easy to identify the locations and types of alarms even when many alarms have occurred, and permits higher priority alarms to be handled first, resulting in a speedy system recovery.



By group:

Alarms are divided into groups (e.g. transport unit group, processing unit group), with alarms displayed only for the specified groups.

By level:

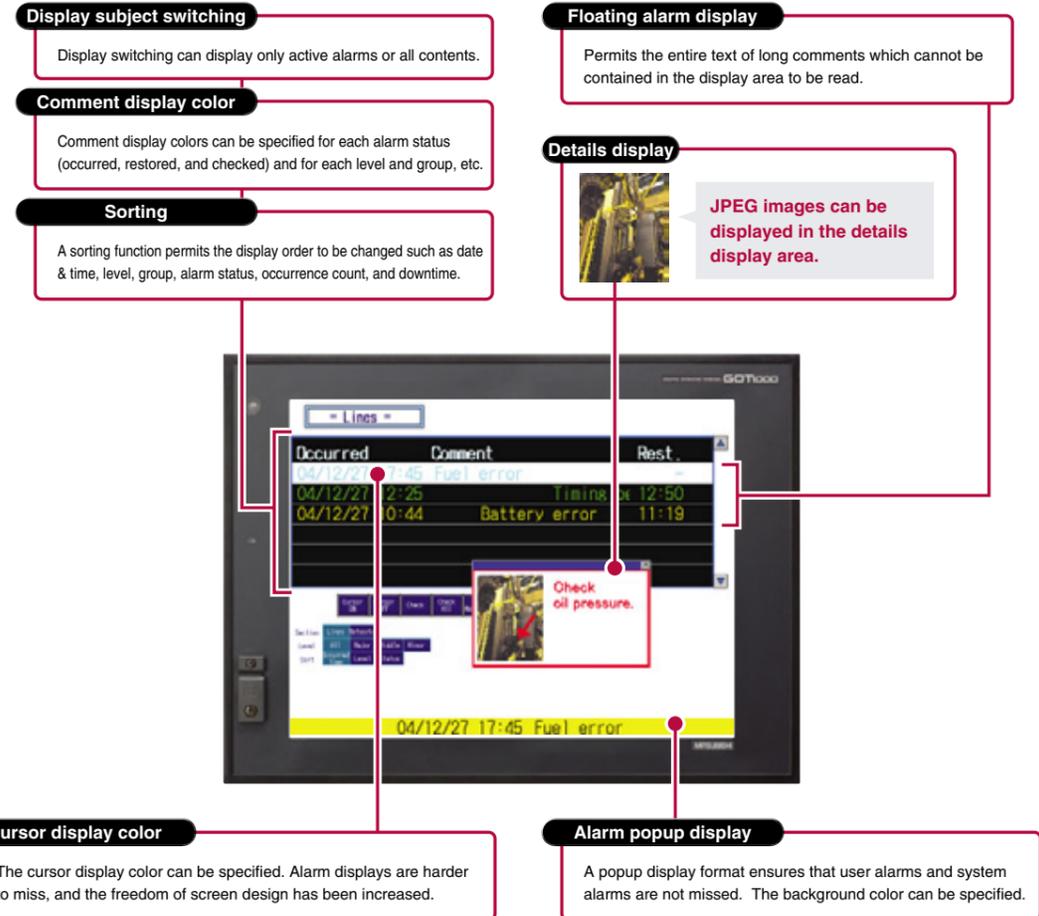
Alarms are divided into levels (major, mid-level, minor), with only the specified level alarms displayed.

Combination of group & level:

Only the specified group and level alarms are displayed.

3 Easy-to-understand display

- The use of colors and popups produce easily recognizable alarm displays.
- Ensuring that alarms are not overlooked and that the alarm contents are understood, results in a speedy system recovery.



4 Improved system alarms

- The PLC/GOT/Network monitoring subject can be specified in advance, with only those specified alarms being displayed.
- It can be set so that only the active alarms are displayed. Alarm history display and history file storage are also possible.

5 Support in identifying alarm causes (utility function)

- Alarm occurrence conditions can be displayed in time-series graph form.
- Alarm occurrence counts can be displayed in bar-graph form.
- A graphical statistics display facilitates efficient analysis of error causes.

Features of Functions GOT1000 GRAPHIC OPERATION TERMINAL

GOT provides complete traceability for safe and secure operation

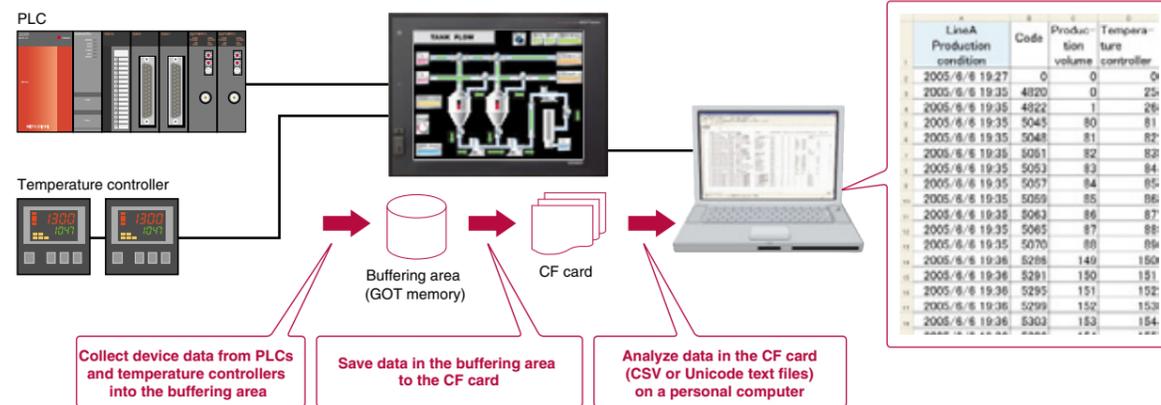
For maintenance personnel

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

GT 15

Logging function

- Collecting data from temperature controllers and other units with the GOT can reduce the load on the PLC.
- Up to 250 devices per setting and 32 settings per project can be set.
- Collected data can be used for record and analytical purposes when being saved to a CF card.
- Files can be saved in the GOT dedicated binary file, CSV or Unicode text file formats.



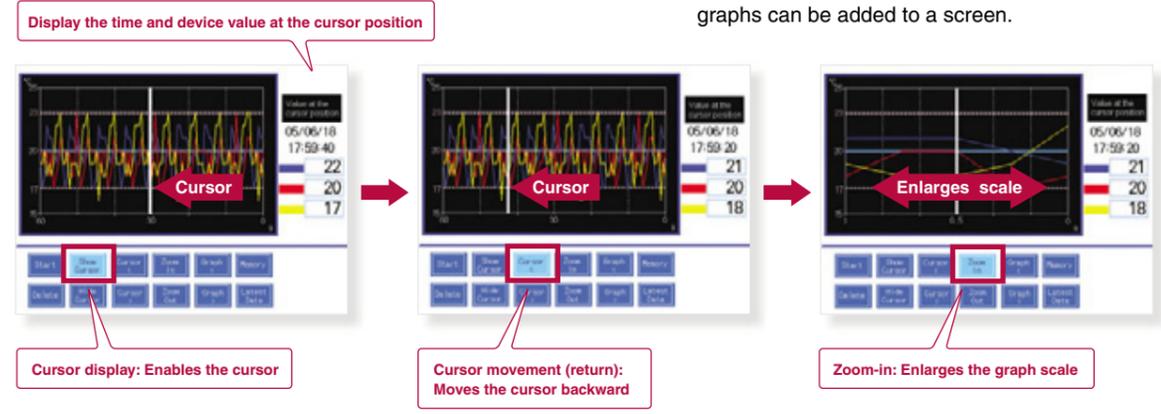
Now the optional function board (GT15-FNB) is not required. For more details, see Notes for Use on page 59.

Easy-to-read logging data in a graphical display

GT 15

Historical trend graph

- Data collected by the logging function can be displayed in a time-series graph from a CF card as well as from the buffering area.
- The data collected by the logging function can be displayed in graph form; the past data can be displayed simply by touching a scroll switch.
- Enabling the cursor displays the device value and time of the cursor position, and allows for enlargement or reduction of scale.
- Up to 32 data devices can be displayed in a graph; up to 8 graphs can be added to a screen.



Now the optional function board (GT15-FNB) is not required. For more details, see Notes for Use on page 59.

* : Logging function settings are required to use historical trend graph.

Enhanced security system by password control

NEW GT 15

Operator authentication function

- When starting up the GOT or switching screens, a login screen appears to authenticate the operator name and password. The display and operation screen depends on the operator logged-in so that security is strengthened.



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

- If there is no operation for a certain period of time after logging-in, the login screen appears again, and the password must be re-entered to start operation. This prevents incorrect operation.
- It is possible to add operators and change passwords in the GOT main unit utility screen.

Combined with the operation log function, who, what, when, and how the operator operated can be recorded.
* : See Operation log function section.

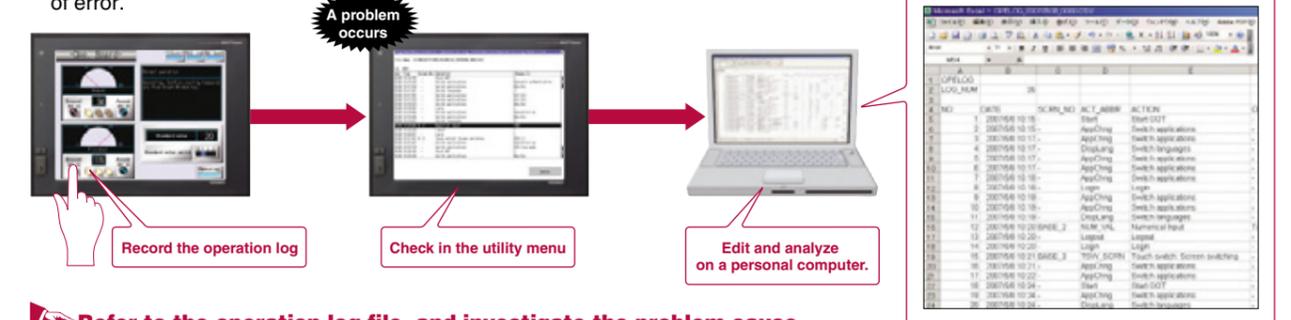
Example :
Jon Smith changed the Numerical Input (D100) value from 10 to 100 on base screen 2.

Helpful for identification and analysis of problem causes

NEW GT 15

Operation log function

- Operations performed by operators on the GOT can be recorded with respect to time.
- When problems occur (e.g. system error), users can confirm when and how the operations were performed by referring to the operation log, using it to specify and analyze the cause of error.



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

[Required devices] • CF card
Now the optional function board (GT15-FNB) is not required. For more details, see Notes for Use on page 59.

- Users can specify which operations to save in the log by changing the device value and GOT operation state.
<Specifiable operations>
Touch switch operation, numerical input operation, security level change, screen change, etc.
- The operation log is saved in the CF card, and the data can be edited and analyzed on a personal computer. In addition, the data can also be displayed on the utility screen of the GOT main unit.

| LOG_NUM | DATE | TIME | ACT_ADDR | ACTION |
|---------|----------------|-------|--------------|---------------------|
| 1 | 2005/8/8 19:16 | 19:16 | Start | Start GOT |
| 2 | 2005/8/8 19:17 | 19:17 | AppChg | Switch applications |
| 3 | 2005/8/8 19:17 | 19:17 | AppChg | Switch applications |
| 4 | 2005/8/8 19:17 | 19:17 | AppChg | Switch applications |
| 5 | 2005/8/8 19:17 | 19:17 | AppChg | Switch applications |
| 6 | 2005/8/8 19:17 | 19:17 | AppChg | Switch applications |
| 7 | 2005/8/8 19:17 | 19:17 | AppChg | Switch applications |
| 8 | 2005/8/8 19:18 | 19:18 | AppChg | Switch applications |
| 9 | 2005/8/8 19:18 | 19:18 | AppChg | Switch applications |
| 10 | 2005/8/8 19:18 | 19:18 | AppChg | Switch applications |
| 11 | 2005/8/8 19:18 | 19:18 | AppChg | Switch applications |
| 12 | 2005/8/8 19:18 | 19:18 | AppChg | Switch applications |
| 13 | 2005/8/8 19:20 | 19:20 | Logout | Logout |
| 14 | 2005/8/8 19:20 | 19:20 | Login | Login |
| 15 | 2005/8/8 19:21 | 19:21 | Touch Switch | Screen switching |
| 16 | 2005/8/8 19:21 | 19:21 | AppChg | Switch applications |
| 17 | 2005/8/8 19:22 | 19:22 | AppChg | Switch applications |
| 18 | 2005/8/8 19:24 | 19:24 | AppChg | Switch applications |
| 19 | 2005/8/8 19:24 | 19:24 | AppChg | Switch applications |
| 20 | 2005/8/8 19:24 | 19:24 | AppChg | Switch applications |

Features of Functions GOT1000 • GRAPHIC OPERATION TERMINAL

Functions designed to support maintenance work significantly reduces downtime!

For maintenance personnel

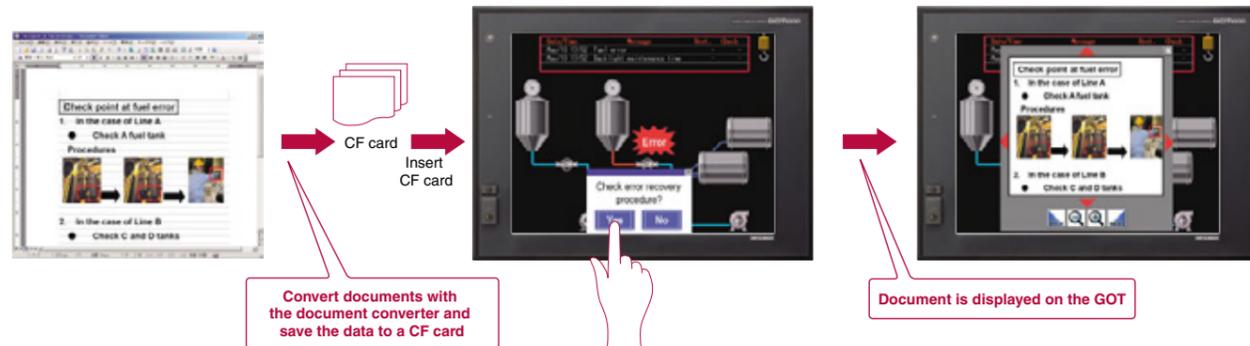
Display various documents on the GOT at the worksite

NEW GT15 GOT1000 GRAPHIC OPERATION TERMINAL

Document display function

- When a system error occurs, referring to recovery methods in check lists and/or manuals on the GOT can reduce downtime.
- Even if there is no personal computers at the worksite, operation guidance and work instructions can be displayed on the GOT.
- Pages can be changed, scrolled through, enlarged or reduced, and multi-page documents can be displayed.

- Document converter* is used to format documents to be displayed and save them to CF cards as JPEG files.
- Documents created by applications such as Microsoft® Word can be used, reducing the man-hours of screen design.
- Supported file format: doc, xls, ppt, pdf, jpg, bmp
- The brightness and contrast of difficult to read documents can be adjusted when the documents are converted with the document converter to allow for better viewing on the GOT.



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

[Required devices] • Optional function board (GT15-QFNB (□) or GT15-MESB48M) • CF card
For more details, see Notes for Use on page 59.

*: For more details, see Document converter on page 29.

Back up important sequence programs to be safe and secure in case of an emergency

NEW GT15 GOT1000 GRAPHIC OPERATION TERMINAL

Backup/restoration function

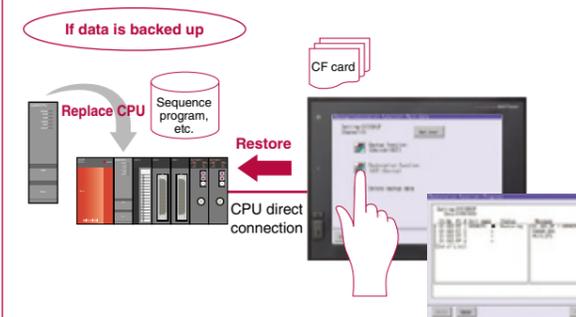
- The sequence program and parameter data of the PLC CPU is backed up to the CF card in the GOT. Users can perform batch operation to restore the data to the PLC CPU.

<Objective data> Sequence programs, parameters, device comments, device initial value data
 <Objective model> MELSEC-Q series PLC*
 <Usable connection type> Bus connection, CPU direct connection, computer link connection, Ethernet connection (host only)

*: Excluding Q12PH/Q25PHCPU, Q12PRH/Q25PRHCPU.

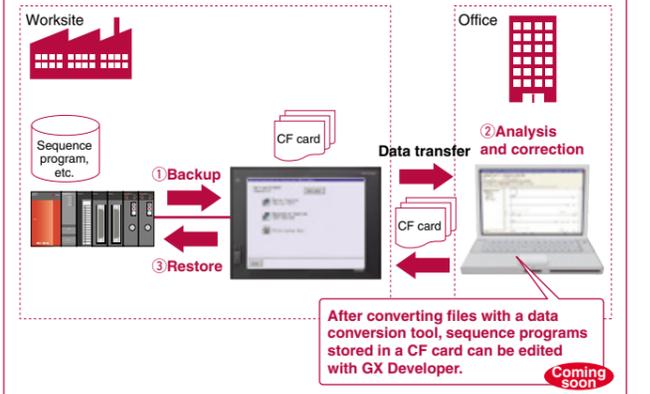
Example of use ①

In case of PLC CPU failure, users can quickly replace the faulty device and restore the system by using previously backed up data.



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.



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

[Required device] • CF card

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

Easy-to recognize backlight state

GOT1000 GRAPHIC OPERATION TERMINAL

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

For planned commodity maintenance

GT15 GOT1000 GRAPHIC OPERATION TERMINAL

Maintenance time notification function

- The backlight lifespan can be automatically monitored to notify the operator when in need of maintenance.
- Facilitates scheduled maintenance, thereby preventing system malfunctions.

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



Warning! Backlight needs replacement soon.

[Required devices] • Battery
 Now the optional function board (GT15-FNB) is not required.
 For more details, see Notes for Use on page 59.

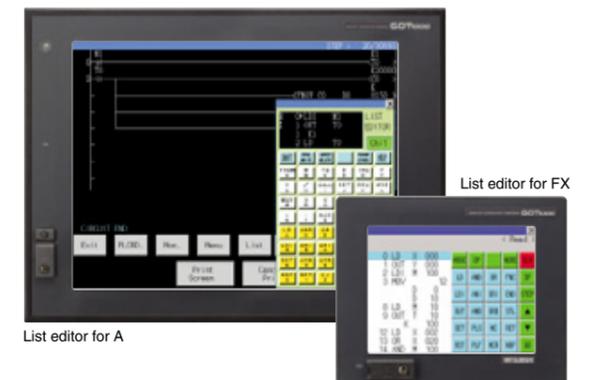
Convenient method for minor program changes onsite

GOT1000 GRAPHIC OPERATION TERMINAL

List editor for A/List editor for FX

- MELSEC-A series, FX series PLC sequence programs can be edited in a list format (instruction word).
- Permits minor program changes onsite, even without peripheral devices.
- The GT15 permits sequence program editing while viewing the ladder circuit (combined with the circuit monitor function).

Now the optional function board (GT15-FNB/GT11-50FNB) is not required.
 For more details, see Notes for Use on page 59.



Features of Functions GOT1000 • GRAPHIC OPERATION TERMINAL

Extensive FA device compatibility reduces your maintenance work

For maintenance personnel

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

GT 15

GOT1000 GRAPHIC OPERATION TERMINAL

Ladder monitor function

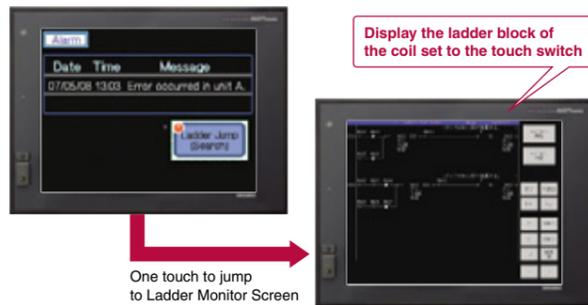
MELSEC Q/QnA/FX series PLC sequence programs can be monitored in a circuit diagram (ladder format).

Wide monitoring range

- Not only the PLCs connected to the GOT, but also the PLC of other stations, multiple CPUs, multiple programs in the CPU, and local devices (Q series only) can be monitored. **NEW**

One-Touch Ladder Jump function (Q/QnA series)

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



- For the touch switch, users can set the PLC station No., CPU No., program name, and coil No. The touch switch will then display the corresponding ladder blocks within the multiple programs that are contained in the PLCs connected to the GOT, other station PLCs, and multiple CPUs. Local devices can be monitored for the Q series PLC.

Other useful functions

- Device values and timer (T)/counter (C) setting values can be changed.
- When a problem occurs, the alarm history can be displayed and a back-tracking ladder search can be performed to find the contact which triggered the alarm. <Defect search>



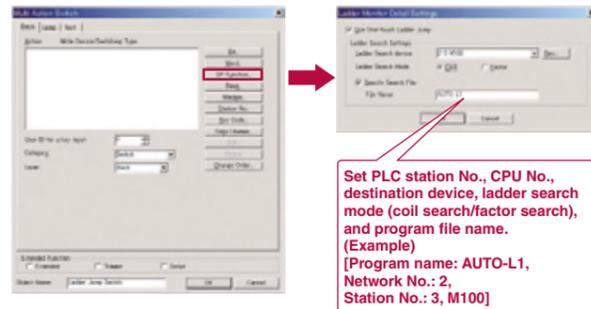
* : Ladder Monitor Function is supported by GT15 series XGA/SVGA/VGA models.

Device comments are stored in GOT CF card (Q/QnA series)

- Since the comment data of sequence programs can be stored in the GOT CF card to be displayed in the Ladder Monitor screen, the memory capacity of the PLC is greatly saved. **NEW**
- Device comments in the sequence programs written in Korean (Hangul) characters can also be displayed.

How to use One-Touch Ladder Jump function

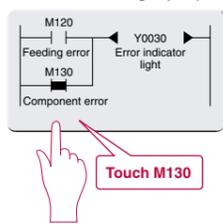
- Select [SP Function]-[Ladder Monitor] from the touch switch property dialog.



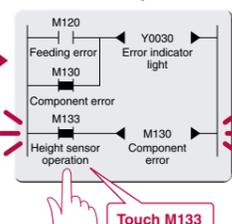
- Simply touching the Ladder Monitor screen executes the coil search and contact point search. (Q/QnA series) Tracing from contact to coil, the cause of the problem can be easily found. <Touch search>

Example of defect search (when error indicator light [Y30] is on)

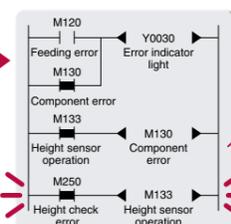
■ Search for the cause of component error (M130) which turned on the error indicator light (Y30)



■ Search for the cause of the height sensor operation (M133) which caused the component error (M130)



■ Search for and display the coil of the height sensor operation (M133)



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

[Required devices] To use Q/QnA Ladder Monitor Function, the optional function board GT15-QFNB (□M) or GT15-MESB48M is required. Now the optional function board (GT15-FNB) is not required to use the Ladder Monitor Function for A series. For more details, see Notes for Use on page 59.

PLC device monitoring/changes

GOT1000 GRAPHIC OPERATION TERMINAL

System monitor function

- Mitsubishi PLC CPU devices can be monitored and changed.
- Monitoring can be performed by selecting the device to be monitored, or by specifying the initial device.
- The current values and setting values of the timer (T) and counter (C) can be changed.
- The buffer memory (BM) of a special function unit can be monitored and changed.
- The display format (decimal/hexadecimal) and the device comment display status (on/off) can be switched.



Easy adjustment of Q series motion controller

GOT1000 GRAPHIC OPERATION TERMINAL

Q series motion monitor function

- Monitoring of servo amplifiers and parameter settings of Q motion controllers can be performed.*1
- Monitoring and parameter setting can be performed for up to three Q172(N)/Q173(N) and Q172H/Q173H **NEW** units on the same base unit.

*1 : Supported only if the Q series motion controller CPU has SV13/SV22 OS version. Moreover, available functions of the Q series motion monitor vary according to the CPU type.



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

GOT1000 GRAPHIC OPERATION TERMINAL

Intelligent unit monitor function

- Buffer memory values of intelligent function units and the ON/OFF status of I/O units can be monitored and changed.
- When a QCPU (Q mode) is in use, the CPU operating status and existing errors can be monitored by PLC diagnosis.

* : Supported by GT15 series XGA/SVGA/VGA models.



Now the optional function board (GT15-FNB) is not required. For more details, see Notes for Use on page 59.

At-a-glance monitoring of MELSECNET network status

GOT1000 GRAPHIC OPERATION TERMINAL

Network monitor function

- Network status of the MELSECNET/H, MELSECNET/10 and MELSECNET II can be monitored on a dedicated screen.
- Communication line and information from the host and other stations can be monitored to check the communication status.



Easy startup and adjustment of servo amplifier

GOT1000 GRAPHIC OPERATION TERMINAL

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: setting up, monitoring, alarm display, diagnosis, parameter setting, and test operations.*2

- When multiple servo amplifiers are connected, monitor screens can be easily switched on a GOT by specifying station numbers.

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



Save space and cost when no dedicated display device is required

GOT1000 GRAPHIC OPERATION TERMINAL

CNC monitor function

- When a MELDAS C6/64 is connected, the position display monitor, alarm diagnosis monitor, and tool offset parameters can be set on the GOT as well as on a display device dedicated to MELDAS.

- Up to 64 CNC units can be monitored over an Ethernet connection. Only a control station can be monitored over a MELSECNET/10 connection.

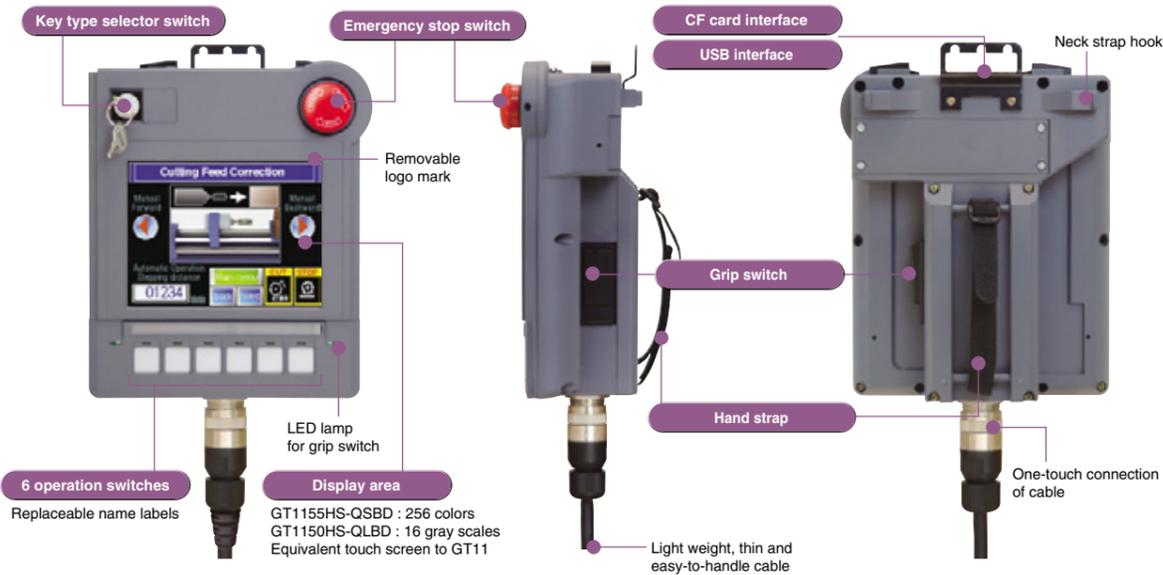
* : Supported by GT15 series XGA and SVGA models.



Portable and wearable Handy terminal can also be mounted on a wall or a machine

Handy GOT

GT1155HS-QSBD/GT1150HS-QLBD



Display area equivalent to GT11

- The GT1155HS-QSBD has a 256-color display; the GT1150HS-QLBD has a 16 degree gray scale display.

Key type selector switch

- Restricts access of certain operations (manual/auto switching, mode selection, setup change, etc.) to authorized operators.

Emergency stop switch using two break contacts

- Improved safety by using two break contacts connected in series, either of which can execute a stop command when being switched off.

Grip switch

- The three position (OFF-ON-OFF) switch can be connected to external devices as a dead-man switch. The grip switch can be used for immediate execution of a command to stop a machine.

6 operation switches

- When wired directly to external devices, these switches can be used as pushbutton switches to operate and stop various machines. The operation switch name labels can be changed freely.
- The control panel is equipped with 6 LED lamps (green) for the operation confirmation of each of these switches.

CF card interface

- The CF card interface enables quick GOT data transfer.

USB interface

- The USB interface permits fast data transfer between GT Designer2 and the GOT.

RS-232 interface

- An RS-232 interface is provided for the GOT data transfer when the USB interface is not used.

RS-232/RS-422 communication

- Either RS-232 or RS-422 can be selected for communication with connected devices.

Optional devices

- Emergency stop switch guard (GT11H-50ESCOV)
- Connector conversion box for Handy GOT
- CF card
- Optional function board (GT11-50FNB)
- Replacement battery (GT11-50BAT)
- External connection cable
- Personal computer connection cable (RS-232 cable/USB cable)
- Protective sheet

Experience the colors of the compact GOT lineup

GT10

GT1030

GT1020

- The 3-color LED backlight offers users a variety of display backgrounds.
- Two selectable wide screen sizes: 4.5" model with 288 × 96 pixel resolution, and 3.7" model with 160 × 64 pixel resolution.
- The high-brightness LCD offers clear imaging even under external lighting conditions.
- Thin in depth, and conforming to the protective structure IP67 standard.



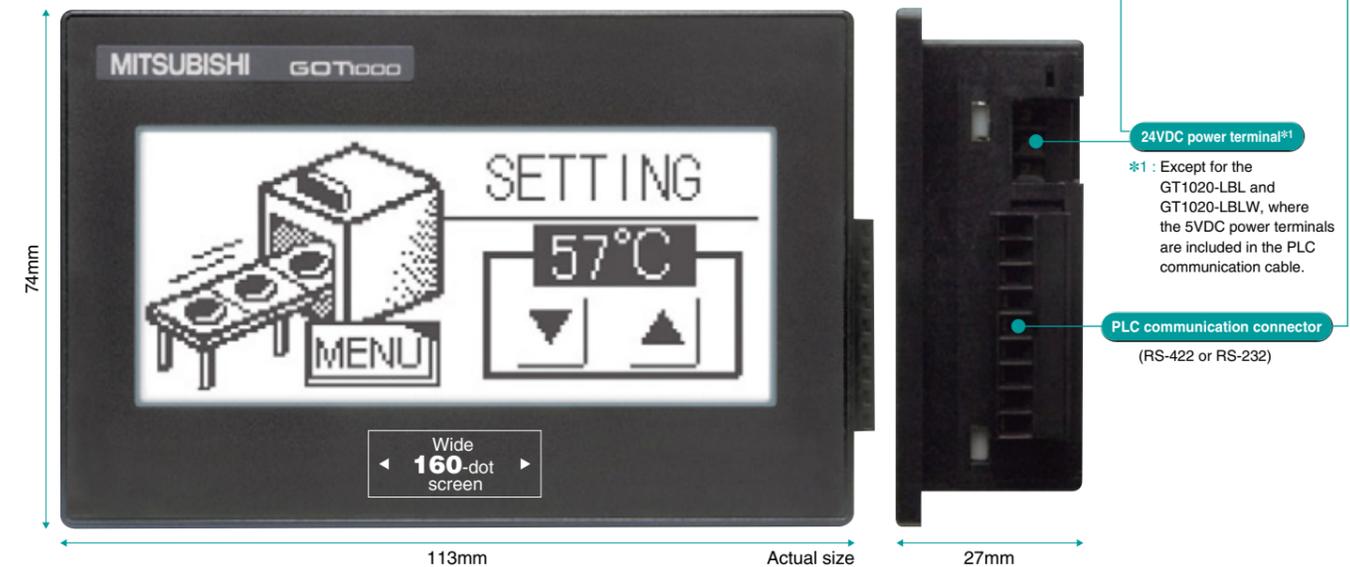
GT1030 Wide and creative visual solutions

- 4.5" type: 3-color LED (green/orange/red) type **NEW** • GT1030-LBD (RS-422 connection) • GT1030-LBD2 (RS-232 connection)
- 3-color LED (white/pink/red) type **NEW** • GT1030-LBDW (RS-422 connection) • GT1030-LBDW2 (RS-232 connection)



GT1020 Super-small display

- 3.7" type: 3-color LED (green/orange/red) type
- GT1020-LBD (RS-422 connection) • GT1020-LBD2 (RS-232 connection) • GT1020-LBL (RS-422 connection, 5VDC power supply)
- 3-color LED (white/pink/red) type **NEW**
- GT1020-LBDW (RS-422 connection) • GT1020-LBDW2 (RS-232 connection) • GT1020-LBLW (RS-422 connection, 5VDC power supply)



The usability of a GOT1000 condensed into a compact body

Flexible screen layout

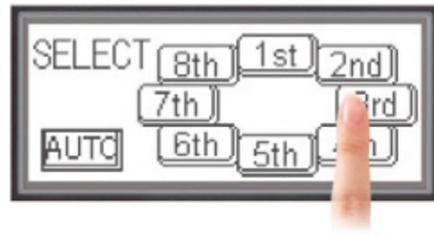
GT1030
GT1020

GT1030



- The use of the matrix type touch panel enables simultaneous two-point press.
 - Matrix type touch panel
 - Minimum unit of touch key size: 16 × 16 dots
 - Maximum number of touch keys: 50/screen

GT1020



- Due to the high resolution of the analog touch panel, touch switches can be placed with up to 1 pixel accuracy.
 - Analog touch panel
 - Min. unit of touch key size: 2 × 2 dots
 - Maximum number of touch keys: 50/screen

Wide, high-resolution LCD screen

GT1030

- The resolution has been improved while keeping the same panel cut size as our F930GOT. (1.2 times higher resolution than the F930)

F930

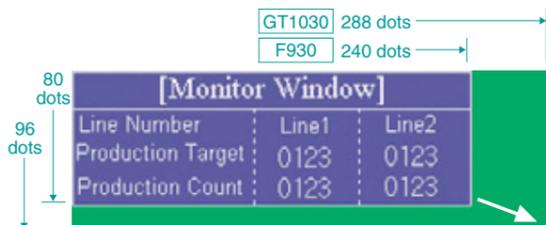


- Resolution: 240 × 80

GT1030



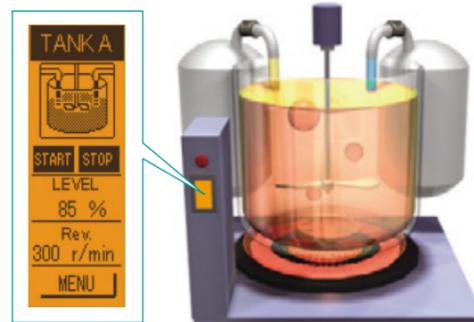
- Resolution: 288 × 96



Versatile mounting

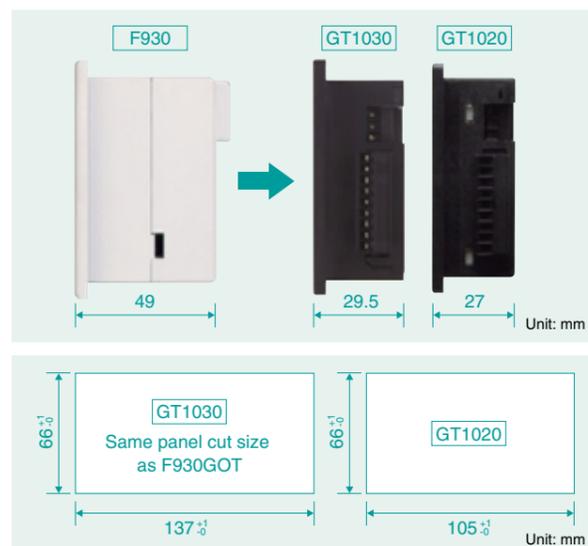
GT1030
GT1020

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



Thin and interchangeable panel cut size

GT1030
GT1020



Choose your font!

GT1030
GT1020

- A variety of fonts are available including the standard type set and Windows® type set.
- When Windows® fonts are selected, italic, underline and underlined italic are also available.

- *1: Standard fonts cannot be changed.
- *2: Fonts in user's personal computer where GT Designer2 is installed.



| Font type | Size | Font name | GT1030 | GT1020 |
|---------------|------------|---------------|--------|--------|
| Standard*1 | 6 × 8 dots | Gothic | ○ | ○ |
| | 12 dots | Gothic | ○ | — |
| | 16 dots | Gothic | ○ | ○ |
| High quality | 12 dots | Gothic/Mincho | ○ | ○ |
| | 16 dots | Gothic/Mincho | ○ | ○ |
| TrueType | | Gothic/Mincho | ○ | ○ |
| Windows® type | | *2 | ○ | ○ |

Power supply and communication

GT1020

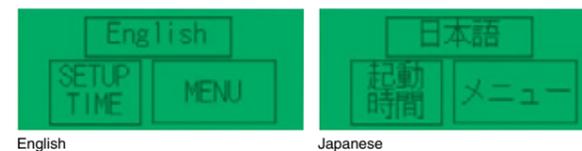
- The 5VDC type GOT draws power through the FX programming port communication cable. Additional power supply not needed.



Simple set-up of language switching windows

GT1030
GT1020

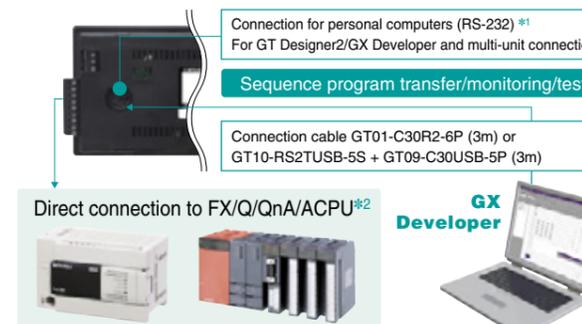
- Language switching windows can be easily created allowing one language to be switched to another, for example English to Japanese.
- Up to 10 languages can be switched per comment group. Window switching can take place not only for languages but also for different applications.



Transparent mode

GT1030
GT1020

- Through the personal computer communication connector on the back of the GOT, users can debug, modify and test sequence programs.



- *1: When two GT10 series units are connected, this connector is available to communicate with the second GT10 unit.
- *2: GT1020-LBL and GT1020-LBLW can only be connected to the FX PLC.

Alternative start-up screen

GT1030
GT1020

- Users can set-up alternative images to be displayed when the GOT starts up.

*: Bitmap images only.



Character from all over the world for people all over the world

GT1030
GT1020

- GT10 series can display a number of languages for a variety of countries and areas.



Functionality of the GOT1000 series in a compact design

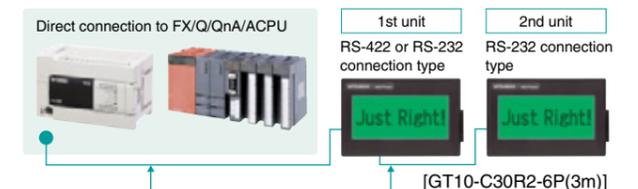
GT1030
GT1020

- Recipe function included
The GOT has a built-in memory for up to 4000 points (corresponding to 16-bit word devices) of recipe data. Using this memory the GOT can transfer a range of values to/from the PLC.
- Communication drivers
 - Pre-installed OS: The OS of the GOT is installed before shipment from the factory.
 - Communication driver: The communication driver installed before shipment is provided for the FX Series PLC. To connect Q/QnA/A Series PLC or a microcomputer board or third party PLC, you have to install the required communication driver available using GT Designer2.
- Screen saver and alarm function

Multi-unit connection for high cost performance

GT1030
GT1020

- Up to two units of GT10 can be connected in serial.



- [RS-422 or RS-232 connection]
- [RS-232 connection]

*: When two GT10 units are connected, transparent functionality is disabled.

Trouble free

- The GT10 series uses an LED backlight for high reliability that does not require replacement. [GT1030](#) [GT1020](#)
- The GT10 series is equipped with a flash ROM, therefore it does not require a battery. [GT1020](#)
- Major functionality (For more information, see the corresponding manual.)

| Features | Figure drawing | Object |
|---|---|---|
| <ul style="list-style-type: none"> Screen data: up to 1024 base screens + 3 types of key windows Font: Gothic (size: 6 × 8 dots, 16 dots [12 dots available only on GT1030], high quality, TrueType, Windows fonts) Screen switching function, screen call, language switching function, password protection, system information, connected equipment setting and startup logo | <ul style="list-style-type: none"> Straight line, continuous straight line, rectangle, polygon, chamfered rectangle, circle, ellipse, arc, elliptical arc, circular sector, elliptical sector Scale display Painting Image type (BMP/DXF) | <ul style="list-style-type: none"> Comment registration (basic comment/comment group) Object registration Data calculation function Offset function Security function Lamp display Touch key Numerical display/input ASCII display/input NEW Clock display (GT1030: built-in clock, GT1020: linked to PLC clock) Comment display Alarm list/alarm history Parts display Panel meter Trend graph/line graph/bar graph/statistical band graph NEW statistical circle graph NEW State monitoring function Recipe function (4000 points) Time action function |

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

Mitsubishi PLCs/motion controllers

A wide selection of Mitsubishi PLCs and motion controllers are supported.

| Series | Model name | Connection configuration | | | | | | | | | |
|----------------------------------|--------------------------------|--------------------------|-----------------------|---------------|-------------------|-----------------------|-----------------------|------------------------|----------------|--|--|
| | | Bus connection *2 *3 | CPU direct connection | Computer link | MELSECNET/H *1 | MELSECNET/10 *1 *4 | CC-Link (ID) *1 *5 | CC-Link (via G4) *5 | Ethernet *1 | GT10 CPU direct connection Computer link | |
| MELSEC-Q series (Q mode) | Q00CPU | ○*8 | | | | | | | | | |
| | Q00CPU *7 | | | | | | | | | | |
| | Q01CPU *7 | | | | | | | | | | |
| | Q02CPU *7 | | | | | | | | | | |
| | Q02HCPU *7 | | | | | | | | | | |
| | Q06HCPU *7 | | | | | | | | | | |
| | Q12HCPU *7 | | | | | | | | | | |
| | Q25HCPU *7 | | | | | | | | | | |
| | Q12PHCPU | | | | | | | | | | |
| | Q25PHCPU | | | | | | | | | | |
| | Q12PRHCPU | | | | | | | | | | |
| | Q25PRHCPU | | | | | | | | | | |
| | MELSECNET/H remote I/O station | QJ72LP25-25 | × | ○ | ○ | × | × | × | × | | |
| | | QJ72LP25G | × | ○ | ○ | × | × | × | × | | |
| | | QJ72BR15 | | | | | | | | | |
| MELSEC-Q series (A mode) | Q02CPU-A | × | ○ | ○ | × | ○ | ○ | × | | × | |
| | Q02HCPU-A | | | | | | | | | | |
| | Q06HCPU-A | | | | | | | | | | |
| | Q2ACPU | | | | | | | | | | |
| MELSEC-QnA series (QnACPU type) | Q2ACPU-S1 | | | | | | | | | | |
| | Q3ACPU | | | | | | | | | | |
| | Q4ACPU | | | | | | | | | | |
| | Q4ARCPU | ○*10 | | | × | | | × | | × | |
| MELSEC-QnA series (QnASCPU type) | Q2ASCPU | | | | | | | | | | |
| | Q2ASCPU-S1 | | | | | | | | | | |
| | Q2ASHCPU | | | | | | | | | | |
| | Q2ASHCPU-S1 | | | | | | | | | | |
| MELSEC-A series (AnCPU type) | A2UCPU | | | | | | | | | | |
| | A2UCPU-S1 | | | | | | | | | | |
| | A3UCPU | | | | | | | | | | |
| | A4UCPU | | | | | | | | | | |
| | A2ACPU | | | | | | | | | | |
| | A2ACPU-P21 | | | | | | | | | | |
| | A2ACPU-R21 | | | | | | | | | | |
| | A2ACPU-S1 | | | | | | | | | | |
| | A2ACPU-P21-S1 | | | | | | | | | | |
| | A2ACPU-R21-S1 | | | | | | | | | | |
| | A3ACPU | | | | | | | | | | |
| | A3ACPU-P21 | | | | | | | | | | |
| | A3ACPU-R21 | | | | | | | | | | |
| | A1NCPUP21 | | | | | | | | | | |
| | A1NCPUR21 | | | | | | | | | | |
| | A2NCPUP21 | | | | | | | | | | |
| | A2NCPUR21 | | | | | | | | | | |
| | A2NCPUS1 | | | | | | | | | | |
| | A2NCPUP21-S1 | | | | | | | | | | |
| | A2NCPUR21-S1 | | | | | | | | | | |
| A3NCPUP21 | | | | | | | | | | | |
| A3NCPUR21 | | | | | | | | | | | |

| Series | Model name | Connection configuration | | | | | | | | |
|---|---------------------|--------------------------|-----------------------|---------------|-------------------|-----------------------|-----------------------|------------------------|----------------|--|
| | | Bus connection *2 *3 | CPU direct connection | Computer link | MELSECNET/H *1 | MELSECNET/10 *1 *4 | CC-Link (ID) *1 *5 | CC-Link (via G4) *5 | Ethernet *1 | GT10 CPU direct connection Computer link |
| MELSEC-A series (AnSCPU type) *11 | A2USCPU | | | | | | | | | |
| | A2USCPU-S1 | | | | | | | | | |
| | A2USHCPU-S1 | | | | | | | | | |
| | A1SCPU | | | | | | | | | |
| | A1SCPU-P21 | | | | | | | | | |
| | A1SHCPU | | | | | | | | | |
| | A2SCPU | | | | | | | | | |
| | A2SCPU-S1 | | | | | | | | | |
| | A2SHCPU | | | | | | | | | |
| | A2SHCPU-S1 | | | | | | | | | |
| | A1SJCPU | | | | | | | | | |
| | A1SJCPU-S3 | | | | | | | | | |
| | A1SJHCPU | | | | | | | | | |
| | A1SJHCPU-S3 | | | | | | | | | |
| | MELSEC-A series *11 | A2CCPU | | | | | | | | |
| A2CCPU-P21 | | | | | | | | | | |
| A2CCPU-R21 | | | | | | | | | | |
| A2CCPU-S1 | | | | | | | | | | |
| Motion controller CPU (Q series) | Q172CPU *14 | | | | | | | | | |
| | Q172CPU-S1 *14 | | | | | | | | | |
| | Q172CPU-S3 *14 | | | | | | | | | |
| | Q172CPU-S3 *14 | | | | | | | | | |
| Motion controller CPU (A series) (large type) | A273UCPU | | | | | | | | | |
| | A273UCPU-S3 | | | | | | | | | |
| | A373UCPU | | | | | | | | | |
| | A373UCPU-S3 | | | | | | | | | |
| Motion controller CPU (A series) (small type) *11 | A171SCPU | | | | | | | | | |
| | A171SCPU-S3 | | | | | | | | | |
| | A171SHCPU | | | | | | | | | |
| | A171SHCPU-S3 | | | | | | | | | |
| MELSEC-FX series | FX0S | | | | | | | | | |
| | FX0N | | | | | | | | | |
| | FX1S | | | | | | | | | |
| | FX1N | | | | | | | | | |
| | FX1NC | | | | | | | | | |
| | FX1NC | | | | | | | | | |
| | FX2N | | | | | | | | | |
| | FX2NC | | | | | | | | | |
| | FX3U | | | | | | | | | |
| | FX3UC | | | | | | | | | |

*1: Supported only by the GT15.
 *2: Supported only by the GT15, GT115□-Q□BDQ and GT115□-Q□BDA.
 *3: When connecting multiple GOTs, note that the following GOT models cannot be used together: GOT1000 series, GOT-A900 series, GOT800 series and A77GOT.
 *4: When MELSECNET/H is used in NET/10 mode, the GOT terminal cannot be connected directly to a remote I/O station.
 *5: CC-Link (ID): Connected as CC-Link (intelligent device station).
 CC-Link (via G4): Connected to a CC-Link system via AJ65BT-G4-S3.
 *6: When using A series computer link (C24 modules) or an Ethernet module 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 relay (L) and step relay (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 the latch relay or step relay is specified.)
 • File register (R)
 *7: Use CPU function version B or later in a multi-CPU system.
 *8: When using a bus extension connector box, it must be installed on an extension base. (It cannot be installed on the main base.)
 *9: Use function version B or later for the CPU and MELSECNET/H network unit.
 *10: In Q4ARCPU redundant system, GOT must be connected via bus connection to the last stage's redundant system extension base A68RB version B or later.
 *11: Computer link unit software version U or later must be used for the A2SCPU, A2SHCPU, A1SHCPU, A1SJHCPU, A171SHCPU and A172SHCPU computer link connections.
 A0J2-C214-S1 (dedicated computer link unit for A0J2HCPU) cannot be used.

*12: 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
 *13: Cannot connect to bus if an extension base is connected.
 *14: Use of SV13, SV22 or SV43 requires a motion controller with the following OS version installed.
 SW6RN-SV13Q□: 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
 *15: Only a USB interface is available on the Q172HCPU and Q173HCPU.
 The Q172HCPU and Q173HCPU can be accessed using a multi-CPU system QCPU RS-232.
 *16: Use a unit with the following Serial No.
 Q172CPU Serial No. K***** or later
 Q173CPU Serial No. J***** or later
 *17: Use a unit with the following Serial No.
 Q172CPU Serial No. M***** or later
 Q173CPU Serial No. L***** or later
 *18: When an expansion base is used, use A168B.

*: Applicable GOT varies depending on the connection destination.
 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.)
 GT11 ... When connected via RS-232 or RS-422 : GT115□-Q□BD
 When using bus connection : GT115□-Q□BDQ, GT115□-Q□BDA
 GT10 ... When connected via RS-232 : GT1030-LBD2/LBDW2, GT1020-LBD2/LBDW2
 When connected via RS-422 : GT1030-LBD/LBDW, GT1020-LBD/LBDW, GT1020-LBL/LBLW (The GT1020-LBL/LBLW can be used only with the MELSEC-FXCPU.)

Modules usable when connected with Mitsubishi PLCs

For computer link connection

| CPU series | Serial communication module/computer link module*1 | | |
|--|--|-------------------------|------------|
| | Model | 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 *7 Modular connector | 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 RS-232 | RS-422/485 |
| | A1SJ71QC24N1-R2 | *4 RS-232 | RS-232 |
| MELSEC-A series Motion controller CPU (A series) | AJ71UC24 | *4 *6 *7 RS-232 | RS-422/485 |
| | AJ71UC24 | *4 *5 RS-232 | RS-422/485 |
| | A1SJ71UC24-R2 | *5 RS-232 | - |
| | A1SJ71UC24-R4 | *5 RS-422/485 | - |
| | A1SJ71C24-R2 | *5 *6 RS-232 | - |
| | A1SJ71C24-R4 | *5 *6 RS-422/485 | - |
| | A1SCPU-C24-R2 | *5 RS-232 | - |
| A2CCPU-C24 | *4 RS-232 | RS-422/485 | |

*1: RS-485 communication is not possible; therefore, A0J2-C214-S1 is unusable.
 When using A series computer link (C24 modules) 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 relay (L) and step relay (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 the 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), 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.)
 *7: GT10 cannot be used.

For MELSECNET/H connection

| CPU series | MELSECNET/H module | |
|----------------------------|--------------------|--------------|
| | Optical loop | Coaxial loop |
| MELSEC-Q series (Q mode)*1 | QJ71LP21 | QJ71BR11 |
| | QJ71LP21-25 | |
| | QJ71LP21S-25 | |
| | | |

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

For MELSECNET/10 connection

| CPU series | MELSECNET/10 module | |
|---|---------------------|--------------|
| | Optical loop | Coaxial loop |
| MELSEC-Q series (Q mode)*1 | QJ71LP21 | QJ71BR11 |
| | QJ71LP21-25 | |
| | QJ71LP21S-25 | |
| MELSEC-QnA series | AJ71QLP21 | AJ71QBR11 |
| | A1SJ71QLP21 | A1SJ71QBR11 |
| MELSEC-Q series (A mode) MELSEC-A series Motion controller CPU (A series) | AJ71LP21 | AJ71BR11 |
| | A1SJ71LP21 | A1SJ71BR11 |

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

CC-Link (ID) connection

| CPU series | CC-Link unit |
|---|--------------|
| MELSEC-Q series (Q mode) | QJ61BT11 |
| | QJ61BT11N |
| MELSEC-QnA series | AJ61QBT11*1 |
| MELSEC-Q series (A mode) MELSEC-A series Motion controller CPU (A series) | AJ61BT11*1 |

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

CC-Link (via G4) connection*1

| CPU series | CC-Link unit | Peripheral device unit |
|--------------------------|--------------|------------------------|
| MELSEC-Q series (Q mode) | QJ61BT11 | AJ65BT-G4-S3 |
| | QJ61BT11N | |

*1: GT115□-Q□BD can monitor only the master station.

For Ethernet connection

| CPU series | Ethernet module*1 | |
|---|-------------------|-----------------|
| MELSEC-Q series (Q mode) | QJ71E71-100 | |
| | QJ71E71-B5 | |
| | QJ71E71-B2 | |
| | QJ71E71 | |
| MELSEC-QnA series | AJ71QE71N3-T | A1SJ71QE71N3-T |
| | AJ71QE71N-B5 | A1SJ71QE71N-B5 |
| | AJ71QE71N-B2 | A1SJ71QE71N-B2 |
| | AJ71QE71N-T | A1SJ71QE71N-T |
| | AJ71QE71N-B5T | A1SJ71QE71N-B5T |
| MELSEC-Q series (A mode) MELSEC-A series Motion controller CPU (A series) | AJ71QE71 | A1SJ71QE71-B5 |
| | AJ71QE71-B5 | A1SJ71QE71-B2 |
| | AJ71E71N3-T | A1SJ71E71N3-T |
| | AJ71E71N-B5 | A1SJ71E71N-B5 |
| | AJ71E71N-B2 | A1SJ71E71N-B2 |
| AJ71E71N-T | A1SJ71E71N-T | |
| AJ71E71N-B5T | A1SJ71E71N-B5T | |
| AJ71E71-S3 | A1SJ71E71-B5-S3 | |
| | A1SJ71E71-B2-S3 | |

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

Third party PLCs/motion controllers

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

| Manufacturer | Model name | GT15/GT11/GT10 | | | | | |
|---|--------------|--------------------------|--------|-----------------------|--------|---------------------|----|
| | | Computer link connection | | CPU direct connection | | Ethernet connection | *9 |
| | | RS-422 | RS-232 | RS-422 | RS-232 | | |
| OMRON | SYSMAC CPM | × | | | | × | |
| | CPM1A | | | | | × | |
| | CPM1 | | | | | ○ | |
| | CPM2A | | | | | ○ | |
| | CPM2C | | | | | × | |
| | SYSMAC CQM1H | | | | | | |
| | CQM1H | | | | | | |
| | SYSMAC CJ1 | | | | | | |
| | CJ1H | | | | | ○ | |
| | CJ1G | | | | | ○ | |
| | CJ1M | | | | | × | |
| | SYSMAC CP1 | | | | | | |
| | CP1H | | | | | × | |
| | SYSMAC α | | | | | | |
| | C200HX | | | | | ○ | |
| C200HG | | | | | ○ | | |
| C200HE | | | | | × | | |
| SYSMAC CS1 | | | | | | | |
| CS1H | | | | | | | |
| CS1G | | | | | | | |
| CS1D | | | | | | | |
| SYSMAC CVM1/CV | | | | | | | |
| CV500 | | | | | | | |
| CV1000 | | | | | | | |
| CV2000 | | | | | | | |
| CVM1 | | | | | | | |
| CQM1 | | | | | | ○*2 | |
| C200HS | | | | | | | |
| C200H | | | | | | × | |
| C1000H | | | | | | × | |
| C2000H | | | | | | × | |
| KEYENCE*1 | | | | | | | |
| KV-700 | | | | | | × | |
| KV-1000 | | | | | | × | |
| JW-21CU | | | | | | × | |
| JW-31CUH | | | | | | × | |
| JW-50CUH | | | | | | × | |
| JW-22CU | | | | | | | |
| JW-32CUH | | | | | | × | |
| JW-33CUH | | | | | | × | |
| JW-70CUH | | | | | | ○*3 | |
| JW-100CUH | | | | | | × | |
| JW-100CU | | | | | | × | |
| Z-512J | | | | | | ○*3 | |
| JTEKT*1 | | | | | | | |
| TOYOPUC series | | | | | | | |
| PC3JG | TIC-6088 | | | | | ○*4 | |
| | TIC-6125 | | | | | ○*4 | |
| PC3J | TIC-5339 | | | | | ○*4 | |
| | TIC-5783 | | | | | ○*4 | |
| PC2J | THC-5070 | | | | | ○*4 | |
| | THC-5169 | | | | | ○*4 | |
| | THC-5173 | | | | | ○*4 | |
| | THC-2764 | | | | | × | |
| | THC-2994 | | | | | × | |
| | THC-5053 | | | | | × | |
| TOSHIBA*1 | | | | | | | |
| PROSEC T series | | | | | | | |
| T2 (PU224) | | | | | | ○ | |
| T2E | | | | | | ○*3 | |
| T2N | | | | | | × | |
| T3 | | | | | | × | |
| T3H | | | | | | × | |
| V series | | | | | | | |
| model 3000 (S3) | | | | | | × | |
| model 2000 (S2) | | | | | | × | |
| Hitachi Industrial Equipment Systems*1 | | | | | | | |
| Large-sized H series | | | | | | | |
| H-302 (CPU2-03H) | | | | | | | |
| H-702 (CPU2-07H) | | | | | | | |
| H-1002 (CPU2-10H) | | | | | | | |
| H-2002 (CPU-20H) | | | | | | | |
| H-4010 (CPU3-40H) | | | | | | | |
| H-300 (CPU-03Ha) | | | | | | | |
| H-700 (CPU-07Ha) | | | | | | | |
| H-2000 (CPU-20Ha) | | | | | | | |
| H-200 (CPU-02H, CPE-02H) | | | | | | | |
| H-250 (CPU21-02H) | | | | | | | |
| H-252 (CPU22-02H) | | | | | | | |
| H-252B (CPU22-02HB) | | | | | | | |
| H-252C (CPU22-02HC) | | | | | | | |
| H-252C (CPE22-02HC) | | | | | | | |
| H series board type | | | | | | | |
| H-20DR | | | | | | | |
| H-28DR | | | | | | | |
| H-40DR | | | | | | | |
| H-64DR | | | | | | | |
| H-20DT | | | | | | | |
| H-28DT | | | | | | | |
| H-40DT | | | | | | | |
| H-64DT | | | | | | | |
| HL-40DR | | | | | | | |
| HL-64DR | | | | | | | |
| EH-150 series | | | | | | | |
| EH-CPU104 | | | | | | | |
| EH-CPU208 | | | | | | | |
| EH-CPU308 | | | | | | | |
| EH-CPU316 | | | | | | | |
| Hitachi*1 | | | | | | | |
| S10V | | | | | | | |
| LQP510 | | | | | | | |
| LQP520 | | | | | | | |
| LQP800 | | | | | | | |
| LQP000 | | | | | | | |
| LQP010 | | | | | | | |
| LQP011 | | | | | | | |
| LQP120 | | | | | | | |
| Fuji Electric FA Components & Systems*1 | | | | | | | |
| MICREX-F | | | | | | | |
| F55 | | | | | | | |
| F70 | | | | | | | |
| F120S | | | | | | | |
| F140S | | | | | | | |
| F15_S | | | | | | | |

*1: 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 RS-232 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 (PCCP protocol) is supported. **Coming soon**
 *9: Only GT15 is applicable.

| Manufacturer | Model name | GT15/GT11/GT10 | | | | | |
|---|--------------|--------------------------|--------|-----------------------|--------|---------------------|----|
| | | Computer link connection | | CPU direct connection | | Ethernet connection | *9 |
| | | RS-422 | RS-232 | RS-422 | RS-232 | | |
| Matsushita Electric Works*1 | FP0-C16CT | | | | | | |
| | FP0-C32CT | | | | | | |
| | FP1-C24C | | | | | | |
| | FP1-C40C | | | | | | |
| | FP2 | | | | | | |
| | FP2SH | | | | | | |
| | FP3 | | | | | | |
| | FP5 | | | | | | |
| | FP10 (S) | | | | | | |
| | FP10SH | | | | | | |
| | FP-M (C20TC) | | | | | | |
| | FP-M (C32TC) | | | | | | |
| | FP-Σ | | | | | | |
| | FP-X | | | | | | |
| | GL120 | | | | | | |
| GL130 | | | | | | | |
| GL60S | | | | | | | |
| GL60H | | | | | | | |
| GL70H | | | | | | | |
| CP-9200SH | | | | | | | |
| CP-9300MS | | | | | | | |
| MP920 | | | | | | | |
| MP930 | | | | | | | |
| MP940 | | | | | | | |
| PROGIC-8 | | | | | | | |
| CP-9200 (H) | | | | | | | |
| MP2200 | | | | | | | |
| MP2300 | | | | | | | |
| Yaskawa Electric*1 | | | | | | | |
| FA500 | | | | | | | |
| FA500 | | | | | | | |
| F3SP05 | | | | | | | |
| F3SP08 | | | | | | | |
| F3SP10 | | | | | | | |
| F3SP20 | | | | | | | |
| F3SP30 | | | | | | | |
| F3FP36 | | | | | | | |
| F3SP21 | | | | | | | |
| F3SP25 | | | | | | | |
| F3SP35 | | | | | | | |
| F3SP28 | | | | | | | |
| F3SP38 | | | | | | | |
| F3SP53 | | | | | | | |
| F3SP58 | | | | | | | |
| F3SP59 | | | | | | | |
| F3SP66 | | | | | | | |
| F3SP67 | | | | | | | |
| STARDOM | | | | | | | |
| NFCP100 | | | | | | | |
| NFJT100 | | | | | | | |
| Yokogawa Electric*1 | | | | | | | |
| FA-M3 | | | | | | | |
| FA500 | | | | | | | |
| F3SP05 | | | | | | | |
| F3SP08 | | | | | | | |
| F3SP10 | | | | | | | |
| F3SP20 | | | | | | | |
| F3SP30 | | | | | | | |
| F3FP36 | | | | | | | |
| F3SP21 | | | | | | | |
| F3SP25 | | | | | | | |
| F3SP35 | | | | | | | |
| F3SP28 | | | | | | | |
| F3SP38 | | | | | | | |
| F3SP53 | | | | | | | |
| F3SP58 | | | | | | | |
| F3SP59 | | | | | | | |
| F3SP66 | | | | | | | |
| F3SP67 | | | | | | | |
| STARDOM | | | | | | | |
| NFCP100 | | | | | | | |
| NFJT100 | | | | | | | |
| TOSHIBA*1 | | | | | | | |
| SLC500 series*5 | | | | | | | |
| SLC500-20 | | | | | | | |
| SLC500-30 | | | | | | | |
| SLC500-40 | | | | | | | |
| SLC5/01 | | | | | | | |
| SLC5/02 | | | | | | | |
| SLC5/03 | | | | | | | |
| SLC5/04 | | | | | | | |
| SLC5/05 | | | | | | | |
| Hitachi Industrial Equipment Systems*1 | | | | | | | |
| MicroLogix 1000 series (digital CPU)*5 | | | | | | | |
| 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 *6 *7 | | | | | | | |
| 1761-L20AWA-5A | | | | | | | |
| 1761-L20BWA-5A | | | | | | | |
| 1761-L20BWB-5A | | | | | | | |
| MicroLogix 1200 series*5 | | | | | | | |
| 1762-L24BWA | | | | | | | |
| 1764-LSP | | | | | | | |
| Allen-Bradley (Rockwell) | | | | | | | |
| ControlLogix series | | | | | | | |
| 1756-L | | | | | | | |
| 1756-L1M1 | | | | | | | |
| 1756-L1M2 | | | | | | | |
| 1756-L1M3 | | | | | | | |
| 1756-L61 | | | | | | | |
| 1756-L62 | | | | | | | |
| 1756-L63 | | | | | | | |
| 1756-L55M12 | | | | | | | |
| 1756-L55M13 | | | | | | | |
| 1756-L55M14 | | | | | | | |
| 1756-L55M16 | | | | | | | |
| 1756-L55M22 | | | | | | | |
| 1756-L55M23 | | | | | </ | | |

GT15

General specifications

| Item | Specification | |
|---------------------------------|---|---------------------|
| Operating ambient temperature*1 | 0 to 50°C | |
| Storage ambient temperature | 0 to 55°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 | |
| | Under intermittent vibration | |
| | Under continuous vibration | |
| | Frequency | 5 to 9Hz |
| | Acceleration | 9.8m/s ² |
| Impact resistance | Conforming to JIS B 3502 and IEC 61131-2 (147m/s ² , 3 times in each of X, Y and Z directions) | |
| Operating atmosphere | No corrosive gas | |
| 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 | |

- *1: When an extension unit is mounted on the MELSECNET/H communication unit (GT15-J71LP23-25 or GT15-J71BR13) or CC-Link communication unit (GT15-J61BT13), the operating ambient temperatures are 5°C lower than the maximum temperatures shown in the general specifications table.
- *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-J71LP23-2 or GT15-J71BR13-Z) or CC-Link communication unit (GT15-J61BT13-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 the 0m elevation atmospheric pressure, as this could result in abnormal operation.
- *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 2500V for devices with ratings up to 300V.
- *6: Index that indicates the level of foreign conductive matter in the operating environment of device. Contamination level 2 denotes contamination by non-conductive matter only, though momentary conductivity may occur due to occasional condensation.

Performance specifications

| Item | Specification | | | | | | | | |
|--|---|---|---|---|---|---|---|---|--|
| | GT1595-VTBD | GT1585V-STBA GT1585V-STBD | GT1575V-STBA GT1575V-STBD | GT1575-VTBA GT1575-VTBD | GT1575-VNBA GT1575-VNBD | GT1572-VNBA GT1572-VNBD | GT1565-VTBA GT1565-VTBD | GT1562-VNBA GT1562-VNBD | |
| Type | 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] | | | | |
| Number of displayed characters | 16-dot standard font: 64 chars. × 48 lines (2-byte) | 16-dot standard font: 50 chars. × 37 lines (2-byte) | 16-dot standard font: 40 chars. × 30 lines (2-byte) | | 12-dot standard font: 53 chars. × 40 lines (2-byte) | | | | |
| | 12-dot standard font: 85 chars. × 64 lines (2-byte) | 12-dot standard font: 66 chars. × 50 lines (2-byte) | | | | | | | |
| Display colors | 65536 colors | | | 256 colors | 16 colors | 65536 colors | 16 colors | | |
| View angle*5 | Right/left: 75°, Up: 50°, Down: 60° | Right/left: 60°, Up: 40°, Down: 50° | Right/left/up/down: 85° | 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] | 350 [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 | | |
| 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*1 | 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) | | | | | | | | |
| Type | Analog resistive type | Matrix resistive type | | | | | | | |
| Number of touch keys | 3072 keys/screen (48 lines × 64 columns) | 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*2 (1 point only) | Max. 2 points | | | | | | | |
| Life | 1,000,000 times or more (operating force 0.98N or less) | | | | | | | | |
| Detection distance | 1[m] | | | | | | | | |
| Detection range | Right/left/up/down: 70° | | | | | | | | |
| Detection delay time | 0 to 4 [sec] | | | | | | | | |
| Memory*3 | C drive | 9MB built-in flash memory (for saving project data, extended function OS/optional function OS) | | 5MB built-in flash memory (for saving project data, extended function OS/optional function OS) | | 9MB built-in flash memory (for saving project data, extended function OS/optional function OS) | | 5MB built-in flash memory (for saving project data, extended function OS/optional function OS) | |
| | Life (No. of writings) | 100,000 times | | | | | | | |
| Battery | Backed up data | GT15-BAT type lithium battery (optional) | | | | | | | |
| | Life | Clock data and maintenance time notification data Approx. 5 years (operating ambient temperature: 25°C) | | | | | | | |
| Built-in interface | RS-232 | RS-232, 1ch, Transmission speed: 115200/57600/38400/19200/9600/4800 bps, Connector shape: D-sub 9-pin (male) Application: Communication with connected devices, connection to personal computer (project data upload/download, OS installation, FA transparent function) | | | | | | | |
| | USB | USB (full speed: 12 Mbps), device 1ch Application: Connection to personal computer (project data upload/download, OS installation, FA transparent function) | | | | | | | |
| | CF card | Compact flash slot, 1ch, Connector shape: TYPE I Application: Data transfer and storage | | | | | | | |
| | Optional function board | 1ch for optional function board installation | | | | | | | |
| Buzzer output | Single tone (tone length adjustable) | | | | | | | | |
| Protective construction | JEM1030 Front: IP67*4 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) × 192(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) | 4.9 [kg] | 2.8 [kg] | GT1575V-2.3 [kg] GT1575-2.4 [kg] | 2.4 [kg] | 2.3 [kg] | 1.9 [kg] | | | |
| Applicable software packages | Screen design software Simulation software GT Designer2 Version 2.58L or later GT Simulator2 Version 2.58L or later | | | | | | | | |

- *1: Using the GOT screen save/backlight OFF functions prevents screen burn-in and extends the backlight life.
- *2: 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.
- *3: The built-in memory is a ROM that permits overwriting of new data without having to delete the existing data.
- *4: Conforms to the IP67 (JEM1030) standard when the USB port cover is installed. (The USB interface conforms to IP2X (JEM1030) when a USB cable is connected.)
However, this does not guarantee protection in all users' environments.

- *5: 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.
- *6: The GT1555-VTBD can be operated with a stylus pen. Using a stylus pen enables touching small switches without fault. Use a stylus pen within the following specifications.
 - Material: Polyacetal resin
 - Point tip radius: 0.8mm or more

Power supply specifications

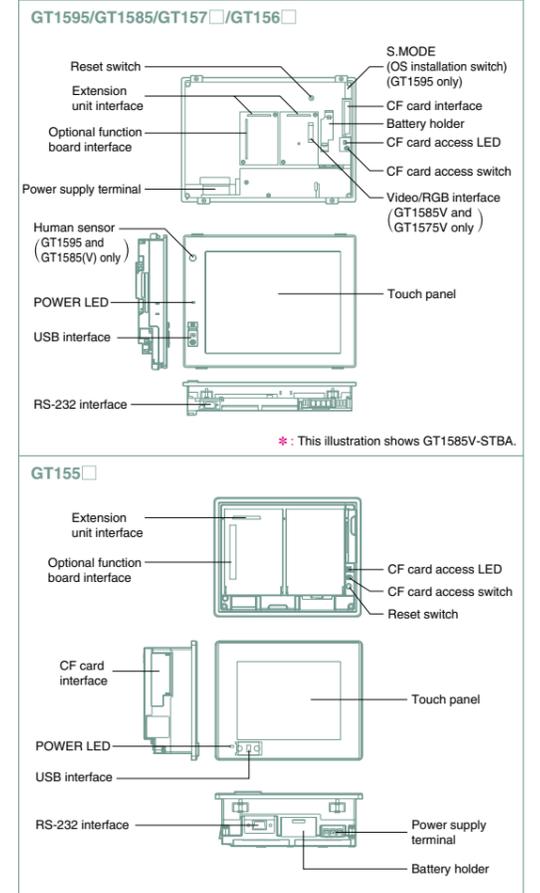
| Item | Specification | | | | | | | | | | |
|--|---|------------------------------------|--|-------------------------------------|-------------------------------------|--|------------------------------------|------------------------------------|------------------------------------|------------------------------|-------------|
| | GT1595-VTBA | GT1585V-STBA GT1585V-STBD | GT1575V-STBA GT1575V-STBD GT1575-VNBA GT1572-VNBA GT1565-VTBA GT1562-VNBA | GT1595-VTBD | GT1585V-STBD GT1585V-STBD | GT1575V-STBD GT1575V-STBD GT1575-VNBD GT1572-VNBD GT1565-VTBD GT1562-VNBD | GT1555-VTBD | GT1555-VTBD | GT1555-VTBD | GT1555-VTBD | GT1550-VTBD |
| Input power supply voltage | 100 to 240VAC (+10%, -15%) | | | | | 24VDC (+25%, -20%) | | | | | |
| Input frequency | 50/60Hz ±5% | | | | | - | | | | | |
| Input maximum voltage | 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) | 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 width 1μs, and noise frequency 25 to 60Hz, by noise simulator with noise voltage 1500Vp-p | | | | | Noise width 1μs, and noise frequency 25 to 60Hz, by noise simulator with noise voltage 500Vp-p | | | | | |
| Withstand voltage | 1500VAC for 1 minute between power supply terminal and ground for 1 minute | | | | | 500VAC for 1 minute between power supply terminal and ground for 1 minute | | | | | |
| 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-VTBD | GT1555-VTBD | GT1550-VTBD |
| Type | TFT color LCD (high-brightness, wide viewing angle) | | STN color LCD | STN monochrome (black and white) LCD |
| Screen size | 5.7" | | | |
| Resolution | VGA:640 × 480 [dots] | | QVGA:320 × 240 [dots] | |
| Display size | 115(W) × 86(H) [mm] | | | |
| Number of displayed characters | 16-dot standard font: 40 chars. × 30 lines (2-byte) | 16-dot standard font: 20 chars. × 15 lines (2-byte) | | 12-dot standard font: 26 chars. × 20 lines (2-byte) |
| | 12-dot standard font: 53 chars. × 40 lines (2-byte) | | | |
| Display colors | 65536 colors | | 4096 colors | monochrome 16 gray scale |
| View angle*5 | 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*1 | 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) | | | |
| Type | Matrix resistive type | | | |
| Number 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) | | | |
| Detection distance | - | | | |
| Detection range | - | | | |
| Detection delay time | - | | | |
| Memory*3 | C drive | 9MB built-in flash memory (for saving project data, extended function OS/optional function OS) | | |
| | Life (No. of writings) | 100,000 times | | |
| Battery | Backed up data | GT15-BAT type lithium battery (optional) | | |
| | Life | Clock data and maintenance time notification data Approx. 5 years (operating ambient temperature: 25°C) | | |
| Built-in interface | RS-232 | RS-232, 1ch, Transmission speed: 115200/57600/38400/19200/9600/4800 bps, Connector shape: D-sub 9-pin (male) Application: Communication with connected devices, connection to personal computer (project data upload/download, OS installation, FA transparent function) | | |
| | USB | USB (full speed: 12 Mbps), device 1ch Application: Connection to personal computer (project data upload/download, OS installation, FA transparent function) | | |
| | CF card | Compact flash slot, 1ch, Connector shape: TYPE I Application: Data transfer and storage | | |
| | Optional function board | 1ch for optional function board installation | | |
| Buzzer output | Single tone (tone length adjustable) | | | |
| Protective construction | JEM1030 Front: IP67*4 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 packages | Screen design software Simulation software GT Designer2 Version 2.58L or later GT Simulator2 Version 2.58L or later | | | |

- 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.

Component names



*: This illustration shows GT1585V-STBA.

GT11/GT10

General specifications

| Item | Specification | |
|--|---|--|
| Operating ambient temperature | Display: 0 to 50°C ^{*5} | |
| | Other than display: 0 to 55°C ^{*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 | |
| | Under intermittent vibration | Frequency: 5 to 9Hz, Acceleration: 9.8m/s ² , Half amplitude: 3.5mm, Sweep count: 10 times in each of X, Y and Z directions |
| | Under continuous vibration | Frequency: 5 to 9Hz, Acceleration: 4.9m/s ² , Half amplitude: 1.75mm, Sweep count: 10 times in each of X, Y and Z directions |
| | Under intermittent vibration | Frequency: 9 to 150Hz, Acceleration: 9.8m/s ² , Half amplitude: 3.5mm, Sweep count: 10 times in each of X, Y and Z directions |
| Impact resistance | Conforming to JIS B 3502 and IEC 61131-2 (147m/s ² , 3 times in each of X, Y and Z directions) | |
| Operating atmosphere | No corrosive gas | |
| 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 | |

- *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 the 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 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 GT11□□HS
- *6: Excluding GT115□□HS

Performance specifications

| Item | Specification | | | | | | | | |
|--|--|---|--|--|--|---|--|--|------------------------------|
| | GT1155-QSBD | GT1150-QLBD | GT1155HS-QSBD | GT1150HS-QLBD | GT1155-QTBDQ GT1155-QTBDA | GT1155-QSBDQ GT1155-QSBDA | GT1150-QLBDQ GT1150-QLBDA | GT1150-LBD GT1150-LBD2 GT1150-LBDW GT1150-LBDW2 | |
| Display | Type | STN color LCD | STN monochrome (black and white) LCD | STN color LCD | STN monochrome (black and white) LCD | TFT color LCD | STN color LCD | STN monochrome (black and 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) | | | |
| | Number 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 and white) 16 gray scale | 256 colors | monochrome (black and white) 16 gray scale | 256 colors | | monochrome (black and white) 16 gray scale | |
| | View angle | Right/left: 50°, Up: 50°, Down: 60° (in horizontal display mode) | Right/left: 45°, Up: 20°, Down: 40° (in horizontal display mode) | Right/left: 50°, Up: 50°, Down: 60° | Right/left: 45°, Up: 20°, Down: 40° | 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° | |
| | Contrast adjustment | 16-step adjustment | | | | | | | |
| | Intensity | 350 [cd/m ²] | 220 [cd/m ²] | 350 [cd/m ²] | 220 [cd/m ²] | 400 [cd/m ²] | 380 [cd/m ²] | 220 [cd/m ²] | |
| | Backlight | Life ^{*1} | Approx. 50,000 hours (operating ambient temperature: 25°C) | | | | | | |
| Life ^{*1} | | Cold-cathode fluorescent tube (not replaceable), with backlight OFF detection function. Backlight off time and screen save time can be set. | | | | | | | |
| Life ^{*1} | | 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 | Approx. 75,000 hours or more | Approx. 54,000 hours or more |
| Touch panel | Type | Matrix resistive type | | | | | | | |
| | Number 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 | | | | | | | |
| Memory | C drive ^{*2} | 3MB built-in flash memory (for saving project data, OS) | | | | | | | |
| | Life (No. of writings) | 100,000 times | | | | | | | |
| | D drive | Built-in SRAM, 512 Kbytes (battery backup) | | | | | | | |
| Battery | Backed up data | GT11-50BAT type lithium battery | | | | | | | |
| | Life | Clock data, alarm history and recipe data | | | | | | | |
| | Life | 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/CPU/motion controller CPU (A series) Application: For bus connection of PLC | | | |
| | RS-422 | RS-422, 1ch, Transmission speed: 115200/57600/38400/19200/9600/4800 bps, Connector shape: D-sub 9-pin (female) Application: Communication with connected devices | | - | | - | | - | |
| | RS-422/232 | - | | RS-422/232, 1ch, (Select one when using.) Transmission speed: 115200/57600/38400/19200/9600/4800 bps, Connector shape: Round type, 32-pin (male) Application: Communication with connected devices | | - | | - | |
| | RS-232 | RS-232, 1ch, Transmission speed: 115200/57600/38400/19200/9600/4800 bps, Connector shape: D-sub 9-pin (male) Application: Communication with connected devices, connection to personal computer (project data upload/download, OS installation, FA transparent function) | | RS-232, 1ch, Transmission speed: 115200/57600/38400/19200/9600/4800 bps, Connector shape: Mini-DIN 9-pin (female) Application: Connection to personal computer (project data upload/download, OS installation, FA transparent function) | | RS-232, 1ch, Transmission speed: 115200/57600/38400/19200/9600/4800 bps, Connector shape: D-sub 9-pin (male) Application: Connection to barcode reader, personal computer (project data upload/download, OS installation, FA transparent function) | | - | |
| | USB | USB (full speed: 12 Mbps), device 1ch Application: Connection to personal computer (project data upload/download, OS installation, FA transparent function) | | | | | | | |
| CF card | Compact flash slot, 1ch, Connector shape: TYPE I Application: Data transfer and storage | | | | | | | | |
| Buzzer output | Optional function board 1ch for optional function board installation | | | | | | | | |
| Protective construction | Single tone (tone length adjustable) | | | | | | | | |
| External dimensions (without USB port cover) | 164(W) × 135(H) × 56(D) [mm] | | 176(W) × 220(H) × 93(D) [mm] | | 167(W) × 135(H) × 65(D) [mm] | | | | |
| Panel cut dimensions | 153(W) × 121(H) [mm] | | - | | 153(W) × 121(H) [mm] | | | | |
| Weight | 0.7 [kg] (excl. fittings) | | 1.0 [kg] (main unit only) | | 0.9 [kg] (excl. fittings) | | | | |
| Applicable software packages | Screen design software: GT Designer2 Version 2.58L or later Simulation software: GT Simulator2 Version 2.58L or later | | | | | | | | |

- *1: Using the GOT screen save/backlight OFF functions prevents screen burn-in and extends the backlight life.
- *2: The built-in memory is a ROM that permits overwriting of new data without having to delete the existing data.
- *3: Conforms to the IP67 (JEM1030) standard when the USB port cover is installed. (The USB interface conforms to IP2X (JEM1030) when a USB cable is connected.) However, this does not guarantee protection in all users' environments.
- *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.

Power supply specifications

| Item | Specification | | | | | | | |
|--|---|------------------------------|--|------------------------------|--|--|--|---------------------------|
| | GT1155-QSBD GT1155HS-QSBD | GT1150-QLBD GT1150HS-QLBD | GT1155-QTBDQ GT1155-QTBDA | GT1155-QSBDQ GT1155-QSBDA | GT1150-QLBDQ GT1150-QLBDA | GT1030-LBD GT1030-LBD2 GT1030-LBDW GT1030-LBDW2 | GT1020-LBD GT1020-LBD2 GT1020-LBDW GT1020-LBDW2 | GT1020-LBL GT1020-LBLW |
| Input power supply voltage | 24VDC (+10%, -15%), ripple voltage of 200mV or less | | | | | | | |
| Input frequency | - | | | | | | | |
| Input maximum voltage | - | | | | | | | |
| 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) | 2.2W or less (90mA/24VDC) | 1.9W or less (80mA/24VDC) | 1.1W or less (220mA/5VDC) |
| With backlight off | 4.32W or less (180mA/24VDC) | | 5.04W or less (210mA/24VDC) | | 1.7W or less (70mA/24VDC) | | 1.2W or less (50mA/24VDC) | |
| Inrush current | 15A or less (2ms, at max. load) | | 26A or less (4ms, at max. load) | | 18A or less (26.4VDC) 1ms | | 13A or less (26.4VDC) 1ms | |
| Permissible instantaneous failure time | Within 5ms | | Within 10ms | | Within 5ms | | - | |
| Noise resistance | Noise width 1μs, and noise frequency 30 to 100Hz, by noise simulator with noise voltage 1000Vp-p | | Noise width 1μs, and noise frequency 25 to 60Hz, by noise simulator with noise voltage 500Vp-p | | Noise width 1μs, and noise frequency 30 to 100Hz, by noise simulator with noise voltage 1000Vp-p | | - | |
| Withstand voltage | 500VAC for 1 minute between power supply terminal and ground for 1 minute | | | | | | | |
| 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 *1 | | | | 0.14 to 1.0mm ² (twisted wire), 0.14 to 1.5mm ² (solid wire) | | | |
| Clamp terminal | Clamp terminals for M3 screw RAV1.25-3, V2-N3A, FV2-N3A ^{*1} | | | | AI2.5-6BU, AI0.34-6TQ and 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] | | | |
| Grounding | - | | | | Class D grounding (100Ω or less) When the unit cannot be grounded, ground it to the panel. | | | |

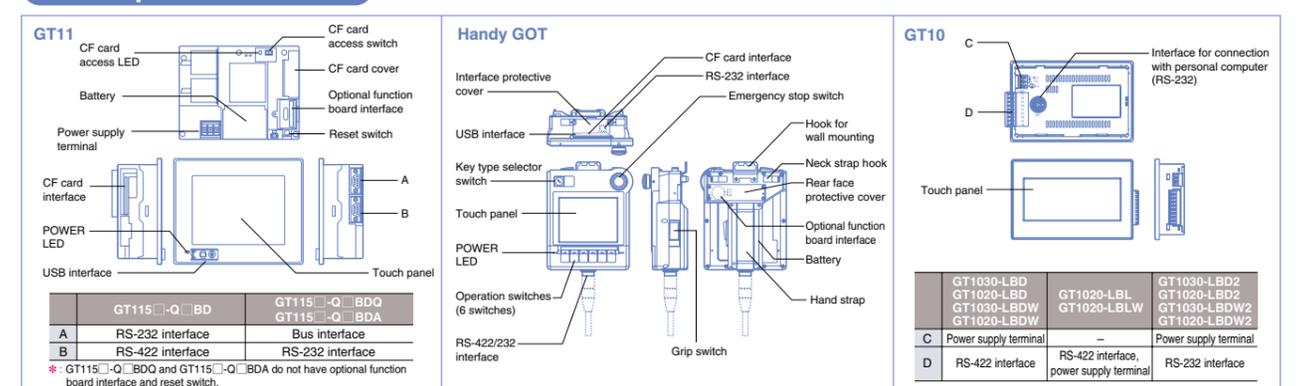
*: Excluding GT115□□HS

Performance specifications

| Item | Specification | | | | | | | | |
|------------------------|--|--|--|--|--|--|--|--|--|
| | GT1030-LBD | GT1030-LBDW | GT1030-LBD2 | GT1030-LBDW2 | GT1020-LBD GT1020-LBL | GT1020-LBDW GT1020-LBLW | GT1020-LBD2 | GT1020-LBDW2 | |
| Display | Type | STN monochrome (black and white) LCD | | | | | | | |
| | Screen size | 4.5" | | | | 3.7" | | | |
| | Resolution | 288 × 96 [dots] | | | | 160 × 64 [dots] | | | |
| | Display size | 109.42(W) × 35.98(H) [mm] | | | | 86.4(W) × 34.5(H) [mm] | | | |
| | Number of displayed characters | 16-dot standard font: 36 chars. × 6 lines (1-byte) or 18 chars. × 6 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 display mode) | | | |
| | Display colors | Monochrome (black and white) | | | | | | | |
| | View angle | Right/left: 30°, Up: 20°, Down: 30° (in horizontal display mode) | | | | | | | |
| | Contrast adjustment | 16-step adjustment | | | | | | | |
| | Intensity | 200 [cd/m ²] (in green) | 300 [cd/m ²] (in white) | 200 [cd/m ²] (in green) | 300 [cd/m ²] (in white) | 200 [cd/m ²] (in green) | 300 [cd/m ²] (in white) | 200 [cd/m ²] (in green) | 300 [cd/m ²] (in white) |
| | Life ^{*1} | Approx. 50,000 hours (Time after which display contrast reaches 20% at operating ambient temperature of 25°C) | | | | | | | |
| Backlight | Color | 3-color LED (green, orange and red) (replacement not needed) | 3-color LED (white, pink and red) (replacement not needed) | 3-color LED (green, orange and red) (replacement not needed) | 3-color LED (white, pink and red) (replacement not needed) | 3-color LED (green, orange and red) (replacement not needed) | 3-color LED (white, pink and red) (replacement not needed) | 3-color LED (green, orange and red) (replacement not needed) | 3-color LED (white, pink and red) (replacement not needed) |
| | Function | Status (on/blinking/off) control is possible. Screen save time can be set. | | | | | | | |
| Touch panel | Type | Matrix resistive type | | | | Analog resistive type | | | |
| | Number of touch keys | Max. 50 keys/screen | | | | - | | | |
| | Key size | Min. 16 × 16 [dots] (per key) | | | | Min. 2 × 2 [dots] (per key) | | | |
| Memory | User memory ^{*2} | Built-in flash ROM for saving project data (1.5 Mbytes or less), OS | | | | Built-in flash ROM for saving project data (512 Kbytes or less), OS, alarm history, recipe data | | | |
| | Life (No. of writings) | 100,000 times | | | | - | | | |
| | Life | 1,000,000 times or more (operating force 0.98N or less) | | | | | | | |
| Battery | Backed up data | GT11-50BAT type lithium battery | | | | - | | | |
| | Life | Clock data, alarm history and recipe data | | | | - | | | |
| | Life | Approx. 5 years (operating ambient temperature: 25°C) | | | | - | | | |
| Built-in interface | For communication with PLC | RS-422, 1ch, Transmission speed: 115200/57600/38400/19200/9600/4800 bps, Connector shape: Connector terminal block, 9-pin Application: Communication with PLC | | RS-232, 1ch, Transmission speed: 115200/57600/38400/19200/9600/4800 bps, Connector shape: Connector terminal block, 9-pin Application: Communication with PLC | | RS-422, 1ch, Transmission speed: 115200/57600/38400/19200/9600/4800 bps, Connector shape: Connector terminal block, 9-pin Application: Communication with PLC | | RS-232, 1ch, Transmission speed: 115200/57600/38400/19200/9600/4800 bps, Connector shape: Connector terminal block, 9-pin Application: Communication with PLC | |
| | For communication with personal computer | RS-232, 1ch, Transmission speed: 115200/57600/38400/19200/9600/4800 bps, Connector shape: Mini DIN 6-pin (female) Application: Communication with personal computer (project data upload/download, OS installation, transparent function) | | | | | | | |
| | Buzzer output | Single tone (tone length adjustable/none) | | | | | | | |
| | Protective construction ^{*4} | Conforming to IP67 (JEM1030) (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 | 0.3 [kg] (excl. fittings) | | | | 0.2 [kg] (excl. fittings) | | | | |
| Screen design software | GT Designer2 Version 2.58L or later | | | | | | | | |

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.

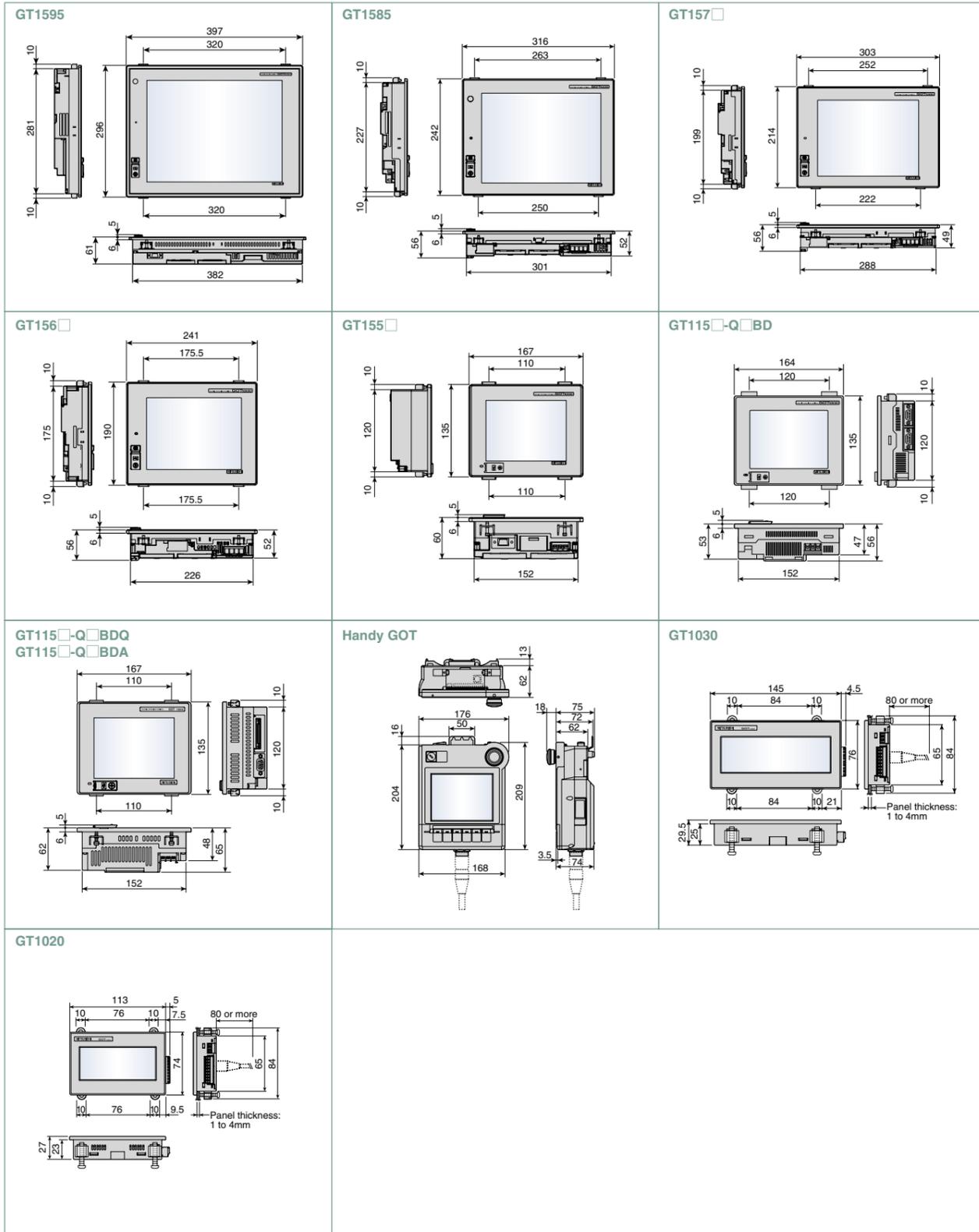
Component names



GOT main unit

External dimensions

(Unit: mm)



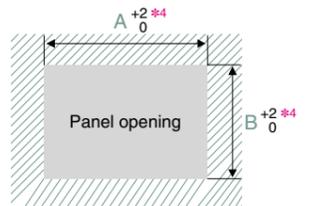
Panel cut dimensions

When GOT is installed

| Screen size | Type of GOT main unit | A | B |
|-------------|-----------------------|-------|-------|
| 15" | GT1595 | 383.5 | 282.5 |
| 12.1" | GT1585 ^{*1} | 302 | 228 |
| 10.4" | GT157 ^{*2} | 289 | 200 |
| 8.4" | GT156 ^{*3} | 227 | 176 |
| 5.7" | GT155 ^{*3} | 153 | 121 |
| 5.7" | GT115 ^{*3} | 137 | 66 |
| 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 GT10, the tolerances are +1/0.

For compatibility with GOT900 series, see "Forward compatibility" (page 59).



When 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 GOT. Place the CF card extension unit at a distance of 25mm or more from GOT. For installation locations, see the GT15 User's Manual.

Product installation interval

Keep the following distances between the GOT and structural objects and other devices.

● GT15

| Item | GT1595 | GT1585 | GT157 | GT156 | GT155 |
|--|-------------------------|---------------------------------------|---------------------------------------|-------------------------|--------------------------|
| GOT only | | | 50 or more (31 or more) | 50 or more (36 or more) | 65 or more |
| When bus connection unit is installed | 50 or more (20 or more) | | | | |
| When serial communication unit is installed | | 50 or more (20 or more) | | | |
| When RS-422 conversion unit is installed | 50 or more | 51 or more | 68 or more | 73 or more | — |
| When Ethernet communication unit is installed | | | 50 or more (20 or more) | | 50 or more (40 or more) |
| When CC-Link communication unit is installed (GT15-J61BT13) | | | | | 50 or more (32 or more) |
| When MELSECNET/H communication unit (coaxial) is installed | 50 or more (20 or more) | 50 or more (24 or more) | 50 or more (38 or more) | 50 or more | 72 or more |
| A When MELSECNET/H communication unit (optical) is installed | | | 50 or more (20 or more) ^{*1} | | |
| When printer unit is installed | 50 or more (20 or more) | | 50 or more (31 or more) | 50 or more (36 or more) | 50 or more |
| When video input unit is installed | — | 50 or more (20 or more) ^{*2} | | | |
| RGB input unit | | | | | |
| Video/RGB input unit | — | 50 or more (20 or more) ^{*3} | | | |
| RGB output unit | | | | | |
| CF card extension unit | 50 or more (20 or more) | | 50 or more (31 or more) | 50 or more (36 or more) | 65 or more |
| External input/output unit | | | | | |
| Audio output unit | | | | | |
| B | | | 80 or more (20 or more) | | |
| C (When CF card is not used) | | | 50 or more (20 or more) | | |
| D (When CF card is used) | | | 50 or more (20 or more) | | 100 or more |
| E | | | 50 or more (20 or more) | | 100 or more (20 or more) |

^{*1}: The distance varies depending on the cable to be used. For details, consult the closest Mitsubishi Electric System & Service office. The values in the table are given for your reference.
^{*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.

● 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 the dimension A (dimension D for GT10) shown above may be required.

● GT11

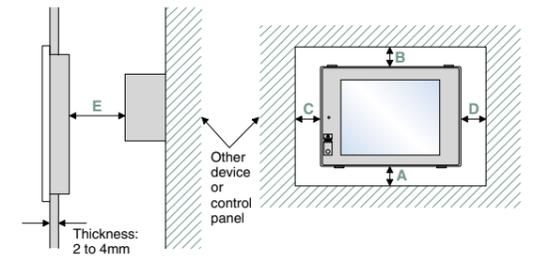
| GOT main unit | A, D | B | C | E |
|---------------|-------------------------|--------------------------|--------------------------|--------------------------|
| GT1155 | 50 or more (20 or more) | 80 or more ^{*1} | 50 or more ^{*2} | 100 or more (20 or more) |
| GT1150 | | | | |

^{*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

| GOT main unit | A | B | C | D | E |
|---------------|---------------------------------------|-------------------------|-------------------------|------------|---------------------------------------|
| GT1030 | 50 or more (20 or more) ^{*1} | 50 or more (20 or more) | 50 or more (20 or more) | 50 or more | 50 or more (20 or more) ^{*2} |
| GT1020 | | | | | |

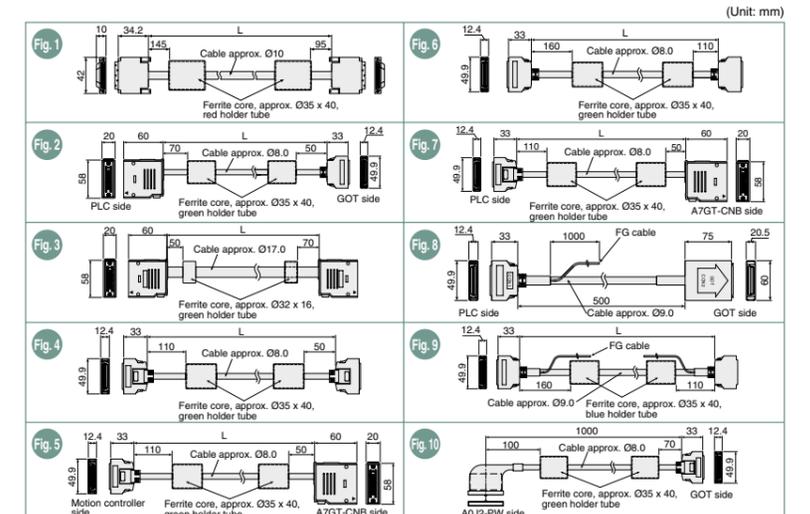
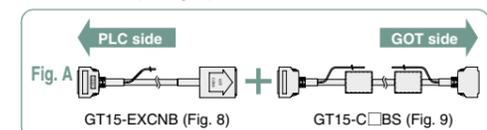
^{*1}: 50 or more when an RS-232/USB conversion adapter is used
^{*2}: 80 or more when a personal computer connection cable is used or when a personal computer RS-232 interface is used for connecting multiple GOTs
 50 or more when an RS-232 interface is used for using an RS-232/USB conversion adapter



Bus connection cables

| Cable model name | Cable length | 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 and 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.)



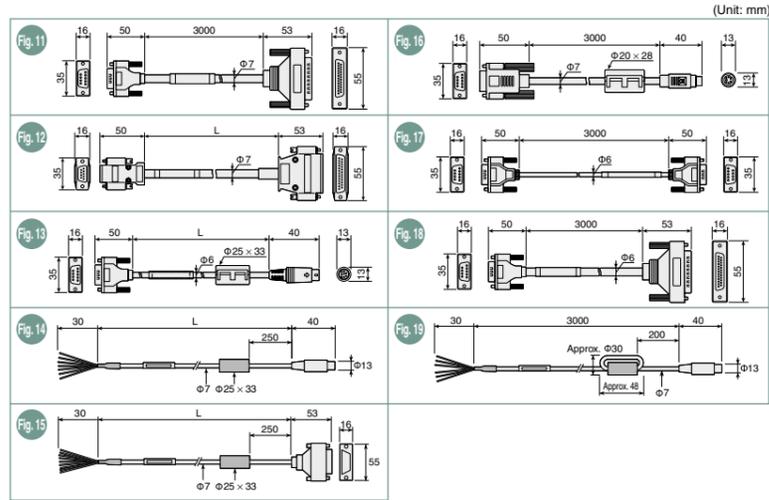
(Unit: mm)

RS-422 cables

| Cable model name | Cable length | External dimensions |
|------------------|-------------------|---------------------|
| GT01-C30R4-25P | 3m | Fig. 11 |
| GT01-C□R4-25P | 10, 20, 30m | Fig. 12 |
| GT01-C□R4-8P | 1, 3, 10, 20, 30m | Fig. 13 |
| GT10-C□R4-8P | 1, 3, 10, 20, 30m | Fig. 14 |
| GT10-C□R4-25P | 3, 10, 20, 30m | Fig. 15 |

RS-232 cables

| Cable model name | Cable length | External dimensions |
|------------------|--------------|---------------------|
| GT01-C30R2-6P | 3m | Fig. 16 |
| GT01-C30R2-9S | 3m | Fig. 17 |
| GT01-C30R2-25P | 3m | Fig. 18 |
| GT10-C30R2-6P | 3m | Fig. 19 |



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. 20 |
| | Standard model of bus connection unit for QnA/ACPU/motion controller CPU (A Series) | 2ch GT15-QBUS2 Fig. 20 |
| | Thin model of bus connection unit for QnA/ACPU/motion controller CPU (A Series) | 1ch GT15-ABUS Fig. 21 |
| | Thin model of bus connection unit for QnA/ACPU/motion controller CPU (A Series) | 2ch GT15-ABUS2 Fig. 21 |
| | Thin model of bus connection unit for QnA/ACPU/motion controller CPU (A Series) | 1ch GT15-75QBUSL Fig. 22 |
| | Thin model of bus connection unit for QnA/ACPU/motion controller CPU (A Series) | 2ch GT15-75QBUS2L Fig. 22 |
| Serial communication unit | RS-232 serial communication unit (D-sub 9-pin (male)) | GT15-RS2-9P Fig. 23 |
| | RS-422/485 serial communication unit (D-sub 9-pin (female)) | GT15-RS4-9S Fig. 23 |
| | RS-422/485 serial communication unit (terminal block) | GT15-RS4-TE Fig. 24 |
| | RS-422 RS-232→RS-422 conversion unit (9-pin) | GT15-RS2T4-9P Fig. 25 |
| convention unit | RS-232→RS-422 conversion unit (25-pin) | GT15-RS2T4-25P Fig. 25 |
| Bus extension connector box | A9GT-QCNCB Fig. 26 | |
| Bus connector conversion box | A7GT-CNCB Fig. 27 | |
| MELSECNET/H communication unit | Optical loop unit GT15-J71LP23-25 Fig. 28 | |
| | Coaxial bus unit GT15-J71BR13 Fig. 29 | |
| CC-Link communication unit | Intelligent device station unit GT15-J61BT13 Fig. 30 | |
| Ethernet communication unit | GT15-J71E71-100 Fig. 31 | |

Optional units

| Product name | Model name | External dimensions |
|------------------------------------|--------------------------|---------------------|
| Printer unit | GT15-PRN Fig. 32 | |
| Video input unit | GT15V-75V4 Fig. 33 | |
| RGB input unit | GT15V-75R1 Fig. 33 | |
| Video/RGB input unit | GT15V-75V4R1 Fig. 33 | |
| RGB output unit | GT15V-75ROUT Fig. 33 | |
| CF card unit | GT15-CFCD Fig. 34 | |
| CF card extension unit | GT15-CFEX-C08SET Fig. 35 | |
| Audio output unit | GT15-SOUT Fig. 36 | |
| External input/output unit | GT15-DIO Fig. 37 | |
| Handy GOT connector conversion box | GT11H-CNB-37S Fig. 38 | |

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

*2: Dimensions A to E for each communication unit

| Model name | A | B | C | D | E |
|------------|-----|-----|----|------|------|
| GT15-QBUS | 2.3 | 0.5 | 12 | 31.5 | - |
| GT15-QBUS2 | 2.5 | 3.0 | 11 | 29 | 33.5 |
| GT15-ABUS | 4.5 | 0.8 | 15 | 29.5 | - |
| GT15-ABUS2 | 4.5 | 3.0 | 11 | 31 | 31 |

*3: Dimension X when GOT is installed

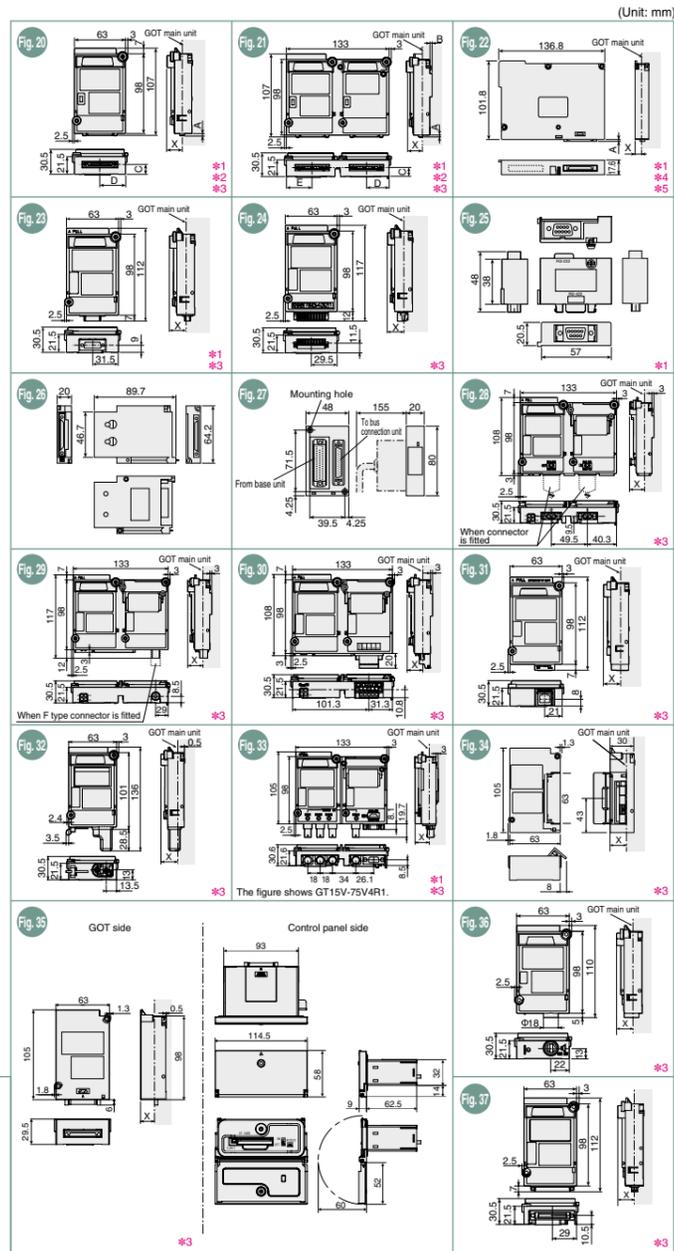
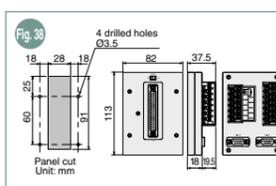
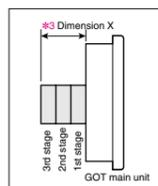
| | 1st | 2nd | 3rd |
|---------------|-----|------|------|
| 15" and 10.4" | 21 | 42.5 | 64.5 |
| 12.1" | 18 | 39.5 | 61.5 |
| 8.4" and 5.7" | 23 | 44.5 | 66.5 |

*4: Dimension A for each communication unit

| Model name | A |
|---------------|-----|
| GT15-75QBUSL | 2.3 |
| GT15-75QBUS2L | 2.3 |
| GT15-75ABUSL | 3.9 |
| GT15-75ABUS2L | 3.9 |

*5: Dimension X when GOT is installed

| | 15" and 10.4" | 12.1" | 8.4" and 5.7" |
|--|---------------|-------|---------------|
| | 8 | 5 | 10 |



CF card & optional function board selection <GT15/GT11>

When using the GT15

When using optional functions & extended functions

To use the optional functions marked with *3 shown in Table A, the GT15-QFNB(□M) or GT15-MESB48M must be mounted.

To use the optional functions marked with *6 shown in Table A, the GT15-MESB48M must be mounted.

Since the following GOT model has a built-in optional function board (GT15-FNB), it is unnecessary to mount an optional function board to use the optional functions other than *3 and *6.

●GT15: Version D or later*

* To activate the built-in optional function board, install the standard monitor OS of the GT Designer2 Version 2.58L or later.

Note that installation of the OS for some functions will decrease the free space in the user area.

Check the user area size necessary for the optional function OS and extended function OS in Table A. If the free space in the user area is insufficient, select an optional function board with expansion memory (GT15-QFNB□M or GT15-MESB48M).

Selection according to required space in user area

If the total amount of data to be stored in the user area exceeds the standard memory capacity*1, mount a CF card and an optional function board with expansion memory (GT15-QFNB□M or GT15-MESB48M).

Selecting a CF card

Select a CF card with a larger capacity than the total amount of data to be stored in the user area.*2

Selecting optional function boards with expansion memory

Select an optional function board with expansion memory with a larger capacity than [total amount of data to be stored in the user area] - [standard memory capacity].*2

The following data are stored in the user area. For more details on the data amount, see the GT Designer2 Version2 Basic Operation /Data Transfer Manual.

- Project data
- Extended function OS
- Optional function OS
- Special data
- 2nd and subsequent communication drivers
- Buffering data

(Ensure that the total amount of the extended function OS, optional function OS, special data and 2nd and subsequent communication drivers is less than the standard memory capacity.)

The CF card can be used for the following GT15 functions.

- Data transfer (usable also on GT11)
- Advanced recipe
- Historical trend graph
- Parts movement
- Advanced alarm
- Recipe (usable also on GT11)
- Parts display
- Hardcopy
- Alarm history (usable also on GT11)
- Logging
- Report*
- Memory expansion*
- Operation log*
- Document display*
- Backup/restoration*
- Ladder monitor

A CF card is always required to use the functions marked with asterisk (*).

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
- GT115□HS-Q□BD: Version B or later
- GT115□-Q□BD: Version C or later

Backward compatibility

Project data

GT Designer → GT Designer2 compatibility *

Project data created in GT Designer can be used in GT Designer2.

GOT900 series → GOT1000 series compatibility *

Using data from the GOT-A900 series

The GOT900 series project data can be used on the GOT1000 series.

Using data from the GOT-F900 series

The GOT-F900 series project data can be used on the GOT1000 series. For the details, see the Project Data Conversion Summary (JY997D1761).

*Some data and functions cannot be used on the GOT1000 series.

[Table A]

| Function | User area size to be used (KB) | | |
|--|--|--------|------|
| | GT15 | GT11 | |
| Barcode | 84 | *5 | |
| System monitor | 746 | *5 | |
| Report | 235 | None | |
| Printer | 1104 | None | |
| Operation log (device name conversion library) | 800 | None | |
| Stroke font | Stroke font support function | 400 | None |
| | Stroke basic font (Japanese) | 2160 | None |
| | Stroke basic font (Japanese) (with Hangeul) | 3175 | None |
| | Stroke basic font (Chinese, Simplified) | 1474 | None |
| | Stroke basic font (Chinese, Simplified) (with Hangeul) | 2016 | None |
| Video display | Video/RGB | 512 | None |
| RGB display | | | |
| Backup/restoration | | 820 | None |
| Operator authentication | | 784 | None |
| Audio output | | 200 | None |
| External I/O, operation panel | | 100 | None |
| Maintenance time notification function | *4 | None | |
| Multi-channel*3 | *4 | None | |
| Kanji region | Standard font (Chinese, Simplified) | 1280 | None |
| | Standard font (Chinese, Traditional) | 1920 | None |
| | Standard font (Japanese) | 1280 | None |
| | Stroke font (Japanese) | 1037 | None |
| | Stroke font (Chinese, Simplified) | 1248 | None |
| Stroke font (Chinese, Traditional) | 1680 | None | |
| Operation log | | 1218 | None |
| Document display*3 | | 2048 | None |
| Kana-Kanji conversion | | 1223 | None |
| Historical trend graph | | *4 | None |
| Logging | | 740 | None |
| Recipe | | 100 | *5 |
| Advanced recipe | | 1241 | None |
| Object script | | 360 | None |
| Ladder monitor | MELSEC-A ladder monitor | 523 | None |
| | MELSEC-FX ladder monitor | 592 | None |
| | MELSEC-Q/QnA ladder monitor*3 | 1082 | None |
| A list editor | MELSEC-A list editor | 1058 | *5 |
| FX list editor | MELSEC-FX list editor | 1058 | *5 |
| Intelligent unit monitor | | 384 | None |
| Network monitor | | 324 | None |
| Q motion monitor | | 607 | None |
| Servo amplifier monitor | | 524 | None |
| CNC monitor | | 588 | None |
| Gateway | Gateway (server, client) | 100 | None |
| | Gateway (mail) | 100 | None |
| | Gateway (FTP) | 64 | None |
| MES interface*6 | | 3196*6 | None |

*1: The standard memory capacity (built-in flash memory in C drive) varies depending on the model. For the details, see Specifications (page 52).
 *2: Approximate standard
 *3: GT15-FNB does not support the multi-channel function, MELSEC-Q/QnA ladder monitor function and document display function. These functions require GT15-QFNB(□M) or GT15-MESB48M.
 *4: Installation of the optional function OS is not required.
 *5: Requires installation of the optional function OS and extended function OS, but does not use the user area.
 *6: Use GT15-MESB48M for the MES interface function. 8219KB out of the expansion memory (48MB) of GT15-MESB48M will be used for operation of the MES interface function.

Cables

Bus connection cables

The bus connection cables for the GOT900 series cannot be used for the GOT1000 series. The bus connection cables for the GOT1000 series cannot be used for the GOT900 series.

RS-422 and RS-232 cables

The RS-422 and RS-232 cables for the GOT900 series cannot be used for the GOT1000 series. The RS-422 and RS-232 cables for the GOT1000 series cannot be used for the GOT900 series.

Panel cut dimensions

GOT900 series → GOT1000 series compatibility

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

To use the multi-channel function <GT15>

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 (built-in RS-232 interface).

Acceptable combinations

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

- Bus connection or network connection*1 + serial connection*2
- Serial connection only

- *1: Network connections include the following connection configurations.
- MELSECNET/H connection
 - MELSECNET/10 connection
 - CC-Link connection
 - Ethernet connection
- *2: Serial connections include the following connection configurations.
- CPU direct connection
 - Computer link connection
 - CC-Link connection (via G4)
 - Microcomputer connection
 - Third party PLC connection
 - Temperature controller connection
 - Inverter connection
 - Servo amplifier connection
 - CNC connection (CPU direct connection)

Maximum number of connectable channels, mountable units and mounting stages

- Number of connectable channels
The number of connectable channels varies depending on the GOT model. See the following table.
- Number of mountable units and mounting stages
When the multi-channel function is used, add interfaces on the GOT side by any of the following methods.
 - Stack communication units on the extension unit interface.
 - Mount a communication unit on the extension unit interface to use the unit in combination with the standard interface (built-in RS-232 interface). The number of mountable units and mounting stages vary depending on the GOT model. See the following table.

*: The performance of GOT may be affected depending on the configuration of connected devices.

| | GT1595/GT1585 GT157□/GT156□ | GT155□ | Description |
|-----|--------------------------------|-----------------------------|----------------------------|
| (1) | Number of connectable channels | Up to 4 channels | Up to 2 channels |
| | Number of mountable units | Up to 5 units | Up to 3 units |
| (2) | Number of mounting stages | Up to 3 stages (2 slots) | Up to 3 stages (1 slot) |

- *3: Ethernet download function, gateway function and MES interface function
 *4: Barcode function, FA transparent function, OS installation and project data download
 *5: GT15-RS2-9P, GT15-RS4-9S and GT15-RS4-TE
 *6: GT15-QBUS2, GT15-ABUS2, GT15-J71LP23-25, GT15-J71BR13, GT15-J61BT13
 *7: GT15V-75V4, GT15V-75R1, GT15V-75V4R1, GT15V-75ROUT
 *8: GT15-75QBUSL, GT15-75QBUS2L, GT15-75ABUSL, GT15-75ABUS2L, GT15-75J71LP23-Z, GT15-75J71BR13-Z, GT15-75J61BT13-Z

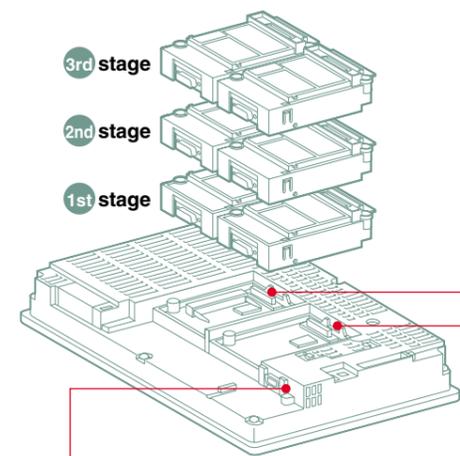
Communication driver

A communication driver must be installed for each of the connection configuration. Communication drivers for the second and subsequent channels will be installed in the user area.

Optional function board

To use the multi-channel function, an optional function board with expansion memory is necessary. Use the optional function board GT15-QFNB(□M) or GT15-MESB48M. GT15-FNB cannot be used.

Mounting units on the GOT side interface <GT15>



Extension unit interface 1

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

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

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

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 (GT155□ must not 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 the extension interface 1 (left), ensure that the number of extension units mounted on the 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.

Calculation of current consumed by units <GT15>

When using multiple units and a barcode reader, the total current consumed by the units and barcode reader must be less than the current that can be supplied by 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) |
|---------------------------|-----------------------------|
| GT1595 | 2.13 |
| GT1585 (incl. GT1585V) | 1.74 |
| GT157□ (incl. GT1575V) | 2.2 |
| GT156□ | 2.2 |
| GT155□ | 1.3 |

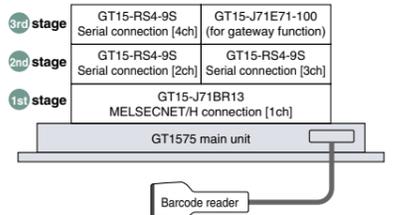
(2) Current used by each unit and barcode reader

| 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-J71LP23-25 | 0.56 |
| GT15-J71BR13 | 0.77 |
| GT15-J61BT13 | 0.56 |
| Barcode reader | *2 |
| GT15-PRN | 0.09 |
| GT15V-75V4R1, GT15V-75V4, GT15V-75R1 | 0.2 *1 |
| GT15V-75ROUT | 0.11 |
| GT15-CFCD | 0.07 |
| GT15-CFEX-C08SET | 0.15 |
| GT15-SOUT | 0.08 |
| GT15-DIO | 0.1 |

- *1: The current consumed by a single unit is as follows. However, calculation of current in terms of multi-channel function, use the above value.
- GT15-QBUS, GT15-QBUS2, GT15-75QBUSL, GT15-75QBUS2L: 0.44A
 - GT15V-75V4R1: 0.95A
 - GT15V-75V4: 0.7A
 - GT15V-75R1: 0.91A
- *2: When using a barcode reader to which the power is supplied from the standard interface, add the current to be used by the barcode reader at 5VDC. (Maximum less than 0.3A)

(3) Calculation example

When GT15-J71BR13, GT-RS4-9S (3 units), GT15-J71E71-100 (for gateway function) and a barcode reader (consuming 0.12A) are connected to GT1575



| Current supply capacity of GOT (A) | Total current to be consumed (A) |
|------------------------------------|--------------------------------------|
| 2.2 | 0.77+0.33+0.33+0.33+0.224+0.12=2.104 |

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

GT Designer2 (English version) operating environment

| Item | Description |
|----------------------|---|
| Personal computer | PC/AT compatible machine on which Windows® operates |
| OS | Microsoft® Windows®98 Operating System(English, Chinese, Korean, German versions) Microsoft® Windows® Millennium Edition Operating System(English, Chinese, Korean, German versions) Microsoft® WindowsNT® Workstation 4.0 Operating System(English, Chinese, Korean, German versions)*2 Microsoft® Windows® 2000 Professional Operating System(English, Chinese, Korean, German versions)*2 |
| CPU | Pentium® 200MHz or higher |
| Required memory | 64MB or more |
| Free hard disk space | For installation: 500MB or more For operation: 100MB or more |
| Disk drive | CD-ROM disk drive |
| Display colors | High color (16 bits) or more |
| Display*3 | Resolution 800 × 600 dots or more |
| Other | Internet Explorer version 5.0 or later must be installed. Mouse, keyboard, printer and CD-ROM drive that can be used on the above OS |

- *1: The following function are not supported: Compatible Mode, Fast User Switching, Desktop Theme (Font) Change, Remote Desktop.
 *2: Administrator authority is required to install GT Designer2 on the following systems: Windows NT® Workstation 4.0, Windows® 2000 Professional, Windows® XP Professional, Windows® XP Home Edition; Administrator authority is required to operate GT Designer2 on Windows® XP Professional and Windows® XP Home Edition.
 *3: To use the MES interface function, the display must have a resolution of 1024 × 768 dots or more.

GT Simulator2 (English version) operating environment

| Item | Description |
|------------------------|--|
| Personal computer | PC/AT compatible machine on which Windows® operates |
| OS | Microsoft® Windows®98 Operating System(English, Chinese, Korean, German versions) Microsoft® Windows® Millennium Edition Operating System(English, Chinese, Korean, German versions)*3 *4 Microsoft® WindowsNT® Workstation 4.0 Operating System(English, Chinese, Korean, German versions)*2 *3 Microsoft® Windows® 2000 Professional Operating System(English, Chinese, Korean, German versions)*3 *4 |
| CPU | Pentium® 200MHz or higher |
| Required memory | 64MB or more |
| Free hard disk space*1 | For installation (product only): 250MB or more (for product operation and manual reference: 400MB or more) |
| Disk drive | CD-ROM disk drive |
| Display colors | For GT15 simulator: 65536 colors For GT11 simulator: 256 colors |
| Display | Resolution 800 × 600 dots or more (to use full-screen display function: resolution 1024 × 768 dots or more) |
| Software | GT Designer2*5 The following version of GX Simulator is required depending on the CPU to be simulated.*6 |

- *1: A separate available space is required when using GT Designer2, GX Developer and GX Simulator.
 *2: Use WindowsNT® Workstation 4.0 with Service Pack3 or later installed.
 *3: Administrator authority is required to install GT Simulator2 on the following operating systems.
 • WindowsNT® Workstation 4.0 • Windows® 2000 Professional
 • Windows® XP Professional • Windows® XP Home Edition
 Administrator authority is also required to use GT Simulator2 on the following operating systems.
 • Windows® XP Professional • Windows® XP Home Edition
 *4: The following functions are not supported.
 • Compatible Mode • Fast User Switching • Desktop Theme (Font) Change • Remote Desktop
 *5: Use GT Designer2 included in the same GT Works2 as GT Simulator2.
 *6: Use GT Simulator2, GX Developer and GX Simulator of the same language version.

Main unit model name

GT15 9 5 - X T B A

| Code | Screen size | Code | Display colors | Code | Mounting type | Code | Resolution | Code | Display device | Code | Communication interface |
|------|-------------|------|-----------------------------|------|--------------------------|------|--------------------------|------|---|--------|--|
| 9 | 15" | 5 | 256 colors or more | V | Applicable for video/RGB | X | XGA (1024 × 768 dots) | T | TFT color (high brightness, wide viewing angle) | Q*1 | With built-in bus connection interface for QCPU (Q mode)/motion controller CPU (Q series) |
| 8 | 12.1" | 2 | 16 colors | None | Panel mount type | S | SVGA (800 × 600 dots) | N | TFT color | A*1 | With built-in bus connection interface for QnA/ACPU/motion controller CPU (A series) |
| 7 | 10.4" | 0 | Monochrome (black/white) | HS | Handy type | V | VGA (640 × 480 dots) | S | STN color | 2*2 | With built-in RS-232 |
| 6 | 8.4" | | | | | Q | QVGA (320 × 240 dots) | L | STN monochrome | None*2 | With built-in RS-422 |
| 5 | 5.7" | | | | | | | | | *1 | GT115□□□BDQ and GT115□□□BDA only |
| 3 | 4.5" | | | | | | | | | *2 | GT10 only |
| 2 | 3.7" | | | | | | | | | | |

| Code | Power supply | Code | GT10 backlight |
|------|---------------|------|-----------------|
| A | 100 to 240VAC | W | White backlight |
| D | 24VDC | None | Green backlight |
| L | 5VDC | | |

* For inquiries relating to products which conform to UL, cUL, and CE 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 | | |
|---------------------------|----------------------------|-----------------------------|---|---|---|------------------|--------------------------|--------------------------|
| GT1595 | 15" XGA [1024 × 768 dots] | GT1595-XTBA | TFT color LCD (high brightness, wide viewing angle) | 65536 colors | 100-240VAC 24VDC | 9MB | | |
| | | GT1595-XTBD | TFT color LCD (high brightness, wide viewing angle) | 65536 colors | 100-240VAC 24VDC | | | |
| | GT1585 | 12.1" SVGA [800 × 600 dots] | GT1585V-STBA | TFT color LCD (high brightness, wide viewing angle) | 65536 colors | 100-240VAC 24VDC | Applicable for Video/RGB | |
| | | | GT1585V-STBD | TFT color LCD (high brightness, wide viewing angle) | 65536 colors | 100-240VAC 24VDC | | |
| | | 10.4" SVGA [800 × 600 dots] | GT1575V-STBA | TFT color LCD (high brightness, wide viewing angle) | 65536 colors | 100-240VAC 24VDC | | Applicable for Video/RGB |
| | | | GT1575V-STBD | TFT color LCD (high brightness, wide viewing angle) | 65536 colors | 100-240VAC 24VDC | | |
| | GT157□ | 10.4" VGA [640 × 480 dots] | GT1575-VTBA | TFT color LCD (high brightness, wide viewing angle) | 65536 colors | 100-240VAC 24VDC | 9MB | |
| | | | GT1575-VTBD | TFT color LCD (high brightness, wide viewing angle) | 65536 colors | 100-240VAC 24VDC | | |
| | | | GT1575-VNBA | TFT color LCD | 256 colors | 100-240VAC 24VDC | | 5MB |
| | | | GT1575-VNBD | TFT color LCD | 16 colors | 100-240VAC 24VDC | | |
| | | GT156□ | 8.4" VGA [640 × 480 dots] | GT1565-VTBA | TFT color LCD (high brightness, wide viewing angle) | 65536 colors | 100-240VAC 24VDC | 9MB |
| | | | | GT1565-VTBD | TFT color LCD (high brightness, wide viewing angle) | 65536 colors | 100-240VAC 24VDC | |
| 5.7" VGA [640 × 480 dots] | | | GT1555-VTBD | TFT color LCD (high brightness, wide viewing angle) | 65536 colors | 24VDC | 9MB | |
| | | | GT1555-VTBD | TFT color LCD (high brightness, wide viewing angle) | 65536 colors | 24VDC | | |
| GT115 | 5.7" QVGA [320 × 240 dots] | GT1555-QTBD | STN color LCD | 4096 colors | 24VDC | 3MB | | |
| | | GT1555-QSBD | STN color LCD | 4096 colors | 24VDC | | | |
| | | GT1555-QTBDQ | STN monochrome LCD | Monochrome (black/white) 16 gray scales | 24VDC | | | |
| | | GT1555-QSBDQ | STN monochrome LCD | Monochrome (black/white) 16 gray scales | 24VDC | | | |
| | GT1150 | 5.7" QVGA [320 × 240 dots] | GT1150-QLBD | STN monochrome LCD | Monochrome (black/white) 16 gray scales | 24VDC | 3MB | |
| | | | GT1150-QLBDQ | STN monochrome LCD | Monochrome (black/white) 16 gray scales | 24VDC | | |
| | | Handy GOT | GT1150HS-QSBD | STN color LCD | 256 colors | 24VDC | | 3MB |
| | | | GT1150HS-QLBD | STN monochrome LCD | Monochrome (black/white) 16 gray scales | 24VDC | | |
| | GT1030 | 4.5" [288 × 96 dots] | GT1030-LBD | STN monochrome LCD | Monochrome (black/white) | 24VDC | 1.5MB | |
| | | | GT1030-LBD2 | STN monochrome LCD | Monochrome (black/white) | 24VDC | | |
| | | | GT1030-LBDW | STN monochrome LCD | Monochrome (black/white) | 24VDC | | |
| | | | GT1030-LBDW2 | STN monochrome LCD | Monochrome (black/white) | 24VDC | | |
| GT1020 | | 3.7" [160 × 64 dots] | GT1020-LBD | STN monochrome LCD | Monochrome (black/white) | 5VDC | 512KB | |
| | | | GT1020-LBD2 | STN monochrome LCD | Monochrome (black/white) | 5VDC | | |
| | | Handy GOT | GT1020-LBL | STN monochrome LCD | Monochrome (black/white) | 5VDC | | 512KB |
| | | | GT1020-LBLW | STN monochrome LCD | Monochrome (black/white) | 5VDC | | |

Communication interface

| Product name | Model name | Specifications | Applicable model | | | |
|--------------------------------|-----------------|---|------------------|------|-----------|------|
| | | | GT15 | 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. | ○ | — | — | — |
| RS-422 conversion unit | GT15-RS2T4-9P | RS-232→RS-422 conversion unit | ○ | — | — | — |
| | GT15-RS2T4-25P | RS-232→RS-422 conversion unit | ○ | — | — | — |
| MELSECNET/H communication unit | GT15-J71LP23-25 | Optical loop unit | ○ | — | — | — |
| | GT15-J71BR13 | Coaxial bus 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/10Base-T) unit | ○ | — | — | — |

*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 51).
 *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□.

Optional units

| Product name | Model name | Specifications | Applicable model | | | |
|----------------------------|------------------|--|------------------|------|-----------|------|
| | | | GT15 | GT11 | Handy GOT | GT10 |
| Printer unit | GT15-PRN | USB slave (PictBridge) for printer connection, 1ch *Cable for printer connection (3m) included | ○ | — | — | — |
| Video input unit | GT15V-75V4 | For NTSC/PAL input, 4ch | ○ | — | — | — |
| RGB input unit | GT15V-75R1 | For analog RGB input, 1ch | ○ | — | — | — |
| Video/RGB input unit | GT15V-75V4R1 | For NTSC/PAL (4ch) and analog RGB (1ch) composite input | ○ | — | — | — |
| RGB output unit | GT15V-75ROUT | For analog RGB output | ○ | — | — | — |
| 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*6 | ○ | — | — | — |
| Sound output unit | GT15-SOUT | For sound output | ○ | — | — | — |
| External input/output unit | GT15-DIO | For external input/output | ○ | — | — | — |

*5: Only GT1585V and GT1575V are applicable.
 *6: Includes unit to be installed on the control panel, unit to be installed on the GOT, and connection cable (0.8m).

Software

| Product name | Model name | Included products | | | | Remarks |
|----------------------------------|----------------------------------|---|---|---|--|-----------------|
| | | Screen design software GT Designer2 Ver.2 | Simulation software GT Simulator2 Ver.2 | Simple data conversion function GT Converter2 Ver.2 | SoftGOT function *7 GT SoftGOT1000 Ver.2 | |
| GT Designer2 Version2 | SW2D5C-GTD2-E (Version upgrade) | ○ | — | ○ | ○ | English version |
| GT Works2 Version2 | SW2D5C-GTWK2-E (Version upgrade) | ○ | ○ | ○ | ○ | English version |
| License key for GT SoftGOT1000*7 | GT15-SGTKEY-U | ○ | ○ | ○ | ○ | English version |
| | GT15-SGTKEY-P | ○ | ○ | ○ | ○ | English version |

*7: To use GT SoftGOT1000, a license key for GT SoftGOT1000 is necessary for each personal computer.

Options

| Product name | Model name | Specifications | Applicable model | | | |
|--------------------------------------|----------------|---|------------------|------|-----------|------|
| | | | GT15 | GT11 | Handy GOT | GT10 |
| Backlight | GT15-90XLTT | For GT1595-XTB | ○ | — | — | — |
| | GT15-80SLTT | For GT1585V-STB / GT1585-STB | ○ | — | — | — |
| | GT15-70SLTT | For GT1575-STB *1 | ○ | — | — | — |
| | GT15-70VLT | For GT1575V-STB / GT1575-VTB / GT1575-STB *2 | ○ | — | — | — |
| | GT15-70VLTN | For GT1575-VNB / GT1572-VNB | ○ | — | — | — |
| | GT15-60VLT | For GT1565-VTB | ○ | — | — | — |
| | GT15-60VLTN | For GT1562-VNB | ○ | — | — | — |
| Optional function board | 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 | ○ | — | — | — |
| Protective sheet | GT15-90PSCB | Protective sheet for 15" screen | ○ | — | — | — |
| | GT15-90PSGB | Antiglare, 5 sheets | ○ | — | — | — |
| | GT15-90PSCW | Clear (frame: white), 5 sheets | ○ | — | — | — |
| Protective sheet | GT15-80PSCB | Protective sheet for 12.1" screen | ○ | — | — | — |
| | GT15-80PSGB | Antiglare, 5 sheets | ○ | — | — | — |
| | GT15-80PSCW | Clear (frame: white), 5 sheets | ○ | — | — | — |
| Protective sheet | GT15-70PSCB | Protective sheet for 10.4" screen | ○ | — | — | — |
| | GT15-70PSGB | Antiglare, 5 sheets | ○ | — | — | — |
| | GT15-70PSCW | Clear (frame: white), 5 sheets | ○ | — | — | — |
| Protective sheet | GT15-60PSCB | Protective sheet for 8.4" screen | ○ | — | — | — |
| | GT15-60PSGB | Antiglare, 5 sheets | ○ | — | — | — |
| | GT15-60PSCW | Clear (frame: white), 5 sheets | ○ | — | — | — |
| Protective sheet | GT15-50PSCB | Protective sheet for 5.7" screen (for GT15) | ○ | — | — | — |
| | GT15-50PSGB | Antiglare, 5 sheets | ○ | — | — | — |
| | GT15-50PSCW | Clear (frame: white), 5 sheets | ○ | — | — | — |
| Protective sheet | GT11-50PSCB | Protective sheet for 5.7" screen (for GT11) | ○ | ○ | — | — |
| | GT11-50PSGB | Antiglare, 5 sheets | ○ | ○ | — | — |
| | GT11-50PSCW | Clear (frame: white), 5 sheets | ○ | ○ | — | — |
| Protective sheet | GT11H-50PSC | Protective sheet for 5.7" screen (for Handy GOT) | ○ | ○ | — | — |
| | GT10-30PSCB | Protective sheet for 4.5" screen (for GT1030) | ○ | — | — | — |
| | GT10-30PSGB | Antiglare, 5 sheets | ○ | — | — | — |
| Protective sheet | GT10-20PSCB | Protective sheet for 3.7" screen (for GT1020) | ○ | — | — | — |
| | GT10-20PSGB | Antiglare, 5 sheets | ○ | — | — | — |
| | GT10-20PSCW | Clear (frame: white), 5 sheets | ○ | — | — | — |
| USB environmentally-protective cover | GT15-UCOV | Environmentally-protective cover for USB interface on main unit front panel (for replacement) | ○ | ○ | — | — |
| | GT11-50UCOV | For 15", 12.1", 10.4" and 8.4" | ○ | ○ | — | — |
| Protective cover for oil *5 | GT05-90PCO | Protective cover for oil for 15" screen | ○ | — | — | — |
| | GT05-80PCO | Protective cover for oil for 12.1" screen | ○ | — | — | — |
| | GT05-70PCO | Protective cover for oil for 10.4" screen | ○ | — | — | — |
| | GT05-60PCO | Protective cover for oil for 8.4" screen | ○ | — | — | — |
| | GT05-50PCO | Protective cover for oil for 5.7" screen | ○ | — | — | — |
| Emergency stop switch guard | GT11H-50ESCOV | For mis-operation prevention of emergency stop switch | ○ | — | ○ | — |
| 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-32MC | 32MB flash ROM | ○ | ○ | ○ | — |
| | GT05-MEM-64MC | 64MB flash ROM | ○ | ○ | ○ | — |
| | GT05-MEM-128MC | 128MB flash ROM | ○ | ○ | ○ | — |
| | GT05-MEM-256MC | 256MB flash ROM | ○ | ○ | ○ | — |
| Memory card adapter | GT05-MEM-ADPC | CF card → memory card (TYPE II) conversion adapter | ○ | ○ | ○ | — |
| | GT15-70ATT-98 | Attachment for 10.4" type | ○ | — | — | — |
| Attachment | GT15-60ATT-87 | Attachment for 8.4" type | ○ | — | — | — |
| | GT15-60ATT-97 | Attachment for 8.4" type | ○ | — | — | — |
| | GT15-60ATT-96 | Attachment for 8.4" type | ○ | — | — | — |
| | GT15-60ATT-87 | Attachment for 8.4" type | ○ | — | — | — |
| | GT15-60ATT-77 | Attachment for 8.4" type | ○ | — | — | — |
| | GT15-50ATT-95W | Attachment for 5.7" type | ○ | ○ | — | — |
| Battery | GT15-50ATT-85 | Attachment for 5.7" type | ○ | ○ | — | — |
| | GT15-BAT | Battery for backup of clock data and maintenance time notification data | ○ | — | — | — |
| | GT11-50BAT | Battery for backup of clock data, alarm history and recipe data (for replacement) | ○ | ○ | ○ | ○ *4 |

*1: Function version B or earlier
 *2: Function version C or later
 *3: Excluding GT115-Q□BDQ and GT115□□BDA
 *4: GT1030 only
 *5: Check if the oil resistant cover can be used in an actual use environment before use.
 When using the oil resistant cover, the front USB interface and human sensor cannot be used.
 *6: Including the GP250□ and GP260□ manufactured by Pro-face.

Manuals

| Manual title | Contents | Catalog No. |
|--|--|--------------|
| GT Designer2 Version2 Basic Operation/Data Transfer Manual <for GOT1000 Series> | Basic software installation, basic screen design techniques, and data transfer to a terminal | SH-080529ENG |
| GT Designer2 Version2 Screen Design Manual <for GOT1000 Series> | Programming manual, including instruction for objects, specifications | SH-080530ENG |
| GOT1000 Series Connection Manual | System configurations and procedure to create customized cables | SH-080532ENG |
| GOT1000 Series Extended Function/Optional Functions Manual | Information on extended functions and optional functions available to GOT | SH-080544ENG |
| GOT1000 Series Gateway Function Manual | Specifications, system configurations and setting procedures for Gateway function | SH-080545ENG |
| GOT1000 Series MES Interface Function Manual | Specifications, system configurations and setting procedures for MES interface function | SH-080654ENG |
| GT15 User's Manual | GT15 general specification overview, parts and settings, external dimensions, mounting, wiring, optional interfaces | SH-080528ENG |
| GT11 User's Manual | GT11 general specification overview, parts and settings, external dimensions, mounting, wiring, optional interfaces | JY997D17501A |
| Handy GOT User's Manual | Handy GOT general specification overview, parts and settings, external dimensions, wiring, optional interfaces, in addition to explanations of utility, system configurations, and cable fabrication | JY997D20101A |
| GT10 User's Manual | GT10 general specification overview, parts and settings, external dimensions, mounting, wiring, optional interfaces | JY997D24701 |
| GT SoftGOT1000 Version2 Operation Manual | GT SoftGOT1000 screen configuration, functions and operating procedures | SH-080602ENG |
| GT Simulator2 Version2 Operation Manual | GT Simulator2 specifications and operating instructions | SH-080546ENG |
| GT Converter2 Version2 Operation Manual | GT Converter2 operating instructions | SH-080533ENG |

Cables

| Product name | Model name | Cable length | Third party products *1 | Application | Applicable model *2 | | | | | | |
|---|--|-----------------|-------------------------|---|--|------|--|------|---|---|---|
| | | | | | GT15 | 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 | ○ | ○ | — | — | | | |
| 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 | | | ○ | ○ | — | — | | | |
| | GT15-AC12B | 1.2m | | | ○ | ○ | — | — | | | |
| | GT15-AC30B | 3m | | | ○ | ○ | — | — | | | |
| | GT15-AC50B | 5m | | | ○ | ○ | — | — | | | |
| | GT15-A370C12B-S1 | 1.2m | | | ○ | ○ | — | — | | | |
| | GT15-A370C25B-S1 | 2.5m | | | ○ | ○ | — | — | | | |
| | GT15-A370C12B | 1.2m | | | ○ | ○ | — | — | | | |
| Small CPU extension cable | GT15-A1SC07B | 0.7m | ○ | For connection between QnA/AnSCPU/motion controller CPU (A series) and GOT | ○ | ○ | — | — | | | |
| | GT15-A1SC12B | 1.2m | | | ○ | ○ | — | — | | | |
| | GT15-A1SC30B | 3m | | | ○ | ○ | — | — | | | |
| | GT15-A1SC50B | 5m | | | ○ | ○ | — | — | | | |
| | GT15-A1SC05NB | 0.45m | | | ○ | ○ | — | — | | | |
| | GT15-A1SC07NB | 0.7m | | | ○ | ○ | — | — | | | |
| | GT15-A1SC30NB | 3m | | | ○ | ○ | — | — | | | |
| | GT15-A1SC50NB | 5m | | | ○ | ○ | — | — | | | |
| | Small CPU long-distance connection cable | GT15-C100EXSS-1 | | | 10.6m | ○ | For long-distance (13.2m or more) connection between QnA/AnSCPU/motion controller CPU (A series) and GOT For long-distance (13.2m or more) 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 | | | ○ | ○ | — | — | | | |
| | GT15-C100BS | 10m | | | ○ | ○ | — | — | | | |
| GOT-to-GOT long-distance connection cable | GT15-C200BS | 20m | ○ | For connection between GOT and GOT | ○ | ○ | — | — | | | |
| | GT15-C300BS | 30m | | | ○ | ○ | — | — | | | |
| AQJ2HCPU connection cable | GT15-J2C10B | 1m | ○ | For connection between power supply unit (AQJ2-PW) for AQJ2HCPU and GOT | ○ | ○ | — | — | | | |
| Bus connector conversion box | A7GT-CNB | — | — | Used for QnA/ACPU long-distance (13.2m or more) bus connection | ○ | ○ | — | — | | | |
| Buffer circuit cable | GT15-EXCNB | 0.5m | ○ | Usable as GT15-C□EXSS-1 in combination with GT15-C□BS | ○ | ○ | — | — | | | |
| RS-422 cable | QnA/FXCPU direct connection cable | GT01-C30R4-25P | 3m | — | For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 9-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 | ○ | ○ | — | — | | |
| | | GT01-C100R4-25P | 10m | | | ○ | ○ | — | — | | |
| | | GT01-C200R4-25P | 20m | | | ○ | ○ | — | — | | |
| | | GT01-C300R4-25P | 30m | | | ○ | ○ | — | — | | |
| | | GT10-C30R4-25P | 3m | | | ○ | ○ | — | — | | |
| | Computer link connection cable | GT10-C100R4-25P | 10m | — | For connection between QnA/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT | ○ | ○ | — | ○ | | |
| | | GT10-C200R4-25P | 20m | | | ○ | ○ | — | ○ | | |
| | | GT10-C300R4-25P | 30m | | | ○ | ○ | — | ○ | | |
| | | GT09-C30R4-6C | 3m | | | ○ | ○ | — | ○ | | |
| | | GT09-C100R4-6C | 10m | | | ○ | ○ | — | ○ | | |
| Computer link connection cable | GT09-C200R4-6C | 20m | ○ | For connection between serial communication unit and GOT For connection between computer link unit and GOT | ○ | ○ | — | — | | | |
| | GT09-C300R4-6C | 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: The cable can be used when the connector conversion box for the Handy GOT is used.

Cables

| Product name | Model name | Cable length | Third party products ^{*1} | Application | Applicable model ^{*2} | | | | | | |
|---|---|---------------------------|---|---|---|------|---|--------------------------------|---------------|----|---|
| | | | | | GT15 | GT11 | Handy GOT | GT10 | | | |
| RS-422 cable | 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 and GOT | ○ | ○ | - | - | | | |
| | | GT01-C30R4-8P | 3m | | | | | | | | |
| | | GT01-C100R4-8P | 10m | | | | | | | | |
| | | GT01-C200R4-8P | 20m | | | | | | | | |
| | | GT01-C300R4-8P | 30m | | | | | | | | |
| | | GT10-C10R4-8P | 1m | | | | | | | | |
| | | GT10-C30R4-8P | 3m | | | | | | | | |
| | | GT10-C100R4-8P | 10m | | | | | | | | |
| | | GT10-C200R4-8P NEW | 20m | | | | | | | | |
| GT10-C300R4-8P NEW | 30m | | | | | | | | | | |
| RS-232 cable | QCPU direct connection cable Data transfer cable | GT01-C30R2-6P | 3m | For connection between QCPU and GOT/personal computer (GT SoftGOT1000) (D-sub 9-pin) For connection between personal computer (screen design software) (D-sub 9-pin, female) and GOT (MINI-DIN 6-pin, female) | ○ | ○ | - | - | | | |
| | | GT10-C30R2-6P | 3m | For connection between QCPU and GOT For connection between GOT and GOT | - | - | - | ○ | | | |
| | | GT11H-C30R2-6P | 3m | For connector conversion box between QCPU and Handy GOT | - | - | ○ | - | | | |
| | 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 connector) and GOT For connection between FXCPU communication function adapter (D-sub 9-pin connector) and GOT | ○ | ○ | - | - | | | |
| FX communication function adapter connection cable, Data transfer cable | | | | | GT01-C30R2-25P | 3m | For connection between FXCPU communication function adapter (D-sub 25-pin connector) and GOT/personal computer (GT SoftGOT1000) (D-sub 9-pin connector) and GOT For connection between personal computer (screen design software) (D-sub 25-pin, male) and GOT (D-sub 9-pin, female) | ○ | ○ | - | - |
| | | | | | | | | Computer link connection cable | GT09-C30R2-9P | 3m | ○ |
| Connector conversion box for Handy GOT | GT09-C30R2-25P | 3m | For connection between serial communication unit and GOT For connection between computer link unit and GOT | ○ | ○ | - | - | | | | |
| | GT11H-CNB-37S | - | Converts D-sub 37-pin connector to terminal block and D-sub 9-pin connector | - | - | ○ | - | | | | |
| External connection cable | FA device, power supply and operation switch connection cable | GT11H-C30-37P | 3m | For connection between FA device connection relay cable and GOT | - | - | ○ | - | | | |
| | | GT11H-C60-37P | 6m | | | | | | | | |
| | | GT11H-C100-37P | 10m | | | | | | | | |
| | | GT11H-C30 | 3m | | For connection between FA device, power supply and operation switches and GOT | - | - | ○ | - | | |
| | | GT11H-C60 | 6m | | | | | | | | |
| GT11H-C100 | 10m | | | | | | | | | | |
| 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 For connection between A/QnACPU and GOT | - | - | ○ | - | | | |
| | | GT11H-C15R4-25P | 1.5m | | For connection between power supply and operation switches and GOT | - | - | ○ | - | | |
| External I/O unit connection conversion cable | 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 | - | - | ○ | - | | | |
| | | GT15-C30HTB | 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) | ○ | - | - | - | | | |
| 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.) | - | - | - | ○ | | | |
| | | GT09-C30USB-5P | 3m | For connection between personal computer and GOT For connection between QCPU (USB miniB) and personal computer (GT SoftGOT1000) For connection between printer and GOT (printer unit) | ○ | ○ | ○ | ○ | | | |

*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.

Cables for third party FA devices

| Product name | Model name | Cable length | Third party products ^{*1} | GOT connection destination | Applicable model ^{*2} | | | |
|--------------------|--|--------------------|--|--|--------------------------------|------|-----------|------|
| | | | | | GT15 | GT11 | Handy GOT | GT10 |
| RS-232 cable | Cable for OMRON PLC | GT09-C30R20101-9P | 3m | PLC CPU: CQM1/CQM1H/CS1/CJ1/CV500/CV1000/CV2000/CVM1 Serial communication unit: CS1W-SCU21/CJ1W-SCU41 Communication board: C200HW-COM2/COM05/COM06 Serial communication board: CQM1-SCB41/CS1W-SCB41/CS1W-SCB21 Connection cable: CQM1-CIF01 Base mount type host link unit: C500H-LK201-V1 | ○ | ○ | *3 | - |
| | | GT09-C30R20102-25S | 3m | | | | | |
| | | GT09-C30R20103-25P | 3m | | | | | |
| | | GT09-C30R21101-6P | 3m | | | | | |
| | Cable for KEYENCE PLC | GT09-C30R21102-9S | 3m | PLC CPU: KV-700/1000 | | | | |
| | | GT09-C30R21103-3T | 3m | Multi-communication unit: KV-L20/L20R port 1 Multi-communication unit: KV-L20/L20R port 2 | | | | |
| | Cable for SHARP PLC | GT09-C30R20601-15P | 3m | PLC CPU: JW-22CU/70CUH/100CUH/100CU | | | | |
| | | GT09-C30R20602-15P | 3m | PLC CPU: JW-32CUH/33CUH | | | | |
| | Cable for JTEKT (former Toyota Machine Works) PLC | GT09-C30R21201-25P | 3m | RS-232/RS-422 converter: TXU-2051 | | | | |
| | | 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: H-4010/H series board type/EH-150 series | | | | |
| | | GT09-C30R20402-15P | 3m | Intelligent serial port module: COMM-H/COMM-2H PLC CPU: H-4010/EH-150 series | | | | |
| | Cable for Hitachi PLC | GT09-C30R21301-9S | 3m | Communication module: LQE560/LQE060/LQE160 | | | | |
| | | 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 Matsushita Electric Works PLC | GT09-C30R20901-25P | 3m | RS-422→232 conversion adapter: AFP8550 | | | | |
| | | GT09-C30R20903-9P | 3m | PLC CPU: FP2/FP2SH/FP10(S)/FP10SH/FP-M | | | | |
| | Cable for Yaskawa Electric PLC | GT09-C30R20904-3C | 3m | Computer communication unit: AFP2462/AFP3462/AFP5462 | | | | |
| | | GT09-C30R20904-3C | 3m | PLC CPU: FP1-C24C/C40C | | | | |
| GT09-C30R20201-9P | | 3m | PLC CPU: FP1-C16CT/C32CT | | | | | |
| GT09-C30R20202-15P | | 3m | PLC CPU: PROGIC-8/MP-920/MP-930 | | | | | |
| GT09-C30R20203-9P | | 3m | PLC CPU: PROGIC-8 | | | | | |
| GT09-C30R20204-14P | | 3m | PLC CPU: CP-9300MS MEMOBUS module: CP-217F (when connected to CN1) PLC CPU: MP-940 MEMOBUS module: CP-217IF (when connected to CN2) Yokogawa Electric personal computer module: LC01-0N/LC02-0N | | | | | |

Cables for third party FA devices

| Product name | Model name | Cable length | Third party products ^{*1} | GOT connection destination | Applicable model ^{*2} | | | | | |
|---|---------------------------------|--------------------|---|--|--------------------------------|------|-----------|---------------------|---------------------|-------------|
| | | | | | GT15 | GT11 | Handy GOT | GT10 | | |
| RS-232 cable | Cable for Yokogawa Electric PLC | GT09-C30R20301-9P | 3m | CPU port/D-sub 9-pin conversion cable: KM10-0C Personal computer module: F3LC11-1N/F3LC11-1F/F3LC12-1F/F3LC11-2N Converter: ML2-□ | ○ | ○ | *3 | - | | |
| | | GT09-C30R20302-9P | 3m | | | | | | | |
| | | GT09-C30R20304-9S | 3m | | | | | | | |
| Cable for Allen-Bradley PLC | GT09-C30R20701-9S | 3m | PLC CPU: SL500 series Converter: 1761-NET-AIC | ○ | ○ | - | - | | | |
| | | | | | | | | 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 Base mount type host link unit: C200H-LK202-V1/C500H-LK201-V1 Communication board: C200HW-COM03/COM06 Communication board: CP1W-CIF11 Multi-communication unit: KV-L20/L20R port 2 PLC CPU: JW-22CU/70CUH/100CUH/100CU PLC CPU: JW-32CUH/33CUH Link unit: JW-21CM/10CM/ZW-10CM PLC CPU: PC3J/PC3JL Communication module: PC/CMP2-LINK PLC CPU: T2/T3/T3H/model3000(S3) PLC CPU: T2E/model2000(S2) PLC CPU: T2N Intelligent serial port module: COMM-H/COMM-2H PLC CPU: LQP510 Communication module: LQE565/LQE165 RS-232C/485 interface capsule: FFK120A-C10 General interface module: NC1L-RS4/FFU120B MEMOBUS module: JAMSC-120NOM27100/JAMSC-IF612 PLC CPU: MP940 Personal computer link module: F3LC11-2N Personal computer link module: LC02-0N Temperature controller: GREEN series Temperature controller: UT2000 series | ○ | ○ | *3 | - | | |
| | | GT09-C100R40101-9P | 10m | | | | | | | |
| | | GT09-C200R40101-9P | 20m | | | | | | | |
| | | GT09-C300R40101-9P | 30m | | | | | | | |
| | | GT09-C30R40102-9P | 3m | | | | | | | |
| | | GT09-C100R40102-9P | 10m | | | | | | | |
| | | GT09-C200R40102-9P | 20m | | | | | | | |
| | | GT09-C300R40102-9P | 30m | | | | | | | |
| | | GT09-C30R40103-5T | 3m | | | | | | | |
| | | GT09-C100R40103-5T | 10m | | | | | | | |
| | Cable for KEYENCE PLC | GT09-C30R41101-5T | 3m | PLC CPU: T2E/model2000(S2) | ○ | ○ | *3 | - | | |
| | | | | | | | | | GT09-C200R41101-5T | 20m |
| | | | | | | | | | GT09-C300R41101-5T | 30m |
| | Cable for SHARP PLC | GT09-C30R40601-15P | 3m | PLC CPU: JW-22CU/70CUH/100CUH/100CU | ○ | ○ | *3 | - | | |
| | | | | | | | | | GT09-C100R40601-15P | 10m |
| | | | | | | | | | GT09-C200R40601-15P | 20m |
| | | | | | | | | | GT09-C300R40601-15P | 30m |
| | | | | | | | | | GT09-C30R40602-15P | 3m |
| | | | | | | | | | GT09-C100R40602-15P | 10m |
| | | | | | | | | | GT09-C200R40602-15P | 20m |
| GT09-C300R40602-15P | | | | | | | | | 30m | |
| GT09-C30R40603-6T | | | | | | | | | 3m | |
| GT09-C100R40603-6T | | | | | | | | | 10m | |
| Cable for JTEKT (former Toyota Machine Works) PLC | GT09-C30R41201-6C | 3m | PLC CPU: T2E/model2000(S2) | ○ | ○ | *3 | - | | | |
| | | | | | | | | GT09-C100R41201-6C | 10m | |
| | | | | | | | | GT09-C200R41201-6C | 20m | |
| Cable for TOSHIBA PLC | GT09-C30R40501-15P | 3m | PLC CPU: T2E/model2000(S2) | ○ | ○ | *3 | - | | | |
| | | | | | | | | GT09-C100R40501-15P | 10m | |
| | | | | | | | | GT09-C200R40501-15P | 20m | |
| | | | | | | | | GT09-C300R40501-15P | 30m | |
| | | | | | | | | GT09-C30R40502-6C | 3m | |
| | | | | | | | | GT09-C100R40502-6C | 10m | |
| | | | | | | | | GT09-C200R40502-6C | 20m | |
| | | | | | | | | GT09-C300R40502-6C | 30m | |
| | | | | | | | | GT09-C30R40503-15P | 3m | |
| | | | | | | | | GT09-C100R40503-15P | 10m | |
| Cable for Hitachi Industrial Equipment Systems PLC | GT09-C30R40401-7T | 3m | PLC CPU: T2E/model2000(S2) | ○ | ○ | *3 | - | | | |
| | | | | | | | | GT09-C100R40401-7T | 10m | |
| | | | | | | | | GT09-C200R40401-7T | 20m | |
| Cable for Hitachi PLC | GT09-C30R41301-9S | 3m | PLC CPU: T2E/model2000(S2) | ○ | ○ | *3 | - | | | |
| | | | | | | | | GT09-C100R41301-9S | 10m | |
| | | | | | | | | GT09-C200R41301-9S | 20m | |
| Cable for Fuji Electric FA Components & Systems PLC | GT09-C30R41301-9S | 3m | PLC CPU: T2E/model2000(S2) | ○ | ○ | *3 | - | | | |
| | | | | | | | | GT09-C30R41001-6T | 3m | |
| | | | | | | | | GT09-C100R41001-6T | 10m | |
| Cable for Yaskawa Electric PLC | GT09-C30R40201-9P | 3m | PLC CPU: T2E/model2000(S2) | ○ | ○ | *3 | - | | | |
| | | | | | | | | GT09-C200R41001-6T | 20m | |
| | | | | | | | | GT09-C300R41001-6T | 30m | |
| | | | | | | | | GT09-C100R40201-9P | 10m | |
| | | | | | | | | GT09-C200R40201-9P | 20m | |
| | | | | | | | | GT09-C300R40201-9P | 30m | |
| | | | | | | | | GT09-C30R40202-14P | 3m | |
| | | | | | | | | GT09-C100R40202-14P | 10m | |
| | | | | | | | | GT09-C200R40202-14P | 20m | |
| | | | | | | | | GT09-C300R40202-14P | 30m | |
| Cable for Yokogawa Electric | GT09-C30R40301-6T | 3m | PLC CPU: T2E/model2000(S2) | ○ | ○ | *3 | - | | | |
| | | | | | | | | GT09-C100R40301-6T | 10m | |
| | | | | | | | | GT09-C200R40301-6T | 20m | |
| | | | | | | | | GT09-C300R40301-6T | 30m | |
| | | | | | | | | GT09-C100R40302-6T | 10m | |
| | | | | | | | | GT09-C200R40302-6T | 20m | |
| | | | | | | | | GT09-C300R40302-6T | 30m | |
| | | | | | | | | GT09-C30R40303-6T | 3m | |
| | | | | | | | | GT09-C100R40303-6T | 10m | |
| | | | | | | | | GT09-C200R40303-6T | 20m | |

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*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: The 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.



Memo

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Memo

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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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