



Mitsubishi Graphic Operation Terminal GOT1000 Series

Tailored solutions to meet your HMI and visualization needs





Automation Platforms and

Programmable Controllers

CASE STUDY 1

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

CASE STUDY 2

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

The GOT1000 delivers the competitive advantage:

CNCs

The speed of your business and the speed of your machine hinges on many forces outside of your control.

Motion Controllers and

Servos Amplifiers

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



Vision

Systems

GOTs evolve the face of control.

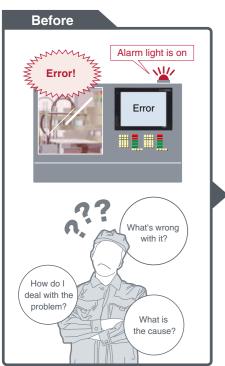


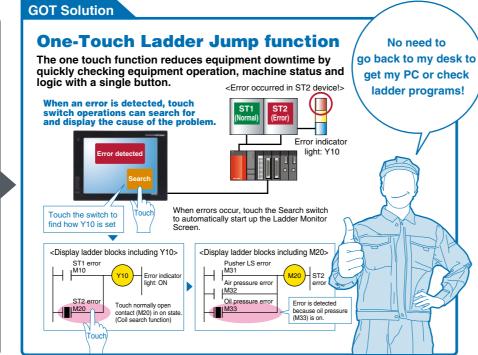
GOTIODO

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



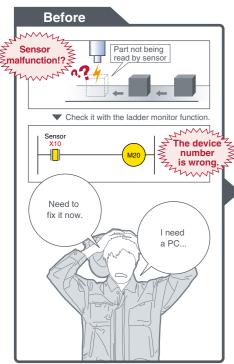
Facility uptime is increased by reducing unexpected errors on the floor.

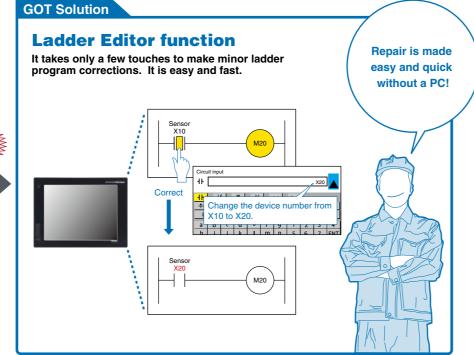




CASE 2

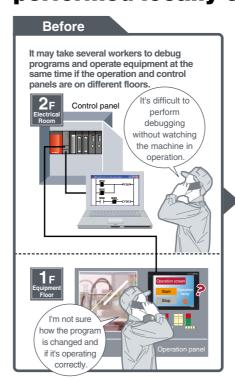
Equipment availability is greatly improved when GOTs are used to quickly edit PLC programs.

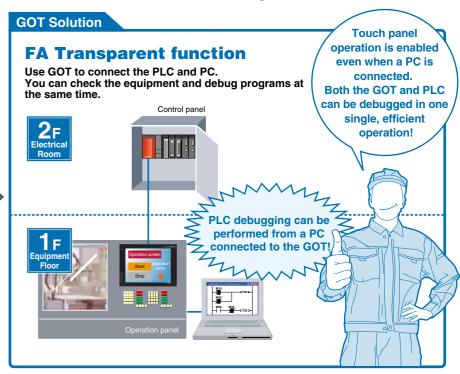




CASE 3

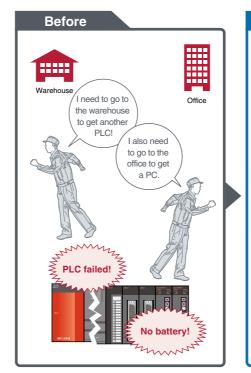
Downtime is shorten when debugging can be performed locally or over decentralized systems.

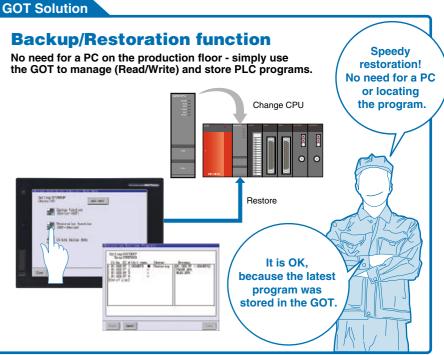




CASE 4

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

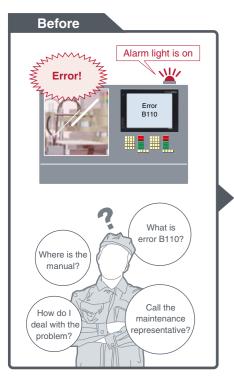


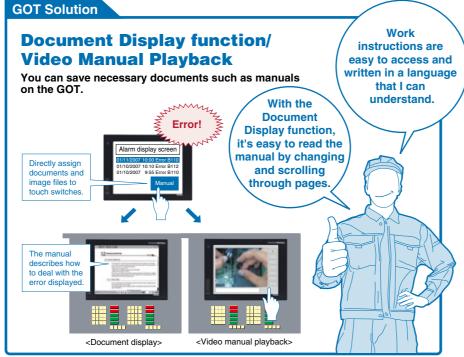


GOT Solutions

CASE 5

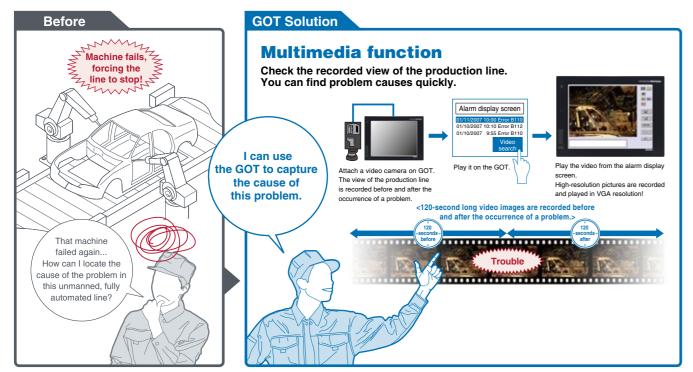
Operator efficiency is improved when manuals and work instructions can be accessed directly from the display.





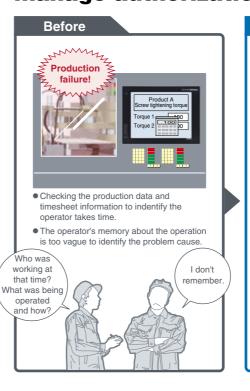
CASE 6

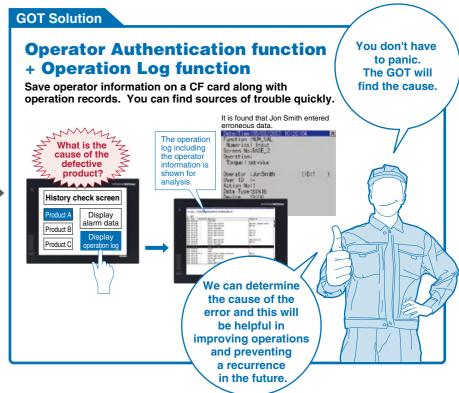
Production quality can be increased when using the GOT to capture and play back real time videos and images.



CASE 7

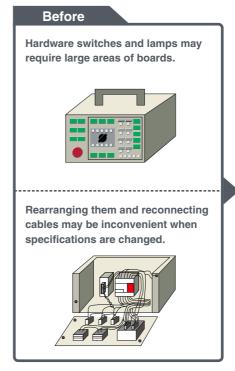
Minimize production mistakes by using the GOT to manage authorization and security levels.

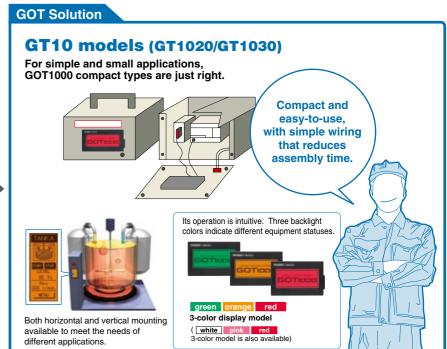




CASE 8

Reduce installation costs by using flexible mounting options.





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



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

Can the program be debugged without opening the cabinet?

FA transparent function

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



Can the PLC programs be recovered after failure?

Backup/restoration function

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



Can the PLC status or errors be checked quickly?

System monitor function

For details see P.46

PLC devices can be monitored and changed.

Intelligent module monitor function

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

Network monitor function

see **P.46**

Enable monitoring of network line conditions on a dedicated screen

Network module status display

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

MELSEC-L troubleshooting function

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



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

Can PLC programs be monitored with the GOT?

Ladder monitor function and ladder editor function

For details see P.44 P.45

Sequence programs can be monitored in a circuit diagram (ladder

SFC monitor function

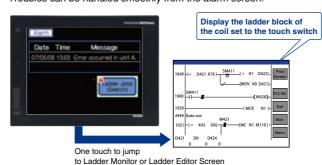
The Q series (Q mode) SFC programs (MELSAP3, MELSAP-L) can be monitored in a SFC diagram format.

Can the root cause be easily identified?

One-touch ladder jump function (Q/L/QnA series ladder monitor and ladder editor full

see P.44

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



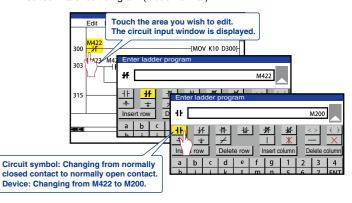
Can simple changes to ladder programs be made

without a personal computer?

Ladder editor function

For details, see P.45

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



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

Can collected logging data be checked at the worksite?

Log viewer function

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

소소 國國 📰

Monitoring batch control!

Can Process and Batch monitoring be simplified?

Building a process control system using GOT1000

PX Developer creates GOT process control screens automatically The automatically generated

data can be used for both the GOT (worksite) and GT SoftGOT1000 (monitor room), and therefore monitor screens can be created efficiently



FA Solutions

Making drive control even easier.







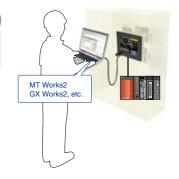
RESERVO X GRAPHIC OPERATION TERMINAL TO COLOR

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

Can the program be debugged without opening the cabinet?

FA transparent function

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



Can devices in the motion controller be validated?

System monitor function

Motion controller devices can be monitored and changed.

For direct connection of servo amplifiers to GOTs!

Can errors or the status of servo amplifiers be validated?

Servo amplifier monitor function

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

0.4 time

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

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

Q series motion monitor function

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

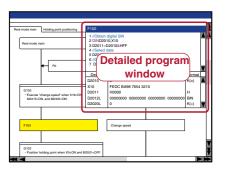
No Auto Sain Adjustment Manual Mode2 W Response Setting oad Inertia Ratio Position Ctrl.Gain1 speed Ctrl.Gain1 osition Ctrl.Gain2 Speed Ctrl.Gain2 speed Integral Comp. lotch Filter eed Forward Gain

Can motion SFC programs be checked on the GOT?

Motion SFC monitor function

For details, see P.45

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



Can motion profiles be recovered after controller failures?

Backup/restoration function

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

Embedded functionality for positioning modules!

Can positioning status and errors be validated?

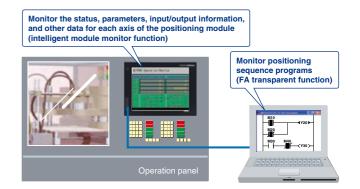
Intelligent module monitor function

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



Other convenient uses!

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



GOTIOO

FA Solutions

Simplifying inverter control.





General-purpose Inverter





Ideal for inverter startups and operation!

Can connections to the inverter be simplified?

Directly connect inverters



Up to 31 inverters can be connected to a single GOT over a total

FREQROL-F700P/F700PJ inverters can automatically configure the communication parameters for GOT connection, making connections



Can the program be debugged without opening the cabinet?

FA transparent function

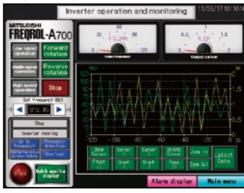
Connected with a personal computer, the GOT acts as a transparent gateway to enable startup and adjustment of equipment using FR Configurator. Users do not have to bother with opening the cabinet or changing cable connections.



Ideal for inverter operation!

Can the inverter status be monitored on the GOT?

Example of GT16 operation scree



Easy-to-understand display

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

Example of GT1020 parameter screen



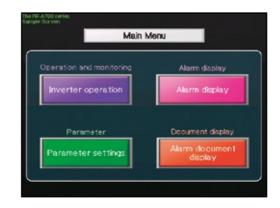
Example of GT1030 operation screen



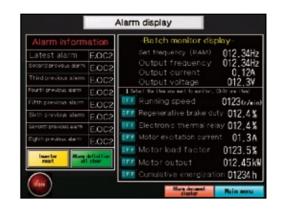
Can inverter parameters be changed easily?

Ready-to-use sample screens

Sample screen data for specifying parameters is available.



Pa	ramete	er settings	
O Torque boost	0123.5%	St. Acodesilas Moderadas reference Proposiço	012.45
1 Maximum frequency	012,4514	21 Acceleration/deceleration	012945
2 Minimum frequency	012,4516	22 Stall prévention operation level	0120.55
3 Base frequency	012,45Hz	23 End provides appeal as bod compared as facility of	0123.51
4 Multi-speed setting (high speed)	012.45Hz	24 Multi-speed setting (speed 4)	012,45
S Multi-speed wetling (middle speed)	012,45(6)	25 Multi-speed setting (speed 5)	012.45H
6 Multi-abord acting it = abord	012 45Hz	26 Multi-speed setting (speed 6)	012.45H
7 Acceleration time	0123.58	27 Muti-speed setting (speed 7)	112 451
8 Deceleration time	0123,58	41 Up-to-frequency sensitivity	0123.51
9 Electronic thormal OvL relay	012,45 A	eff Cognit Frequency defection for revenue rotation	012.45h
100C in solien brains operation frequency	012,45Hz	54 PM terminal function selection	112345
11 DC nyersion brisks operation tree	0123.58	60 Energy saving control alterton	112345
12 DC syector trate meretic village	0123.5%	74 Рекс и селетаковностоР, а посте	112345
13 Starting frequency	012,4516	I'll Boverse referen prevention selector	012345
14 Load pattern selection	012345	51 Number of motor poles	012945
15 Jog frequency	012,45Hz	158 AM terminal function selection	012345
16 Jog accoloration (deceleration time	0129.53	(00 Energy saving tertral adoctors	112945
		Alara display Hei	n senu



GOTIOO

FA Solutions



Powerful functions for robotic systems!

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

Immediately check the robot status!

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



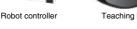
Consolidated panel operations



Servo motor (load rate/current value, etc.)

maintenance work efficiency.

Robot internal information (data)



Consolidate and centralize robot monitoring and

control functions on production floor using the GOT

Even if a teaching box is not available, the GOT can be used to operate the robot and easily check the current position data and error details.

Consolidating panel operations into the GOT improves operation and

Error information/Variable information/Program information

Maintenance information (battery/grease remaining time, etc.)

Robot information (current speed/attainment rate, etc.)



& engineering software

Ideal for robot programming! -

Can the robot program be easily accessed?

Ready-to-use sample screens

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



Robot operation panel screen



Robot load rate/current value monitor screen



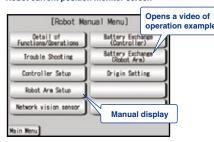
Robot jog/hand operation screen



Robot maintenance forecast screen



Sohot current position monitor screen



Robot manual menu screen

Can the program be debugged without opening the cabinet?

FA transparent function

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



For details

Can devices in the robot controller be validated?

System monitor function

For details, see P.46

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

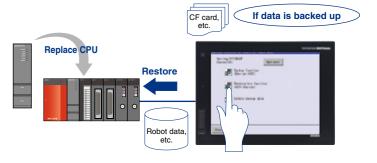
In the event of trouble!

Can robot profiles be recovered after controller failures?

Backup/restoration function

For details, see P.42

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



17

CASE STUDY 2

FA Solutions

Simplifying numerical control.











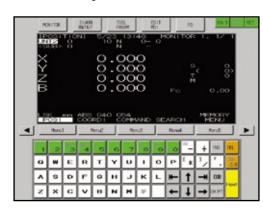


Powerful function for CNC startup, machining and changeover!

Can CNC parameters be changed easily?

CNC monitor function

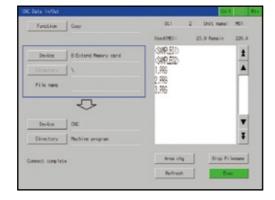
The CNC C70 and MELDAS C6/C64 can be monitored and the parameters can be changed.



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

CNC data I/O function

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



Can CNC devices be easily validated?

System monitor function

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

Can the program be debugged without opening the panel?

FA transparent function

For details see P.39

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



Ideal for CNC programming!

Can CNC programs be validated directly from the GOT?

Ladder monitor function

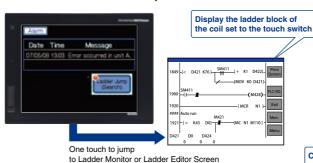
For details, see P.44

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

Can the root cause be easily identified?

One-touch ladder jump function

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

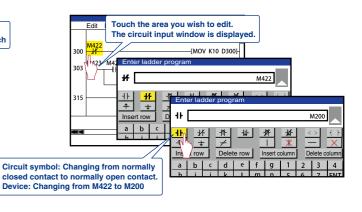


Can programs be changed easily without a personal computer?

Ladder editor function

For details see P.45

Sequence programs of the CNC C70 can be edited in a circuit diagram



In the event of trouble!

Can the CNC programs be recovered after failure?

Backup/restoration function

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



GOTIO O

FA Solutions

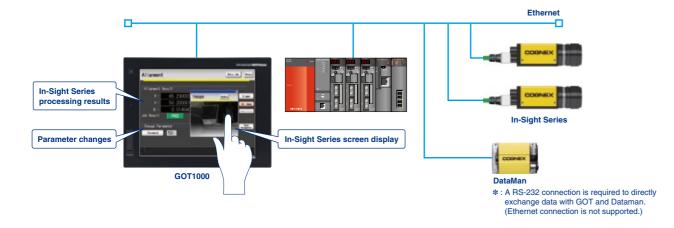


Powerful functions for vision systems!

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

Displaying the In-Sight Series processing results on the GOT

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



Can other COGNEX products be connected?

Connect to various COGNEX products

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

Ideal for configuration! —

Can vision parameters be (changed from the GOT?

Ready-to-use sample screens

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

[Alignment screen]

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



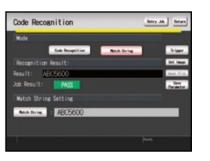
[Inspection screen]

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



[Code recognition screen]

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

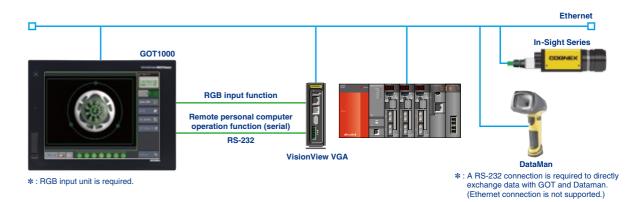


Ideal for monitoring operations!

Can vision applications be handled easily at the worksite?

Displaying In-Sight Series vision applications on the GOT

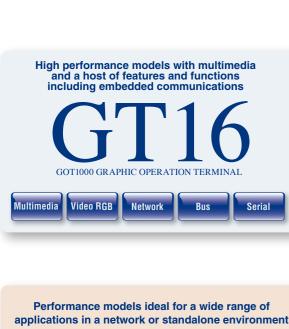
Connect the COGNEX VisionView VGA with the GOT to display the In-Sight Series Vision Application screen. While monitoring connected devices such as PLCs, it is possible to switch to the Vision Application screen when necessary to display live images, specify parameters with touch operations, and perform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





The GOT1000 series offers five classes of terminals

to fit any system or budget requirement.













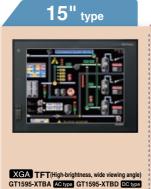


8.4" type













10.4" type



QVGA STN

GT1045-QSBD 24VDC type



Resolution: 640 × 480 Display colors: 256 colors

Resolution: 640 × 480 Display colors: 16 colors



4.5" type



GT1662-VNBA AC type GT1662-VNBD DC type



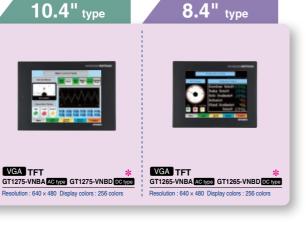


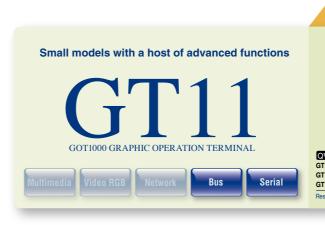




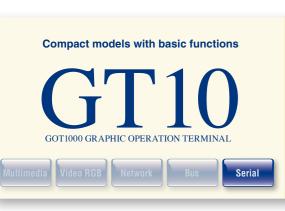


10.4" type



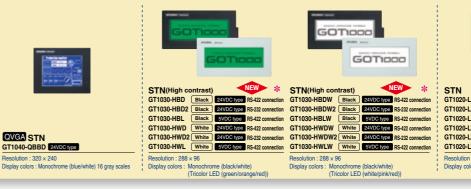


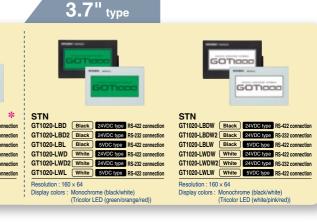














The lineup that fits in with any production line. Find your GOT with the right functions, size, and features.

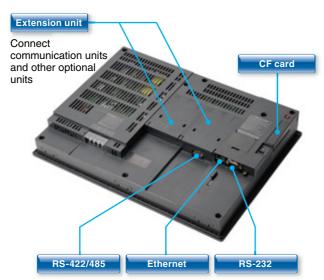
High performance models with multimedia and a host of features and functions including embedded communications

Options

See page 24 for GT16 Handy.

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

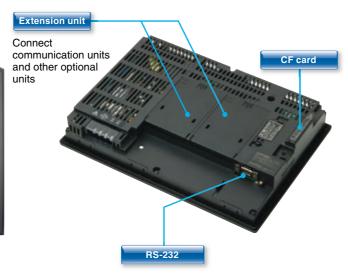




Performance models ideal for a wide range of applications in a network or standalone environment

- User memory capacity: 9MB (GT15□□-VNB□: 5MB)
- USB device port is included.
- The RS-232 interface is supported as a standard interface.





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

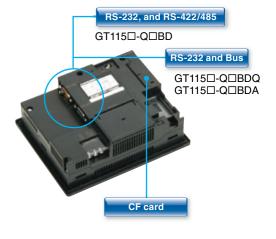
Large basic models with integrated features and communication interfaces



- User memory capacity: 3MB
- USB device port is included.
- The RS-232 interface is supported as a standard interface.
- Choose between two standard interface models for network connection: the RS-422/485 interface model or the bus interface model.
- * See page 25 for GT11 Handy.

Small models with a host of advanced functions





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

Compact models with basic functions

GT1050/GT1040 User memory capacity: 3MB

- USB device port is included.
- RS-422/485 and RS-232 interfaces are supported as standard interfaces.

GT1030/GT1020

- User memory capacity: 1.5MB (GT1030)/ 512KB (GT1020)
- Three-color LED backlight indicates the equipment status at a glance.
- The RS-422/485* interface or the RS-232 interface is supported as a standard interface.
- *: Only the RS-422 interface for the 5VDC type









Rich functionality and high performance in the palm

GT16
Handy GOT

65,536 vivid colors on a big VGA screen

The light body includes the latest GT16 functions

Extremely easy handling and operation in one hand

Standard Ethernet interface enables long-distance communication

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





of your hand

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

Various types of switches are available

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



Various types of external connection interfaces are available as standard interfaces

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

Options

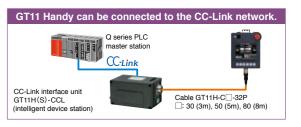
Emergency stop switch guard cover connection cable

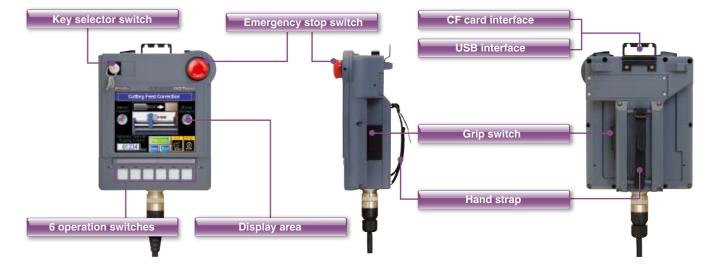


GT11 Handy GOT

Portable 5.7" operation terminal

GT1155HS-QSBD GT1150HS-QLBD







Use a personal computer or panel computer as a GOT.

HMI software for the GOT1000 series



GT SoftGOT1000 is the HMI software that provides GOT functions on personal computers and panel computers.

This software connects with various types of equipment such as Mitsubishi PLCs and let you see screens just like the GOT1000 series.

You can also reuse GOT's project data without modification.

Along with all the advantages of a GOT, you can also enjoy the convenience and flexibility of personal computers and panel computers.



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

Monitor the production site from a remote location

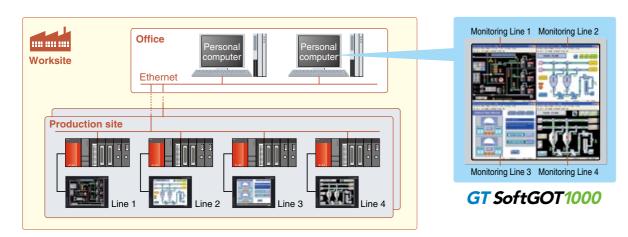
Reduce downtime

GT SoftGOT1000

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

Use GOT project data from the production site

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



Connect with MELSEC process control for process control applications

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

PX Developer window screens and other tools

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

GT SoftGOT1000 touch switch/object

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



PX Developer monitoring tool bar

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

GT SoftGOT1000 base screen

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

Security collaboration **NEW** The GT SoftGOT1000 security level is changed accordingly when the PX Developer monitor

tool's mode is changed (engineer mode/operate mode/lock mode). Authority can be set for operations requiring security.

Link with other applications to construct a high-performance system

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

<Development environment of user applications>

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

Connect to various devices

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

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

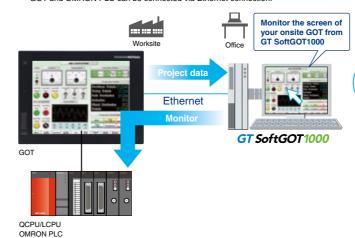
Connect to RFID or barcode reader and input numerical

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

Monitor the screen of your onsite GOT from **GT SoftGOT1000**

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

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



GT SoftGOT1000 Commander

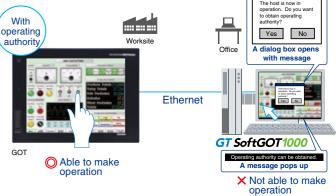
By using the GT SoftGOT1000 Commander, multiple GT SoftGOT1000 modules using the SoftGOT-GOT link function can be efficiently managed, and the SoftGOT-GOT link function can be utilized easily.

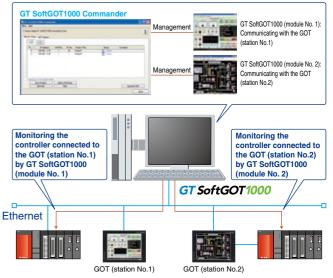
<Actions possible with GT SoftGOT1000 Commander>

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

Prevent simultaneous operations from GT SoftGOT1000 and GOT

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





27

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





More intuitive. No more wasted time. The screen

Project

Alarm Loceine

Recipe

Script

Project
System
Screen
Project Information

Basic Comment

Device Data Transfer
Status Observation

Parts Image List

Project System Screen

Word

Signed BIN16

Real Lamp Figure

. Common Information

Use Image Transpa No.

Range Setting 0 (\$V (100)

Range: Type

Lamp Color

[WORD LAMP] is selected

+ State 2

Device/Style

Lamp Type

Data Type

ALL

Triceer Action

Herd Copy
MES Interface
T Parts

■ 🗐) Sound Files

Property

Word Lamp

New Comment Group

design software optimized for usability.



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

Work tree

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

Property sheet

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

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

Temporary area

Related tools

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

- EX

-

123 •

ase -

36 -

1

₾.

T-

N

M 0

0

리

d

3

4

8 -

₩.

Shape...

To Test Tab>>

4 ×

-

· · · ON OFF · III III III

AA BE BOO

Import Recent Library

My Favorites

System Library
Search By

Text* Extended / Operation/Script

GT16**-V (840x480) 65536 Colorexe CH 1 : MELSEC-QnU/DC, Q17nD/M/NC/DR, CRnD-700 1 160,176 X201,Y207

My Library

Library

Ni Number of States: 3

R Range Text 🌞 🗶 🛊 🕸

- Red - ON OFF 100% -

Shape Real Lamp Figure: 05_0_GR

Use Image Transparent

Dgta Type: Signed BIN16

Gray

Convert to Switch. OK Cancel

Project Edit Search/Replace View Screen Com on Figure Object Tools Communication Window w Help

eandeaedme &

X B-1 (Front+Back) X B-2 (Front+Back) X C Environmental SI Se : Library

Hot Water Supply Control

Simulator

Preview operation without connecting to a GOT.

Communication with the GOT

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

Tool bar

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

Library

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

Dialog box

User-friendly dialog boxes and object settings.

Editor <screen design area>

Many convenient and efficient development functions are included!

New functions improve your screen design efficiency than ever before!

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

The Help function is available for quick reference!

MELSOFT iQ Works improves design efficiency

of MELSOFT Navigator are supported. 28



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

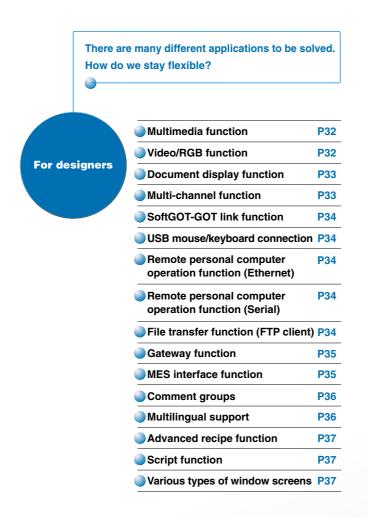
Usability depends on who the users are and where they carry out their tasks.

Designers want to use the most advanced HMI technology, while maintenance engineers want the most dependable HMI for their facilities.

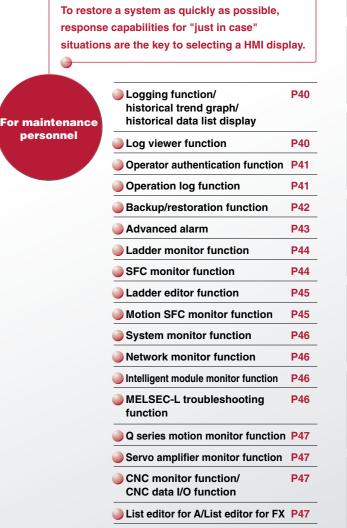
To satisfy all of our customers, we are constantly developing more and more functions for the GOT1000 series.

INDEX

● For Designers P32 ● For Initial Startup & **Adjustment Operators** For Maintenance Personnel P40 GT10 P48 iQ Platform P50 **MELSEC Process Control P51** Specifications P52 **External Dimensions P61** List of Connectable Models P65 Function List P70 Product List P74 Notes for Use P81 Warranty P87



Efficiency requires both fast data transfer as well as user-friendly functions. P38 Drawing, computing, communication; a trio of For initial high-speed response functions startup & operations Backlight brightness adjustment P38 Color-coded front face LED P38 Maintenance time notification function Equipped with front USB interface P39 FA transparent function P39





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

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



Multimedia function

Recording audio and video, displaying input images

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

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



High resolution recorded image (standard mode)

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

Playing back motion image files

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

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

Use as a video guidebook for work tasks

- •The GOT plays back motion image files that are created by your personal computer. Since the GOT is compatible with standard formats, commercially available software can be used to create motion image files.
- <Applicable software programs> Quick Time 7 Pro
- <Compatible file formats>
- 3GP and MP4

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



32

16 15 Video/RGB function

Enhanced compatibility with cameras and inspection devices <Video input>

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

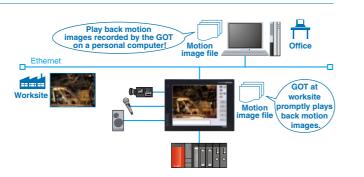


For additional recording time (extended mode)

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

Displaying input images

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



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

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

input unit, RGB input unit, video/RGB input unit or RGB input unit The multimedia data link tool and multimedia data link FTP service are timedia-dedicated software programs included with GT Works3.

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

Displays PC images on the GOT <RGB input>

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

Display the GOT screen on a display <RGB output>

- Connect to a commercial display so that the GOT screen can be displayed larger.
- * Not supported by GT16 \(\sigma\). VNB\(\sigma\) GT1655_GT16_Handy
- *: Only one of the following devices can be used on the GT16 at one time; video input unit. RGB input unit, video/RGB input unit, RGB output unit, or multimedia unit.
- *: Only the GT1585V and GT1575V for the GT15 series. Only one of the following devices can be used at one time; video input unit, RGB input unit, video/RGB input unit, or RGB output unit.

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

Display various documents on the GOT at the



Document display function

 When a system error occurs, referring to recovery methods in check lists and/or manuals on the GOT can reduce downtime.

- Pages can be changed, scrolled through, enlarged or reduced, and multi-page documents can be displayed.
- The document converter that comes with GT Works3 is used to format documents to be displayed and save them to CF
- Supported file formats : doc, xls, ppt, pdf, jpg, bmp



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

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

Central storage of FA device information on a single GOT terminal



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

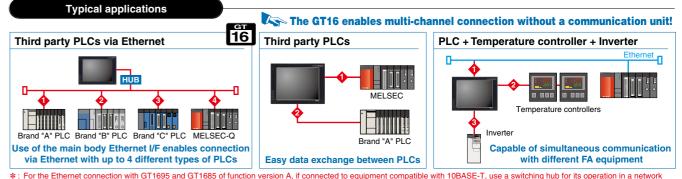
The GOT1000 Series connects with PLCs, microcomputers, and other various devices. More models from more manufactures will be supported in the future.

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

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

For various types of peripherals.

- General-purpose MODBUS® devices External devices (operation panels, switches, lamps, etc.)
- Two-dimensional code readers, barcode readers RFID readers, IC card readers Speakers Video cameras
- Displays (RGB output) PCs (RGB input) Serial printers PictBridge printers Vision sensors*
- *: For details, see CASE STUDY 2 FA Solutions (page 18).



- *: The number of channels and functions, which can be used with the multi-channel function vary depending on the connection configuration. For more details, see "Notes for use" (page 81).

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

Monitor the screen of the onsite GOT from your PC screen



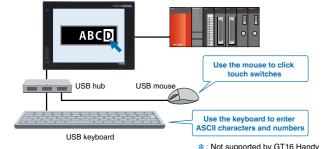
- Connect GT SoftGOT1000 with the GOT with an Ethernet connection. Use the GOT's project data with GT SoftGOT1000 to monitor connected equipment.*
- Operation of an input object (e.g. touch switch, numerical input) is allowed by either the GT SoftGOT1000 or GOT, depending on which has operating authority.
- By using the GT SoftGOT1000 Commander, multiple GT SoftGOT1000 modules using the SoftGOT-GOT link function can be efficiently managed, and the SoftGOT-GOT link function can be utilized easily
- *: Only CH1 can be monitored when GOT is connected via multi-channels. GOT and QCPU/LCPU can be connected by a bus connection, direct CPU connect computer link connection, or Ethernet connection. GOT and OMRON PLC can be

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

Connect your mouse/keyboard to the front USB interface



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



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

Operate a personal computer from the GOT touch screen



34

Remote personal computer Remote personal computer operation function (Serial)

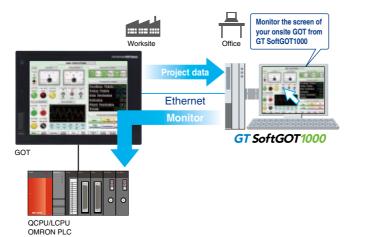
• When using RGB input, operate a personal computer screen displayed on the GOT by touch operation (e.g. store information such as touched coordinates in GOT internal devices, transmit the data to a personal computer).



- Windows® 2000 Professional SP4 *: Not supported by GT16 - VNB , GT1655, GT16 Handy
- *: Supported only on the GT1585V and GT1575V models in the GT15 series

An optional device may be necessary.

For details, see "Selection of optional units and devices" (page 81).



Operate a remote PC from an onsite GOT





 A personal computer at a remote location can be operated from an onsite GOT when they are connected via Ethernet.

A USB mouse/keyboard can be connected to the front USB



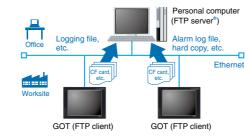
- *: Not supported by GT16□□-VNB□, GT16 Handy
- *: The license key (GT16-PCRAKEY) is necessary.

Send files from GOT to personal computer

16 15 File transfer function (FTP client)



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



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

Convenient for using GOT resource data on a personal computer.

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

16 15 12 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 third party devices are connected, MX Component can read and write the devices through the GOT using the server function.
- *: The collected data can be displayed and analyzed by Excel without using any programs other than MX Sheet. Programming with Visual C++ and Visual Basic enables applications to be flexibly designed and built. See the MELSOFT catalog (L (NA) 08008) for more details.

2 Monitor other GOTs from a GOT (client function)

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

Database linkage support enhances productivity at your worksite



More cost for installing a gateway personal

Gateway PC

U U

MES interface function

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

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

When MES interface function is used

MES application

MES interface function

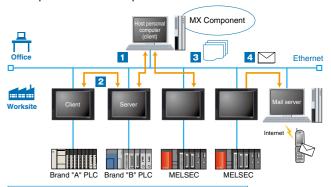
No need for gateway personal computer or database

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

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

4 Mail send function

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



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

MES interface function

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

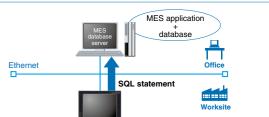
Usable databases

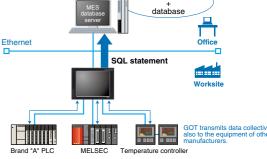
- Oracle® 8i/9i/10g/11g Microsoft® Access 2000/2003/2007
- Microsoft® SQL Server 2000/2005/2008
- Microsoft® SQL Server 2000 Desktop Engine (MSDE2000)

optimize quality, productivity, delivery date, and cost.

- Wonderware® Historian 9.0
- Compatible only with 32-bit versions.

<MES (Manufacturing Execution System)> A manufacturing execution system (MES) is a system which controls and manages production processes at a worksite in order to





*: Not supported by the GT16 Handy



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

SELECT (multiple data)

UPDATE

INSERT end product

Efficient input of extensive comment data

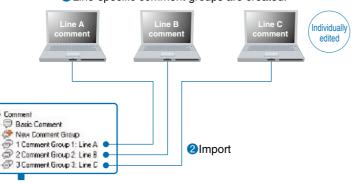
Comment groups

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

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

Example of comment group use

1 Line-specific comment groups are created.



3 Displayed comment group can be switched by a device.

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

 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

Multilingual support

Comment group comments can be created freely for

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

 You can specify the column number of the comment group to change the language of the startup message on the GOT.

• The system alarm and utility screen display languages can

be changed in conjunction with the language selection

applications, as well as for different languages.

· Comment displays where "comment group"



Easy creation of multilingual screens

the display language.

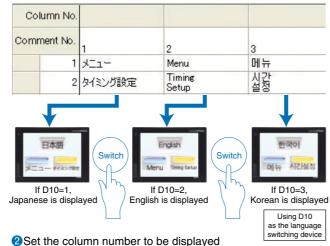
36

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

Users can quickly change the language display.

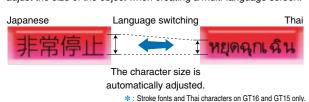
Example of switching between Japanese, English, and Korean screens

Use comment groups to create Japanese, English and By using comment groups, different language comments Korean comments in their respective columns. can be created for each comment group column to switch



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.



in the language switching device.

3The displayed comment (language) changes.

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

Easily create complex recipe data

16 15 Advanced recipe function

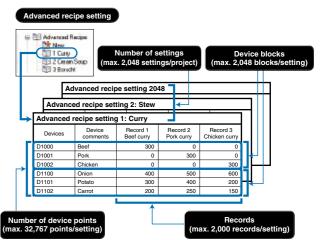
This function allows material combination data and processing conditions data (device values) to be held in the GOT, with only required data being written to and read from the PLC.

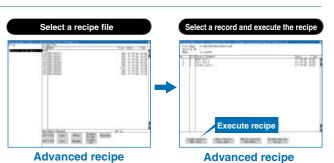
An extensive number of settings and flexible recipe data can be created

- Up to 2.048 blocks can be used, each block is comprised of sequential word devices, an arbitrary word device (1 point), and a bit device (1 point).
- Because devices also permit bit and word combinations and arbitrary device settings, there is no need to centralize the sequential devices used, thereby reducing the total number of device points used.
- Advanced recipe files can be converted into CSV or Unicode format text files, and can be edited on a personal computer. *
- *: The advanced recipe file has a binary format. It must therefore be converted to either a CSV file or a Unicode text file by using GT Works3, the GOT utility, or an external control trigger device. After being converted, only the device values can be edited. When more than 251 records are included in an exported Advanced Recipe file (CSV or Unicode text format), use a text editor or Microsoft Excel 2007 or later to

Easy handling of recipe data using the GOT

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





For better work efficiency and enhanced customization functions

Script function

Project script/screen script

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

Object script (For GT16 and GT15 only)

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

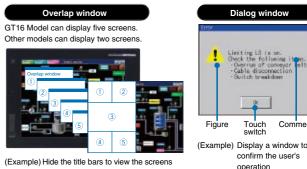
Controlling the GOT display with scripts can reduce load on the controller and enhance maintenance performance. The editor includes input support that makes it easy for you to write scripts.

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

record list screen

Various types of window screens

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



as divided windows (GT16)

information screen

Key window

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

startup & operations

startup & operations

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

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

High-speed drawing

- Sharp and quick drawing of complex, layered component screens, and detailed photographic data in 65.536 colors
- The GT16 further speeds up drawing operations.

High-speed computing

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

High-speed communication

system library.

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

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

GT16/GT15 response performance comparison [Using MELSEC Q series] CPU direc CC-Link Ver.2(ID connection) CC-Link IE Controlle CC-Link IE Field

The monitor screen includes about 250

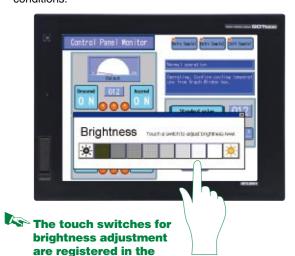


Backlight brightness adjustment

Adjust brightness according to surroundings



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



Easy-to recognize backlight state

Color-coded front face LED

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

[Power LED: Color-coded message]

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

For planned commodity maintenance



16 15 Maintenance time notification function

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

<Subject to be monitored> Backlight, display area

Warning! Backlight needs replacement soon.

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



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

Easy data transmission without opening the

Equipped with front USB interface*

*1 : Back face layout for GT12.

USB device (Mini-B)

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

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





With USB environmental protection cover installed (standard feature) IP67f

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

Sequence program and parameters can easily be modified at the worksite

FA transparent function

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

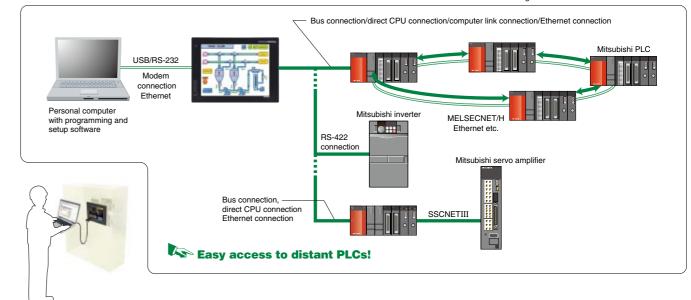
USB host (Type A) (for GT16 only)

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



- Supported software*
- · MELSOFT Navigator GX Works2
- GX Developer
- GX Configurator-AD/DA/SC/CT/TI/TC/AS/FL/PT/QP
 PX Developer

- FX3U-ENET-L Configuration Tool
- MT Works2
- MT Developer
- MR ConfiguratorMR Configurator2
- FR Configurator RT ToolBox2
- NC Configurator
- MX Component/MX Sheet
- GX LogViewer
- LCPU Logging Configuration Tool
- For more details, see the GOT1000 Series Connection Manual (Mitsubishi Products) for GT Works3.
- *: For the software access range when using the FA transparent function, refer to the manual of the software being used.

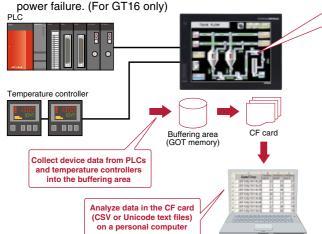


38



• Collecting data from temperature controllers and other units with the GOT can reduce the load on the PLC.

 Logging data is saved in the built-in SRAM even during a power failure. (For GT16 only)



Display with graphs Historical trend graph After collecting data with the logging function, you can display the data in a time series. Scroll the view or specify the time so that vou can check necessary data easily. Display with values Historical data list display Data collected with the logging function is displayed in list format. The historical trend graph for a specific

time can be displayed

by designating the

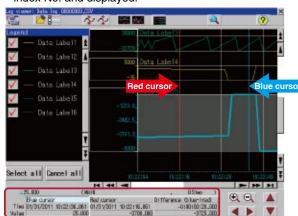
Display logging data of a LCPU and high speed data logger module on the GOT



Display logging data without a PC

_{ет} 16

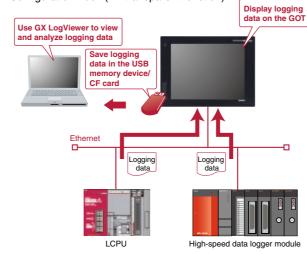
- Logging data collected by a LCPU or high speed data logger module can be displayed on the GOT.
- <Data to be displayed> Data logging (historical display)
- •By displaying two cursors (multi-cursor), changes in data can easily be checked.
- •The collected logging data can be searched for by time or index No. and displayed.



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

Logging data can be collected without opening the cabinet -

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

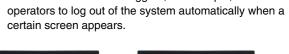


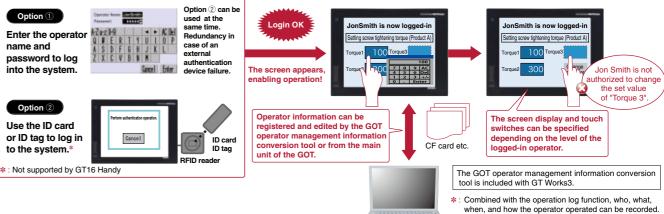
Enhanced security system using password

16 15 Operator authentication function

 Two options are available for authentication of operators when the system starts or the screen changes.

• You can define various triggers, for example, to force





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

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

Very helpful for identification and analysis of causes of incorrect operation

ет 16 15 **Operation log function**

 Operations performed by operators on the GOT can be recorded with respect to time, making it possible to check when, what, and how the operation was performed.

• List operations by type and easily search for specific device and GOT operation state changes.

See "Operation log function."

<Specifiable operations>

Touch switch operation, numerical value input operation, security level change, screen change, etc.

- Recorded log data is saved in the CF card and is available for checking on the GOT main unit or on a personal computer (CSV or Unicode text files).
- *: Use of this function together with the operator authentication function enables recording of "who" has operated. See "Operator authentication function



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

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

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

For maintenand personnel



With backup and restore, fear troubles no more

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

<Objective data> Programs, parameters, device comments, device initial value data, file registers, etc.

<Objective model> MELSEC Q-Series (excluding Q12PRH/Q25PRHCPU), L-Series. FX-Series.

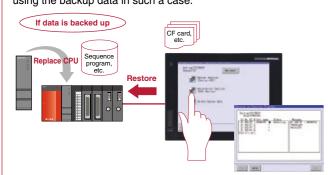
> Q-Series motion controllers (SV13/SV22 only), CNC C70, Robot controller (CRnD-700, CRnQ-700)

<Usable connection type> Bus connection, CPU direct connection, computer link connection,
 Ethernet connection

The backup data conversion tool is included with GT Works3.

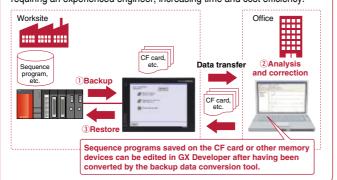
Example of use ①

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



Example of use ②

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

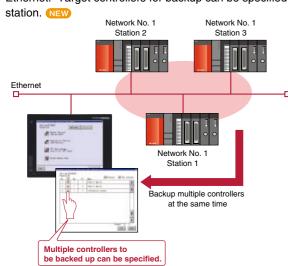


PLC CPU programs can be easily changed without a personal computer at the worksite or any previous GX Developer knowledge.

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

Backup multiple controllers at the same time —

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



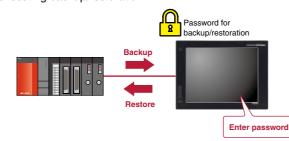
Automatic backup is available -

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



Password for increased security

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



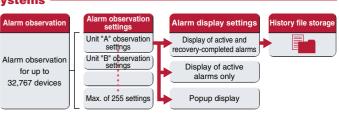
An optional device may be necessary. For details, see "Selection of optional units and devices" (page 81).

Clear communication minimizes machine downtime even during an alarm



A wider monitoring range protects even large-scale systems

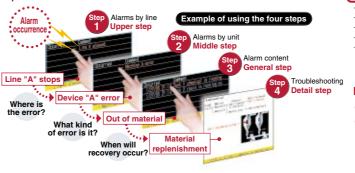
- Alarm observation is possible for up to 32,767 devices with a maximum of 255 alarm observation setting groups.
- Batch display of large amounts of alarm information in large-scale systems, and unit-specific classification for easy management.
- Alarm log data can be saved in the built-in SRAM even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



Rapid detection and corrective action for a wide array of alarms

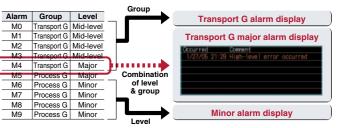
Four-step alarm notification

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



Group-specific & level-specific displays

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



Easy searching with time designation NEW

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

Easy-to-understand display —

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



Improved system alarms

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

Support in identifying alarm causes (utility function) —

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

maintenance time

personnel

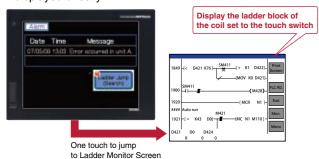
The GOT Ladder Monitor Function is greatly improved with the One-Touch Ladder Jump function

16 15 Ladder monitor function

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

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

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



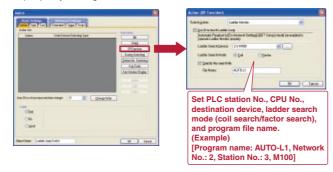
• Select [SP Function]-[Ladder Monitor] from the touch switch

instance

Supported by XGA/SVGA/VGA models ladder program of a Q/L/QnA.

It cannot alter device values, for

FX3GCPU is not supported.



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

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

An optional device may be necessary.

For details, see "Selection of optional units and devices" (page 81).

Example of touch search (when error indicator light [Y10] is on) <Display ladder blocks including Y10> <Display ladder blocks including coil M20> Touch normally open

(Coil search function) oil pressure (M33) is on. Since the source of operation halts and interlocks can be easily checked, unexpected

problems can be detected quickly.

Simple and easy!

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

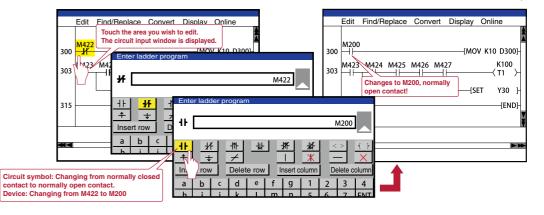
16 15 Ladder editor function

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

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

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

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



Writing into PLC while it is in operation

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

Grasping CPU status with PLC diagnosis

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

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

Long access range and convenient functions for efficient maintenance!

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

Monitor SFC programs on the GOT to make troubleshooting even easier

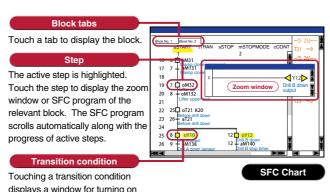


SFC monitor function

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

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

*: Supported by XGA/SVGA/VGA models.



displays a window for turning on or off a bit device.

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

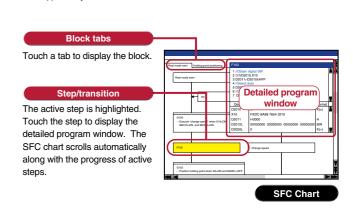
Motion SFC monitor function

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

Use the GOT to monitor a motion SFC program

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

* Supported by XGA/SVGA/VGA models



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

System monitor function

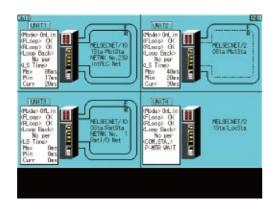
- The devices of PLCs, motion controllers, CNCs and robot controllers can be monitored and changed.
- *: Only monitoring, but not changing device values and other operations, is available
- The current values and setting values of timers (T) and counters (C) can be changed.
- The buffer memory (BM) of an intelligent function module can be monitored and changed.



At-a-glance monitoring of network status

Network monitor function

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



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

16 15 Intelligent module monitor function

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

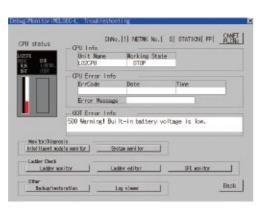
46



Easy maintenance of MELSEC-L Series



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



Easy adjustment of Q series motion controller

16 15 Q series motion monitor function

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

<Obiective models>

- Q172D/Q173DCPU (-S1) Q170MCPU
- Q172H/Q173HCPU
- Q172(N)/Q173(N)CPU
- *: Supported only if the Q series motion controller CPU has the SV13/SV22 OS

Moreover, available functions of the Q series motion monitor vary according to the CPU type or the servo amplifier model.



Save space and cost when no dedicated display device is required

CNC monitor function/CNC data I/O function

CNC monitor function

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

CNC data I/O function

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



*: Supported by XGA/SVGA models.

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

Easy startup and adjustment of a servo amplifier

16 15 Servo amplifier monitor function

• In a system which outputs pulse strings, the GOT can be connected to a servo amplifier in a serial connection to

- perform the following operations: set up, monitoring, alarm display, diagnosis, parameter setting, and test operations.
- *: Available monitoring functions vary according to the servo amplifier type.

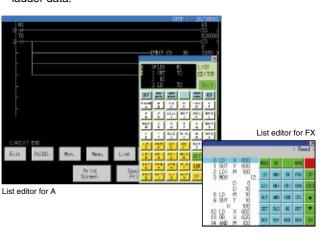


Convenient method for minor program changes

List editor for A/List editor for FX

• MELSEC-A series, FX series PLC sequence programs can be edited in list format (instruction word).

- Permits minor program changes onsite, even without a peripheral device.
- Used together with the ladder monitor function, the GT16 and GT15 can edit sequence programs while viewing the ladder data.



GOT

Various screen sizes

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



GT1050 ¢ GT1055

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



- Matrix touch panel
- Minimum touch key size: 16 × 16 dots Maximum number of touch keys: 50/Screen



Black frame

GT10



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



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

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

GT1050 / GT1055

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



GT1030

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

*2: 1.44 times compared with the F930GOT F930GOT▶GT1030

Black frame



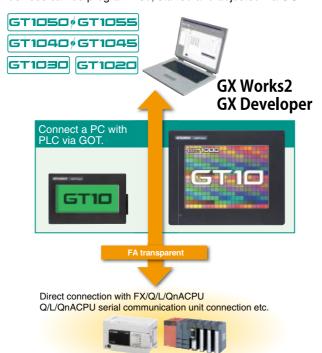




- 160 × 64 dots
- Analog touch panel
- Minimum touch key size: 2 × 2 dots
- Maximum number of touch keys: 50/Screen

FA transparent function

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



GOT multi-drop connection

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



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

Connection to Mitsubishi inverters and AC servos

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



* : See relevant manuals for connectable hardware and software versions

Common software functions

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

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

Functionality

for reducing sequence program load

Choose your font

Screen (base: max. 1,024 screens, window: max. 512 windows) ©Fonts (standard (6 × 8 dots; Gothic, 16 dots; Gothic, 12 dots; Gothic [except GT1020])/high quality/TrueType/Windows) Screen switching function, screen call-up function, language switching function password, system information, setting connected devices, and startup logo

Straight lines, continuous lines, rectangular, polygons, chamfered quadrangles circles, ellipses, arcs, elliptic arcs, circular sectors, and elliptic sectors ODivision indication OPainting OImages (BMP/DXF)

OComment registration (basic comments and comment groups) ○ Parts registration ○ Data computing function ○ Offset function ○ Security function ○ Lamp indications ○ Touch switches ONumeric indications and input OASCII indications and input OClock function (GT1050, GT1055, GT1040, GT1045, GT1030: Integrated clock, GT1020; Read from the PLC clock)

Comment displays OAlarm list and alarm history OParts display OPanel meters

* : See the manual for details.

Supporting the GT Works3 simulator function

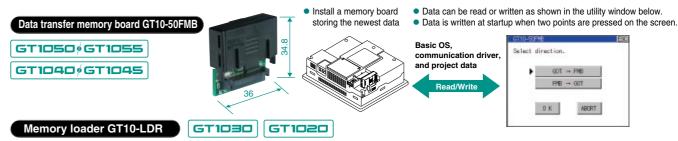
Created screens can be easily debugged without an actual machine.



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

Data transfer for improved user-friendliness and flexibility

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



- Has a compact design (70 × 110 mm), where the GOT transfer cable can be stored inside the body.
- Can write the standard monitor OS. communication driver, and project data Can read the project data and
- resource data. Offers simple switch type operation. where the write-protect switch prevents erroneous reading.
- Does not require a power supply as power is supplied from the GOT or personal computer.
- At the worksite * **
- (Visiting a customer For copying series production units
- - - RS-232 trai
 - *1 : Only the standard monitor OS and communication driver can be written and only resource data can be read. *2 : Only resource data can be read.

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

"MELSEC process control" is used in a wide range of applications from device process control to plant process control. The GOT1000 can be used as the monitoring interface.

When using Mitsubishi FA devices, the outstanding interaction allows a high-performance process control monitor system to be created easily.

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

①PX Developer creates GOT process control monitor screens automatically

Based on the information such as tags defined by PX Developer, process control monitor screens for the GOT can be created automatically, greatly reducing the time required for screen design.

GT Works3 can then customize the automatically created screens.

By using the GT Works3 simulator function and GX Simulator, the operation of programs and screen data can be confirmed on a personal computer even without an actual machine. NEW

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

[Screen examples that can be created automatically]





Tuning screen





Alarm list screen

Trend graph screen

2Utilizing GOT1000 & GT SoftGOT1000 data

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

Worksite



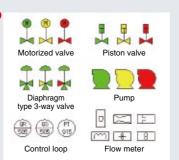
- Excellent anti-environment performance (IP67f) for operation in various types of worksites.
- The VESA mount adapter is available.



- Touch switches on the GT SoftGOT1000 can call up screens such as face plates and the alarm list of the PX Developer monitor tool.
- Since GOT1000 screen data can be used for GT SoftGOT1000 without modification, no screens need to be created just for the monitoring location.
- *: For more details, see "GT SoftGOT1000" (page 26)

3 Process control parts library NEW

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



4) Various GOT1000 functions are available for process and **duplex CPU**

The various GOT1000 functions usable with process and duplex CPUs support the maintenance work of the process control

- Operation log function
- Operator authentication function
- Backup/restoration function, etc.

Mitsubishi FA Integrated Platform **Platform**

optimizes front line of production

integrated Q improved Quality

integrated platform

"iQ Platform," the next generation

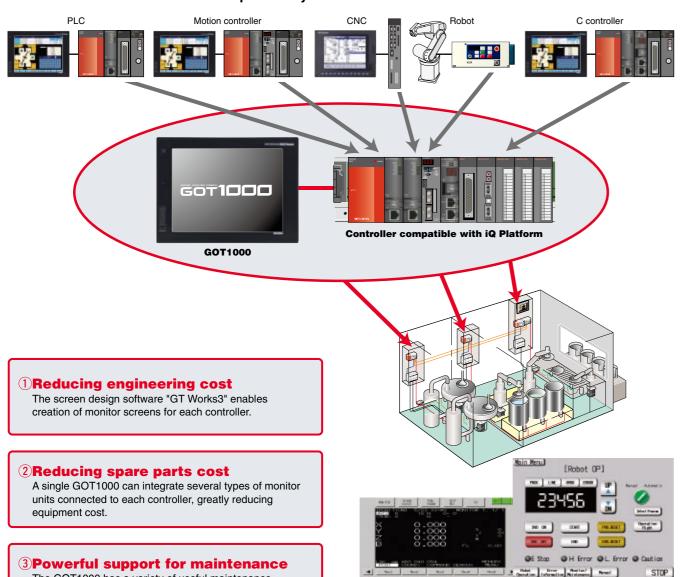
Robot sample drawing data

intelligent & Quick innovation & Quest

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

Real-time multi CPU access with the iQ Platform

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



"CNC monitor function," very capable of and reliable for

The GOT1000 has a variety of useful maintenance functions such as the "Q motion monitor function" and troubleshooting. (GT16 and GT15 only)

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

Iter			Specification						
Operating ambient	Display			0°C to	50°C*5				
temperature*1	Other than display			0°C to	55°C*5				
Storage ambien	t temperature			-20°C t	to 60°C				
Operating ambie	ent humidity			10 to 90%RH, r	no condensation				
Storage ambien	t humidity	10 to 90%RH, no condensation							
				Frequency	Acceleration	Half amplitude	Sweep count		
		O HE B SENSI	Under intermittent	5 to 8.4Hz	-	3.5mm	10 times each in X,		
Vibration resista	ınce	and 3502	vibration	8.4 to 150Hz	9.8m/s ²	_	Y and Z directions		
			Under continuous	5 to 8.4Hz	-	1.75mm			
		IEC 61131-2	vibration	8.4 to 150Hz	4.9m/s ²	_	_		
Impact resistance	се	Conforming	to JIS B 3502 and	IEC 61131-2 (1	47m/s ² , 3 times	each in X, Y an	d Z directions)		
Operating atmo	onhoro	No oily smoke, corrosive gas or combustible gas, less conductive dust,							
Operating atmos	spriere		away fro	om direct sunlig	ht (the same in	storage)			
Operating altitud	de*2			2000m	or less				
Installation local	tion			In contro	l panel*6				
Overvoltage cat	egory*3			Ⅱ or	lower				
Contamination I	evel*4		2 or less						
Cooling method			Self-cooling						
Grounding		Ty	pe D grounding (1	00Ω or less). C	Connect to pane	if unable to gro	und.		

- : The maximum operating ambient temperature should be 5°C lower than that shown in the table on the left when connecting to a multimedia unit (GT16M-MMR), MELSECNET/H communication unit (GT15-J71LP23-25 or GT15-J71BR13) or CC-Link communication unit (GT15-J61BT13).

 *2: Do not operate or store the GOT unit in pressurized environments where
- the pressure exceeds 0m elevation atmospheric pressure, as this could result in abnormal operation.

 Do not pressurize inside the control panel for air purge cleaning. The
- by the substitute inside the surface sheet, making the touch panel difficult to operate or causing the sheet to come off.

 *3: Assuming that the device is connected at some point between a public power distribution network and local system equipment.

 Category □ applies to devices that are supplied with power from fixed equipment. The surge withstand voltage is 2,500V for devices with ratings up to 300V. ratings up to 300V.
- *4: Index that indicates the level of foreign conductive matter in the operating environment of the device. Contamination level 2 denotes an environmen contaminated only by non-conductive matter which may, under certain conditions, become temporarily conductive due to condensation.
- *5: 0 to 40°C for GT1665HS *6: Excluding GT1665HS

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

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

Performance specifications

					Specification										
	Item	GT1695M-XTBA GT1695M-XTBD	GT1685M-STBA GT1685M-STBD	GT1675M-STBA GT1675M-STBD	GT1675M-VTBA GT1675M-VTBD	GT1675-VNBA GT1675-VNBD	GT1672-VNBA GT1672-VNBD	GT1665M-STBA GT1665M-STBD							
	Туре		r TFT color LCD (high-brigh	tness, wide viewing angle		TFT co	olor LCD	TFT color LCD (high-brightness, wide viewing angle)							
	Screen size	15"	12.1"		10.	4 "		8 4"							
-	Resolution	XGA: 1024 × 768 [dots]	SVGA: 800 × 600 [dots]	SVGA: 800 × 600 [dots]	10.	VGA: 640 × 480 [dots]		SVGA: 800 × 600 [dots]							
		304.1(W) × 228.1(H)[mm]	246(W) × 184.5(H)[mm]	5 TUA. 000 X 000 [u0l8]	211(W) × 1			171(W) × 128(H)[mm]							
	. ,	16-dot standard font: 64 chars. × 48 lines (2-byte) 12-dot standard font: 85 chars. × 64 lines (2-byte)	16-dot standard font: 50	chars. × 37 lines (2-byte) chars. × 50 lines (2-byte)	16-dot stand	16-dot standard font: 40 chars. × 30 lines (2-byte) 12-dot standard font: 53 chars. × 40 lines (2-byte)									
	Display colors		65,536	colors		4,096 colors	16 colors	65,536 colors							
	View angle*2	Right/left: 75°, Up: 50°, Down: 60°	Right/left: 80°, Up: 60°, Down: 80°	Right/left/up/down	Right/left: 70°, Up/down: 65° (Function version D or later) Right/left/up/down: 88° (Function version C or earlier)	Right/left: 45°, Up: 30°, Down: 20°		Right/left: 80°, Up: 80°, Down: 60°							
	Intensity	450 [cd/m ²]	470 [cd/m ²]	400 [cd/m ²]	450 [cd/m ²]	200 [cd/m ²]	400 [cd/m ²]							
	Intensity adjustment		8-step ac	djustment		4-step a	djustment	8-step adjustment							
		Approx. 52	2,000 hours	Approx. 43	3,000 hours	Approx. 5	2,000 hours	Approx. 43,000 hours							
	Life		temperature: 25°C)	(operating ambient			temperature: 25°C)	(operating ambient temperature: 25°C)							
Backlight	t		C		ube (replaceable), with bac ff time and screen save tim		tion.								
				, , , , , , , , , , , , , , , , , , ,	Approx. 50,000 hours or me	ore									
	Life*3		Approx. 50,000 nours or more (Time for display intensity reaches 50% at operating ambient temperature of 25°C)												
	Туре		Analog resistive type												
Touch	Key size		Min. 2 x 2 [dots] (per key)												
	No. of simultaneous touch points			Simultan	eous touch prohibited*4 (1										
*10	Life*11				es or more (operating force										
	Detection distance	1	[m]	1,000,000 tim	les of filore (operating force	-									
L	Detection range														
Human	Detection delay time		Right/left/up/down: 70° –												
sensor	,		4 [sec]												
	Detection temperature	Temperature differe between human b													
Memory *5				n flash memory ject data and OS)			flash memory ect data and OS)	15MB built-in flash memory (for saving project data and OS)							
	Life (No. of writings)				100,000 times										
Internal c	clock accuracy				day (operating ambient ten										
					GT15-BAT type lithium batt										
	Backed up data		Clock		tification data, system log		a (500KB)								
	Life				ars (operating ambient tem										
	RS-232* ⁷		Ар	Con plication: Communication (project data read	sion speed: 115200/57600/ nector shape: D-sub 9-pin with connected devices, co /write, OS installation, FA t	(male) onnection to personal con ransparent function)	nputer								
	RS-422/485			nector shape: 14-pin (fem	ission speed: 115200/5760 ale) Application: Commu	unication with connected									
Built-in	Ethernet			Conn Communication with conn	r system: 100BASE-TX, 10 ector shape: RJ-45 (modul nected devices, gateway fu astallation, FA transparent f	lar jack) nction, connection to pers									
interface		Applic	ation: USB mouse/keyboa		2Mbps), host 1ch Conne ory data transfer and storag		2GB, FAT32 format: max	. 32GB* ¹³							
	USB			Connector shape: Mini	8 (full-speed 12Mbps), devi i-B Application: Connect /write, OS installation, FA t	ion to personal computer ransparent function)									
	CF card	Con	nector shape: TYPE I	Application: Data transfer,	Compact flash slot, 1ch data storage, GOT startup		GB, FAT32 format: max.	32GB*13							
		1ch for optional function board installation													
	Optional function board		2ch for communication unit/optional unit installation												
	Optional function board Extension unit*7			2ch for com	nmunication unit/optional u	nit installation	Single tone (tone length adjustable)								
	Extension unit*7														
Buzzer o	Extension unit*7			Sin		table)									
Buzzer o	Extension unit*7	397(W) × 296(H) × 61(D)/mm1	316(W) × 242(H) × 52(D)[mm]	Sin	gle tone (tone length adjus	table)		241(W) × 190(H) × 52(D)/mml							
Buzzer of Protective External	Extension unit*7 utput e construction	397(W) × 296(H) × 61(D)[mm] 383.5(W) × 282.5(H)[mm]		Sin	gle tone (tone length adjus Front: IP67f*6 In panel: IP	table) P2X H) × 49(D)[mm]		241(W) × 190(H) × 52(D)[mm] 227(W) × 176(H)[mm]							
Buzzer of Protective External Panel cut	Extension unit*7 utput e construction dimensions			Sin	gle tone (tone length adjus Front: IP67f*6 In panel: IP 303(W) × 214(F 289(W) × 2	table) 22X H) × 49(D)[mm] 00(H)[mm]	8[kg]								

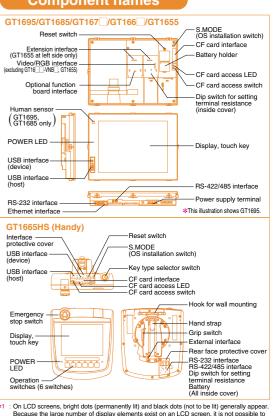
Power supply specifications

	., opoomoun							
				Specif	ication			
Item	GT1695M-XTBA			GT1695M-XTBD			GT1655-VTBD	GT1665HS-VTBD
Input power supply voltage	100	to 240VAC (+10%, -15	5%)		24VDC (+2	25%, -20%)		24VDC (+10%, -15%)
Input frequency		50/60Hz ±5%				-		
Input maximum apparent power	150VA (at max. load)	110VA (at max. load)	100VA (at max. load)			-		
Power consumption	64W or less	46W or less	39W or less	60W or less	40W or less	38W or less	16W or less	11.6W or less
With backlight off	38W or less	32W or less	30W or less	30W or less	26W or less	27W or less	14W or less	8.2W or less
Inrush current		28A or less (4ms, at max. load)		12A or less (75ms, at max. load)	30A or less (2ms, at max. load)			
Permissible instantaneous failure time	With	nin 20ms (100VAC or m	ore)		Within 5ms			
Noise resistance		Itage 1500Vp-p, noise value of the later with noise frequen		by	Noise voltage 1000Vp-p, noise width 1ms by noise simulator with noise frequency 30 to 100Hz			
Withstand voltage	1500VAC for 1 minute	between power supply	terminal and ground		500VDC for 1 minute	between power suppl	y terminal and ground	
Insulation resistance		10ΜΩ	or higher with an insula	ation resistance tester (500VDC between powe	r supply terminal and g	round)	
Applicable wire size				0.75 to 2 [mm ²]				-
Clamp terminal		(Clamp terminals for M3	screw RAV1.25-3, V2-	33.3, V2-N3A, FV2-N3A	4		-
Tightening torque (terminal block's terminal screws)				0.5 to 0.8 [N·m]	-			

Performance specifications

		specificatio					
			Specif	ication			
	Item	GT1665M-VTBA GT1665M-VTBD	GT1662-VNBA GT1662-VNBD	GT1655-VTBD	GT1665HS-VTBD		
	Туре	TFT color LCD (high-brightness, wide viewing angle)	TFT color LCD		lor LCD vide viewing angle)		
	Screen size	8.	4"	5.7"	6.5"		
	Resolution		VGA: 640 >	< 480 [dots]			
	Display size	171(W) × 1		132.5(W) × 99.4(H)[mm]			
	No. of displayed	1	16-dot standard font: 40 chars. x 30 lines (2-				
Display	characters	1:	2-dot standard font: 53	chars. x 40 lines (2-byte	e)		
*1	Display colors	65,536 colors	16 colors	65,536	colors		
	View angle*2	Right/left: 80°, Up: 80°, Down: 60°	Right/left: 45°, Up/Down: 20°	Up/down/right/left: 80°	Right/left: 80°, Up: 60°, Down: 80°		
	Intensity	600 [cd/m ²]	200 [cd/m ²]	350 [cd/m ²]	550 [cd/m ²]		
	Intensity adjustment	8-step adjustment	4-step adjustment	8-step ad	djustment		
	Life	Approx. 43,000 hours (operating ambient temperature: 25°C)		Approx. 50,000 hours (operating ambient temperature: 25°C)	Approx. 41,000 hours (operating ambient temperature: 25°C)		
		Cold-cathode fluorescent tube (r	replaceable), with backlight OFF	LED (not replaceable), wit	th backlight OFF detection		
Backlight	t	detection function. Backlight off tim	e and screen save time can be set.	function. Backlight off and s	creen save time can be set.		
	Life*3	Approx. 50,000 hours or more	Approx. 40,000 hours or more	Approx. 70,000 hours or more	-		
	LITE	(Time for display intensity r	eaches 50% at operating am	nbient temperature of 25°C)	-		
	Туре		Analog resistive type Min. 2 × 2 [dots] (per key)				
ouch anel	Key size						
ianei :10	No. of simultaneous touch points		Simultaneous touch pro	ohibited*4 (1 point only)			
	Life*11	1,00	0,000 times or more (or	perating force 0.98N or l	ess)		
	Detection distance			-			
luman	Detection range						
ensor	Detection delay time		-				
	Detection temperature		-				
	C drive	15MB built-in flash memory	11MB built-in flash memory	15MB built-in	flash memory		
Memory 5	Carive	(for saving project data and OS)					
,	Life (No. of writings)		100,00	0 times			
ntornol o	clock accuracy	3.47 to 8.38		-3.61 to 2.16 secs/day	3.47 to 8.38 secs/day		
nternar	CIOCK accuracy	(operating ambient te	mperature: 25°C)*12	(operating ambient temperature: 25°C)*12	(operating ambient temperature: 25°C)*12		
		GT15-BAT type	lithium battery	GT11-50BAT type lithium battery	GT15-BAT type lithium battery		
Battery	Backed up data	Clock data, maintenand	ce time notification data,	system log data and SF	RAM user area (500KB)		
	Life	App	rox. 5 years (operating	ambient temperature: 2	5°C)		
	RS-232*7	Transmission speed: Conne Application: Co conn (project data read/wi	RS-232, RS-422/485, 1ch, each (When using, select one of the channels.) Transmission speed: 115200/57600/38400/19200/ 9600/4800bps				
	RS-422/485	Conn	RS-422/485, 1ch : 115200/57600/38400/1 : ector shape: 14-pin (fer ommunication with conr	male)	Connector shape: Square, 42-pin (male) Application: Communication with connected devices		
	RS-422/485 Ethernet	Application: Con Data transfer s Connect Application: Co gateway funct (project	: 115200/57600/38400/1 ector shape: 14-pin (fer	male) nected devices 10BASE-T, 1ch ular jack) nected devices, onal computer stallation,	Square, 42-pin (male) Application: Communication		
		Conn Application: Co Data transfer s Connect Application: Co gateway funct (project FA transpare USB (full-speed 12M Application: USB mouse and storage FAT161	: 115200/57600/38400// ector shape: 14-pin (fer pommunication with corn yestem: 100BASE-TX, or shape: RJ-45 (modul mmunication with corn ion, connection to persidata read/write, OS ins nt function, MES interf. bps), host 1ch Conn //keyboard connection, US ormat: max. 2GB, FAT32	male) 10BASE-T, 1ch Ilari jack) nected devices, onal computer tatallation, ace function) ector shape: TYPE-A BB memory data transfer format: max. 32GB \$\pm 13\$	Square, 42-pin (male) Application: Communication with connected devices Data transfer system: 1008ASE-TX, 106ASE-TX, 106		
	Ethernet	Conn Application: Co Data transfer s Connect Application: Co gateway funct (project c FA transpare USB (full-speed 12M Application: USB mouse and storage FAT16 f USB (full-	in 115200/57600/38400/ iector shape: 14-pin (fer pommunication with conr ystem: 100BASE-TX, or shape: RJ-45 (mod, mmunication with conn ion, connection to pers data read/write, OS ins int function, MES interfi- bps), host 1ch Conn ykeyboard connection, US ormat: max. 2GB, FAT32 -speed 12Mbps), device Application: Connection data read/write, OS insti	male) nected devices 10BASE-T, 1ch lari jack) nected devices, onal computer tallation, ace function) ector shape: TYPE-A 8B memory data transfer format: max. 32GB*13 1ch Connector shap to personal computer	Square, 42-pin (male) Application: Communication with connected devices 1008AS-F1X (190AS-F1 tel- Connector shape: Square, 42-pin (male) Application: Communication with connected devices, gateway function, Communication with connected devices, gateway function, Connection to personal computer (project data read/write, OS installation, FA transparent function) USB fluit-genet (201gs), host the Cornector tarsfeered strange FAT18 format: max. 2008*13 Patr ViPFA Application: USB memory data transfeered strange FAT18 format: max. 2008*13 Per: Minni-B function)		
	Ethernet	Conn Application: Co Data transfer s Connect Application: Co gateway functi (project FA transpare USB (full-speed 12M Application: USB mouse and storage FAT161 USB (full- (project of	115200/57600/38400/1 iector shape: 14-pin (ferommunication with connystem: 100BASE-TX, or shape: RJ-45 (modumunication with connon, connection to persatat read/write, OS institunction, MES interfusion, MES inte	male) nected devices 10BASE-T, 1ch Jlar jack) nected devices, onal computer stallation, ace function) ector shape: TYPE-A BB memory data transfer format: max. 32GB*13 1 ch Connector shap to personal computer allation, FA transparent Connector shape: TYPE	Square, 42-pin (male) Application: Communication Application: Communication with connected devices Data transfer system: Commercial transfer system: Square, 42-pin (male) Application: Communication with connected devices, gateway function, Communication with connected devices, gateway function, Growled data and write, OS installation, FA transparent function) Statistical or and write, OS installation, FA transparent function stage Tiffet Application USB memory data transferred drange, FAT16 format max. 208, FAT22 format max. 208, FAT22 format max. 208, FAT22 format max. 208, FAT22 format max. 208, FAT25 format max.		
	Ethernet USB CF card	Conn Application: Co Data transfer s Connect Application: Co gateway functi (project of FA transpare) USB (full-speed 12M Application: USB mouse and storage FAT16 full-speed 12M Corpoper of Corpoper of Application: Data transfer, Service of Corpoper of Corpo	: 115200/57600/38400/1 eetor shape: 14-pin (ferommunication with connystem: 100BASE-TX, or shape: RJ-45 (modumnication with connon, connection to persatat read/write, OS instituction, MES interfups), host 1ch Connykeyboard connection, US ormat: max. 2GB, FAT32 - speed 12Mbps), device Application: Connection data read/write, OS instingact flash slot, 1ch data storage, GOT startup F	male) IDBASE-T, 1ch Ilar jack) Incected devices, Inceted device	Square, 42-pin (male) Application: Communication Application: Communication with connected devices Data transfer system: Commercial transfer system: Square, 42-pin (male) Application: Communication with connected devices, gateway function, Communication with connected devices, gateway function, Growled data and write, OS installation, FA transparent function) Statistical or and write, OS installation, FA transparent function stage Tiffet Application USB memory data transferred drange, FAT16 format max. 208, FAT22 format max. 208, FAT22 format max. 208, FAT22 format max. 208, FAT22 format max. 208, FAT25 format max.		
	Ethernet USB CF card Optional function board	Conn Application: Co Data transfer s Connect Application: Co gateway functi (project of FA transpare) USB (full-speed 12M Application: USB mouse and storage FAT161 USB (full- (project of Corn Application: Data transfer, 1ch for of	115200/57600/38400/1 sector shape: 14-pin (ferommunication with connystem: 100BASE-TX, or shape: RJ-45 (modumunication with connon, connection to persadata read/write, OS institunction, MES interfops), host 1ch Connycepoard connection, US ormat: max. 2GB, FAT32 rspeed 12Mbps), device Application: Connection data read/write, OS instingated final final feromatical final f	male) nected devices 10BASE-T, 1ch later jack) nected devices, onal computer stallation, ace function) ector shape: TYPE-A SB memory data transfer format: max. 32GB \$13 etch Connector shap; to personal computer allation, FA transparent Connector shape: TYPE AT16 format: max. 2GB, FAI stallation 1ch for communication	Square, 42-pin (male) Application: Communication Application: Communication with connected devices Data transfer system: Commercial transfer system: Square, 42-pin (male) Application: Communication with connected devices, gateway function, Communication with connected devices, gateway function, Growled data and write, OS installation, FA transparent function) Statistical or and write, OS installation, FA transparent function stage Tiffet Application USB memory data transferred drange, FAT16 format max. 208, FAT22 format max. 208, FAT22 format max. 208, FAT22 format max. 208, FAT22 format max. 208, FAT25 format max.		
nterface	Ethernet USB CF card Optional function board Extension unit®7	Conn Application: Co Data transfer s Connect Application: Co gateway functi (project of FA transpare) USB (full-speed 12M Application: USB mouse and storage FAT161 USB (full- (project of Corn Application: Data transfer, 1ch for of	115200/57600/38400/1 sector shape: 14-pin (fer permunurication with connystem: 100BASE-TX, or shape: RJ-45 (modumunication with connon, connection to persadat read/write, OS institution, MES interfibps), host 1ch Connystem (Meyboard connection, US format: max. 2GB, FAT32 respeed 12Mbps), device Application: Connection data read/write, OS institutional function board in a personal flash slot, 1ch data storage, GOT startup Fotional function board in ait/optional unit installation	male) IOBASE-T, 1ch Jlar jack) lected devices, onal computer stallation, ace function) ector shape: TYPE-A BB memory data transfer format: max. 32GB*13 et ch Connector shap at opersonal computer allation, FA transparent Connector shape: TYPE AT16 format: max. 2GB, FAI stallation 1ch for communication unit/optional unit installation	Square, 42-pin (male) Application: Communication Application: Communication with connected devices Data transfer system: Commercial transfer system: Square, 42-pin (male) Application: Communication with connected devices, gateway function, Communication with connected devices, gateway function, Growled data and write, OS installation, FA transparent function) Statistical or and write, OS installation, FA transparent function stage Tiffet Application USB memory data transferred drange, FAT16 format max. 208, FAT22 format max. 208, FAT22 format max. 208, FAT22 format max. 208, FAT22 format max. 208, FAT25 format max.		
nterface	Ethernet USB CF card Optional function board Extension unit®7	Conn Application: Co Data transfer s Connect Application: Co gateway functi (project of FA transpare) USB (full-speed 12M Application: USB mouse and storage FAT161 USB (full- (project of Corn Application: Data transfer, 1ch for of	115200/57600/38400/1 sector shape: 14-pin (fer permunurication with connystem: 100BASE-TX, or shape: RJ-45 (modumunication with connon, connection to persadat read/write, OS institution, MES interfibps), host 1ch Connystem (Meyboard connection, US format: max. 2GB, FAT32 respeed 12Mbps), device Application: Connection data read/write, OS institutional function board in a personal flash slot, 1ch data storage, GOT startup Fotional function board in ait/optional unit installation	male) nected devices 10BASE-T, 1ch later jack) nected devices, onal computer stallation, ace function) ector shape: TYPE-A SB memory data transfer format: max. 32GB \$13 etch Connector shap; to personal computer allation, FA transparent Connector shape: TYPE AT16 format: max. 2GB, FAI stallation 1ch for communication	Square, 42-pin (male) Application: Communication with connected devices Data transfer system: 1008ASETX, 106ASET, 106ASET, Connector shape: Square, 42-pin (male) Application: Communication owth connected devices, gateway function, Communication owth connected devices, gateway function, Communication operated installation, FA transparent function) USB (Napes 120App), lost the Connector passa 1764 Application: USB memory data transferrat stransp. 1764 Application: PATI2 format. max. 208, FATI2 format. max. 208 FATI2 format: max. 2088#13 E I 32 format: max. 32GB #13		
Buzzer o	Ethernet USB CF card Optional function board Extension unit®7	Conn Application: Co Data transfer s Connect Application: Co gateway funct (project FA transpare USB (full-speed 12M Application: USB mouse and storage FAT161 USB (full- (project of Cor Application: Data transfer, 1ch for op 2ch for communication und	115200/57600/38400/1 sector shape: 14-pin (fer permunurication with connystem: 100BASE-TX, or shape: RJ-45 (modumunication with connon, connection to persadat read/write, OS institution, MES interfibps), host 1ch Connystem (Meyboard connection, US format: max. 2GB, FAT32 respeed 12Mbps), device Application: Connection data read/write, OS institutional function board in a personal flash slot, 1ch data storage, GOT startup Fotional function board in ait/optional unit installation	male) IOBASE-T, 1ch Jlar jack) nected devices, onal computer stallation, ace function) ector shape: TYPE-A SB memory data transfer format: max. 32GB *13 et ch Connector shap to personal computer allation, FA transparent Connector shape: TYPE AT16 format: max. 2GB, FAI stallation 1ch for communication unit/optional unit installation length adjustable)	Square, 42-pin (male) Application: Communication with connected devices Data transfer eystem: 1008ASETA, 106ASET, 106AS		
Buzzer o Protectiv External	Ethernet USB CF card Optional function board Extension unit®7 output ve construction dimensions	Conn Application: Co Data transfer s Connect Application: Co gateway functi (project of FA transpare) USB (full-speed 12M Application: USB mouse and storage FAT16 full-speed to Corn Application: Data transfer, 1ch for og 2ch for communication und Frot 241(W) × 190(th	: 115200/57600/38400/1 iector shape: 14-pin (ferommunication with connystem: 100BASE-TX, or shape: RJ-45 (modumunication with connon, connection to persatat read/write, OS institution, MES interfolial to the conference of the connection of the conference of the co	male) meted devices iloBASE-T, 1ch ular jack) nected devices, onal computer stallation, ace function) ector shape: TYPE-A 8B memory data transfer format: max. 32GB*13 e 1ch Connector shap to personal computer allation, FA transparent Connector shape: TYPE AT16 format: max. 2GB, FA1 stallation 1ch for communication unitloptional unit installation length adjustable) P2X 267(W) × 135(H) × 60(D)[mm]	Square, 42-pin (male) Application: Communication with connected devices 1008ASE-TX, 109ASE-T, 1ch Connector shape: Square, 42-pin (male) Application: Communication with connected devices, gateway function, Communication with connected devices, gateway function, Connection to personal computer (project data read/write, OS installation, FA transparent function) USB fluit-genet 12flips), host 1ch Cornector translation-for, Fartasparent Square 17FFA Application: USB memory data translatend stransparent function) Et I 32 format: max. 32GB*13		
External Panel cu	Ethernet USB CF card Optional function board Extension unit*7 output	Conn Application: Co Data transfer's Connect Application: Co gateway funct (project FA transpare USB (full-speed 12M Application: USB mouse and storage FAT16 f USB (full- (project of Cor Application: Data transfer, 1ch for og 2ch for communication un	: 115200/57600/38400/1 iector shape: 14-pin (ferommunication with connystem: 100BASE-TX, or shape: RJ-45 (modumunication with connon, connection to persatat read/write, OS institution, MES interfolial to the conference of the connection of the conference of the co	male) male) males meeted devices 10BASE-T, 1ch plar jack) meeted devices, onal computer stallation, ace function) ector shape: TYPE-A B memory data transfer format: max. 32GB*13 1ch Connector shap to personal computer allation, FA transparent Connector shape: TYPF AT16 format: max. 2GB, FA1 stallation 1ch for communication unit/optional unit installation length adjustable)	Square, 42-pin (male) Application: Communication with connected devices 1008ASE-TX, 109ASE-T, 1ch Connector shape: Square, 42-pin (male) Application: Communication with connected devices, gateway function, Communication with connected devices, gateway function, Connection to personal computer (project data read/write, OS restalation, FA transparent function) USS fluf-speet 28/lips), host the Cornector transparent Square, 1008 memory data transparent Square, 1008 FATIZ format: max. 2008/913 Per. Minni-B function) E I 32 format: max. 32GB*13		

Component names



- switches (6 switches)

 81: On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear. Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero.

 Note that the existence of bright and black dots to zero.

 Note that the existence of bright and black dots to zero.

 Note that the existence of bright and black dots to zero.

 Note that the existence of bright and black dots is a standard characteristic of LCD screens, and it does not mean that the products are defective or damaged.

 *22: LCD panels have characteristics of tone reversal. Note that even within the indicated view angles, the screen display may not be clear enough depending on the display color.

 *33: Using the GOT screen savehacklight Off- functions prevents screen burnian and extends backlight life.

 *44: An analog resistive touch display is used. When 2 points on the screen are touched simultaneously, if a switch is located the middled of the 2 points then the switch will be activated. Therefore, avoid touching 2 points on the screen simultaneously.

 *55: The memory is ROM that permits overwriting of new data without having to delete the existing data.

 *66: With the USB environmentally protective cover is on, pressing firmly the portion marked "∆" makes it conform to IP571. (The USB interface conforms to IP52 when a USB cable or a USB memory is connected.) However, this does not guarantee protection in all users' environments. The unit may not be used in an environment where it is exposed to splashing oil or chemicals for a long time or it is soaked with oil mist.

 *70: Where more than one extension unit, barcode reader, and RFID controller are used, the sum of their current level which the GOT can supply, see "Notes for use" (page 81).

 *71: Where more than one extension unit, barcode reader, and RFID controller consume and the current level which the GOT can supply, see "Notes for use" (page 81).

 *72: Where more than one ex

GT15

General specifications

Iter				Specif					
Operating ambient	Display			0°C to	50°C				
temperature*1	Other than display			0°C to	55°C				
Storage ambien	t temperature			-20°C t	to 60°C				
Operating ambie	ent humidity*2			10 to 90%RH, r	no condensation				
Storage ambien	t humidity*2	10 to 90%RH, no condensation							
				Frequency	Acceleration	Half amplitude	Sweep count		
		to IIS B 35021	Under intermittent	5 to 8.4Hz	-	3.5mm	10 times each in X,		
Vibration resistance*3		and 3502	vibration	8.4 to 150Hz	9.8m/s ²	_	Y and Z directions		
		IEC 61131-2	Under continuous	5 to 8.4Hz	_	1.75mm			
			vibration	8.4 to 150Hz	4.9m/s ²	-			
Impact resistance	ce	Conforming to JIS B 3502 and IEC 61131-2 (147m/s ² , 3 times each in X, Y and Z directions)							
O		No oily smoke, corrosive gas or combustible gas, less conductive dust,							
Operating atmos	spriere		away fro	om direct sunlig	ht (the same in	storage)			
Operating altitud	de*4		2000m or less						
Installation local	tion			In contr	ol panel				
Overvoltage cat	egory*5			Ⅱ or l	lower				
Contamination I	evel*6	2 or less							
Cooling method		Self-cooling							
Grounding		Ty	pe D grounding (1	00Ω or less). C	Connect to pane	l if unable to gro	und.		

- *1 : The maximum operating ambient temperature should be 5°C lower than that shown in the table on the left when connecting to a MELSECNET/H communication unit (GT15-J511P23-25 or GT15-J71P313) or CC-Link communication unit (GT15-J518T13).

 *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 (GT15-75J71B17-23-Z or GT15-75J71B1-32-Z) or CC-Link communication unit (GT15-75J61B173-2). (The specifications of communication units are different from those of the GOT main unit.)

 *4 · Do not operate or store the GOT unit in pressurized environments where the pressure exceeds 0m elevation atmospheric pressure, as this could result in abnormal operation.

 Do not pressurize inside the control panel for air purge cleaning. The pressure could raise the surface sheet, making the touch panel difficult to operate or causing the sheet to come off.

 *5 : Assuming that the device is connected at some point between a public power distribution network and local system equipment.

 Category II applies to device is connected at some point between a public power distribution network and local system equipment.

 The surge withstand voltage is 2.500V for devices with ratings up to 300V.

 *6 : Index that indicates the level of foreign conductive matter in the operating environment of the device.

 Contamination level 2 denotes an environment contaminated only by non-conductive matter which may, under certain conditions, become temporarily conductive due to condensation.

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

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

Performance specifications

		оросинови.	<u> </u>							
					Specif	ication				
	Item	GT1595-XTBA GT1595-XTBD	GT1585V-STBA GT1585V-STBD GT1585-STBA GT1585-STBD	GT1575V-STBA GT1575V-STBD GT1575-STBA GT1575-STBD	GT1575-VTBA GT1575-VTBD	GT1575-VNBA GT1575-VNBD	GT1572-VNBA GT1572-VNBD	GT1565-VTBA GT1565-VTBD	GT1562-VNBA GT1562-VNBD	
	Туре		Γ color LCD (high-brigh	tness, wide viewing an		TFT col	lor LCD	(high-brightness, wide viewing angle)	TFT color LCD	
	Screen size	15"	12.1"	12.1" 10.4"				8.	4"	
	Resolution	XGA: 1024 × 768 [dots]	SVGA: 800	SVGA: 800 × 600 [dots] VGA: 640 × 480						
	Display size	304.1(W) × 228.1(H) [mm]	246(W) × 184.5(H) [mm]		211(W) × 1	58(H) [mm]		171(W) × 1	28(H) [mm]	
	No. of displayed characters	16-dot standard font: 64 chars. × 48 lines (2-byte) 12-dot standard font: 85 chars. × 64 lines (2-byte)	16-dot star 50 chars. × 37 12-dot star 66 chars. × 50	lines (2-byte) dard font:	16-dot standard font: 40 chars. × 30 lines (2-byte) 12-dot standard font: 53 chars. × 40 lines (2-byte)					
	Display colors		65.536	colors		256 colors	16 colors	65,536 colors	16 colors	
Display *1	View angle*3	GT1585V Right/left: 75°, Right/left: 60°, Right/left/lu			Right/left: 45°, Up: 30°, Down: 20°		Right/left: 65°, Up: 50°, Down: 60°	Right/left: 45°, Up: 20°, Down: 20°		
	Contrast adjustment					-				
	Intensity	450 [cd/m ²]	GT1585V: 350 [cd/m ²] GT1585: 400 [cd/m ²]	400 [cd/m ²]	380 [cd/m ²]	200 [c	cd/m ²]	380 [cd/m ²]	150 [cd/m ²]	
	Intensity adjustment		8-step ac	ljustment	•	4-step ac	ljustment	8-step adjustment	4-step adjustment	
	Life	Approx. 52,000 hours (operating ambient temperature: 25°C)		,000 hours			Approx. 41,000 hours g ambient temperatur			
Backligh	t		Cold-cathode fluorescent tube (replaceable), with backlight OFF detection function. Backlight off time and screen save time can be set.							
J			0 hours or more	(op.a.coa.co,,	gg	Approx. 40,000	-		<u> </u>	
	Life*4	Арргох. 30,00	o nours or more	/Time for display in	ntensity reaches 50% a					
	-	A		(Tillie for display ii		<u> </u>	ilperature of 25 G)			
	Туре	Analog resistive type			Matrix res					
	No. of touch keys	-	1900 keys/screen (38	3 lines × 50 columns)		1200 keys	/screen (30 lines × 40	columns)		
Touch panel	Key size	Min. 2 x 2 [dots] (per key)	Min. 16 x (per key) (16 x 8 onl				Min. 16 × 16 [dots] (per key)			
*9	No. of simultaneous touch points	Simultaneous touch prohibited*5 (1 point only)			Max. 2 points					
	Life	, , , , ,		1 000 0	000 times or more (ope	erating force 0.98N or le	ess)*10			
	Detection distance	1	[m]	1,000,	occ amore (ope		-			
	Detection range		p/down: 70°							
Human			•							
sensor	Detection delay time		1 [sec]			-	-			
	Detection temperature		nce to be 4°C or more ody and ambient air			-	-			
Memory *6	C drive		9MB built-in t (for saving proje	flash memory ect data and OS)		5MB built-in f (for saving proje		9MB built-in flash memory (for saving project data and OS)	5MB built-in flash memory (for saving projectdata and OS)	
	Life (No. of writings)				100,00	0 times			·	
					GT15-BAT type lithi	um battery (optional)				
Battery	Backed up data			Cl	ock data and maintena		ata			
Dallery	Life				ox. 5 years (operating					
	RS-232*8	Applica	tion: Communication w	RS-232, 1ch Tr	ransmission speed: 11: Connector shape:	5200/57600/38400/192 D-sub 9-pin (male)	00/9600/4800bps	llation, FA transparent	function)	
Built-in interface	USB		Connector shape: Mini-		USB (full-speed 12	Mbps), device 1ch				
toriace	CF card	Compact flash			plication: Data transfer			max. 2GB, FAT32 form		
	Optional function board	Compact nasi	TSIOL, TOTT COTTRECTO	i siiape. I II L I Ap			artup TATTO IOTIIIat.	11lax. 20D, 1 A152 1011	nat. not usable	
	· ·					tion board installation				
	Extension unit*8			201	n for communication ur		ion			
Buzzer o	output				Single tone (tone					
Protectiv	e construction				Front: IP67f*7	In panel: IP2X				
	dimensions USB port cover)	397(W) × 296(H) × 61(D) [mm	316(W) ×242(H) ×52(D) [mm]		303(W) × 214(I	H) × 49(D) [mm]		241(W) × 190(I	H) × 52(D) [mm]	
Panel cu	ıt dimensions	383.5(W) × 282.5(H) [mm]	302(W) × 228(H) [mm]		289(W) × 2	00(H) [mm]		227(W) × 1	76(H) [mm]	
Weight	ounting brackets)	5.0 [kg]	2.8 [kg]	GT1575V: 2.3 [kg] GT1575: 2.4 [kg]	2.4 [kg]	2.3	[kg]		[kg]	
		 	-		07111 1 0 11					

GT Works3 Version1.31H or later

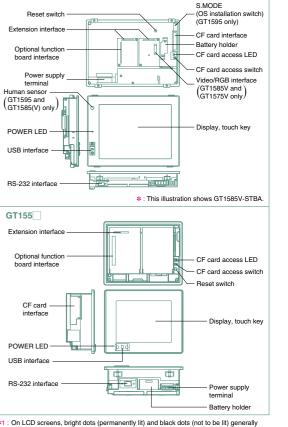
Power supply specifications

					Sp <u>ecif</u>	ication					
Item	GT1595-XTBA	GT1585V-STBA GT1585-STBA	GT1575V-STBA GT1575-STBA GT1575-VTBA GT1575-VNBA GT1572-VNBA GT1565-VTBA GT1562-VNBA	GT1595-XTBD	GT1585V-STBD GT1585-STBD	GT1575V-STBD GT1575-STBD GT1575-VTBD GT1575-VNBD GT1572-VNBD GT1565-VTBD GT1562-VNBD	GT1555-VTBD	GT1555-QTBD	GT1555-QSBD	GT1550-QLBD	
Input power supply voltage	100 to	100 to 240VAC (+10%, -15%)			24VDC (+25%, -20%)						
Input frequency		50/60Hz ±5%					-				
Input maximum apparent power	1	10VA (at max. load	d)				-				
Power consumption	56W or less	41W or less	39W or less	57W or less (2380mA/24VDC)	43W or less (1790mA/24VDC)	41W or less (1710mA/24VDC)	19W or less (790mA/24VDC)	18W or less (750mA/24VDC)	17W or less (710mA/24VDC)	15W or less (620mA/24VDC	
With backlight off	30W or less	28W or less	28W or less	32W or less (1330mA/24VDC)	30W or less (1250mA/24VDC)	30W or less (1250mA/24VDC)	14W or less (580mA/24VDC)	13W or less (540mA/24VDC)			
Inrush current	50A or less (4ms, at max. load)	45A or less (4ms, at max. load)	40A or less (4ms, at max. load)	100A or less (4ms, at max. load)	115A or less (1ms, at max. load)	115A or less (1ms, at max. load)	67A or less (1ms, at max. load)		60A or less (1ms, at max. load)	
Permissible instantaneous failure time	Within	20ms (100VAC or	more)	Within 10ms							
Noise resistance		age 1500Vp-p, noise tor with noise frequ		Noise voltage 500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz							
Withstand voltage		500VAC for 1 minu wer supply terminal		500VDC for 1 minute between power supply terminal and ground							
Insulation resistance			10MΩ or highe	r with an insulation	resistance tester	500VDC between	power supply term	inal and ground)			
Applicable wire size					0.75 to	2 [mm ²]					
Clamp terminal				Clamp terminals	for M3 screw RAV	/1.25-3, V2-S3.3, V	/2-N3A, FV2-N3A				
Tightening torque (terminal block's terminal screws)		-	-		0.5 to 0).8 [N·m]					

Performance specifications

			Specif	ication		
	Item	GT1555-VTBD	GT1555-QTBD	GT1555-QSBD	GT1550-QLBD	GT1595/GT1585/GT157 /GT156
	Туре		lor LCD vide viewing angle)	STN color LCD	STN monochrome (black/white) LCD	Reset switch
	Screen size		5.	.7"		Extension interface
	Resolution	VGA: 640 × 480 [dots]	(QVGA: 320 × 240 [dot	s]	
	Display size		115(W) × 8	86(H) [mm]		Optional function —
		16-dot standard font:				board interface
	No. of displayed	40 chars. × 30 lines (2-byte)	16-dot stands	5 lines (2-byte)	Power supply	
	characters	12-dot standard font:		ard font: 26 chars. × 20		terminal
Display		53 chars. × 40 lines (2-byte)				Human sensor
*1 *2						(GT1595 and GT1585(V) only)
	Display colors	65,536		4,096 colors	Monochrome 16 gray scale	(3.1335(1,133),
	View engle*3	Right/left: 80°, Up: 80°,	Right/left: 70°, Up: 70°,	Right/left: 55°, Up: 65°,	Right/left: 45°, Up: 20°,	POWER LED — — —
	View angle*3	Down: 70°	Down: 50°	Down: 70°	Down: 40°	POWER LED
	Contrast adjustment		-		adjustment	USB interface
	Intensity	350 [cd/m ²]	400 [cd/m ²]	380 [cd/m ²]	220 [cd/m ²]	
	Intensity adjustment			djustment		
				0,000 hours		RS-232 interface
	Life			temperature: 25°C)		
		Cold-cathode fluores	cent tube (not replace		FF detection function	*:
Backligh	nt		cklight off time and scr			GT155
			rox. 75,000 hours or n		Approx. 58,000 hours or more	
	Life*4		ntensity reaches 50% a		emperature of 25°C)	Extension interface
	Туре	(sistive type	<u> </u>	
	No. of touch	1200 keys/screen		300 keys/screen		Optional function
	keys	(30 lines × 40 columns)		(15 lines × 20 columns	s)	board interface
Touch			Min. 16 ×	16 [dots]	·	
panel	Key size			key)		
*9	No. of simultaneous					CF card
	touch points		Max. 2	2 points		interface
	Life	1,000	0,000 times or more (or	perating force 0.98N o	r less)	
	Detection distance			-	,	
	Detection range			_		POWER LED bild
Human	Detection delay time			_		
Selisoi	Detection			_		USB interface
	temperature		•	_		
	0 444.4		9MB built-in	flash memory		RS-232 interface
Memory	C drive			ect data and OS)		
40	Life (No. of writings)		100,00	0 times		
			**	um battery (optional)		*1 : On LCD screens, bright dots (permanently lit)
Battery	Backed up data		ock data and maintena			appear.
	Life	Appro	ox. 5 years (operating	ambient temperature:	25°C)	Because the large number of display elements possible to reduce appearance of the bright ar
		RS-232, 1ch Ti	ransmission speed: 11		200/9600/4800bps	Note that the existence of bright and black dot
	RS-232*8	Application: Comm.	Connector shape: nication with connecte	D-sub 9-pin (male)	to nereonal computer	screens, and it does not mean that the product \$2 : Flickering may occur depending on the display
			ata read/write, OS inst			*3 : LC panels have characteristics of tone reversa
			speed 12Mbps), device			angles, the screen display may not be clear er *4 : Using the GOT screen save/backlight OFF fun
Built-in	USB		Application: Connectio			extends the backlight life.
interface		(project d	ata read/write, OS inst	allation, FA transparer	nt function)	*5 : An analog resistive touch display is used. Whe simultaneously, if a switch is located the middl
	CF card	Co	mpact flash slot, 1ch	Connector shape: T	/PE I	activated. Therefore, avoid touching 2 points of
		Application: Data transfer,	data storage, GOT startup	*6: The memory is ROM that permits overwriting of existing data.		
	Optional function board		1ch for optional func	tion board installation		*7 : IP67f is supported when the USB environment
	Extension unit*8	1ch	n for communication ur	interface conforms to IP2X when a USB cable guarantee protection in all users' environments		
Buzzer			Single tone (tone	The unit may not be used in an environment w		
	ve construction		Front: IP67f*7	In panel: IP2X		chemicals for a long time or it is soaked with o *8: Where more than one extension unit, barcode
	dimensions		167(W) × 135(H	H) × 60(D) [mm]		the sum of their current consumptions should to
•	USB port cover)					GOT can supply. For the currents which the ex RFID controller consume and the current level
Panel cu	ut dimensions		153(W) × 1	21(H) [mm]		see "Notes for use" (page 81).
Weight			1.1	[kg]		 *9 : If necessary, use a stylus pen meeting the followaterial: Polyacetal resin • Pen point radius
-	ounting brackets)					*10:When using a stylus pen with GT1595-XTB.
Applicable	e software package		GT Works3 Vers	sion1.31H or later		(operating force 0.98N max.). Since the touch
						structurally, it may not be used even fewer tha

Component names



- B1: On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear.

 Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero.

 Note that the existence of bright and black dots is a standard characteristic of LCD screens, and it does not mean that the products are defective or damaged.

 22: Flickering may occur depending on the display colors.

 33: 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 colors.

 34: Using the GOT screen save/backlight OFF functions prevents screen burn-in and extends the backlight life.

 54: 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.

 56: The memory is ROM that permits overwriting of new data without having to delete the existing data.

 57: IP67f is supported when the USB environmentally protective cover is on. (The USB interface conforms to IP2X when a USB cable is connected.) However, this does not guarantee protection in all users' environments.

 The unit may not be used in an environment where it is exposed to splashing oil or chemicals for a long time or it is soaked with oil mist.

 88: Where more than one extension unit, barcode reader, and RFID controller are used, the sum of their current consumptions should be within the current level which the GOT can supply, For the currents which the extension units, barcode reader, and RFID controller consume and the current level which the GOT can supply, see "Notes for use" (page 81).

 9: If necessary, use a stylus pen meeting the following specifications.

 9: Notes for use' (page 81).

 9: If necessary, use a stylus pen meeting the following specifications.

 10: When using a stylus pen with GT1505-XTBI

54

Applicable software package

GT12

General specifications

Iter	n			Specif	ication				
Operating ambient	Display			0°C to	50°C				
temperature	Other than display			0°C to	55°C				
Storage ambien	t temperature			-20°C t	to 60°C				
Operating ambie	ent humidity			10 to 90%RH, r	no condensation	l			
Storage ambien	t humidity			10 to 90%RH, r	no condensation	l			
				Frequency	Acceleration	Half amplitude	Sweep count		
		Conforming	Under intermittent	5 to 8.4Hz	-	3.5mm	10 times each in X,		
Vibration resista	ınce	to JIS B 3502 vibration	vibration	8.4 to 150Hz	9.8m/s ²	_	Y and Z directions		
		IEC 61131-2	Under continuous	5 to 8.4Hz	-	1.75mm			
			vibration	8.4 to 150Hz	4.9m/s ²	_	_		
Impact resistance	се	Conforming	to JIS B 3502 and	IEC 61131-2 (1	47m/s ² , 3 times	each in X, Y an	d Z directions)		
Operating atmos	sphere	No oily smoke, c	orrosive gas or combus	stible gas, less cond	luctive dust, away fr	om direct sunlight (t	he same in storage)		
Operating altitud	de*1			2,000m	or lower				
Installation local	tion			In contr	ol panel				
Overvoltage cat	egory*2			Ⅱ or l	lower				
Contamination I	evel*3		2 or less						
Cooling method			Self-cooling Self-cooling						
Grounding		Ty	pe D grounding (1	100Ω or less). C	Connect to pane	I if unable to gro	und.		

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

Do not use or sto with excessively h	re the GOT under direct sun light or in an environment nigh temperature, dust, humidity or vibration.
	ing to products which conform to UL, cUL, and CE

Performance specifications

		Specifi	cation							
	Item	GT1275-VNBA	GT1265-VNBA							
		GT1275-VNBD	GT1265-VNBD							
	Туре	TFT col	or LCD							
	Screen size	10.4"	8.4"							
İ	Resolution	VGA: 640 ×	480 [dots]							
İ	Display size	211.2(W) × 158.4(H) [mm] 170.9(W) × 128.2(H) [mm]								
	No. of displayed	16-dot standard font: 40 chars. x 30 lines (2-byte)								
Display	characters	12-dot standard font: 53 of	hars. × 40 lines (2-byte)							
. [Display colors	256 c	olors							
	View angle*2	Right/left: 45°, Up/down: 20°								
	Intensity	200 [cd/m²]								
	Intensity adjustment	4-step ad	justment							
	Life	Approx. 52,000 hours (operating	g ambient temperature: 25°C)							
acklight	it	Cold-cathode fluorescent tub	e (replaceable), 1CCFL light							
	Life*3	50,000 hours or more (at standard lamp current = 6.0 [mA])	40,000 hours or more (at standard lamp current = 7.0 [mA])							
	Life	(Time for display intensity reaches 50% at	t operating ambient temperature of 25°C)							
	Туре	Analog resistive type								
ouch	Key size	Min. 2 × 2 [dots] (per key)								
oucn anel	No. of simultaneous	Simultaneous touch prohibited ⁶⁴ (1 point only)								
7	touch points									
	Life*8	1,000,000 times or more (op	erating force 0.98N or less)							
	Detection distance	-	•							
uman	Detection range	<u> </u>	•							
ensor	Detection delay time	<u> </u>	•							
	Detection temperature	-	•							
/lemory	C drive	6MB built-in flash memory (for	0. 7							
:5	Life (No. of writings)	100,000								
. r		GT11-50BAT type lithium battery (optional)								
attery	Backed up data	Clock data, alarm history, and recipe data								
	Life	Approx. 5 years (operating a								
	RS-232*6	RS-232, 1ch Transmission speed: 115								
	HS-232**	Connector shape: D-sub 9-pin (male) Application: Communication with connected devices, connection to personal computer (project data read/write, OS installation, FA transparent function)								
-										
	RS-422/485	RS-422/485, 1ch Transmission speed: 1 Connector shape: D	15200/57600/38400/19200/9600/4800bps							
	N3-422/403	Application: Communication								
Built-in		Data transfer system: 100BASE-TX, 1ch	Connector change D L 45 (modular isoly)							
nterface	Ethernet	Application: Communication with connected devices, connection to pers								
-		USB (Full Speed 12 Mbps), device								
	USB	Application: Connection to personal computer (project d								
	CF card		data storage, GOT startup FAT16 format: max. 2GB, FAT32 format: not usable							
	Optional function board									
	Extension unit*6									
		Single tone (tone I	ength adjustable)							
Buzzer o		Single tone (tone IP6								
Buzzer o Protectiv	output									
Buzzer o Protectiv External	output ve construction	IP6	i7f							
Buzzer o Protectiv External Panel cu	output ve construction dimensions	303(W) × 214(H) × 53(D)	77f 241(W) × 190(H) × 58(D)							

- *1: On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear. Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero. Note that the existence of bright and black dots is a standard characteristic of LCD screens, and it does not mean that the products are defective or damaged.

 *2: LCD panels have characteristics of tone reversal. Note that even within the indicated view angles, the screen display may not be clear enough depending on the display color.

 *3: Using the GOT screens asverbacklight OFF functions prevents screen burn-in and extends the backlight life.

 *4: An analog resistive touch display is used. When 2 points on the screen are touched simultaneously, if a switch is located the middle of the 2 points then the switch will be activated. Therefore, avoid touching 2 points on the screen simultaneously.

- 341 : 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. Ther screen simultaneously.
 \$5 : The memory is a ROM that permits overwriting of new data without having to delete the existing data.
 \$6 : Where more than one extension unit, barcode reader, and RFID controller are used, the sum of their current consumptions should be within the current level which the GOT can supply. For the currents which the extension units, barcode reader, and RFID controller consume and the current level which the GOT can supply, see "Notes for use" (page 81).
 \$7 : If necessary, use a stylus pen meeting the following specifications.
 Material: Polyacetal resin * Pen point radius: 0.8mm or more
 \$8 : When using a stylus pen; nit will be 100,000 times or more (operating force 0.98N max.).
 Since the touch panel is a consumable product structurally, it may not be used even fewer than above, depending on the usage method and environment.

56

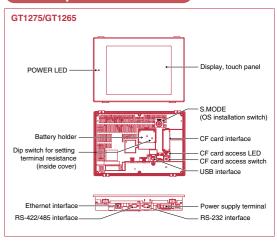
Power supply specifications

14	Specif	ication	
Item	GT1265/75-VNBA	GT1265/75-VNBD	
Input power supply voltage	100 to 240VAC (+10%, -15%)	24VDC (+25%, -20%)	
Input frequency	50/60Hz ±5%	-	
Input maximum apparent power	44VA (at max. load)	-	
Power consumption	18W or less	11W or less	
With backlight off	15W or less	6W or less	
Inrush current	40A or less (4ms, at max. load)	29A or less (2ms, at max. load)	
Permissible instantaneous failure time	Within 20ms (100VAC or more)	Within 10ms	
Noise resistance	Noise voltage 1500Vp-p, noise width 1 μs by noise simulator with noise frequency 25 to 60Hz	Noise voltage 500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60H	
Withstand voltage*1	1500VAC for 1 minute between power supply terminal and ground	500VDC for 1 minute between power supply terminal and ground	
Insulation resistance*1	10M $Ω$ 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 RAV	1.25-3, V2-S3.3, V2-N3A, FV2-N3A	
Tightening torque (terminal block's terminal screws)	0.5 to 0	.8 [N·m]	

*1: In DC type products, the surge absorber is connected between the power supply and the ground to avoid a malfunction due to noise caused by the application of lightning surge.

The values of the dielectric withstand voltage and insulation resistance are recorded when the surge absorber is not

Component names



iQ Platform

GT11 GT10

General specifications

Iten				Specif	ication						
Operating ambient	Display			0°C to	50°C*5						
temperature	Other than display		0°C to 55°C (horizontal installation), 0°C to 50°C (vertical installation)*5								
Storage ambient	emperature			-20°C t	to 60°C						
Operating ambier	t humidity*1			10 to 90%RH, r	no condensation						
Storage ambient I	numidity*1			10 to 90%RH, r	no condensation						
				Frequency	Acceleration	Half amplitude	Sweep count				
		Conforming	Under intermittent	5 to 8.4Hz	-	3.5mm	10 times each in X				
Vibration resistance		to JIS B 3502 vibration	8.4 to 150Hz	9.8m/s ²	-	Y and Z directions					
		IEC 61131-2 Under continuous		5 to 8.4Hz	-	1.75mm					
			vibration	8.4 to 150Hz	4.9m/s ²	-	_				
Impact resistance		Conforming to JIS B 3502 and IEC 61131-2 (147m/s², 3 times each in X, Y and Z directions)									
Operating atmosp	here	Free from oil mist, corrosive gases, flammable gases and excessive conductive dusts or direct sun beams (The same applies to unit storage.)									
Operating altitude	*2	2000m or less									
Installation location	n			In contro	l panel*6						
Overvoltage cate	gory*3			II or I	ower						
Contamination lev	rel*4	2 or less									
Cooling method				Self-co	ooling						
Grounding Type D grounding (100Ω or less). Connect to panel if unable to ground.*7							* 7				

- *1 : Water bulb temperature for STN display type must be 39°C or lower. *2 : Do not operate or store the GOT unit in pressurized environments where the pressure exceeds 0m elevation atmospheric pressure, as this could result in abnormal operation.
- fixed equipment. The surge withstand voltage is 2500V for devices with ratings up to 300V.

 44: Index that indicates the level of foreign conductive matter in the
- operating environment of the device. Contamination level 2 denotes contamination by non-conductive matter only, though momentary conductivity may occur due to occasional
- condensation.

 *5: 0 to 40°C for GT115

 HS
- *6 : Excluding GT115_HS *7 : The 5VDC type requires no grounding.
- Do not use or store the GOT under direct sun light or in an environment with excessively high temperature, dust, humidity or vibration.
- For inquiries relating to products which conform to UL, cUL, and $\ensuremath{\mathsf{CE}}$ directives and shipping directives, please contact your local sales office.

Performance specifications

58

	_				Specif	ication							
	Itom				1								
	Item	GT1155-QTBD	GT1155-QSBD	GT1150-QLBD	GT1155-QTBDQ GT1155-QTBDA	GT1155-QSBDQ GT1155-QSBDA	GT1150-QLBDQ GT1150-QLBDA	GT1155HS-QSBD	GT1150HS-QLBD				
	Туре	TFT color LCD	STN color LCD	STN monochrome (black/white) LCD	TFT color LCD	STN color LCD	STN monochrome (black/white) LCD	STN color LCD	STN monochrome (black/white) LCD				
	Screen size				5.7"								
	Resolution				QVGA: 320	× 240 [dots]							
	Display size	115(W) × 86(H) [mm] (in horizontal	display mode)	115(W) × 86(H) [mm] (in horizontal	display mode)	115(W) × 8	36(H) [mm]				
	No. of displayed characters		16-dot standard font:	20 chars. x 15 lines (2									
	Display colors	256	colors	Monochrome (black/white) 16 gray scale	256	colors	olors Monochrome (black/white) 16 gray scale		Monochrome (black/white) 16 gray scale				
Display *1	View angle Right/left: 70°, Up: 70°, Down: 50° (in horizontal display mode)		Right/left: 50°, Up: 50°, Down: 60' (Hardware versions A and B) (In horizontal display mode) Right/left: 55°, Up: 65°, Down: 70' (Hardware version C or later) (In horizontal display mode)	Right/left: 45°, Up: 20°, Down: 40°	o°, Down: 40° Up: 70°, Down: 50° horizontal (in horizontal		Right/left: 45°, Up: 20°, Down: 40° (in horizontal display mode)	Right/left: 50°, Up: 50°, Down: 60° (Hardware versions A and B) Right/left: 55°, Up: 65°, Down: 70° (Hardware version C or later)	Right/left: 45°, Up: 20°, Down: 40°				
	Contrast adjustment	-	16-step a	djustment	-		16-step a	djustment					
	Intensity	400 [cd/m ²]	• 350 [cd/m²] (Hardware versions A and B) • 380 [cd/m²] (Hardware version C or later)	220 [cd/m²]	400 [cd/m²]	380 [cd/m²]	220 [cd/m²]	• 350 [cd/m²] (Hardware versions A and B) • 380 [cd/m²] (Hardware version C or later)	220 [cd/m²]				
	Intensity adjustment		•	•	8-step ad	djustment							
	Life			Approx.	50,000 hours (operation		re: 25°C)						
Backlight		Col	d-cathode fluorescent	tube (not replaceable)		· · · · · · · · · · · · · · · · · · ·		reen save time can be	set.				
J	Life*2		0 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					
	Туре	(Time for display intensity reaches 50% at operating ambient temperature of 25°C) Matrix resistive type											
	No. of touch keys	Matrix resistive type											
Touch	Key size	300 keys/screen (matrix consisting of 15 lines x 20 columns) Min. 16 x 16 [dots] (per key)											
panel	No. of simultaneous touch points				Max. 2								
	Life			1 000	,000 times or more (or		r loco)						
	C drive*3												
Memory				SIVID DI	uilt-in flash memory (fo 100,000		aria OS)						
Wichiory	Life (No. of writings) D drive					AM (battery backup)							
	Durive					pe lithium battery							
Battery	Backed up data			Clock de	ata, alarm history, reci		at values						
Danory	Life				deline approx. 5 years								
				r topiacomont gan		mode)/motion controlle							
	Bus		-			CPU/motion controller tion: For bus connection			-				
	RS-422/485	Connec Applica Terminal	RS-422/485, 1ch : 115200/57600/38400/ tor shape: D-sub 9-pin tion: Communication w resistance*5: OPEN/11 y terminal resistance tra	(female) ith PLCs I0Ω/330Ω	-			-					
Built-in interface	RS-422/232		-			-	RS-422/232, 1ch (Select one when using.) Transmission speed: 115200/ 57600/38400/19200/9600/4800bps Connector shape: Round type, 32-pin (male)						
	RS-232	Conne Application: Co conn	RS-232, 1ch : 115200/57600/38400/ ctor shape: D-sub 9-pir ommunication with con nection to personal come, OS installation, FA tra	n (male) nected devices, nputer	RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (male) Application: Connection to barcode reader/personal computer (project data read/write, OS installation, FA transparent function, etc.)			RS-232, 1ch, Transm 57600/38400/192 Connector shape: Mi Application: Connectio (project data read/w	on with connected devices ission speed: 115200/ 200/9600/4800bps ini-DIN 6-pin (female) n to personal computer vrite, OS installation, t function, etc.)				
	USB	.,			speed 12Mbps), device	e 1ch Connector sha	pe: Mini-B						
	CF card	Compact flas		or shape: TYPE I Ap					at: not usable				
	Optional function board					in main unit							
Buzzer o	•					length adjustable)							
	e construction*4	Fr	ont: IP67f In panel: IP	22X		ont: IP67f In panel: IP	2X		65f tion cable is connected)				
	dimensions USB port cover)	164	I(W) × 135(H) × 56(D) [[mm]	167	167(W) × 135(H) × 65(D) [mm]			H) × 93(D) [mm]				
	t dimensions		153(W) × 121(H) [mm]	1		153(W) × 121(H) [mm]	1						
Weight		0.7 [kg] (excl. mounting brai		0.9 [kg] (excl. mounting bra		1.0 [kg] (ma	ain unit only)				
	software package					sion1.31H or later							
-F1000010	Fasilago				G VEIG								

Power supply specifications

					Sį	pecification			
Item	GT1155-QTBD GT1155-QSBD GT1155HS-QSBD	GT1150-QLBD GT1150HS-QLBD	GT1155-QTBDQ GT1155-QTBDA	GT1155-QSBDQ GT1155-QSBDA	GT1150-QLBDQ GT1150-QLBDA	GT1055-QSBD	GT1050-QBBD	GT1045-QSBD	GT1040-QBBD
Input power supply voltage				24VDC (+10%, -15%), ripp	ole voltage of 200	mV or less	•	
Input frequency						-			
Input maximum apparent power	-								
Power consumption	9.84W or less (410mA/24VDC)	9.36W or less (390mA/24VDC)	11.16W or less (465mA/24VDC)	9.72W or less (405mA/24VDC)	7.92W or less (330mA/24VDC)	9.84W or less 9.36W or less (410mA/24VDC) (390mA/24VDC)		3.6W ((150mA	or less /24VDC)
With backlight off	4.32W or less (180mA/24VDC) 5.04W or less (210mA/24VDC) 4.32W or less (180mA/24VDC)					180mA/24VDC)) 2.9W or less (120mA/24VDC)		
Inrush current	15A or less (2m	s, at max. load)	26A or less (4ms, at max. load)					15A or less (26.4V) 2ms	
Permissible instantaneous failure time	Within	5ms		Within 10ms				Within 5ms	
Noise resistance	Noise voltage 1000Vp-p, noise width 1µs Noise voltage 500Vp-p, noise width 1µs						Noise	voltage 1000Vp-p, noise width	1μs
Noise resistance	by noise simulator with noise frequency 30 to 100Hz by noise simulator with noise frequency 25 to 60Hz						by noise sir	nulator with noise frequency 30	to 100Hz
Withstand voltage				500VAC for 1	minute between p	ower supply term	inal and ground		
Insulation resistance			$10M\Omega$ or higher v	vith an insulation	resistance tester	500VDC between	n power supply te	rminal and ground)	
Applicable wire size	0.75 to 2 [mm²]*1					Single-wire state of the control of			
Clamp terminal		Clamp terminals for M3 screw RAV1.25-3, V2-N3A, FV2-N3A, FV2-N3A* Al2.5-6BU, Al0.34-6TQ, Al0.5-6WH (made by Phoenix Conta							
Tightening torque (terminal block's terminal screws)									.25 [N·m]
*1 : Excluding GT115	HS							•	

Performance specifications

Perfor	mance spe	ecifications							
			Specif	ication					
	Item	GT1055-QSBD	GT1050-QBBD	GT1045-QSBD	GT1040-QBBD				
	Туре	STN color LCD	STN monochrome (blue/white) LCD	STN color LCD	STN monochrome (blue/white) LCD				
	Screen size	5.	7"	4.	.7"				
	Resolution		QVGA: 320	× 240 [dots]					
	Display size	115(W) × 86(H) [mm] (in	horizontal display mode)	96(W) × 72(H) [mm] (in	horizontal display mode)				
	No. of displayed characters		6-dot standard font: 20 of font: 26 chars. × 20 line						
Display*1	Display colors	256 colors	Monochrome (blue/white) 16 gray scale	256 colors	Monochrome (blue/white) 16 gray scale				
	View angle	Right/left: 55°, Up: 65°, Down: 70° (in horizontal display mode)	Right/left: 45°, Up: 20°, Down: 40° (in horizontal display mode)	Right/left: 50°, Up: 40°, Down: 70° (in horizontal display mode)	Right/left: 45°, Up: 20°, Down: 40° (in horizontal display mode)				
	Contrast adjustment		16-step a	djustment					
	Intensity	380 [cd/m ²]	260 [cd/m ²]	150 [cd/m ²]	300 [cd/m ²]				
	Life	(Time for display o	Approx. 50,000 hours (Time for display contrast reaches 20% at operating ambient temperature of 25°C)						
Backlight		Cold-cathode fluorescer with backlight OFF Backlight off time and scr	detection function.	Backlight off time	LED (no need to replace) Backlight off time and screen save time can be set.				
	Life*2	Approx. 75,000 hours or more	Approx. 54,000 hours or more	-					
	Lile	(Time for display intensity reaches 50% at operating ambient temperature of 25°C)							
	Туре		Matrix res						
Touch	No. of touch keys		Max. 50 ke	eys/screen					
panel	Key size	Min. 16 x 16 [dots] (per key)							
	No. of simultaneous touch points	Max. 2 points							
	Life		0,000 times or more (or						
Memory	User memory*3	Built-in fla:	sh memory for saving p		ss) and OS				
,	Life (No. of writings)		100,00						
			GT11-50BAT typ	e lithium battery					
Battery	Backed up data	Clock d	ata, alarm history, recip	pe data, time action set values					
	Life	Replacement gu	ideline approx. 5 years	(operating ambient ter	nperature: 25°C)				
	RS-422/485	RS-422/485, 1ch Terminal resistance*5	Transmission speed: 1 Connector shape: E Application: Commu : OPEN/110Ω/330Ω (sw	unication with PLCs					
Built-in	RS-232		ransmission speed: 115 Connector shape: Communication with PLC	D-sub 9-pin (male) Cs, connection with bar	·				
interface		communication with personal computers (project data read/write, OS installation, transparent function)							
	USB		USB (full-speed 12 Connector st plication: Communication data read/write, OS ins	hape: Mini-B on with personal compu					
	Memory board		or installing memory bo						
Buzzer ou			Single tone (tone len						
	construction*4		Conforming to IF						
	dimensions	164(W) × 135(I	H) × 56(D)[mm]		H) × 41(D)[mm]				
	dimensions		21(H)[mm]		103(+1 -0)(H)[mm]				
	cl. mounting brackets)		[kg]		5[kg]				
	software package	0.7	GT Works3 Vers		. 191				
		(nermanently lit) and bla	ack dots (not to be lit) ger						

- #1: On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear.

 #1: On LCD screens, bright dots (permanently lit) and black dots (not to be lit) generally appear.

 Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero.

 Flickering may occur depending on the display colors.

 Note that the existence of bright and black dots is a standard characteristic of LCD screens, and it does not mean that the products are defective or damaged.

 Displaying one single screen for a long time can lead to burn-in, causing afterimages or image irregularities that could not disappear. Use the screen saver that is effective to prevent burn-in.

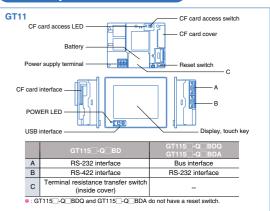
 #22: Using the GOT screen saver/backlight OFF functions prevents screen burn-in and extends the backlight life.

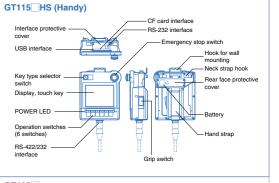
 #31: The memory is ROM that permits overwriting of new data without having to delete the existing data.

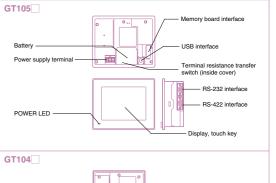
 #41: This does not guarantee protection in all users' environments. The specification is not applied when the interface protective cover and rear face protective cover are removed. The unit may not be used in an environment where it is exposed to splashing oil or chemicals for a long time or it is soaked with oil mist.

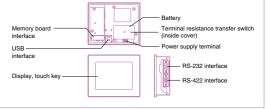
 #52: I he case of GOT multi-drop connection, set the terminal resistance transfer switch on the GOT main unit according to the connection configuration.

Component names









GT10

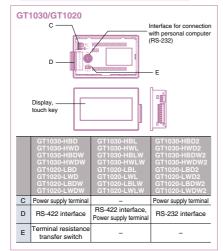
Power supply specifications

				Speci	fication				
	tem	GT1030-HBD GT1030-HWD	GT1030-HBDW GT1030-HWDW	GT1020-LBD GT1020-LWD	GT1020-LBDW GT1020-LWDW	GT1030-HBL GT1030-HWL	GT1020-LBL GT1020-LWL		
		GT1030-HBD2 GT1030-HWD2	GT1030-HBDW2 GT1030-HWDW2	GT1020-LBD2 GT1020-LWD2	GT1020-LBDW2 GT1020-LWDW2	GT1030-HBLW GT1030-HWLW	GT1020-LBLW GT1020-LWLW		
Input powe	r supply voltage	24VDC	(+10%, -15%), ripp	le voltage of 200n	nV or less	5VDC (±5%), supplied from PLC communication cable			
Input frequ	uency	-							
Input maximu	ım apparent power				-				
Power cor	sumption	2.2W or less (90mA/24VDC) 1.9W or less (80mA/24VD				1.1W or less (220mA/5VDC)			
With backlight off		1.7W or less	(70mA/24VDC)	1.2W or less	(50mA/24VDC)	0.6W or less (120mA/5VDC)			
Inrush cur	rent	18A or less (2	26.4DCV) 1ms	13A or less (26.4DCV) 1ms	-	-		
Permissible inst	antaneous failure time		Within	n 5ms		-	-		
Noise resi	stance	Noise voltage 1000Vp-p, noise width 1µs by noise simulator with noise frequency 30 to 100Hz							
Withstand	voltage	500VAC for 1	minute between p	_					
Insulation	resistance		or higher with an ir C between power s		-				
Applicable wire size	Single-wire installation	0.14 to 1.5mm², AWG26 to AWG16 (single wire), 0.14 to 1.0mm², AWG26 to AWG16 (stranded wire), 0.25 to 0.5mm², AWG24 to AWG20 (bar terminal with insulation sleeve)							
wire size	Two-wire installation	0.14 to 0.5m	m ² , AWG26 to AW	G20 (single wire),	0.14 to 0.2mm ² , AW	G26 to AWG24 (st	randed wire)		
Clamp terr	minal		Al2.5-6BU, A	10.34-6TQ, AI0.5-6	6WH (made by Phoe	enix Contact)			
	torque (terminal ninal screws)			0.22 to ().25 [N·m]				

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

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

Component names



Performance specifications

					Specif	ication				
	Item	GT1030-HBD GT1030-HWD GT1030-HBL GT1030-HWL	GT1030-HBDW GT1030-HWDW GT1030-HBLW GT1030-HWLW	GT1030-HBD2 GT1030-HWD2	GT1030-HBDW2 GT1030-HWDW2	GT1020-LBD GT1020-LWD GT1020-LBL GT1020-LWL	GT1020-LBDW GT1020-LWDW GT1020-LBLW GT1020-LWLW	GT1020-LBD2 GT1020-LWD2	GT1020-LBDW2 GT1020-LWDW2	
	Туре				STN monochrome	(black/white) LCD				
	Screen size		4.					.7"		
	Resolution		288 × 96 [dots] (in					n horizontal mode)		
	Display size		109.42(W) × 35.98(H)[n	nm](in horizontal mode)			. , . , .	m](in horizontal mode)		
Display*1	No. of displayed characters	16-dot standard font: 36 12-dot standard font: 48		or 18 chars. × 6 lines (2-b or 24 chars. × 8 lines (2-b		16-dot standard		s (1-byte) or 10 chars. × ntal mode)	4 lines (2-byte)	
Display	Display colors				Monochrome	(black/white)				
	View angle			Right/le	ft: 30°, Up: 20°, Down:	30°(in horizontal display	/ mode)			
	Contrast adjustment				16-step a	djustment				
	Intensity	200 [cd/m ²] (in green)	500 [cd/m ²] (in white)	200 [cd/m ²] (in green)	500 [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)	
	Intensity adjustment		8-step ad	ljustment				-		
	Life			x. 50,000 hours (Time f	for display contrast rea	ches 20% at operating a	mbient temperature of	25°C)		
		3-color LED	3-color LED	3-color LED	3-color LED	3-color LED	3-color LED	3-color LED	3-color LED	
Backlight	Color	(green, orange and red) (no need to replace)	(white, pink and red) (no need to replace)	(green, orange and red) (no need to replace)	(white, pink and red) (no need to replace)	(green, orange and red) (no need to replace)	(white, pink and red) (no need to replace)	(green, orange and red) (no need to replace)	(white, pink and red) (no need to replace)	
	Function	Status contro	ol (color, on/flashing/off)	is available and screen	save time setting can	be set. PLC can contro	l color and status of ba	cklight based on system	information.	
	Туре		Matrix res	istive type			Analog res	sistive type		
	No. of touch keys				Max. 50 k	eys/screen				
Touch	Key size		Min. 16 × 16 [dots] (per key)			Min. 2 × 2 [d	ots] (per key)		
t	No. of simultaneous touch points		Max. 2	points		(If there is a switch		ssible e pressed keys, the swit	ch may function.)	
	Life			1,00	0,000 times or more (o	perating force 0.98N or	less)			
Memory	User memory*2	Built-in flas	h memory for saving pr	oject data (1.5MB or les	ss) and OS	Built-in flash memory for sa	ving project data (512KB or le	ess), OS, alarm history, recipe	data, time action set values	
	Life (No. of writings)				100,00	0 times				
_			GT11-50BAT typ							
Battery	Backed up data			pe data, time action set				-		
	Life		,	(operating ambient terr	perature: 25°C)			_		
Built-in	For communication with PLC	GT1030-HBD/HWD, G RS-422/485, 1ch 115200/57600/38400/ Connector shape: Conne Application: Comm Terminal resistance* (switched by terminal re:	Fransmission speed: 19200/9600/4800bps cter terminal block, 9-pin unication with PLC 3- ΟΡΕΝ/110Ω/330Ω sistance transfer switch)		00/9600/4800bps cter terminal block, 9-pin	Application: Comm Terminal resistance* (switched by terminal re	Transmission speed: (19200/9600/4800bps ictor terminal block, 9-pin unication with PLC ³ - OPEN/110Ω/330Ω sistance transfer switch)	RS-232, 1ch Transn 57600/38400/192 Connector shape: Conne	00/9600/4800bps cter terminal block, 9-pin	
interface		GT1030-HBL/HWL, G RS-422, 1ch Tra 115200/57600/38400/ Connector shape: Conne Application: Comm	ansmission speed: (19200/9600/4800bps ctor terminal block, 9-pin	Application: Comm	unication with PLC	GT1020-LBL/LWL, G RS-422 1ch Tra 115200/57600/38400/ Connector shape: Conne Application: Comm	ansmission speed: /19200/9600/4800bps actor terminal block, 9-pin	Application: Comm	unication with PLC	
	For communication with personal computer		Application		Connector shape: M	5200/57600/38400/1920 ini DIN 6-pin (female) iject data read/write, OS		nt function)		
Buzzer ou	· ·				Single tone (tone ler	ngth adjustable/none)				
Protective	construction*4				Conforming to II	P67f (front panel)				
External of	dimensions		145(W) × 76(H)	× 29.5(D)[mm]			113(W) × 74(F	H) × 27(D)[mm]		
Panel cut	dimensions		137(W) × 6	66(H)[mm]			105(W) ×	66(H)[mm]		
Weight		GT1030-H_D(W): 0.3kg GT1030-H_L(W): 0.28kg	,	0.3kg (excl. mou	unting brackets)	GT1020-L_D(W): 0.2kg GT1020-L_L(W): 0.18kg		0.2kg (excl. mount	ing brackets)	
Applicable :	software packages	GT Works3 Ver	sion1.31H or later (not	supported GT Works2	/GT Designer 2)		GT Works3 Vers	sion1.31H or later		
						•				

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

External dimensions

GOT main units

External dimensions

(Unit: mm) GT1695 GT1685 GT167□ GT166□ GT1655 GT157□ GT1595 GT1585 GT156□ GT155□ GT1275 GT1265 GT115□-Q□BDQ GT115□-Q□BDA GT16 Handy GT115□-Q□BD GT11 Handy ئەتەتەت ، GT105□ GT104□ GT1030 GT1020

60

Panel cut dimensions

hen the GOT is	installed		(Unit: mm)	
Screen size	Type of GOT main unit	A	В	A +2
15"	GT1695 GT1595	383.5	282.5	
12.1"	GT1685*1 GT1585*1	302	228	
10.4"	GT167 GT157 *2 GT157 *2 GT1275	289	200	Panel opening B ⁺
8.4"	GT166 GT156 GT1265	227	176	
5.7"	GT1655*3 GT155_]*3 GT115_]*3 GT105_]*3	153	121	*1 : Same dimensions as A985GOT(-V) *2 : Same dimensions as A975/970GOT(-B) *3 : Same dimensions as F940GOT *4 : For the GT104□, GT1030 and GT1020, the tolerances are +1/0.
4.7"	GT104	130	103	-
4.5"	GT1030	137	66	-
3.7"	GT1020	105	66	=

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

Ī	Туре	A	В	Cautions when installing and uninstalling
	GT15-CFEX-C08SET	94.0	33.0	When installing the CF card extension unit on the control panel, make sure that the extension unit does not interfere with the extension unit cable or the CF card interface of the GOT. Place the CF card extension unit at a distance of 25mm or more from the GOT.
				For installation locations, see the GT16 User's Manual (Hardware) or the GT15 User's Manual.

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

Product installation spacing

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

●G	T16/GT15										(Unit: mm)
	Item	GT1695	GT1685	GT167	GT166	GT1655	GT1595	GT1585	GT157	GT156	GT155
	GOT only		50 or more	(20 or more)		61 or more	50 o	r more (20 or r	nore)	50 or more (21 or more)	49 or more
	When a bus connection unit is installed	50 or more (20 or more)	50 or more (24 or more)	50 or more (33 or more)	50 or more (43 or more)	50 or more	50 or more	(20 or more)	50 or more (35 or more)	50 or more (40 or more)	50 or more
	When a serial communication unit is installed			(20 or more)		49 or more		r more (20 or n		50 or more (21 or more)	49 or more
	When a RS-422 conversion unit is installed	50 or more (20 or more)	50 or more (39 or more)	50 or more (48 or more)	58 or more	-	50 or more (20 or more)	50 or more (39 or more)	53 or more	58 or more	-
	When an Ethernet communication unit is installed			-				50 c	or more (20 or n	nore)	
	When the CC-Link communication unit (GT15-J61BT13) is installed		50 or more	(20 or more)		50 or more (24 or more)		50 or more	(20 or more)		50 or more (24 or more)
	When a MELSECNET/H communication unit (coaxial) is installed	50 or more	(20 or more)	50 or more (25 or more)	50 or more (35 or more)	64 or more	50 or more	(20 or more)	50 or more (30 or more)	50 or more (35 or more)	64 or more
	When a MELSECNET/H communication unit (optical) is installed	50 or more (20 or more)*1	50 or more (23 or more)*1	50 or more (32 or more)*1	50 or more (42 or more)*1	79 or more	50 or more (20 or more)*1	50 or more (23 or more)*	50 or more (37 or more)*1	50 or more (42 or more)*1	79 or more*1
	When a CC-link IE Controller Network communication unit is installed		50 or more	(20 or more)		57 or more	50 or more	(20 or more)	50 or more (23 or more)	50 or more (28 or more)	57 or more
۸	When a CC-Link IE Field Network communication unit is installed		50 or more	(20 or more)		57 or more	50 or more	(20 or more)	50 or more (23 or more)	50 or more (28 or more)	57 or more
A	When a printer unit is installed			(20 or more)		50 or more (29 or more)		50 or more	(20 or more)		50 or more (29 or more)
	When a multimedia unit is installed	50 or more (20 or more)**			80 or more*2				-		
	When a video input unit is installed	50 or more (20 or more)**			80 or more*2		-	61 or more*2	75 or more*2	-	
	When a RGB input unit is installed		more (20 or m		50 or more (25 or more)**		-		20 or more)*3	-	
		50 or more (20 or more)*2 *	61 or more*2*3	70 or more*2 *3	80 or more*2 *3		-	61 or more*2*	75 or more*2 *3	-	·
	When a RGB output unit is installed	50 or	more (20 or m	ore)*3	50 or more (25 or more)**		-	50 or more (20 or more)*3	-	·
	When a CF card unit is installed				50 o	r more (20 or n					
	When a CF card extension unit is installed	50 or more (20 or more)	50 or more (49 or more)	58 or more	68 or more	50 or more	50 or more (20 or more)	50 or more (49 or more)	63 or more	68 or more	97 or more
	When an audio output unit is installed			(20 or more)		50 or more			r more (20 or n		
	When an external input/output unit is installed	50 o	r more (20 or n	nore)	50 or more (29 or more)	50 or more	50 or more	(20 or more)	50 or more (24 or more)	50 or more (29 or more)	58 or more
В							(20 or more)				
C	(When a CF card is not used)			(20 or more)		50 or more (20 or more)*4			r more (20 or n	nore)	
	(When a CF card is used)		50 or more	(20 or more)		100 or more		50 or more	(20 or more)		100 or more
D							(20 or more)				
Е						100 or more	(20 or more)				

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

●GT12					(Unit: mm)				
GOT main unit	A, D	В	When CF card is not used	When CF card is used	E				
GT1275	50 or more	80 or more	50 or more	50 or more	100 or more				
GT1265	50 of filore	80 or more	50 of filore	100 or more	100 or more				
•GT11 (Unit: mm)									
GOT main unit	A D	В	When CF and	When CE and	F				

GOT main unit	A, D		When CF card is not used	When CF card is used		
GT1155 GT1150	50 or more (20 or more)		50 or more*2 (20 or more)	100 or more	100 or more (20 or more)	
*1 : 50 or more (20 or more) in the case of vertical installation						

*2 : 80 or more (20 or more) in the case of vertical installation

	,				
●GT10					(Unit: mm)
GOT main unit	Α	В	С	D	Е
GT105 GT104	50 or more (20 or more)	80 or more (20 or more)	50 or more (20 or more)	50 or more (20 or more)	100 or more (20 or more**)
GT1030 GT1020	50 or more (20 or more*1)	50 or more (20 or more)	50 or more (20 or more)	50 or more	80 or more (20 or more*2)

- \$1:50 or more when a RS-232/USB conversion adapter is used.
 \$2:80 or more when a personal computer connection cable is used or when a personal computer RS-232 interface is used for connecting multiple GOTs.
 50 or more when a RS-232 interface is used for using an RS-232/USB conversion adapter.
 \$3:80 or more when using a USB cable or a memory board.
- 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 Depending on the unit and cable being used, a cable length longer than dimension A (or dimension D for the GT10) in above [Fig. A] may be required.

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 Fig. 3 0.6, 1.2, 3, 5m GT15-A370C B-S1 1.2, 2.5m Fig. 4 GT15-A370C B Fig. 5 1.2. 2.5m GT15-A1SC B 0.7, 1.2, 3, 5m Fig. 6 GT15-A1SC NB 0.45, 0.7, 3, 5m Fig. 7 GT15-C EXSS-1*1 10.6, 20.6, 30.6m Figs. 8 & 9 GT15-EXCNB Fia. 8 0.7, 1.2, 3, 5, 10, 20, 30m GT15-C BS Fig. 9 GT15-J2C10B Fig. 10 1m

*1 : GT15-C_EXSS-1 is a set consisting of GT15-EXCNB and GT15-C_BS.

Bus connection cables

[Fig. A]

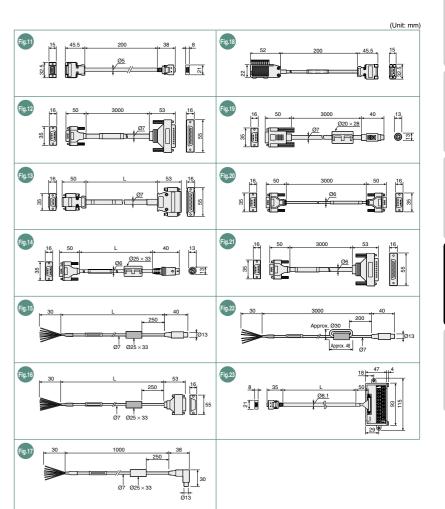


	(Unit: mm)
Ferrite core, approx. Ø35 x 40, red holder tube	11.5 160 Cable approx. 08.0 110 Ferrite core, approx. 035 x 40, green holder tube
Ferrite core, approx. Ø35 x 40, GOT side	PLC side Ferrite core, approx. Ø35 × 40, A7GT-CNB side
Fig.3 20 60 Cable approx. 017.0 70 Ferrite core, approx. 032 x 16, green holder tube	11.5 32 1000 FG cable 75 20.5 S00 S00 GOT side
Fig.4 11.5 32 Lable approx. 08.0 50 Ferrite core, approx. 035 × 40, green holder tube	Cable approx. 09.0 Ferrite core, approx. 035 x 40, blue holder tube
Motion controller CPU side Side Sprox. 035 x 40, A7GT-CNB side	Fig.10 1000 Cable approx. 08.0 70 Ferrite core, approx. 035 x 40, GOT side green holder tube.

RS-422 cables						
Cable model name	Cable length (L)	External dimensions				
GT16-C02R4-9S	0.2m	Fig. 11				
GT01-C30R4-25P	3m	Fig. 12				
GT01-C R4-25P	10, 20, 30m	Fig. 13				
GT01-C R4-8P	1, 3, 10, 20, 30m	Fig. 14				
GT10-C R4-8P	1, 3, 10, 20, 30m	Fig. 15				
GT10-C R4-25P	3, 10, 20, 30m	Fig. 16				
GT10-C10R4-8PL	1m	Fig. 17				
GT10-C02H-9SC	0.2m	Fig. 18				

110 202 000100					
Cable model name	Cable length (L)	External dimensions			
GT01-C30R2-6P	3m	Fig. 19			
GT01-C30R2-9S	3m	Fig. 20			
GT01-C30R2-25P	3m	Fig. 21			
GT10-C30R2-6P	3m	Fig. 22			

h3-465 terminal block conversion unit				
Model name	Cable length (L)	External dimensions		
FA-LTBGTR4CBL	0.5, 1, 2m	Fig. 23		



Q00JCPU Q00CPU Q01CPU Q02CPU Q02HCPU

Q12HCPLL : Q25HCPU Q02PHCPU Q06PHCPU Q12PHCPU Q25PHCPU (main base) Q25PRHCPU Redundant system Q12PRHCPU (extension base) Q25PRHCPU Q00UJCPU Q00UCPU Q01UCPU Q02UCPU

Q03UDCPU

Q04UDHCPU

Q06UDHCPU

Q10UDHCPU Q13UDHCPU Q26UDHCPU Q03UDECPU Q04UDEHCPI Q06UDEHCPU Q10UDEHCPL Q13UDEHCPU Q20UDEHCPL Q26UDFHCPU Q50UDEHCPL Q100UDEHCP

QS001CPU Q02CPU-A

Q02HCPU-A 02CPU

L26CPU-BT 26CPU-PBT

WS0-CPU0

WS0-CPU1

O2ACPU Q2ACPU-S1

Q3ACPU

O4ACPU

Q4ARCPU Q2ASCPU

Q2ASHCPU Q2ASHCPU-S1

A2UCPU-S1

A3UCPU

A4UCPU A2ACPU

A2ACPUP21

A2ACPUR21

A2ACPU-S1

A3ACPU

A3ACPUP21 A3ACPUR21

A1NCPUR21

A2NCPUR21

A2NCPU-S1 A2NCPUP21-S A2NCPUR21-S1 A3NCPU A3NCPUP21

A2NCPU

A2ACPUP21-S A2ACPUR21-S

MELSEC-Q series

MELSEC-QS series

MELSEC-

MELSEC-WS series

C controller

QnA series

MELSEC-

MFLSEC-

(AnCPU type) A1NCPU

(QnACPU type)

Series	Model name	Bus connection *2 *25	CPU direct connection	Computer link	MELSECNET/I	MELSECNET/1 *1 *3	CC-Link IE Controller Network *	CC-Link IE Field Network *1	CC-Link (ID) *1 *4	CC-Link (via G4)	Ethernet *24	CPU direct connection	Computer link	CC-Link (via G4	
MELSEC-	A2USCPU A2USCPU-S1 A2USHCPU-S1 A1SCPU A1SCPUC24-R2 A1SHCPU	0	*18			0						*18			
A series (AnSCPU type)*10	A2SCPU A2SCPU-S1 A2SHCPU A2SHCPU-S1		*11 *18	0	×	×	×	×	0	×	0	*11 *18	0		
	A1SJCPU A1SJCPU-S3 A1SJHCPU A0J2HCPU	*12	*18									*18		×	
	A0J2HCPUP21 A0J2HCPUR21 A0J2HCPU-DC24		*11 *18	0		×			0	×	0	>11 *11 *18	0		
MELSEC- A series*10	A2CCPUR21	×		×	×	×	×	×	×	×	×		×		
	A2CCPUC24 A2CCPUC24-PRF A2CJCPU-S3	×	*18	0 X		×			×	×	×	*18	0 X		
	A1FXCPU *13 Q172CPU *13 Q173CPU *13	#10	*15 *18	× 0 *16 *18	○ *16	× 0 *16			× *16	× *16	× *16	>16 *18	× *16 *18	○ *16	
Motion controller	Q172CPUN *13 Q173CPUN *13 Q172HCPU Q173HCPU	_	*18 *14 *18	○ *18	0	0	×	×	0	0	0	*18 *14 *18	○ *18	0	
CPU (Q series)	Q172DCPU Q173DCPU Q172DCPU-S1 Q173DCPU-S1 Q170MCPU	0	*14 *18	*18	0	0	0	X ()*23	0	0	0	*14 *18) *18	0	
	MR-MQ100	X	0	×	×	×	×	X	×	×		×	×	×	
Motion controller CPU (A series) (large type	A37300F 0-33	0	0	0	×	0	×	×	0	×	0	×	×		
Motion controller CPU (A series) (small type	A171SCPU A171SCPU-S3 A171SCPU-S3N A171SHCPU A171SHCPUN A172SHCPU A172SHCPUN	O *17	0	0	×	×	×	×	0	×	0	×	×		
*10	A173UHCPU A173UHCPU-S1 FX0S					0								×	
MELSEC- FX series	FX0N FX1S FX1N FX1NC FX2N	×	○ *18	×	×	×	×	×	×	×	×	○ *18	×		

Ethernet adaptor unit It leads us to the control of the co

FX2NC FX3G

FX3U

FX3UC

remote I/O station QJ72BR15

QJ72LP25G

LJ72GF15-T2

NZ2GF-ET8

MELSEC

CC-Link IE Field

A ACCPU. Earlier versions cannot be used.

A ANDPUS CASCPU. Earlier versions cannot be used.

Version L or later for CPUs with link, and version H or later for CPUs without link

ANDPUS CASCPU.

Version H or later

AUZHCPU-DC24.

Version B or later

AUZHCPU-DC24.

Version B or later

AUZHCPU-DC24.

Version B or later

Comnot connect to bus if an extension base is connected.

SWERN-SVI302.

Old I or later (IDE or later in the case of bus connection or CPU direct connection with 0172CPU or 0173CPU) SWERN-SVI302.

SWERN-SVI302.

Old I or later (IDE or later in the case of bus connection or CPU direct connection with 0172CPU or 0173CPU) SWERN-SVI302.

SWERN-SVI302.

Old I or later (IDE or later in the case of bus connection or CPU direct connection with 0172CPU or 0173CPU) SWERN-SVI302.

SWERN-SVI302.

Old I or later (IDE or later in the case of bus connection or CPU direct connection with 0172CPU or 0173CPU) SWERN-SVI302.

SWERN-SVI302.

Old I or later (IDE or later in the case of bus connection or CPU direct connection with 0172CPU or 0173CPU) SWERN-SVI302.

The connection of the CPU or later in the case of bus connection or CPU direct connection with 0172CPU or 0173CPU
Supported by the GT16 and GT15 only. (GT16 Handy can be connected only through Ethermet.)

When connecting multiple GOTs, note that the following GOT models cannot be used together: GOT1000 series,
GOT-A900 series, GOT200 series and A77GOT.

When MELSECNET/H is used in NET/10 mode, the GOT terminal cannot be connected directly to a remote I/O station.
CC-Link (via G4): Connected at CC-Link (intelligent device station).
CC-Link (via G4): Connected to a CC-Link system via AJ658T-G4-S3 or AJ658T-R2N
When using A series computer link or an Ethermet module with a QnACPU, only the device ranges within AnACPU specifications are supported. The following devices cannot be monitored:

- Devices that have been newly added to the CnACPU

(In the CnACPU, the latch relay (L) and step relay (S) are separate devices from the internal relay (M), but the internal relay is nonetheless accessed when either a latch relay or step relay is specified.)

- File register (R)

S. .

• • • • • • • • • • • • • • • • • • • •						
	Produ	uct name		Model name	External dimensions	
	Standard model of	bus connection unit for	1ch	GT15-QBUS	Fig. 1	
	QCPU (Q mode)/n	notion controller CPU (Q Series)	2ch	GT15-QBUS2	Fig. 2	
	Standard model	of bus connection unit for	1ch	GT15-ABUS	Fig. 1	
Bus connection	QnA/ACPU/moti	on controller CPU (A Series)	2ch	GT15-ABUS2	Fig. 2	
unit	Thin model of bus	connection unit for	1ch		Fig. 3	h
u	QCPU (Q mode)/n	notion controller CPU (Q Series)	2ch	GT15-75QBUS2L	Fig. 3	I
	Thin model of bu	s connection unit for	1ch	GT15-75ABUSL	Fig. 3	'
	QnA/ACPU/moti	on controller CPU (A Series)	2ch	GT15-75ABUS2L	Fig. 3	
	RS-232 serial (D-sub 9-pin (r	communication unit		GT15-RS2-9P	Fig. 4	
Serial communication unit	RS-422/485 serial communication unit (D-sub 9-pin (female))			GT15-RS4-9S	Fig. 4	
unt	RS-422/485 serial communication unit (terminal block)			GT15-RS4-TE	Fig. 5	
RS-422	RS-232→RS-4	22 conversion unit (9-pin)	GT15-RS2T4-9P	Fig. 6	6
conversion unit	RS-232→RS-4	22 conversion unit (25-pi	n)	GT15-RS2T4-25P	Fig. 6	١٩
Bus exten	sion connector b	OOX		A9GT-QCNB	Fig. 7	
Bus conne	ector conversion	box		A7GT-CNB	Fig. 8	
MELSECN	NET/H	Optical loop unit		GT15-J71LP23-25	Fig. 9	
communic	mmunication unit Coaxial bus unit			GT15-J71BR13	Fig. 10	
CC-Link IE	IE Controller Network communication unit			GT15-J71GP23-SX	Fig. 11	
CC-Link IE	IE Field Network communication unit			GT15-J71GF13-T2	Fig. 12	
CC-Link communication unit Intelligent device station unit			unit	GT15-J61BT13	Fig. 13	
Ethernet c	ommunication u	nit		GT15-J71E71-100	Fig. 14	Н
Serial mul	ti-drop connection	on unit		GT01-RS4-M	Fig. 15	l
Connector	conversion ada	pter		GT10-9PT5S	Fig. 16	Ľ

Communication units/optional units

●Communication units/bus extension connector boxes

CC-Link interface unit Optional units

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

*1 : The connector shape varies depending on the model *2 : Dimensions A to D for each communication unit

TE : Billionolono // to B for odon communication drift				
Model name	A	В	С	D
GT15-QBUS	2.5	12	31.5	-
GT15-QBUS2	2.5	11	29	33.5
GT15-ABUS	4.5	15	29.5	-
GT15-ABUS2	4.5	11	31	31

*3: Dimension X when GOT is installed

	*3 Dimension	●GOT main unit factor	
100 or m	ore X	Type of GOT	Y (main unit factor)
	H)	GT1695	-2
		GT1595	-0.5
		GT1685, GT1585	-3.5
	1st 2nc	GT167□, GT157□	-0.5
		GT166_, GT1655, GT156_, GT155_	1.5
Other device	stage GOT main unit		(Unit: mm)

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

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

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

*4 : Dimension A for each commu	nication unit	Γ.
Model name	Α	(
GT15-75QBUSL	2.5	
GT15-75QBUS2L	2.5	

8.4", 5.7" 10

*5 : Dimension X when GOT is installed ●For GT16 ●For GT15 15" 6.5 15", 10.4" 8 12.1" 5 12.1" 5 10.4" 8 8.4", 5.7" 10



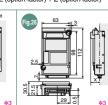
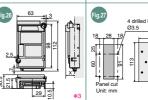
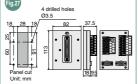


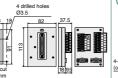
Fig. 17

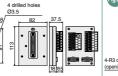
GT11H(S)-CCL

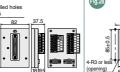


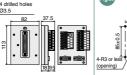


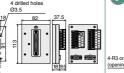
o **~**0

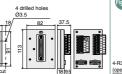


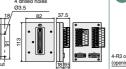


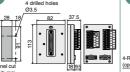


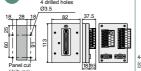


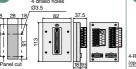


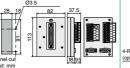


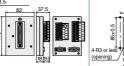


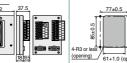


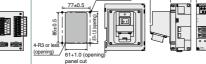


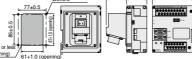


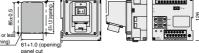






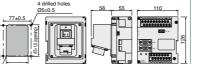














List of connectable models

Modules usable when connected with Mitsubishi PLCs

● For computer link connection

CPU series	Serial communication	on	module/compute	r link module*1
CFU Selles	Model name		CH1	CH2
	QJ71C24	*2	RS-232	RS-422/485
MELSEC-Q series (Q mode)	QJ71C24-R2	*2	RS-232	RS-232
,	QJ71C24N		RS-232	RS-422/485
Motion controller CPU (Q series)	QJ71C24N-R2		RS-232	RS-232
	QJ71C24N-R4		RS-422/485	RS-422/485
MELSECNET/H remote I/O station	QJ71CMO	* 3	Modular connector	RS-232
station	QJ71CMON :	* 3	Modular connector	RS-232
MELSEC-L Series	LJ71C24		RS-232	RS-422/485
CC-Link IE Field Network head unit	LJ71C24-R2		RS-232	RS-232
MELSES Consider (A reside)	A1SJ71UC24-R2		RS-232	-
MELSEC-Q series (A mode)	A1SJ71UC24-R4		RS-422/485	-
	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
MELSEC-QnA series	A1SJ71QC24-R2	*4	RS-232	RS-232
	A1SJ71QC24N	*4	RS-232	RS-422/485
	A1SJ71QC24N-R2	*4	RS-232	RS-232
	A1SJ71QC24N1 *4:	* 6	RS-232	RS-422/485
	A1SJ71QC24N1-R2	* 6	RS-232	RS-232
	AJ71UC24	*6	RS-232	RS-422/485
	A1SJ71UC24-R2 *4:	* 5	RS-232	-
	A1SJ71UC24-R4	* 5	RS-422/485	-
	AJ71UC24	* 5	RS-232	RS-422/485
	A1SJ71UC24-R2 *5:	* 6	RS-232	-
MELSEC-A series	A1SJ71UC24-R4 *5:	* 6	RS-422/485	-
Motion controller CPU	A1SJ71C24-R2	* 5	RS-232	-
(A series)	A1SJ71C24-R4	*4	RS-422/485	-
	A1SCPUC24-R2		RS-232	-
	A2CCPUC24		RS-232	RS-422/485

- | A2CCPUC24 | RS-232 | RS-22/485 |
 | ST-342/485 communication is not possible; therefore, A0J2-C214-S1 is unusable. When using A series computer link with OnACPU, only the device ranges within AnACPU specifications are supported. The following devices cannot be monitored:

 Devices that have been newly added to the OnACPU Latch relays (L) and step relays (S) (R) in the OnACPU, the latch relay (L) and step relays (S) are separate devices from the internal relay (M), but the internal relay is nonetheless accessed when either a latch relay or step relay is specified.)

 File register (R)

●For Ethernet connection

Inverters

● For MELSECNET/H connection

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

● For MELSECNET/10 connection

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

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

● For CC-Link IE Controller Network connection

CPU series	CC-Link IE Controller Network communication unit			
MELSEC-Q series (Q mode) MELSEC-QS series C controller	QJ71GP21-SX*1 QJ71GP21S-SX*1			
k1 is the extension made use a CRI I with the first E digits of the social No. or 12052 or higher				

■For CC-Link IE Field Network connection

•	eror ce-tilik it rield Network conflection			
	CPU series	CC-Link IE Field Network commun		
NAE	I SEC O carios (O moda)	O 171 CE11 TO		

MELSEC-Q series (Q-mode) C controller	QJ71GF11-T2		
MELSEC-L series	LJ71GF11-T2		
For CC Link (ID) connection			

For CC-Link (ID) connection

MELSEC-Q series (Q mode)	QJ61BT11		
C controller	QJ61BT11N		
MELSEC-L series	LJ61BT11		
MELSEC-QnA series	AJ61QBT11*1		
WELSEC-QUA Selles	A1SJ61QBT11*1		
MELSEC-Q series (A mode)	AJ61BT11*1		
MELSEC-A series `	A1SJ61BT11*1		
Motion controller CPU (A series)			
*1 : GOT can communicate only with CC-Link units function version B or later and software version J or later.			

●For CC-Link (via G4) connection*1

CPU series	CC-Link unit	Peripheral device unit
	QJ61BT11 QJ61BT11N LJ61BT11	AJ65BT-G4-S3 AJ65BT-R2N

*1 : GT11 and GT10 can monitor only the master station

CPU series	Ethernet module*1				-	
MELSEC-Q series (Q mode)/MELSEC-QS series	QJ71E71-100	QJ71E71-B5	QJ71E71-B2	QJ71E71		
	AJ71QE71N3-T	AJ71QE71N-T	AJ71QE71-B5	A1SJ71QE71N-B2	A1SJ71QE71-B5	
MELSEC-QnA series	AJ71QE71N-B5	AJ71QE71N-B5T	A1SJ71QE71N3-T	A1SJ71QE71N-T	A1SJ71QE71-B2	
	AJ71QE71N-B2	AJ71QE71	A1SJ71QE71N-B5	A1SJ71QE71N-B5T		
MELOCO Oi (Ai-)	A 171 E 71 N/2 T	Λ I71 E71NLT	A1C 171E71NI2-T	A1C 171E71N-T	A19 171E71-B5-93	

ion.

1: When using an A series Ethernet with QnACPU, only the device ranges within AnACPU specifications are supported except for the following devices.

1: Devices that have been newly added to the QnACPU

1: Latch relays (L) and sep relays (S) and sep relay (S) are separate devices from the internal relay (M), but the internal relay is nonetheless accessed when either a latch relay or step relay is specified.)

1: File register (R)

	AJ/IQE/IN-D2	AJ/TQE/T	A I SJ/ I QE/ I IN-BS	ATSJ/TUE/TN-BST	
MELSEC-Q series (A mode)	AJ71E71N3-T	AJ71E71N-T	A1SJ71E71N3-T	A1SJ71E71N-T	A1SJ71E71-B5-S3
MELSEC-A series `	AJ71E71N-B5	AJ71E71N-B5T	A1SJ71E71N-B5	A1SJ71E71N-B5T	A1SJ71E71-B2-S3
Motion controller CPU (A series)	AJ71E71N-B2	AJ71E71-S3	A1SJ71E71N-B2		
MELSEC-FX series	FX3U-ENET (-L)				

parameters and display alarms.				
Model name	GT16/GT15/GT	GT16/GT15/GT12/GT11/GT10		
Widdel Halife	RS-422	RS-232		
FREQROL-S500/S500E	0	X		
FREQROL-E500	0	X		
FREQROL-F500/F500L		×		
FREQROL-F500J	0	×		
FREQROL-A500/A500L	0	×		
FREQROL-V500/V500L		× ×		
FREQROL-E700		×		
FREQROL-F700	0	X		
FREQROL-A700	0	×		
FREQROL-D700	0	X		
FREQROL-F700P/F700PJ	0	X		

The GOT can be connected to Mitsubishi inverters to set their

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

Series	Model name	GT16/GT15/GT12/GT11/GT10				
Series	Woder name	RS-422	RS-232			
MELSERVO-J3 series	MR-J3-□A	0	0			
MELSERVO-J3 series	MR-J3- T	0	0			
MELSERVO-J2-Super	MR-J2S-□A	0	0			
series	MR-J2S-CP	0	0			
361163	MR-J2S- CL	0	0			
MELSERVO-J2M series	MR-J2M-P8A	0	0			
WELSERVO-JZW Series	MR-J2M DU	0	0			

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

	GT16/GT15/GT12/GT11												
	Connection configuration												
Controller name	Bus connection	CPU direct connection	Computer link	MELSEC NET/H *1	MELSEC NET/10 *1 *2	CC-Link IE Controller Network *1	CC-Link IE Field Network *1	CC-Link (ID) *1 *3	CC-Link (via G4)	Etherne *6			
CRnQ-700	0	○ *4	0	0	0	0	0	0	0	○ *5			
CRnD-700	×	X	×	X	X	X	X	X	X	0			

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

Supported only when MELSECNET/H is used in NET/10 mode. The GOT terminal cannot be connected to a remote I/O net.

CC Link (ID) Connected as CC Link (Intelligent device stignt). The CR remove the CR remove

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

		GT16/GT15/GT12/GT11													
eries	Model		Connection configuration												
	name	Bus connection *7	CPU direct connection	Computer link	MELSEC NET/H *1	MELSEC NET/10 *1 *2	Controller	CC-Link IE Field Network *1	CC-Link (ID) *1 *3	CC-Link (via G4)	Ethernet *6				
NC C70	Q173NCCPU	0	○ *5	0	0	0	0	0	0	0	0				
ELDAS 6/C64	FCA C6 FCA C64	×	○ *4	×	×	○ *4	×	×	○ *4	×	○ *4				
: Suppo	rted by the GT1	6 and GT1	5 only. (G	T16 Hand	ly can be o	connected	only throu	ugh Ethern	et.)						

- #11 : Supported by the GT16 and GT15 only, (GT16 Handy can be connected only through Ethernet.)
 #22 : When MELSECNET/H is used in NET/10 mode, the GOT terminal cannot be connected directly to a remote I/O station.
 #33 : CC-Link (I/D): Connected as CC-Link (intelligent device station).
 #44 : Use NC system software version Do or late vice station).
 #45 : Only a USS interface is available on the OT75NCCPU.
 The OT75NCCPU can be accessed via R5-232 of the QCPU of a multi-CPU system.
 #46 : Supported by the GT16, GT15, and GT12 only.
 #47 : Supported by the GT16, GT15, and GT11 only.

■Units usable when connected with MELDAS C6/C64

●For MELSECNET/10 connection

For CC-Link (ID) connection								
MELDAS C6/C64	FCU6-EX879	FCU6-EX878						
Series	Optical loop	Coaxial bus						
Series	MELSECNET/H (NET/10 mod	de), MELSECNET/10 module						

FCU6-HR865

MELDAS C6/C64

Series	Ethernet module
MELDAS C6/C64	FCU6-EX875
*: Applicable GOT varies depending on the conne GT16 ··· When connected via RS-232, RS-422/485 or Ethem When connected via ports other than abov	et: All models (Use the built-in interface of the GOT main unit.) e: All models (Bus connection and network connection are enabled
GT15 ··· When connected via RS-232 When other than RS-232	by mounting a communication unit on the GOT main unit.) : All models (Use the built-in interface of the GOT main unit.) : 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-42	t : Áll models (Use the built-in interface of the GOT main unit.) 2 : GT115□-Q□BD
When using bus connection Handy GOT ··· When connected via RS-232, RS-422/485 or Etheme When connected via RS-232 or RS-42	t : GT1665HS-VTBD
GT10 ··· When connected via RS-232	: GT105 -Q BD, GT104 -Q BD, GT1030-H D2/H DW2, GT1020-L D2/L DW2
When connected via RS-422	: GT105 - O BD, GT104 - Q BD, GT1030-H D/H DW, GT1030-H LW, GT1020-L D/L DW, GT1030-H LW Can be us

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

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

Third pa	arty PLCs/	Motion c	ontroller	s/Saf	ety c	ontro	llers	The GO	T can be connec	ted with third party PLCs	through RS-232 com	munic
				OT	4.C/O.T.4	E/OT40	(OT44 (O	T40				
Manu	facturer	Model name		GT16/GT15/GT12/GT11/C Computer link connection CPU direct connection					anufacturer	Model name	Comput	
				RS-422	RS-232	RS-422	RS-232	connection	IVIC		Wouel Hame	RS-4
		CPM1	CPM1A	NO-422	N3-232	NO-422	X	*9			SLC500-20	NO-4
	SYSMAC CPM	CPM2A CPM2C		×	0		O ×	×			SLC500-30 SLC500-40	
	SYSMAC CQM1	CQM1			×	1	O*2			SLC500 series	SLC5/01	×
	SYSMAC CPQ1H	CQM1H CJ1H	CJ1M		l	1	-0			*5	SLC5/02 SLC5/03	1
	SYSMAC CJ1	CJ1G CJ2H		(○*3		0	O#12			SLC5/04 SLC5/05	
	SYSMAC CJ2	CJ2M					O*14				1761-L10BWA	
OMRON	SYSMAC CP1	CP1H CP1E (N type)	CP1L) *13	-		×	× ○*13				1761-L10BWB 1761-L16AWA	
	SYSMAC C200HS SYSMAC C200H	C200HS					×	×			1761-L16BWA 1761-L16BWB	
	SYSMAC α	C200HX	C200HE	0	0		0			MicroLogix 1000 series (digital CPU)	1761-L16BBB	
	SYSMAC CS1	C200HG CS1H	CS1D	1			0	O*12		*5*6*7	1761-L32AWA 1761-L32BWA	×
	SYSYMAC C1000H	CS1G C1000H				-		0			1761-L32BWB 1761-L32BBB	^
	SYSYMAC C2000H	C2000H	CV2000	(○ * 3		×	×			1761-L32AAA 1761-L20AWA-5A	-
	SYSMAC CVM1/CV	CV500 CV1000	CVM1	×	×		O*3		Allen-Bradley	MicroLogix 1000 series (analog CPU) *5	1761-L20BWA-5A	
KEYENCE		KV-700 KV-1000	KV-3000	0	0	×	0	×	(Rockwell Automation,	MicroLogix 1200 series *5	1761-L20BWB-5A 1762-L24BWA	1
	KOSTAC SU	KV-5000 SU-5E	KV-5500 SU-5M	<u> </u>	<u> </u>		×		Inc)	MicroLogix 1500 series *5	1764-LSP 1756-L	
	series	SU-6B	SU-6M	0	0	0	0	×			1756-L1M1	
	PZ series DirectLOGIC	PZ3 D2-240		× 0	×	×	0	×			1756-L1M2 1756-L1M3	
	205 series	D2-250-1 D0-05AA	D2-260 D0-05DD	-	<u> </u>	<u> </u>	+ -				1756-L61 1756-L62	
KOYO ELECTRONICS	DirectLOGIC 05 series	D0-05AD D0-05AR	D0-05DD-D D0-05DR	0	0	×	0	×		ControlLogix series	1756-L63 1756-L55M12	×
INDUSTRIES *1	00 001100	D0-05DA	D0-05DR-D								1756-L55M13	
	DirectLOGIC	D0-06DD1 D0-06DD2	D0-06AA D0-06DD1-D								1756-L55M14 1756-L55M16	
	06 series	D0-06DR D0-06DA	D0-06DD2-D D0-06DR-D	0	0	0	0	×			1756-L55M22 1756-L55M23	
		D0-06AR									1756-L55M24	
		JW-21CU JW-31CUH	JW-50CUH	0	×	×	×				1769-L31 1769-L32E	-
Sharp Manufac Systems	cturing	JW-22CU JW-32CUH	JW-70CUH JW-100CUH	0	×		O * 3	×		CompactLogix series	1769-L32C 1769-L35E	×
*1		JW-33CUH	JW-100CU	×	×		○ ○ *3				1769-L35CR 1794-L33	1
		Z-512J PC3JG-P-CPU	PC3JG-CPU	ô	O*4	×	T 0*4			FlexLogix series	1794-L34	×
ITEKT	TOYOPUC	PC3J-CPU PC2JC-CPU	PC3JL-CPU PC2J16PR-CPU	0	O*4	10)*4)*4				IC693CPU311 IC693CPU313	
JTEKT *1	series	PC2J16P-CPU PC2J-CPU		0	O*4	×		×			IC693CPU323 IC693CPU350	-
		PC2JS-CPU	1 02011 01 0				X			Series 90-30	IC693CPU360	0
	PROSEC T series	T2 (PU224) T2E	T2N	×	×	L .	× ○*³				IC693CPU363 IC693CPU366	
	1 Selles	T3 model 3000 (S	T3H (3)			0	×	×			IC693CPU367 IC693CPU374	
TOSHIBA *1	PROSEC	model 2000 (S	32)	×	×	0	×				IC697CPU731	
	V series	model 2000 (S model 2000 (S									IC697CPX772 IC697CPX782	
TOOLUDA	Unified controller nv series	PU811 TC3-01	TC6-00	X	X	X	X	0			IC697CPX928 IC697CPX935	
TOSHIBA MACHINE	TCmini series Robot controller	TC3-02 TS2000	TC8-00 TS2100	×	×	×	0	×		Series 90-70	IC697CPU780 IC697CGR772	0
		H-302	H-4010				1				IC697CGR935	
	Large-sized H series	H-702 H-1002	H-300 H-700	()*3	×	0	×			IC697CPU788 IC697CPU789	
		H-2002 H-200	H-2000 H-252B						GE Fanuc		IC697CPM790 IC200UAA003	
Hitachi	H-200 to 252 series	H-250	H-252C	×	×	×	0	×	Automation Corporation		IC200UAR014 IC200UDD104	Ĭ
Industrial Equipment		H-252 H-20DR	H-28DT						*1		IC200UDD104	
Systems *1	H series	H-28DR H-40DR	H-40DT H-64DT	×	×	×	0	×			IC200UDR001 IC200UDR002	
	board type	H-64DR H-20DT	HL-40DR HL-64DR				-				IC200UDR003 IC200UAL004	-
	EH-150 series	EH-CPU104	EH-CPU308	×	×	×	0	×			IC200UAL005	l
	S10V	EH-CPU208 LQP510	EH-CPU316	0	0	0	×	×		VersaMax Micro	IC200UAL006 IC200UAA007	×
Hitachi	3100	LQP520 LQP800	LQP011		-	X	1 ^	^		Versalviax iviicio	IC200UAR028 IC200UDD110	
*1	S10mini	LQP000	LQP120	0	0	×	×	×			IC200UDD120	
Fuji Electric FA		LQP010 F55	F140S		1						IC200UDD212 IC200UDR005	
Components & Systems *1	MICREX-F	F70 F120S	F15_S	0	0	×	×	×			IC200UDR006 IC200UDR010	
		FP0-C16CT FP0-C32CT	FP1-C24C FP1-C40C	×	×	×	0				IC200UDD064 IC200UDD164	
		FP0R				<u> </u>					IC200UDR164	0
Panasonic Ele	ctric Works	FP2 FP2SH	FP5 FP10 (S)	×	0	×	0	×		K300S	IC200UDR064 K4P-15S	
		FP3 FP-M (C20TC)	FP10SH) FP-Σ	×				-	LS Industrial Systems	K200S K120S	K3P-07 S K7M-D U	0
		FP-M (C32TC))	^	×	×	0			K80S	K7M-D S (/DC) TSX P57 203M	
		GL120			×		0			Modicon	TSX P57 253M	
		GL130 GL60S		0		×	H	×		Premium	TSX P57 303M TSX P57 353M	
		GL60H GL70H			0		×				TSX P57 453M 140 CPU 311 10	-
		CP-9200SH CP-9300MS		×	O X		×	O X	Schneider		140 CPU 434 12U 140 CPU 534 14U	
YASKAWA Ele	ectric	MP920		0	ô	×		ô	Electric SA		140 CPU 651 50	×
*10		MP930 MP940		-					Modicon Quantum	140 CPU 651 60 140 CPU 671 60		
F ((PROGIC-8 CP-9200 (H)	·	×	×			×			140 CPU 113 02 140 CPU 113 03	
		CP-312		1		×		ô			140 CPU 434 12A	
		CP-317 MP2200		0	0		×	× 0	SICK AG		140 CPU 534 14A Flexi Soft series	×
	FA500	MP2300 FA500			○ * 3	×	×	×	Siemens AG		SIMATIC S7-200 series SIMATIC S7-300 series	×
		F3SP05 F3SP10	F3SP08	ô	-		Ö	0		annet he a	SIMATIC S7-400 series	
		F3SP20	F3SP30		1		×	×	*2 : The GOT c	cannot be connected. annot be connected to the CC does not have an RS-232 inte	M1-CPU11 *9 : Si	herNet upported
Yokogawa	FA-M3	F3FP36 F3SP21	F3SP38		0	×		1	*3 : RS-422 or I	RS232 is selectable. -422 converter (TXU-2051) is r	CI equired. M	P-92008 P2300.
Electric *10		F3SP25 F3SP35	F3SP53 F3SP58	0			0	0	*5 : Connection to t *6 : Connection	he DH485 network via an adapter (1770 to the DH485 requires a C-Se	-KF3) is possible. *11 : Or eries or later M	nly MOI ODBUS
		F3SP28	F3SP59		L.,	1			CPU. (B-Se DH485 prot	eries and earlier models do no locol.)	t support the *12: No *13: Cl	ot applic PU units
	STARDOM	F3SP66 NFCP100	F3SP67 NFJT100	X	X	×	0	O*11	CPU. (C-Se	ne connection requires a D-Se eries and earlier models do no unlex format.)	ries or later be t support the *14: O	conne
									DE LIMIT-OU	plex format.)		

 \times \times \times × O*1 O*8 \times × \times × \times 00.

MODBUS®/TCP connection is supported. Use a BUS/TCP communication driver. policable to duplex Ethernet units with 20 points or less of CP1E (N type) can nected only directly to CPU. the CJ2M-CPU1 can be connected.

List of connectable models

		RS-4			-232	hernet modules Ethernet
MRON ost link unit/ ommunication unit/ ommunication board/ thernet unit		C200H-LK202- C500-LK201-V CQM1-SCB41 CJ1W-SCU4-1 CS1W-SCB41 C200HW-COM CP1W-CIF11 CP1W-CIF11 CJ1W-CIF11	1 +CP1W-EXT01 03/06	CJ1W-SCU41 C200HW-COI CQM1-CIF01. CQM1-SCB4 CPM1-CIF01 CPM2C-CN11 CPM2C-CIF0 CP1W-CIF01	V1 1 1/41 1-V1 /1+CP1W-EXT01 M02/05/06 /02 1	CS1W-ETN21 CS1D-ETN21D CJ1W-ETN21
(EYENCE	unication unit	KV-L20R KV-L20	KV-L20V	KV-L20R KV-L20	KV-L20V	_
OYO ELECTR Data commun	ONICS INDUSTRIES ication module/	U-01DM D2-DCM D0-DCM		U-01DM D2-DCM D0-DCM		_
Sharp Manu ink unit	facturing Systems	JW-21CM JW-10CM	ZW-10CM	_	_	_
ITEKT ink unit		THU-2755 THU-5139 THU-2927		-	_	
	thernet unit	_	_	_		EN811
tachi Industrial Equipment Systems Itelligent serial port module		COMM-H COMM-2H		COMM-H COMM-2H		_
litachi Communica	tion module	LQE565 LQE165		LQE560 LQE060	LQE160	_
uii Electric	RS-232C interface card	_	_	NV1L-RS2		
A Components	RS-232C/485 interface capsule	FFK120A-C10		FFK120A-C1	0	_
Systems	General interface module	NC1L-RS4 FFU120B		NC1L-RS2 FFU120B		
	ectric Works mmunication unit	AFPX-COM3		AFP2462 AFP3462 AFP5462	AFPX-COM1 AFPX-COM2 AFPX-COM4	_
ASKAWA I MEMOBUS communicat	module/	JAMSC-120NC JAMSC-IF612 217IF 217IF-01	M27100	JAMSC-IF60 JAMSC-IF61 CP-217IF		218IF 218IF-01
	lectric nputer link module/ erface module	LC02-0N F3LC11-2N		LC01-0N LC02-0N F3LC01-1N	F3LC11-1N F3LC11-1F F3LC12-1F	F3LE01-5T F3LE11-0T F3LE12-0T
llen-Bradley (Ro therNet/IP co	ckwell Automation, Inc.) mmunication module	_	-	_	_	1756-ENBT 1756-ENET
E Fanuc Aut	omation Corporation n module	IC693CMM311 IC697CMM711		IC693CMM31 IC697CMM71		_
S Industrial Cn	et communication unit	G7L-CUEC		G7L-CUEB		
Cnet communication module Schneider Electric SA Ethernet unit		G6L-CUEC	G4L-CUEA	G6L-CUEB	G4L-CUEA	TSX ETY 4102 TSX ETY 5102 140 NOE 771 00 140 NOE 771 10 140 NWM 100 00

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

Manufacturer		Model name	GIIO/GII3/GII2/GIII			
		Woder name	RS-485	RS-232		
		MINAS A4 series				
	Panasonic	MINAS A4F series		_		
	1 anasonic	MINAS A4L series				
		MINAS A5 series				

The GOT can be used to monitor robot controllers and Robot controllers

Manufacturer		Model name	G116/G115/G	112/G111/G110		
Manuaci		Woder Hame	RS-422	RS-232		
		XSEL-J/K/KE				
		XSEL-P/Q				
	X-SEL	XSEL-KT/KET				
	X-SEL	XSEL-JX/KX	×	0		
		XSEL-KTX				
		XSEL-PX/QX				
IAI	SSEL	SSEL				
IAI		PCON-C/CG/CF/CY				
	PCON	PCON-SE	1			
		PCON-PL/PO				
		ACON-C/CG/CY	0	0		
	ACON	ACON-SE				
		ACON-PL/PO				
	SCON	SCON-C				

The GOT can be used to log data, Temperature controllers/Indicating controllers set parameters, and display alarms.

Manufacturer		Model name	GT16	/GT15/0	GT12/G	T11
IV	ianuiaciurer	woder name	RS-485	RS-422	RS-232	Ethernet*
OMRON	Thermac NEO	E5AN/E5EN E5CN E5GN	(2-wire type)*1	×	O*2	
	In-Panel NEO	E5ZN	1			
	ACS-13A series	ACS-13A □/□,□,C5*8				
	DCL-33A series	DCL-33A/M,,C5*8]			
		JCS-33A/,C5*8] 0		O*2	
	JC series	JCR-33A/,C5*8	(2-wire type)*1			
		JCD-33A/,C5*8]			
	JCM-33A series	JCM-33A-□/□,□C5*8				
	FCR-100 series	FCR-13A-□/M,C	<u> </u>	×		×
		FCR-15A-□/M,C				
Shinko	FCD-100 series	FCD-13A-□/M,C				
Technos	1 CD-100 selles	FCD-15A-□/M,C	_ ^			
	FCR-23A series	FCR-23A-□/M,C]			
		PC935-□/M,C			O*4	
	PC-900 series	PC935-□/M,C5*8	○(2-wire type)*1			
	1 C-300 Series	PC955-□/M,C	×			
		PC955-□/M,C5*8	0 *1			
	PCD-300 series	PCD-33A-□/M,C5*8	(2-wire type)			
	FIR series	FIR-201-M,C	×			
	JIR-301-M series	JIR-301-M□,C5**	(2-wire type)*1		O*2	

68

Ma		Mc	odel name		/GT15/0	GT12/G		
				RS-485	RS-422	RS-232	Ethernet₩	
	LT300 series		, LT370 , LT470	-		-		
	LT400 series			-	0	*2 ()*3		
	DZ1000 series	DZ100 DZ200		-				
	DZ2000 series		0 47	- 0				
	LT230 series	LT230		(2-wire type)*1		O*2		
	LT830 series	LT830 GT120		-	×			
	GT120 series	DB100		-		-		
CHINO	DB1000 series	DB2000		+	0	0		
0111110	DB2000 series	KP100						
	KP series	KP200		1				
	AL3000 series	AL300		1				
	AH3000 series	AH300		1 0				
	SE3000 series			(2-wire type)*1	0			
	JU series	JU	0	(2-wire type)*1			×	
	KE series	KE300	0	1		×		
		LE500		-		^		
	LE5000 series	PXR	PXR3/4/5/9					
Fuji Electric	Micro	PXG	PXG4/5/9	- 0	×	O*2		
Systems	Controller X			(2-wire type)*1	_ ^			
		SDC20	PXH9					
		SDC20						
			0/31 0A/40B/40G	(4-wire type)				
	SDC	SDC40			V	O*2		
				1	×			
YAMATAKE		SDC25		(a using tump)				
		SDC35/36		(2-wire type)*1				
	DMC	DMC10		04 :		\ \ \		
		DMC5		(4-wire type)	×	×		
	NX	NX-D1		(2-wire type) *10	×	×	O*11	
		INX-D23		- 1 7 10				
		UT320		-				
		UT350/351 UT420		_				
				_				
		UT450		1				
		UT520						
		UP350/351		0 *1				
	GREEN series			(2-wire type/				
				4-wire type)				
		UP550)					
		UP750			×	O*2	×	
		UM330/331]				
V-1		UM350/351		1				
Yokogawa		US100	0	1	×	U**		
		UT130 UT150						
				1 _				
	UT100 series	UT152		(2;				
		UT155		(2-wire type)				
		UP150		1				
		UT240		0	1			
	UT2000 series	UT280		(4-wire type)				
			/UT35A		1			
	l		VUT55A	. 0 *1				
	UTAdvanced series		VUP55A	(2-wire type/			O*11	
		UM33/		4-wire type)				
		H-PCF		(2-wire type)*1	_			
	SR Mini HG	_	P-A, H-PCP-B*7		0	0		
	SRZ		Z-DIO, ZCT	(2-wire type)*1*6	O*5	O*2		
			/400/500 * 7	_ (<u> ijpoj</u>	\vdash			
	СВ	CB700		1	×	O*2		
		FB100		- 0	_ ^			
	FB			(2-wire type)*1			-	
RKC	DD.	FB400		+	×	0*2		
Instrument	RB		400/500/700/900			U**2	×	
motrument	PF	PF900		+	0	0		
	HA		/401/900/901	-	- V			
	RMC	RMC5		1 _	X	O*2		
	MA	MA900				0		
	AG	AG500		(2-wire type)*1	0	×		
	THV	THV-A		1		_ ·		
		IHV-A1 SA100/200		1	×	O*2		
	SA	X-TIO	/200	_	×	()*21		

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

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

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

* : Applicable GOT varies depending on the connection destination.	
GT16 ··· When connected via R\$-232, R\$-422/485 or Ethemet: All models (Use the built-in interface of the GOT main unit.)	
When connected via ports other than above: All models (Bus connection and network connection are enabled by	
mounting a communication unit on the GOT main unit.)	
GT15 ··· When connected via RS-232 : All models (Use the built-in interface of the GOT main unit.)	
When other than RS-232 : All models (Bus connection and network connection are enabled by	
mounting a communication unit on the GOT main unit.)	
GT12 ··· When connected via RS-232, RS-422/485 or Ethemet: All models (Use the built-in interface of the GOT main unit.)	
GT11 ··· When connected via RS-232 or RS-422: GT115 Q BD	

GT11 **- When connected via RS-232 or RS-422; GT115__O_BD, Handy GD7 **- When using bus connection : GT115__O_BD, GT115__O_BDA Handy GD7 **- When connected via RS-232 er RS-422; GT115__USD, GT10 **- When connected via RS-232 er RS-422; GT115__USD, GT10 **- When connected via RS-232 er RS-422; GT115__USD, GT105__O_BD, GT104__O_BD, GT1030-H_D2/H_DW2, GT105__O_BD, GT104__O_BD, GT1030-H_DIM_DW, GT105__USD, GT105_

*: Only RS-232 communication is possible

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

■GT SoftGOT1000 Version3 Connectable Device List

Series	Model name		J direct		MELSECNET/		CC-Link IE	CC-Link IE	Etherne
	Q00JCPU	conr	nection	link	H ^{#1}	10*2	Controller Network	Field Network	Luicino
	Q00CPU #3 Q01CPU #3	USB							
	Q02CPU *3	connec	tion						
LSEC-Q series	Q02HCPU *3	ł	_	_	044	O * 5	_		_
mode)	Q12HCPU *3	1	0	0	O*5	0**	0	×	0
	Q25HCPU *3 Q02PHCPU								
	Q06PHCPU Q12PHCPU	0							
	Q25PHCPU								
edundant system nain base)	Q12PRHCPU Q25PRHCPU	ł		×	O*5*6*12	○*5*6	0	×	0
edundant system	Q12PRHCPU	X	×	0	×	×	×	×	0
extension base)	Q25PRHCPU Q00UJCPU	-	-	<u> </u>					_
	Q00UCPU Q01UCPU								
	Q02UCPU								
	Q03UDCPU Q04UDHCPU	0	0	0	0	0	0	0	0
	Q06UDHCPU Q10UDHCPU	_	-				_	_	-
	Q13UDHCPU	ł							
	Q20UDHCPU								
	Q26UDHCPU Q03UDECPU								
	Q04UDEHCPU Q06UDEHCPU								
	Q10UDEHCPU	_						_	_
	Q13UDEHCPU Q20UDEHCPU	0	×	0	0	0	0	0	0
	Q26UDEHCPU								
	Q50UDEHCPU Q100UDEHCPU	L							
	QS001CPU Q02CPU-A	0	X	X	0	0	0	Х	0
LSEC-Q series node)	Q02HCPU-A		0	0	×	0	×	×	0
,	Q06HCPU-A L02CPU	\vdash							-
LSEC-L series	L26CPU-BT	0	O#14	0	×	×	×	0	0
	L02CPU-P L26CPU-PBT			~					
LSEC-WS series	WS0-CPU0 WS0-CPU1		X	×	×	×	×	×	X
ontroller	Q12DCCPU-V *16	0	0	0	0	0	0		0
1050 O-Ai	Q2ACPU (-S1) Q3ACPU								
LSEC-QnA series ACPU type)	Q4ACPU		0	O*4	×	0	×	×	0*4
	Q4ARCPU Q2ASCPU (-S1)	_		_					
LSEC-QnA series ASCPU type)	Q2ASHCPU		0	O*4	×	0	×	×	0*4
	Q2ASHCPU-S1 A2UCPU (-S1)	\vdash		_					
	A3UCPU	1							
	A4UCPU A2ACPU (-S1)	1							
	A2ACPUP21 (-S1)								
	A2ACPUR21 (-S1) A3ACPU	ł							
LSEC-A series	A3ACPUP21 A3ACPUR21		O*7	0	×	0	×	×	0
CPU type)*10	A1NCPU		0	"	_ ^	~	^	_ ^	
	A1NCPUP21 A1NCPUR21	ł							
	A2NCPU (-S1)								
	A2NCPUP21 (-S1) A2NCPUR21 (-S1)	ł							
	A3NCPU A3NCPUP21								
	A3NCPUR21								
	A2USCPU (-S1) A2USHCPU-S1	ł							
	A1SCPU								
LSEC-A series	A1SCPUC24-R2 A1SHCPU	ł	O*7	0	×	0	×	×	0
SCPU type)*10	A2SCPU (-S1)		_	~					~
	A2SHCPU (-S1) A1SJCPU (-S3)	ł							
	A1SJHCPU A0J2HCPU	<u> </u>		_					
	A0J2HCPUP21		O*7			×	×	×	_
	A0J2HCPUR21 A0J2HCPU-DC24	1	,,,,,	0	×	_ ^	_ ^	_ ^	0
LSEC-A	A2CCPU		^**		Ų,	Ų,		\.	
es*10	A2CCPUP21 A2CCPUR21	1	O*7	×	×	×	×	×	×
	A2CCPUC24 A2CCPUC24-PRF		O*7	0	×	×	X	X	×
	A2CJCPU-S3			×	X	X	X	X	X
	A1FXCPU Q172CPU (N)	F	0	X	X	X	X	X	X
	Q173CPU (N)								
ion troller CPU	Q172HCPU Q173HCPU		×	×	×	×	×	×	×
eries)	Q172DCPU (-S1)	USB	rtion						
	Q173DCPU (-S1) Q170MCPU *13	connec	aun (0	0	0	0	X	0
ion troller CPU	A273UCPU A273UHCPU (-S3)		X	X	×	×	X	X	×
troller CPU eries/large type)	A373UCPU (-S3)		X O#8	X	X	×	X	X	X
	A171SCPU (-S3) A171SCPU-S3N		×	X	×	×	X	X	X
troller CPU*10	A171SHCPU (N)	\vdash							
eries/small type)	A172SHCPU (N) A173UHCPU (-S1)	-	O*8	0	×	0	X	X	0
	FX0S								
	FX0N FX1S	1							
	FX1N	1	0						×
SEC-FX	FX1NC FX2N	1		×	×	×	×	×	<u> </u>
	FX2NC	١.,							
	FX3G FX3U	0	0	1					<u> </u>
	FX3UC QJ72LP25-25	<u> </u>	0						0
SECNET/H	QJ72LP25G	×	0	×	×	×	×	×	×
ote I/O station Link IE Field	QJ72BR15	$\vdash \vdash$							
LIIK IL I IBIU	LJ72GF15-T2		X	0	×	×	×	0	×
work head unit									

Modules usable when connected with Mitsubishi PLCs ■ For computer link co

CPU series	
CPU series	

CC-Link IE Field Network Ethernet adaptor unit*15 NZ2GF-ETB

Serial communication module/computer link modul
QJ71C24(-R2)/QJ71C24N(-R2)/QJ71CMO(N)
A1SJ71UC24-R2/A1SJ71C24-R2
LJ71C24 (-R2)
AJ71QC24(-R2)/AJ71QC24N(-R2)/
A1SJ71QC24(-R2)/A1SJ71QC24N(-R2)
AJ71C24-S8/AJ71UC24/A1SJ71C24-R2/A1SJ71UC24-R2

■ For MELSECNET/H and MELSECNET/10 connection

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

■ For CC-Link IE Controller Network connection

Use a network unit applicable to the network board used for GT SoftGOT1000. The network boards that can be used with GT SoftGOT1000 are shown on the right. Q80BD-J71GP21-SX and Q80BD-J71GP21S-SX

■ For CC-Link IE Field Network connection

Use a network unit applicable to the network board used for GT SoftGOT1000. The network boards that can be used with GT SoftGOT1000 are shown on the right. Q81BD-J71GF11-T2

■ For Ethernet connection

CPU series	Ethernet module
MELSEC-Q series (Q mode)/MELSEC-QS series	QJ71E71-100/QJ71E71-B5/QJ71E71-B2/QJ71E71
	AJ71QE71N3-T/AJ71QE71N-B5/AJ71QE71N-B2/AJ71QE71N-T/
MELSEC-OnA series	AJ71QE71N-B5T/AJ71QE71/AJ71QE71-B5/A1SJ71QE71N3-T/
meeded distributed	A1SJ71QE71N-B5/A1SJ71QE71N-B2/A1SJ71QE71N-T/
	A1SJ71QE71N-B5T/A1SJ71QE71-B5/A1SJ71QE71-B2
MELSEC-Q series (A mode)/	AJ71E71N3-T/AJ71E71N-B5/AJ71E71N-B2/AJ71E71N-T/
MELSEC-A series/	AJ71E71N-B5T/AJ71E71-S3/A1SJ71E71N3-T/A1SJ71E71N-B5/
Motion controller CPU (A series)*	A1SJ71E71N-B2/A1SJ71E71N-T/A1SJ71E71N-B5T/
Wollon Controller CPO (A Series)	A1SJ71E71-B5-S3/A1SJ71E71-B2-S3

: Only the device ranges within AnACPU specifications are supported.

Third party PLCs

Manufacturer		Model name	Connection configuration						
			CPU direct connection (RS-232)	Computer link (RS-232)	Ethernet				
	Micro PLC	CPM2A	0	_	_				
Ī		C200HX							
		C200HG	1 1		_				
		CQM1	1 1		_				
		CQM1H	1 I						
		CS1H	1 I						
	Small-size	CS1G	1 1						
	PLC	CS1D	1 0 1	_					
OMBON	PLC	CJ1H	1 1		O*18				
OMHON		CJ1G	1 I		0.00				
		CJ1M	1 1						
		CJ2H	1		1				
		CJ2M	O#17						
		CP1E (N type)	Ó						
		CV500							
	Large-size	CV1000	1 _ 1						
	PLC	CV2000	1 0 1	_	_				
		CVM1	1 1						
		GL120		×					
		GL130	1 '	*					
		GL60S			1				
		GL60H	1 × I	0	×				
		GL70H	1						
		CP-9200SH	×	0	1				
Yaskawa E		CP-9300MS		×	1				
Yaskawa E	lectric	MP920	1 1	0	0				
		MP930	1 _ [_					
		MP940	1 '	×					
		PROGIC-8	1 l	*	×				
		CP-9200 (H)	1 I		1				
		MP2200	×	0	0				
		MP2300	1 ^ I	U	1 0				
		F3SP05 F3SP38							
		F3SP08 F3SP53	1 1		1				
		F3FP36 F3SP58	1 1		1				
Yokogawa	Electric	F3SP21 F3SP59	1 – 1	_					
		F3SP25 F3SP66	1 1						
		F3SP35 F3SP67	1 1		1				
		F3SP28	1		I				

Modules usable when connected with PLCs made by the OMRON Corporation ■ For Ethernet connection

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

Modules usable when connected with PLCs made by the Yaskawa Electric Corporation -■ For computer link connection

JAMSC-IF60, JAMSC-IF61, CP-217IF, 217IF-01, 217IF, 218IF-01

■ For Ethernet connection

Communication module 218IF, 218IF-01

Modules usable when connected with PLCs made by the Yokogawa Electric Corporation ■ For Ethernet connection

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

[CNCs] Mitsubishi CNCs

			Connection configuration							
Series	Model name	CPU direct connection		MELSECNET/ H*1		CC-Link IE Controller Network	CC-Link IE Field Network	Ethernet		
NC C70	Q173NCCPU	O*11	0	0	0	0	0	0		
ELDAS C6/C64	FCA C64	O*9	×	×	×	\times	×	0*		

Usable units when connected to the MELDAS C6/C64 ■ For Ethernet connection

MELDAS C6/C64	FCU6-EX875							
[Robot] Mitsubishi Industrial Robot	[Robot] Mitsubishi Industrial Robots							

Ethernet module

CPU series

Controller name	CPU direct connection		MELSECNET/ H*1	MELSECNET/	CC-Link IE Controller Network	CC-Link IE Field Network	Ethernet	
CRnQ-700	O#11	0	0	0	0	0	O*19	
CRnD-700	×	×	×	×	×	×	0	
: Connection configuration for network type MELSECNET/H mode and MELSECNET/H extension mode (PC-to-PC net).								
: Connection configuration for network t	pe MELSE	CNET/10	mode (PC-to-F	C net).		•		
(Including the case where the mode is				ELSECNET/10	(PC-to-PI	C net))		
: For multi-CPU configuration, use the C								
When using a computer link module for	r A series o	r an Ether	met module wit	h QnACPU, G1	SoftGOT	1000 canı	not monito	
the module.				and taken				
5 : Use the PLC CPU and MELSECNET/F 6 : Use the driver (SW0DNC-MNETH-B) of the control of the								
7 : Only the following software version or					ASCOUL	An Indici	Dilond	
A2CCPU. Farlier versions cannot be u		useu to v	ville data to tile	Allivoro(31),	AZSOFU	, AUJZITO	U anu	
AnNCPU(S1): Version L or later for a		ink and v	ersion H or late	r for a CPLI wit	hout link			
A2SCPU: Version H or later					nout min			
 A0J2HCPU-DC24: Version B or later 								
When connected with GT SoftGOT100	0, the CPU	s cannot b	oe connected s	imultaneously v	vith other	MELSOF1	products	
(GX Developer, etc.).								
K9 : Use a MELDAS C6/C64 of the following	g NC syste	m softwar	e version.					
 NC system software version D0 or la 								
*10: Computer link unit software version U A0.12HCPLL A171SHCPLL and A172SH				U, AZSHCPU,	AISHCPL	J, A1SJHC	PU,	

- *** IN SYSTEM and That Pollowing NC system software version.

 **NO System software version Do or later
 **10: Computer link unit software version U or later must be used for the ASSCPU, A2SHCPU, A1SHCPU, A1SHCPU,
 A02HCPU, A17SHCPU and A17SHCPU computer link connection.

 A02HCPU, A17SHCPU and A17SHCPU and A17SHCPU computer link connection.

 A02HCPU, A17SHCPU, A17SHCPU and A17SHCPU cannet be used.

 **11: Accessing 017SNCPU, CRNG-700 must be performed via USB or RS-232 of QCPU in the multi-CPU system.

 **12 MELSECNET/H extension mode cannot be used.

 **14: For connection through RS-232, LSADP-R2 is required.

 **15: Host station monitoring is not possible.

 **16: Use a CPU with the first 5 digits of the serial No. are 12042 or higher.

 **17: Only the CJM-CPU II can be connected.

 **18: Not applicable to duplex Ethernet

 **19: The CRnG-700's DISP IV Fcannot be used. Access the controller via the Ethernet module or the Ethernet port of the QCPU of a multi-CPU system.

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

Function list

GT1	GT15 GT12 GT SoftGOT	Model	GT11 GT10 Model
Category	picional funct opticional functional f	GT16 GT1695M GT1685M GT1675M GT1675M GT1665M GT1665M GT1665M GT1665 GT1655 GT1665 GT1595 -XTB -STB -STB -VTB -VTB -VTB -VTB -VTB -VTB -VTB -V	GT15 GT1585(V) GT1575(V) GT1575 GT1575 GT1565 GT1562 GT155 GT1275
	Mitsubishi PLC bus connection Mitsubishi PLC CPU direct connection Mitsubishi PLC computer link connection Mitsubishi PLC MELSECNET/I0 connection Mitsubishi PLC MELSECNET/I0 connection		12.1 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10
guration	Mitsubishi PLC CC-Link IE Controller Network connection Mitsubishi PLC CC-Link IE Field Network connection Mitsubishi PLC CC-Link connection		
tion confi	(ID station/via G4) Misubishi PLC Ethernet connection *10 Third party PLC connection Microcomputer connection	P.65	Via G4 only Via G4 only
Connec	MODBUS®/RTU connection MODBUS®/TCP connection Temperature controller connection Inverter connection		
	Servo amplifier connection CNC connection Robot controller connection		
N	Standard memory capacity	P.49	9MB 9MB 9MB 5MB 9MB 5MB 9MB 6MB 6MB 6MB 57MB 9MB 3MB 3MB 3MB 3MB 3MB 1.5MB 512KB 97MB 57MB 57MB 57MB 53MB 53MB 53MB 53MB 53MB 53MB 53MB 53
	65,536 colors		- GTISS- TBD only
200	4,096 colors 256 colors	GT1675	GT1555- OSBD only
200	16 colors	GT1972	GT1572
Ē	Monochrome (black/white) 16 gray scales Monochrome (black/white) 2 colors		GT150 GT150- GT1150- GT1150
_	Monochrome (blue/white) 16 gray scales 1920 x 1200 dots (WUXGA) (max. at specified resolution)		GT1050- GBBD only GBBD only
	1600 x 1200 dots (UXGA) 1280 x 1024 dots (SXGA) - 1024 x 768 dots (XGA)		
100	1024 × 786 dots (XGA) 800 × 600 dots (SVGA) 640 × 480 dots (VGA)		
suc		P.52	VTBD only P.52- P.52- P.52-
cificatic	288 x 96 dots 160 x 64 dots RS-232 interface		
are spe	RS-422/32 interface RS-422/232 interface	*5 *5 *5 *5 *5 *5 *5 *5 *5 *5 *5	*5 *5 *5 *5 *5 *5 *
Hardw	RS-422/485 interface Bus interface		
i de	Ethernet interface USB host USB device		
1	CF card interface Optional function board interface		
	Extension interface Multimedia & Video/RGB interface	2ch 2ch 2ch 2ch 2ch 2ch 2ch 1ch — 2ch	2ch 2ch 2ch 2ch 2ch 1ch
	Video/RGB interface Vertical display		GT1589/only GT1579/only
	Clock function (Battery) Buzzer output	P.52-	P.52-
9	Human sensor Printer Required (Printer unit) CF card unit (CF card extension unit) CF card unit (CF card extension unit)	P.33	P.33
ŧ	Sound output Required Sound output unit External input/output Required Sound output unit		
	Video input / RGB input / RGB output Required Video/RGB unit	P.32 • • • •	G11580 only G1575V only
	Backlight OFF detection function	P.34	P.34
Suc	Project data read/write (CF card/ USB memory USB memory G716 only-)		(CF card) (CF card)
t functik		P.39	P.39 P.33 P.33 P.33 P.35 P.35 P.35 P.35 P.35
lain uni	Gateway function Required (CF card) MES interface function Required (CF card)	P.35	Up to 4ch Up to 4ch Up to 4ch Up to 4ch Up to 4ch Up to 4ch Up to 2ch Up to 4ch Up to
Σ	(CF card/	P.27, 34	P.27, 34 P.34
esign	Base screen, window screen Dialog window display	P.37	P.37
creen d	BMP image display Graphic JPEG image display drawing DXF data		
ഗ് ഗ് *1 : The	IGES data function details, such as the number of settings and the data storage destination	on vary depending on the model	*8 : To use the historical data list display and the historical trend graph, it is necessary to specify the logging function in advance. In addition, it is necessary to install the optional function OS (logging).

70

^{#1 :} The function details, such as the number of settings and the data storage destination, vary depending on the model.

#2 : An optional function board may be required depending on the model, function version or hardware version of the GOT main unit. The optional function board to be used varies depending on the required function. For details, see "Notes for use" (page 81).

For the GT10 and GT SoftGOT1000, it is unnecessary to install an optional function board or the extended/optional function OS.

#3 : Necessary optional units, CF cards and USB memory devices other than the optional function board are shown. Parenthesized devices will be required depending on conditions of use. For details, see "Notes for use" (page 81).

#4 : For details, see "GT10" (page 48), "Handy GOT" (page 24) and "GT SoftGOT1000" (page 26).

#5 : The R5-322 interface can be used as an RS-422 interface by connecting an RS-422 conversion unit.

#6 : Structural restrictions are applied.

#7 : Only user alarms can be used.

^{*8 :} To use the historical trail data list display and the historical trend graph, it is necessary to specify the logging function in advance. In addition, it is necessary to install the optional function OS (logging).

*9 : Read from the PLC clock.

*10 : Different connection configurations may require different communication units. For details, see the GOT1000 Series Handbook and the GOT1000 Series Connection Manual.

*11: For the compatible hardware versions, please contact your local sales office.

*12 : Only CPU direct connection and Ethernet connection are supported.

*13: Only the FTP server function is supported.

Function list

GT1	6	GT15 GT12 GT Soft	GOT																							GT11 GT1	0							_
ory			In ction *2 *2 al function *2	age					G	T16	,			Model				GT15						GT12	GT	*2 *2 *2 *2 *2 *2 *2 *2 *2 *2 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3 *3	age		GT11		Model	GT10		
Catego		Function*1	Optional fuboard board Scheded optional Scheded options Scheded options Scheded options Scheded options of the recessar devices	Details pa	GT1695M -XTB XGA 15"	GT1685M -STB SVGA 12.1"	SVGA	OT1675I -VTB VGA 10.4"	GT167 -VNB VGA 10.4	-STB SVGA	-VTB VGA	-VNB VGA		GT1665 HS-VTBD VGA*4 6.5"			-STB_ SVGA	-STB_ -\ SVGA	VTB∐ -V	'NB∐ -' /GA	VTB∐ -V	NBLI-L.I. /GA VGA	_BD -VNI QVGA VG		SoftGOT 1000 Version3	Optional functional fu	Details pa	-Q BD QVGA	-Q BD	HS-Q BD QVGA*4	-Q BD QVGA	-Q BD -	GT1030 GT10 -HB□(W)(2)-LB□(4.5" 3.7	(W)(2)
		Standard (Japanese, Japanese (supporting European language Ontos (basic) (Chinese (Simplified, supporting European language)	ges),		•	•	•	•	•	•	•	•	•	•	•		•	•		•					•	0110000	Т	•	•	•	•	•	• •	,
		Chinese (Traditional, supporting European langua) Standard Chinese (Simplified), Chinese (Tradition onts (optional) Japan	al), Bequired		•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	-		•			_	_	_	-			_
1	2 ⊦	High-quality font FrueType font, TrueType font (7 segment			•	0	•	•	•	0	•	•	•	•	•		•	•		•					•			•	•	•	•	•	• •	
6	Sp A	Windows® font Stroke basic font (extended)	Required		•	•	•	•	•	•	•	•	•	•	•		•	•		•			-		•			-	_	<u> </u>	•	_		_
	L	Stroke font (optional) Logo character function	Required		•	•	•	•	•	•	•	•	•	•	•		•	•		•		_	-	-	•			-	-	-	-	-		
	S	Parts (object + figure) layer function Station No. switching			•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	• (•	•			_	_	_	_ _			
	Ĕ F	Multilingual support function Password		P.36			•	•		•	•		•	•	•		•	•		•	•	• (•	•		P.36					•		
	<u> </u>	Boot logo Data operation function					•	0			•	•	•	•	0		•	•	•	•	•	• (•			•	•	•	•	•	• •	
		Offset function Security level authentication Security							•			•	•				•			•					•					•			• •	
	_ -	function Operator authenticati	On Required (CF card/ USB memor <gt16 only=""></gt16>	v P.41	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	• -	- -	•		P.41	_	_	_	-	-		
	Т	_amp display Fouch switch				•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	• (•			•	•	•	•	•		
	С	Numeric display/input Data list display	40												•		•	•	•	•	•	• (•	•			•	•	•	_	_		
	Α	Historical data list display*8 ASCII display/input	Required #5	P.40	•	•	•	•	•	•	•	•	•	•	0		•	•	•	•	•	• (_	•			•	•	•	•	•	• •)
	О	Kana-Kanji Normal versi conversion function Enhanced versi Clock display			•		•	•		•		•	•	•			•		•		•	• (-		•			-	-	_	_	-		
5	gg C	Comment display	(CF card))		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•		•									•	
n desi	₹ _	Extended alarm monitoring/display Alarm display	(Battery)		•	•	•	•	•	•	•	•	•	•	•		•	•		•					•		P.43	-	-	•	● *7	■ *7	● *7	*7
Screen		Alarm history display Floating alarm display	(CF card))	_	-	-	-	-	-	-	_	-	-	-		-	-	-	-	-				-	(CF card)	•	•	•	•	•	0 0	
		Parts display Parts movement	(CF card)		•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	• (•	•			•	•	•	_	-		<u> </u>
	L	Panel meter display Level display				•	•			•			•		•		•	•	•	•	•	•		•	•						_	-		-
	H	Frend graph/Line graph/Bar graph/Statistical gra Historical trend graph*8	Pequired [®] 8	P.40			•	•			•			•	•		•	•	-	•	•	• (•		P.40	-	-	_	_	_		-
	S	Scatter graph Status observation function Advanced recipe function	Required (CF card)) P.37									•				•		•		•	• (•		P.37	-	_	-	-	•		
_	F	Recipe function	Required (CF card))	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	• (•	•	Required	1	•	•	•	•	•	• •	
	_	Report function Hardcopy File saving in CF ca	Required (CF card))	•	•	•	•	•	•	•	•	•	•	•		•	•	_	•	_	_	-	-	•				_	_	_	_		-
	Е	function Printing on printing on printing or printing	ter Required (Printer uni	it) P.33	•	•	•	•	•	•	•	•	•		•		•	•	•	•	•	•	-		•	Required	P.33	-		1	-	-		
		RFID function Multimedia function	Required Multimedia un		•	•	•	•	_	•	•	_	_	_	_		_	_	_	_	_				_	Required	P.32	_	_	_	-	_		-
		Remote personal computer function (Ethern		P.34	•	•	•	•	_	•	•	_	•	_	-		_	-	-	-	-				_		P.34	-	_	-				=
	₫ _	Remote personal computer function (seri Operation panel function	al) Required Video/RGI input unit Required External input output unit	t P.34	•	•	•	•	-	•	•	-	-	_	-	Gī	T1585V only		-	-	-	-			-		P.34	_	_	_	-			
6		Operation log function	Required CF card	P.41	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	-		•		P.41	_	-	-	-	-		
	-	Document display function	(GT15 only) Required CF card		•	•	•	•	•	•	•	•	•	•	•		•	•		•			-	-	•		P.33	_	_	_	_	_		-
	\vdash	Logging function Log viewer function	Hequired (Battery) (CF card/	P.40	•	•	•	•	•	•	•	•	•	•	-		•	•	•	•	•	•		•	•		P.40 P.40	_		_				
	-	Script function Project script/Screen scr		y) P.37	•	•	•	•	•	•	•	•	•	•	•		•			•					•		P.37	•	•	•	_	_		-
		Device data transfer function	Pipt Required Required	P.33	•	•	•	•		•	•	•	•	•	•		•	•		•		$\overline{}$	<u> </u>		•		P.33		_	_	_	_		_
		Device monitor function System monitor function	Required	P.46	•	•	•	-	•	•	-	•	•	•	•		•	•	•	•	•	•		-	_	Required	P.46	•		•	_	-		-
		List editor for A List editor for FX	Required	P.47	•	•	•	•	•	•	•	•	•	•	•		•	•		•					_	Required	P.47	•	GT115 Q BDA only	•	_	-	_ -	_
		SFC monitor function	Required Required*2 (GT15 only) Required CF card	P.44	•	•	•	•	•	•	•	•	•	•	•		•			•			1555- D only	- =	_	Required	P.44	_	_	_	_	_		
tions	N	Motion SFC monitor function	Required*2 (GT15 only) Required CF card	P.45	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	O GT	D only 1555- D only		-		P.45	-	-	-	-	-		
e func	L	_adder editor function	Required*2 (GT15 only) Required CF card	P.45	•	•	•	•	•	•	•	•	_	•	•		•	•	•	•	•			- -	_		P.45	_	_	-	- 1	-		
nance	L	_adder monitor function	Required*2 (GT15 only) Required (CF card)	P.44	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	GT	1555-		-		P.44	-	_	_	_	-		
Mainte	C	ntelligent unit monitor function Q motion monitor function	Required Required	P.46 P.47	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	• VTB	D only _		_ 		P.46 P.47			_	_	_		- -
_	Ν	Servo amplifier monitor function Network monitor function	Required Required	P.46	•	•	•	•		•	•	•	•	•	•		•	•		•			_		_		P.46	_	-	-	_	_		-
	C	CNC monitor function CNC data input/output function	Required CF card/ USB memor	v 				_	_		_	— ·	_	_	•		•	•	-	_	_	-		_	_		P.47	_	_	-	_	_		-
	Λ	Backup/restoration function MELSEC-L troubleshooting function Maintenance time notification function	Required <gt16 only:<="" td=""><td>P.42 P.46</td><td></td><td></td><td>•</td><td></td><td></td><td></td><td>•</td><td></td><td>0</td><td>•</td><td><u> </u></td><td></td><td><u> </u></td><td>- </td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td>_ _ _</td><td></td><td>P.42 P.46 P.38</td><td><u> </u></td><td>_ _ _</td><td>_ </td><td>_</td><td></td><td></td><td></td></gt16>	P.42 P.46			•				•		0	•	<u> </u>		<u> </u>	-	-	-	-	-			_ _ _		P.42 P.46 P.38	<u> </u>	_ _ _	_ 	_			
*1 · The		tion details, such as the number of setting		-			•									**		ctural restrict			-	- '	_ _				F.38							—

72

73

For Initial Startup & Operations

iQ Platform

^{*1 :} The function details, such as the number of settings and the data storage destination, vary depending on the model.

*2 : An optional function board may be required depending on the model, function version or hardware version of the GOT main unit. The optional function board to be used varies depending on the required function. For details, see "Notes for use" (page 81).

For the GT10 and GT SoftGOT1000, it is unnecessary to install an optional function board or the extended/optional function OS.

*3 : Necessary optional units, CF cards and USB memory devices other than the optional function board are shown. Parenthesized devices will be required depending on conditions of use. For details, see "Notes for use" (page 81).

⁽page 81).

44 : For details, see "GT10" (page 48), "Handy GOT" (page 24) and "GT SoftGOT1000" (page 26).

55 : The RS-232 interface can be used as an RS-422 interface by connecting an RS-422 conversion unit.

^{*6 :} Structural restrictions are applied.
*7 : Only user alarms can be used.
*8 : To use the historical data list display and the historical trend graph, it is necessary to specify the logging function in advance. In addition, it is necessary to install the optional function OS (logging).
*9 : Read from the PLC clock.
*10 : Different connection configurations may require different communication units. For details, see the GOT1000 Series Handbook and the GOT1000 Series Connection Manual.
*11: For the compatible hardware versions, please contact your local sales office.
*12: Only CPU direct connection and Ethernet connection are supported.
*13: Only the FTP server function is supported.

Main unit model name GT16 9 5 M - X T B A Q*1 With built-in bus connection interface for QCPU 5 256 colors or more V Compatible wirh video/RGB 2 16 colors None Panel mount type A 100 to 240VAC X (1024 × 768 dots) 12.1" T (high brightness, D 24VDC (Q mode)/motion controller CPU (Q series) A*1 With built-in bus connection interface for QnA/ACPU/motion controller CPU (A series) 2*2 With built-in RS-232 10.4" 0 Monochrome HS Handy type SVGA wide viewing angle) 5VDC (800 × 600 dots) N TFT color 6 8.4", 6.5" Compatible with M multimedia & Video/RGB 5.7" VGA S STN color B STN monochrome (640 × 480 dots) 4.7" None*2 With built-in RS-422 *1 : GT115 -Q BDQ and GT115 -Q BDA only 4.5" QVGA (blue/white) Q (320 × 240 dots) L STN monochrome (288 × 96 dots) STN monochrome H STN monocino...c (White/black, high contrast) None (160 × 64 dots) GT16 High performance models with multimedia and a host of features and functions Performance models ideal for a wide range of applications in a network or standalone environment W White backlight Black Large basic models with integrated features and communications W White None Green backlight Small models with a host of advanced functions

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

\sim \sim	!	units	
-()	main	linite	

GT10 Compact models with basic functions

GOI	mam c	aiiit5					1	
	Мос	del name	Screen size [resolution]	Display	Display colors (number of colors)	Power supply	Memory size	Remarks
		GT1695M-XTBA	15" XGA	TFT color LCD		100-240VAC		Compatible with
	GT1695	GT1695M-XTBD	[1024 × 768 dots]	(high brightness, wide viewing angle)	65,536 colors	24VDC	15MB	multimedia & Video/RGB
		GT1685M-STBA	12.1" SVGA	TFT color LCD		100-240VAC		Compatible with
	GT1685	GT1685M-STBD	[800 × 600 dots]	(high brightness, wide viewing angle)	65,536 colors	24VDC	15MB	multimedia & Video/RGB
			10.4" SVGA	TFT color LCD		100-240VAC		
		GT1675M-STBA	1	(high brightness, wide viewing angle)	65,536 colors	24VDC	15MB	Compatible with
		GT1675M-STBD	[800 × 600 dots]					multimedia & Video/RGB
		GT1675M-VTBA		TFT color LCD	65,536 colors	100-240VAC	15MB	Compatible with
	GT167	GT1675M-VTBD	40.411.404	(high brightness, wide viewing angle)	-	24VDC		multimedia & Video/RGB
		GT1675-VNBA*1	10.4" VGA	TFT color LCD	4,096 colors	100-240VAC	11MB	_
GT16		GT1675-VNBD*1	[640 × 480 dots]		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	24VDC		
		GT1672-VNBA*1		TFT color LCD	16 colors	100-240VAC	11MB	_
		GT1672-VNBD*1				24VDC		
		GT1665M-STBA	8.4" SVGA	TFT color LCD	65,536 colors	100-240VAC	15MB	Compatible with
		GT1665M-STBD	[800 × 600 dots]	(high brightness, wide viewing angle)		24VDC	-	multimedia & Video/RGB
	GT166	GT1665M-VTBA		TFT color LCD	65,536 colors	100-240VAC	15MB	Compatible with
		GT1665M-VTBD	8.4" VGA	(high brightness, wide viewing angle)		24VDC		multimedia & Video/RGB
		GT1662-VNBA*1	[640 × 480 dots]	TFT color LCD	16 colors	100-240VAC	11MB	_
		GT1662-VNBD*1			10 00.0.0	24VDC		
	GT1655	GT1655-VTBD*1 (VEV)	5.7" VGA [640 × 480 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	24VDC	15MB	_
	Handy GOT	GT1665HS-VTBD*1	6.5" VGA [640 × 480 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	24VDC	15MB	_
	GT1595	GT1595-XTBA	15" XGA	TFT color LCD	65,536 colors	100-240VAC	9MB	_
	411000	GT1595-XTBD	[1024 × 768 dots]	(high brightness, wide viewing angle)	00,000 001010	24VDC	ONE	
		GT1585V-STBA		TFT color LCD		100-240VAC		Compatible with
	GT1585	GT1585V-STBD	12.1" SVGA	(high brightness, wide viewing angle)	65,536 colors	24VDC	9MB	Video/RGB
	G1 1505	GT1585-STBA	[800 × 600 dots]	TFT color LCD	05,550 colors	100-240VAC	SIVID	_
		GT1585-STBD		(high brightness, wide viewing angle)		24VDC		_
		GT1575V-STBA		TFT color LCD		100-240VAC		Compatible with
		GT1575V-STBD	10.4" SVGA	(high brightness, wide viewing angle)	65,536 colors	24VDC	9MB	Video/RGB
		GT1575-STBA	[800 × 600 dots]	TFT color LCD	05,530 COIOIS	100-240VAC	SIVID	
		GT1575-STBD		(high brightness, wide viewing angle)		24VDC]	
	OT457	GT1575-VTBA		TFT color LCD	CE EOC solore	100-240VAC	9MB	
GT15	GT157	GT1575-VTBD	1	(high brightness, wide viewing angle)	65,536 colors	24VDC	9 9 IVID	
G113		GT1575-VNBA	10.4" VGA	TET 100	256 colors	100-240VAC	- FNAD	Ī -
		GT1575-VNBD	[640 × 480 dots]	TFT color LCD	256 COIOIS	24VDC	5MB	
		GT1572-VNBA		TET 100	16 colors	100-240VAC	EMD	
		GT1572-VNBD		TFT color LCD	16 COIOIS	24VDC	5MB	
		GT1565-VTBA		TFT color LCD	CE EOC solore	100-240VAC	9MB	
	CT1FC	GT1565-VTBD	8.4" VGA	(high brightness, wide viewing angle)	65,536 colors	24VDC	SIVID	
	GT156	GT1562-VNBA	[640 × 480 dots]		1C seleve	100-240VAC	- FNAD	1 -
		GT1562-VNBD		TFT color LCD	16 colors	24VDC	5MB	
		GT1555-VTBD	5.7" VGA [640 × 480 dots]	TFT color LCD	CE EOC solore			
	GT155	GT1555-QTBD		(high brightness, wide viewing angle)	65,536 colors	24VDC	9MB	
	G1155_	GT1555-QSBD	5.7" QVGA	STN color LCD	4,096 colors	24400	ONE	_
		GT1550-QLBD	[320 × 240 dots]	STN monochrome LCD	Monochrome (black/white) 16 gray scales			
	074075	GT1275-VNBA	10.4" VGA			100-240VAC		
0740	GT1275	GT1275-VNBD	[640 × 480 dots]	TET color I CD	OFC seleve	24VDC	O. A.D.	
GT12	OT4005	GT1265-VNBA	8.4" VGA	TFT color LCD	256 colors	100-240VAC	6MB	_
	GT1265	GT1265-VNBD	[640 × 480 dots]			24VDC	1	
		GT1155-QTBD						_
		GT1155-QTBDQ		TFT color LCD				Dedicated to Q bus connection
	074455	GT1155-QTBDA	1		050			Dedicated to A bus connection
	GT1155	GT1155-QSBD			256 colors			_
		GT1155-QSBDQ	1	STN color LCD				Dedicated to Q bus connection
GT11		GT1155-QSBDA	5.7" QVGA			24VDC	3MB	Dedicated to A bus connection
		GT1150-QLBD	[320 × 240 dots]			1		_
	GT1150	GT1150-QLBDQ		STN monochrome LCD	Monochrome (black/white)			Dedicated to Q bus connection
		GT1150-QLBDA	1		16 gray scales			Dedicated to A bus connection
	Handy	GT1155HS-QSBD	1	STN color LCD	256 colors	1		
	GOT	GT1150HS-QLBD	1	STN monochrome LCD	Monochrome (black/white) 16 gray scales	1		_
		GT1055-QSBD	5.7" QVGA	STN color LCD	256 colors			
	GT105	GT1050-QBBD	[320 × 240 dots]	STN monochrome LCD	Monochrome (blue/white) 16 gray scales	24VDC	3MB	_
GT10	-	GT1045-QSBD	4.7" QVGA	STN color LCD	256 colors			
	GT104	GT1040-QBBD	[320 × 240 dots]	STN monochrome LCD	Monochrome (blue/white) 16 gray scales	24VDC	3MB	_
			1 [220 / 2 .0 0010]					

GOT main units

	G1 G1 G1 G1 G1	el name	Screen size [resolution]	Display			y colors of colors)	Power supply	Memory size	Remarks
		GT1030-HBD*1 (VEV)			Frame color		3-color LED	24VDC		Dedicated to RS-422 connection
GT1030 GT10 GT1030 GT10 GT10 GT10 GT10 GT10 GT10		GT1030-HBD2*1 (/EV/					1	24000		Dedicated to RS-232 connection
		GT1030-HBL*1 (VEV)	4.5"	STN monochrome LCD		Monochrome	(green, orange, red)	5VDC	1.5MB	Dedicated to RS-422FX connection
		GT1030-HBDW*1 (VEV)	[288 × 96 dots]	(High contrast)	Black	(black/white)	3-color LED	24VDC	1.SIVID	Dedicated to RS-422 connection
		GT1030-HBDW2*1 (VEV)					(white, pink, red)	_		Dedicated to RS-232 connection
GT1030 GT1030 GT1030 GT1030 GT1030 GT1030 GT1030 GT1030 GT1030 GT1030 GT1030 GT1030 GT1030 GT1030 GT1030 GT1020	GT1030-HBLW*1 (VEW)					(write, pirik, reu)	5VDC		Dedicated to RS-422FX connection	
	GT1030-HWD*1 (VEV)					2 color I ED	24VDC		Dedicated to RS-422 connection	
GT1030 GT1 GT1 GT1 GT1 GT1 GT10 GT10		GT1030-HWD2*1 (VEV)								Dedicated to RS-232 connection
GT GT GT GT	GT1030-HWL*1 (VEV)	4.5"	STN monochrome LCD	White	Monochrome	(green, orange, red)	5VDC	1.5MB	Dedicated to RS-422FX connection	
	GT1030-HWDW*1	[288 × 96 dots] (Hi	(High contrast)	VVIIILE	(black/white)	3-color LED	24VDC	1.51415	Dedicated to RS-422 connection	
	GT1030-HWDW2*1 (VEW)					(white, pink, red)	_		Dedicated to RS-232 connection	
CT10	GT10 G	GT1030-HWLW*1 (VEV)					(write, pirik, reu)	5VDC		Dedicated to RS-422FX connection
GIIU		GT1020-LBD					2 color I ED	SAMDO		Dedicated to RS-422 connection
		GT1020-LBD2					3-color LED 24VDC		Dedicated to RS-232 connection	
		GT1020-LBL	3.7"	STN monochrome LCD	Black	Monochrome	(green, orange, red)	5VDC	512KB	Dedicated to RS-422FX connection
		GT1020-LBDW	[160 × 64 dots]	OTTA MONOCHIOME LOD	Diack	(black/white)	3-color LED	24VDC	JIZKD	Dedicated to RS-422 connection
		GT1020-LBDW2					(white, pink, red)			Dedicated to RS-232 connection
	CT1000	GT1020-LBLW					(write, pilik, reu)	5VDC		Dedicated to RS-422FX connection
	G11020	GT1020-LWD					3-color LED	24VDC		Dedicated to RS-422 connection
		GT1020-LWD2					1	24000		Dedicated to RS-232 connection
		GT1020-LWL	3.7" STN	STN monochrome LCD	White	Monochrome	(green, orange, red)	5VDC	512KB	Dedicated to RS-422FX connection
		GT1020-LWDW		311 IIIOIIOCIIIOIIIE ECD	VVIIILE	(black/white)	3-color LED	24VDC	JIZKD	Dedicated to RS-422 connection
		GT1020-LWDW2					l	_		Dedicated to RS-232 connection
		GT1020-LWLW					(white, pink, red)	5VDC		Dedicated to RS-422FX connection

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

Communication interface

GT15 GT15 GT15 GT15 GT15 GT15 GT15 GT15 GT15 GT15 GT15 GT15 GT15 GT15 GT15 GT15 GT15 GT15	Model name	del name Specifications				oplicab	licable model		
r roudet riume	model name	- Openiodionio		GT16	GT15	GT12	GT11	Handy GOT	GT10
	GT15-QBUS	Bus connection (1ch) unit standard model				_	_	_	_
	G113-QD00	for QCPU (Q mode)/motion controller CPU (Q series)							
	GT15-QBUS2	Bus connection (2ch) unit standard model					_	_	l _
	G113-QD032	for QCPU (Q mode)/motion controller CPU (Q series)							
	GT15-ABUS	Bus connection (1ch) unit standard model				_	_		
	G115-ADUS	for QnA/ACPU/motion controller CPU (A series)		_		_	_		_
	GT15-ABUS2	Bus connection (2ch) unit standard model		•	•	_			
	G115-ABUS2	for QnA/ACPU/motion controller CPU (A series)		_	_	_	_	_	_
Bus connection unit	CT1F 7FORUGI	Bus connection (1ch) unit thin model*1			•				
	G115-75QBUSL	for QCPU (Q mode)/motion controller CPU (Q series)		•	_	_		_	_
	OT1E ZEODUCOL	Bus connection (2ch) unit thin model*1			•	_	-		
	G115-75QBUSZL	for QCPU (Q mode)/motion controller CPU (Q series)		•	_	_	_	_	_
	GT15-75QBUS2L GT15-75QBUS2L GT15-75ABUS2L GT15-75ABUS2L GT15-RS2-9P GT15-RS2-9P GT15-RS4-9S GT15-RS4-9S GT15-RS4-TE 422 conversion unit GT15-RS2T4-9P	Bus connection (1ch) unit thin model*1				_			
	G115-75ABUSL	for QnA/ACPU/motion controller CPU (A series)		•	•	_	_	_	_
GT1s	OT45 75 4 DU 1001	Bus connection (2ch) unit thin model*1							
	G115-75ABUS2L	for QnA/ACPU/motion controller CPU (A series)		•	•	_	_	_	_
		RS-232 serial communication unit (D-sub 9-pin (male))		•	•	_	_	_	_
	GT15-RS4-9S	RS-422/485 serial communication unit (D-sub 9-pin (fema	•	•	_	_	_	_	
Serial communication unit	0745 004 75	RS-422/485 serial communication unit (terminal block)*2							
	G115-RS4-1E	* Usable only when connecting to temperature controllers/indicating controllers vi	a RS-485 or in GOT multi-drop connection	•	•	_	_	_	_
	GT15-RS2T4-9P	DO 000 DO 100	RS-422 connector: 9-pin	* 6	*4	_	_	_	_
RS-422 conversion unit	GT15-RS2T4-25P	RS-232→RS-422 conversion unit	RS-422 connector: 25-pin	* 6	*4	_	_	_	_
MELSECNET/H	GT15-J71LP23-25	Standard station unit (optical loop)				_	_	_	_
communication unit	GT15-J71BR13	Standard station unit (coaxial bus)		•	•	_	_	_	_
CC-Link IE Controller Network		, ,		_					
communication unit	GT15-J71GP23-SX	Standard station unit (optical loop)		•	•	_	_	_	_
CC-Link IE Field Network communication unit	GT15-J71GF13-T2 (NEW)	Intelligent device station unit				_	_	_	_
CC-Link communication unit	GT15-J61BT13	Intelligent device station unit (supporting CC-Link version	(2)	•	•	_	_	_	_
Ethernet communication unit	GT15-J71E71-100	Ethernet (100Base-TX) unit	,	_	•	_	_	_	-
Serial multi-drop connection unit GT01-RS4-M For GOT multi-drop connection						* 5	*5	_	
Connector conversion adapter	_	_	*5	*5	_	•			
·	GT11HS-CCL	· ·	-р	_	_	_	_		_
CC-Link interface unit	GT11H-CCL	CC-Link interface unit for Handy GOT		_	_	_	_		_
1 : The unit cannot be used stacked or		*4 : The unit cannot b	e used with the GT155 .		-				

*1: The unit cannot be used stacked on other units.

*4: The unit cannot be used with the GT155_...

*2: The unit may not be able to be used depending on the connection destination. See "List of connectable models"

*5: For the hardware version compatible with GOT, please contact your local sales office.

(page 65).

*3 : The unit cannot be used when connecting to temperature controllers/indicating controllers via RS-485 (2-wire type)

*6 : The unit cannot be used with the GT1655.

Ontional units

deo input unit GB input unit deo/RGB input unit GB output unit F card unit F card extension unit	Model name	0			pplicab	ole mod		
Product name	Model name	Specifications	GT16	GT15	GT12	GT11	Handy GOT	GT10
Drintor unit	GT15-PRN	USB slave (PictBridge) for printer connection, 1ch						
Filliter unit	G115-FNN	* Cable for printer connection (3m) included			-	_		-
Multimedia unit	GT16M-MMR	For video input (NTSC/PAL) 1ch motion image playback	*2	_	_	_	_	_
Video innut unit	GT16M-V4	For video input (NTSC/PAL) 4ch	*2	_	_	_	_	_
video iriput uriit	GT15V-75V4	For video input (NTSC/PAL) 4ch	-	*3	_	-	-	-
DCD innut unit	GT16M-R2	For analog RGB input 2ch	*2	_	_	_	_	_
RGB input unit	GT15V-75R1	For analog RGB input 1ch	T -	*3	_	_	_	_
Video/DCD innut unit	GT16M-V4R1	For video input (NTSC/PAL) 4ch / analog RGB 1ch composite input	*2	_	_	-	-	_
Video/RGB iriput unit	GT15V-75V4R1	For video input (NTSC/PAL) 4ch / analog RGB 1ch composite input	-	● *3	_	-	_	_
DCD autout unit	GT16M-ROUT	For analog RGB output 1ch	● *2	_	_	-	_	_
NGB output unit	GT15V-75ROUT	For analog RGB output	—	● *3	_	-	-	_
CF card unit	GT15-CFCD	For additional CF card port (B drive) on the back of the GOT	•		_	-	-	_
CF card extension unit	GT15-CFEX-C08SET	For additional CF card port (B drive) at the front of the control panel*1	•	•	_	-	_	_
Sound output unit	GT15-SOUT	For sound output	•	•	_	-	_	_
Estamal innut/autaut unit	GT15-DIOR	For external input/output devices and operation panel connection (negative common input / source type output)	•		-	-	_	_
External input/output unit	GT15-DIO	For external input/output devices and operation panel connection (positive common input / sink type output)			_	_	_	_

- *2 : Excluding the GT16 -VNB and GT1655.

Product name	Model name	Contents
GT Works3 Version1	SW1DNC-GTWK3-E	Single license <english version=""></english>
a. Trained relation	SW1DNC-GTWK3-EA	Multiple-license <english version="">^{★3}</english>
License key for GT SoftGOT1000*1	GT15-SGTKEY-U	For USB port
Personal computer remote operation	GT16-PCRAKEY	4 Bassas
function (Ethernet) license*2	GI 10-PUHANEY	1 license

*1 : To use GT SoftG0T1000, a license key for GT SoftGOT1000 is necessary for each personal computer.

*2 : 1 license is required for 1 GOT unit.

*3 : The desired number of licenses (2 or more) can be purchased. For details, please contact your local sales office.

Options

Options									
Product name	Model name	Spe	cifications		_	plicab			
				GT16	GT15	GT12	GT11	Handy GOT	GT10
	GT16-90XLTT		For GT1695M-XTB	•	-		_	_	
	GT16-80SLTT		For GT1685M-STB	•			_	_	
	GT16-70SLTT		For GT1675M-STB	•				_	
	GT16-70VLTT		For GT1675M-VTB *1	•		-	_	_	 -
	GT16-70VLTTA		For GT1675M-VTB_*2	•					
	GT16-70VLTN		For GT1675-VNB /GT1672-VNB	•	-		_	-	
	GT16-60SLTT		For GT1665M-STB	•		_		_	
	GT16-60VLTT		For GT1665M-VTB	•			_	_	
Backlight	GT16-60VLTN	Backlight	For GT1662-VNB	•			_	_	
3	GT15-90XLTT	3	For GT1595-XTB	_	•	_	-	_	
	GT15-80SLTT		For GT1585V-STB /GT1585-STB	_	•		_	_	
	GT15-70SLTT		For GT1575-STB	_	•		-	_	
	GT15-70VLTT		For GT1575V-STB_/GT1575-VTB_/GT1575-STB_*4	-	•		-	-	
	GT15-70VLTN		For GT1575-VNB /GT1572-VNB	_	•		_	_	
	GT15-60VLTT		For GT1565-VTB	_	•	_	-	_	
	GT15-60VLTN		For GT1562-VNB	_	•	-		_	
	GT12-70VLTN		For GT1275-VNB	_		•	_	_	
	GT12-60VLTN		For GT1265-VNB	-		•	_	_	
	GT16-MESB		For MES interface function	•			_	_	
	GT15-FNB	Optional function board	(No expansion memory)	_	•		_	_	
	GT15-QFNB	* The required optional function board	(No expansion memory)	_	•	_	_	_	
Optional function board	GT15-QFNB16M	varies depending on the GOT main unit	+ 16MB expansion memory	_	•	_	_	_	
	GT15-QFNB32M	and function.	+ 32MB expansion memory	_	•	_	_	_	
	GT15-QFNB48M	For the details, see "Notes for use"	+ 48MB expansion memory	-	•		_	_	
	GT15-MESB48M	(page 81).	+ 48MB expansion memory		•		_	_	
	GT11-50FNB		_				*5	● *9	
GT10 memory loader	GT10-LDR		data transfer) no power source required				_	_	•
GT10 memory board	GT10-50FMB	For GT105 /GT104 (for OS and		_	_		_	_	•
	GT16-90PSCB		Clear, 5 sheets		_	_	_	_	
	GT16-90PSGB	Protective sheet for 15" screen	Anti-glare, 5 sheets		_	_	_	_	_
	GT16-90PSCW	(for GT16)	Clear (frame: white), 5 sheets			_	_	_	
	GT16-90PSGW	(101 41 10)	Anti-glare (frame: white), 5 sheets				_	_	
	GT16-90PSCB-012		Clear (USB protective cover type), 5 sheets*14				_	_	
	GT15-90PSCB		Clear, 5 sheets	_	•		_	_	
	GT15-90PSGB	Protective sheet for 15" screen	Anti-glare, 5 sheets	_	•		_	_	
	GT15-90PSCW	(for GT15)	Clear (frame: white), 5 sheets	_	•	_	_	_	_
	GT15-90PSGW		Anti-glare (frame: white), 5 sheets	_		_	_	_	
	GT16-80PSCB		Clear, 5 sheets		_	-	_	_	
	GT16-80PSGB	Protective sheet for 12.1" screen	Anti-glare, 5 sheets		_	_	_	_	_
	GT16-80PSCW	(for GT16)	Clear (frame: white), 5 sheets	•	_	_	_	_	_
	GT16-80PSGW	(101 41 10)	Anti-glare (frame: white), 5 sheets	•		_	_	-	
	GT16-80PSCB-012		Clear (USB protective cover type), 5 sheets*14		-	_	_	_	_
	GT15-80PSCB		Clear, 5 sheets	_	•	_	_	_	_
	GT15-80PSGB	Protective sheet for 12.1" screen	Anti-glare, 5 sheets	_	•	_	_	_	
	GT15-80PSCW	(for GT15)	Clear (frame: white), 5 sheets	_		_	_	-	_
	GT15-80PSGW		Anti-glare (frame: white), 5 sheets	_		_	_	_	
	GT16-70PSCB		Clear, 5 sheets		-	_	_	_	_
	GT16-70PSGB	Protective sheet for 10.4" screen	Anti-glare, 5 sheets		-	_	_	_	_
	GT16-70PSCW	(for GT16)	Clear (frame: white), 5 sheets		-	-	_	-	
	GT16-70PSGW	(101 01 10)	Anti-glare (frame: white), 5 sheets			_	_		
	GT16-70PSCB-012		Clear (USB protective cover type), 5 sheets*14		-	_	_	_	_
	GT15-70PSCB		Clear, 5 sheets	_		_	_	_	_
	GT15-70PSGB	Protective sheet for 10.4" screen	Anti-glare, 5 sheets	_		_	_	-	_
Protective sheet	GT15-70PSCW	(for GT15)	Clear (frame: white), 5 sheets	_		_	_	-	_
Frotective sneet	GT15-70PSGW		Anti-glare (frame: white), 5 sheets	_		-	-	_	-
	GT11-70PSCB	Protective sheet for 10.4" screen (for GT12)	Clear, 5 sheets	_	-		_	_	_
	GT16-60PSCB		Clear, 5 sheets	•	_	_	_	_	_
	GT16-60PSGB	Protective sheet for 8.4" screen	Anti-glare, 5 sheets	•	_	-	-	-	_
	GT16-60PSCW	(for GT16)	Clear (frame: white), 5 sheets	•	-	_	_	_	
	GT16-60PSGW	(101 01 10)	Anti-glare (frame: white), 5 sheets	•	-	_	_	_	_
	GT16-60PSCB-012		Clear (USB protective cover type), 5 sheets*14		-	_	_	_	_
	GT15-60PSCB		Clear, 5 sheets	_		_	_	_	_
	GT15-60PSGB	Protective sheet for 8.4" screen	Anti-glare, 5 sheets	_		-	-	-	-
	GT15-60PSCW	(for GT15)	Clear (frame: white), 5 sheets	_	•	_	_	_	
	GT15-60PSGW	<u> </u>	Anti-glare (frame: white), 5 sheets	-	•	_	_	_	
	GT11-60PSCB	Protective sheet for 8.4" screen (for GT12)	Clear, 5 sheets	_	_	•	_	_	
	GT16H-60PSC	Protective sheet for 6.5" screen (for GT16 Handy GOT)	Clear, 5 sheets	-	-	_	_		
	GT16-50PSCB		Clear, 5 sheets		-	_	_	_	_
	GT16-50PSGB	Protective shoot for E 7" cores	Anti-glare, 5 sheets	•	-	_	_	_	_
	GT16-50PSCW	Protective sheet for 5.7" screen	Clear (frame: white), 5 sheets	•	_	_	_	_	
	GT16-50PSGW NEW	(for GT16)	Anti-glare (frame: white), 5 sheets	•	-		-	-	
	GT16-50PSCB-012 (NEW)		Clear (USB protective cover type), 5 sheets*14	•	-	-	-	-	
	GT15-50PSCB		Clear, 5 sheets	_	•	-	-	_	
	GT15-50PSGB	Protective sheet for 5.7" screen	Anti-glare, 5 sheets	-	•	<u> </u>	-	_	
	GT15-50PSCW	(for GT15)	Clear (frame: white), 5 sheets	_	•	-	-	-	_
	GT15-50PSGW	`/	Anti-glare (frame: white), 5 sheets	_	•	_	_	_	_
	GT11-50PSCB		Clear, 5 sheets	_	_	-	•	-	
	GT11-50PSGB	Protective sheet for 5.7" screen	Anti-glare, 5 sheets	-	-	-	•	-	
	GT11-50PSCW	(for GT11)	Clear (frame: white), 5 sheets	-	-			_	 _
	GT11-50PSGW	(Anti-glare (frame: white), 5 sheets	-	-		•	_	
		-	3		-				

Options

Product name	Model name		Spa	cifications			_	pplicab			
Froduct Hairie	Wouel Hame		Spe	Cilications		GT16	GT15	GT12	GT11	Handy GOT	GT10
	GT11H-50PSC	Protective sheet for 5.7" scre	een (for GT11 Handy GOT)	Clear, 5 sheets		-			_		_
	GT10-50PSCB			Clear, 5 sheets		-	_	-	_	-	
	GT10-50PSGB	Protective sheet for	or 5.7" screen	Anti-glare, 5 sheets		I -	_	I -	I -	I - I	•
	GT10-50PSCW	(for GT105)		Clear (frame: white), 5 sh	eets	-	_	T -	-	I - I	•
	GT10-50PSGW	ĺ .		Anti-glare (frame: white),	5 sheets	—	_	-	_	-	
	GT10-40PSCB			Clear, 5 sheets		-	_	-	l –	-	
	GT10-40PSGB	Protective sheet for	or 4.7" screen	Anti-glare, 5 sheets		T	_		T-		
	GT10-40PSCW	(for GT104_)		Clear (frame: white), 5 sh	eets	T-		T -	T -		
Protective sheet	GT10-40PSGW	(,		Anti-glare (frame: white),		t -	—	+ -	! -	-	•
10.00.170 0.1001	GT10-30PSCB	Clear, 5 sheets						! -	<u> </u>	-	
	GT10-30PSGB	Protective sheet for	or 4.5" screen	Anti-glare, 5 sheets		-	_	 - 	<u> </u>	-	
	GT10-30PSCW	(for GT1030)	JI 4.5 3016611	Clear (frame: white), 5 sh	ooto	 	-	 	+ -	-	
	GT10-30PSGW	(101 01 1030)		Anti-glare (frame: white),		 	_			_	
	GT10-20PSCB			Clear, 5 sheets	o sileets	 		+=	-	-	
	GT10-20PSGB	Duntantina abant fo	0 7"	Anti-glare, 5 sheets		 _	 	+=	+=-	- -	-
		Protective sheet fo	or 3.7 screen								-
	GT10-20PSCW	(for GT1020)		Clear (frame: white), 5 sh		_	_	-			•
	GT10-20PSGW			Anti-glare (frame: white),	5 sheets	<u> </u>		<u> </u>		_	-
	GT16-UCOV	Protective cover for	or USB interface	For 15"/12.1"/10.4"/8.4" For 5.7"		•	_	<u> </u>	_	-	
USB protective cover	GT16-50UCOV	on main unit front		•	_	- -	<u> </u>				
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	GT15-UCOV	(for replacement)	r	For 15"/12.1"/10.4"/8.4"		<u> </u>	•	<u> </u>			-
	GT11-50UCOV	· · ·		For 5.7"		_	•	-		_	_
	GT05-90PCO	Oil resistant cover	for 15" screen			_	_	_	-		
	GT05-80PCO	Oil resistant cover	for 12.1" screen					-	_	_	-
	GT05-70PCO	Oil resistant cover	Oil resistant cover for 10.4" screen						_	-	-
	GT05-60PCO	Oil resistant cover	for 8.4" screen			•	•	•	T -		_
Oil resistant cover*7	GT16-50PCO	Oil resistant cover	for 5.7" screen			•	_	T -	I -		T -
-	GT05-50PCO	Oil resistant cover	for 5.7" screen			l –		l –		-	
	GT10-40PCO NEW	Oil resistant cover	for 4.7" screen			T -	_	T -	_		
	GT10-30PCO	Oil resistant cover			-	_	-	_	_		
	GT10-20PCO	Oil resistant cover for 3.7" screen					_	+ -	+ -	-	
	GT16H-60ESCOV	Cover for accidental	-	_		_		_			
Emergency stop switch guard	GT11H-50ESCOV		-	_	 	_		-			
	GT15-90STAND	Stand for 15" type		of emergency stop switch (for	attitiality (101)	•	•	-	-	_	-
	GT15-90STAND	Stand for 12.1" type						+-	+=	+=-	
Stand								-	+=	_	+=
	GT15-70STAND	Stand for 10.4"/8.4				•	•	-		-	
	GT05-50STAND	Stand for 5.7" type					•		•		•
	GT05-MEM-128MC	128MB flash ROM				•	•	•	•	•	
	GT05-MEM-256MC	256MB flash ROM				•	•	•	•	•	_
	GT05-MEM-512MC	512MB flash ROM	1					•			_
CF card	GT05-MEM-1GC	1GB flash ROM				•					
or ourd	GT05-MEM-2GC	2GB flash ROM				•					_
	GT05-MEM-4GC	4GB flash ROM				•	_		_	*10	_
	GT05-MEM-8GC	8GB flash ROM		<u> </u>		•	_	I -	I -	*10	- T
	GT05-MEM-16GC	16GB flash ROM				•	_	-	-	*10	_
Memory card adapter	GT05-MEM-ADPC	CF card→memory	card (TYPE II) co	nversion adapter		•	•	•	•	•	-
	GT15-70ATT-98	ĺ	A985GOT *8				•	•	-	_	_
		Attachment for	A870GOT-SWS	A8GT-70GOT-TB	☐ GT167☐			T	T		
	GT15-70ATT-87	10.4" type	A870GOT-TWS	A8GT-70GOT-SW	→GT157	•			_	_	_
]	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	A8GT-70GOT-TW		GT1275		-	-			
	GT15-60ATT-97		A97 GOT	71001 70001-00			•		-	-	 -
	GT15-60ATT-96		A960GOT		\dashv				+=-	+=	
	G115-60A11-96		A870GOT-EWS	A77GOT-EL-S5	\dashv		_	-	<u>−</u> -	- -	⊢
Attachment	CT15 COATT 07	A4400bm			GT166				l _		
	GT15-60ATT-87	Attachment for	A8GT-70GOT-EW		→GT156	•	•	•	-	-	-
		8.4" type	A8GT-70GOT-EB	A77GOT-EL	GT1265	-	<u></u>	+	₩		_
	8.4 type		A77GOT-CL-S5 A77GOT-CL-S3	A77GOT-L-S5			_	_			
		15-60ATT-77		A77GOT-L-S3					I —	- '	-
	GT15-60ATT-77					1	_				
			A77GOT-CL	A77GOT-L							
	GT15-60ATT-77	Attachment for		A77GOT-L	GT1655		•	_	•	_	
		Attachment for 5.7" type	A77GOT-CL	A77GOT-L	GT1655 →GT155 GT115	•	•		•	_	=
Battery	GT15-50ATT-95W	5.7" type	A77GOT-CL A956WGOT A85_GOT	A77GOT-L maintenance time notifica	→GT155 GT115	*11		_		— — — *13	_

#1 : Function version C or earlier.
#1 : Function version D or later.
#2 : Function version D or later.
#3 : Function version B or earlier.
#4 : Function version B or earlier.
#3 : Function version B or earlier.
#4 : Function version B or earlier.
#5 : Excluding the GT102 DBDQ and GT115_QBDQ.
#6 : Excluding the GT102D.
#7 : Check if the oil resistant cover can be used in the actual environment before use.
When using the oil resistant cover can be used in the actual environment before use.
When using the GP250_land GP260_lmanufactured by Pro-face.
#8 : Can be used only with the GT11 Handy.
#1 : Excluding the GT102D.
#1 : Can be used only with the GT11 Handy.
#1 : Excluding the GT102D.
#1 : Can be used only with the GT11 Handy.
#1 : Excluding the GT102D.
#1 : Can be used only with the GT11 Handy.
#1 : Excluding the GP250_land GP260_lmanufactured by Pro-face.
#1 : The front-face USB interface cannot be used when using a protective sheet that covers the USB protective cover area.
#1 : The front-face USB interface cannot be used when using a protective sheet that covers the USB protective cover area.

Manuals are sunnlied as PDF documents with the software nackane in the CD-ROM. Printed manuals are also available

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

Cables			Cabla	Third party			Annl	icahl	e mo	del *	2
	roduct name	Model name	Cable length	products*	Application	GT16		GT12	_	Handy GOT	GT1
		GT15-QC06B	0.6m								
	QCPU extension cable	GT15-QC12B GT15-QC30B	1.2m 3m	-	For connection between QCPU and GOT			_		_	_
Bus connection	GOT-to-GOT connection cable	GT15-QC50B	5m	1 ~	For connection between GOT and GOT		_				
cable for		GT15-QC100B	10m	1							
QCPU (Q mode)	Long-distance connection	GT15-QC150BS	15m								
	cable for QCPU	GT15-QC200BS	20m	_	For long-distance (13.2m or more) connection between						
	GOT-to-GOT long-distance	GT15-QC250BS	25m		QCPU and GOT (A9GT-QCNB required)		•	-	•	-	-
	connection cable	GT15-QC300BS	30m	-	For long-distance connection between GOT and GOT						
Bus extension conne	ector hox	GT15-QC350BS A9GT-QCNB	35m —	-	Used for QCPU long-distance (13.2m or more) bus connection	•	•	-	•	-	-
Dus exterision contre	ector box	GT15-C12NB	1.2m		,						
		GT15-C30NB	3m	10	For connection between QnA/ACPU/motion controller CPU (A series, extension base) and GOT		•	_	•	_	_
		GT15-C50NB	5m	1	(A series, extension base) and GOT						
		GT15-AC06B	0.6m	1							
	Large CPU	GT15-AC12B	1.2m		For connection between QnA/ACPU/motion controller CPU (A series, extension base) and A7GT-CNB	•	•	_	•	_	- 1
	extension cable	GT15-AC30B GT15-AC50B	3m 5m	1	(A series, extension base) and A7G1-OND						
		GT15-A370C12B-S1	1.2m		For connection between motion controller CPU						
		GT15-A370C25B-S1	2.5m	0	(A series, main base) and GOT	•	•	-	•	-	-
		GT15-A370C12B	1.2m	-	For connection between motion controller CPU	•	•		•		
		GT15-A370C25B	2.5m		(A series, main base) and A7GT-CNB	•	_		_		
		GT15-A1SC07B	0.7m	1	For connection between QnAS/AnSCPU/motion controller CPU						
Bus connection		GT15-A1SC12B GT15-A1SC30B	1.2m 3m	0	(A series) and GOT	•	•	_	•	-	-
cable for		GT15-A1SC50B	5m		For connection between QnAS/AnSCPU and GOT	•	•	_	•	-	-
QnA/ACPU/motion	Small CPU extension cable	GT15-A1SC05NB	0.45m	Ť		1	Ť				
controller CPU		GT15-A1SC07NB	0.7m		For connection between QnAS/AnSCPU/motion controller CPU (A series) and A7GT-CNB	•	•	-	•	-	-
(A series)		GT15-A1SC30NB	3m		· · ·	_					
		GT15-A1SC50NB	5m	0	For connection between QnAS/AnSCPU and A7GT-CNB	•	•	_	•	_	_
	Cmall CDI Llana diatana	GT15-C100EXSS-1	10.6m		For long-distance connection between QnAS/AnSCPU/						
	Small CPU long-distance connection cable	GT15-C200EXSS-1	20.6m	0	motion controller CPU (A series) and GOT For long-distance connection between A7GT-CNB and GOT	•	•	-	•	-	-
	Commoduent dabie	GT15-C300EXSS-1	30.6m	1	*Set of GT15-EXCNB and GT15-C BS						
		GT15-C07BS	0.7m								
	GOT-to-GOT	GT15-C12BS	1.2m	1 0	For connection between GOT and GOT			_			l _
	connection cable	GT15-C30BS	3m] ~	For connection between GOT and GOT		•	-	•	-	-
		GT15-C50BS	5m			-					\vdash
	GOT-to-GOT long-distance	GT15-C100BS GT15-C200BS	10m	-	For connection between GOT and GOT			_			_
	connection cable	GT15-C200BS	20m 30m	1 ~	Por connection between GOT and GOT		_	-	_	-	-
	A0J2HCPU connection cable	GT15-J2C10B	1m	0	For connection between power supply unit (A0J2-PW) for A0J2HCPU and GOT	•	•	-	•	-	 -
Bus connector conve	ersion box	A7GT-CNB	_	_	Used for QnA/ACPU long-distance bus connection	•	•	-	•	-	_
Buffer circuit cable		GT15-EXCNB	0.5m	0	Usable as GT15-C EXSS-1 in combination with GT15-C BS	•	•	_	•	_	-
	Q bus cable (two-pack)	GT15-QFC		-	Ferrite cores for replacing existing GOT-A900 bus cable with		•	_	•	_	_
Ferrite core set for A	A bus cable (two-pack)	GT15-AFC		0	bus cable for GOT1000 For connection between RS-422/485 (connector) of GT16 and RS-422 cable (D-sub 9 pins)		_	_		-	
RS-422 conversion	cable	GT16-C02R4-9S GT16-C02R4-25S	0.2m 0.2m	0	For connection between RS-422/465 (connector) of GT16 and RS-422 cable (D-sub 25 pins)	•	=	=	ΗΞ	ΗΞ-	Η=
		FA-LTBGTR4CBL05	0.5m	<u> </u>	RS-485 terminal block conversion unit	_					
RS-485 terminal blo	ock conversion unit	FA-LTBGTR4CBL10	1m		*With cable for connection between RS-422/485 (connector) of	•	_	_	_	_	-
		FA-LTBGTR4CBL20	2m		GT16 and RS-485 terminal block conversion unit						
		GT01-C30R4-25P	3m	1	For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT					*3	
	QnA/A/FXCPU	GT01-C100R4-25P	10m	- 1	For connection between FA-CNV_CBL and GOT	* 6		•	•		
	direct connection cable	GT01-C200R4-25P GT01-C300R4-25P	20m 30m	1	For connection between serial communication unit and GOT For connection between AJ65BT-G4-S3 and GOT					-	
	Computer link	GT10-C30R4-25P	3m		For connection between AJ05B1-G4-S5 and GO1 For connection between QnA/A/FXCPU (D-sub 25-pin						
	connection cable	GT10-C100R4-25P	10m	1	connector) and GOT	_	_		_		
		GT10-C200R4-25P	20m] -	For connection between serial communication unit	-	_	_	_	-	•
		GT10-C300R4-25P	30m		(AJ71QC24(N)-R4) and GOT						⊢
	Computer link	GT09-C30R4-6C	3m	-	For connection between serial communication unit and GOT					●*3	
	Computer link connection cable	GT09-C100R4-6C GT09-C200R4-6C	10m 20m		For connection between computer link unit and GOT	* 8	•	•	•	_	•
	Sommodism capit	GT09-C300R4-6C	30m	1	·					-	
		GT01-C10R4-8P	1m								
		GT01-C30R4-8P	3m			_	_	_		●*3	
		GT01-C100R4-8P	10m	-	For connection between FXCPU (MINI-DIN 8-pin connector)	●*6	•	•	•		•
RS-422 cable		GT01-C200R4-8P GT01-C300R4-8P	20m 30m	1	and GOT (MINI-DIN 8-pin connector)					-	
		GT10-C10R4-8P	1m	_	For connection between FXCPU communication function						
		GT10-C30R4-8P	3m	1	extension board (MINI-DIN 8-pin connector) and GOT						
	FXCPU direct	GT10-C100R4-8P	10m	-							
	connection cable FX communication	GT10-C200R4-8P GT10-C300R4-8P	20m 30m	1		_	_	_	_	_	
	function extension board		55		For connection between FXCPU (MINI-DIN 8-pin connector) and GOT	1					
	connection cable	GT10-C10R4-8PL	1m	_	For connection between FXCPU communication function extension						
					board (MINI-DIN 8-pin connector) and GOT						
		GT10-C10R4-8PC	1m		*The unit cannot be used with the FX1NC, FX2NC, FX3UC-D/DSS, FX3G.	+		_			\vdash
		GT10-C30R4-8PC	3m	1	For connection between FXCPU (MINI-DIN 8-pin connector) and						
		GT10-C100R4-8PC	10m] -	GOT For connection between FXCPU communication function	-	-	-	-	-	•
		GT10-C200R4-8PC	20m	-	extension board (MINI-DIN 8-pin connector) and GOT						
		GT10-C300R4-8PC	30m		For replacing a F930GOT unit with the GT1030 series unit	1	-				\vdash
	Connector conversion cable for		0.2m	-	Converts D-sub 9-pin connector to loose wire (Europe terminal block)	-	-	-	-	-	•
	Connector conversion cable for F930→GT1030 replacement	GT10-C02H-9SC		1				l			
		GT10-C02H-9SC			For connection between Q/LCPU and GOT/personal computer	_	_	_	_	_	
	F930→GT1030 replacement			_	For connection between Q/LCPU and GOT/personal computer (GT SoftGOT1000) (D-sub 9-pin)	•	•	•	•	-	•:
DC 000 ackin	F930→GT1030 replacement Q/LCPU direct	GT10-C02H-9SC GT01-C30R2-6P	3m	_	For connection between Q/LCPU and GOT/personal computer (GT SoftGOT1000) (D-sub 9-pin) For connection between personal computer (screen design software)	•	•	•	•	-	•
RS-232 cable	F930→GT1030 replacement	GT01-C30R2-6P	3m		For connection between Q/LCPU and GOT/personal computer (GT SoftGOT1000) (D-sub 9-pin)		•	•	•	-	•:
RS-232 cable	F930→GT1030 replacement Q/LCPU direct connection cable			-	For connection between Q/LCPU 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, male)		-	-	-	•	

Cables

	Product name	Model name	Cable	Third party	Application		Appl	licable	e mod	del *2	2
	Product name	Woder name	length	products *1	Application	GT16	GT15	GT12	GT11	Handy GOT	GT10
RS-232 cable	FX communication function extension board connection cable, FX communication function adapter connection cable, Data transfer cable	GT01-C30R2-9S	3m	_	For connection between FXCPU communication function extension board (D-sub 9-pin connector) and GOT/personal computer (GT SoftGOT1000) (D-sub 9-pin) For connection between FXCPU communication function adapter (D-sub 9-pin connector) and GOT For connection between personal computer (screen design software) (D-sub 9-pin, female) and GOT (D-sub 9-pin, female)	•	•	•	•	●#3	● *4
	FX communication function adapter connection cable	GT01-C30R2-25P	3m	-	For connection between FXCPU communication special adapter (D-sub 25-pin connector) and GOT, personal computer (GT SoftGOT1000) (D-sub 9-pin)	•	•	•	•	* 3	● *4
	Computer link connection cable	GT09-C30R2-9P GT09-C30R2-25P	3m 3m	0	For connection between serial communication unit and GOT For connection between computer link unit and GOT	•	•	•	•	* 3	*4
Connector conver	sion box for Handy GOT	GT16H-CNB-42S	-	-	For connection between AJ65BT-R2N and GOT (GT09-C30R2-9P only) Converts Handy GOT connector to RJ-45 for terminal block, D-sub connector or Ethernet for each signal type	_	_	-	_	*7	_
Connector convers	Sion box for Flandy GOT	GT11H-CNB-37S	-	-	Converts D-sub 37-pin connector to terminal block and D-sub 9-pin connector	-	_	-	-	*8	-
		GT16H-C30-42P GT16H-C60-42P GT16H-C100-42P	3m 6m 10m	_	For connection between connector conversion box and Handy GOT	1	_	_	_	* 7	_
	FA device, power supply and operation switch	GT16H-C30-32P GT16H-C50-32P GT16H-C80-32P GT16H-C130-32P	3m 5m 8m 13m	_	For connection between CC-Link interface unit and Handy GOT	-	-	_	-	• *7	_
External connection cable	connection cable	GT11H-C30-37P GT11H-C60-37P GT11H-C100-37P	3m 6m 10m	_	For connection between FA device connection relay cable and GOT	-	-	-	_	*8	_
		GT11H-C30 GT11H-C60 GT11H-C100	3m 6m 10m	_	For connection between FA device, power supply and operation switches and GOT	-	_	-	-	* 8	_
	Dedicated cable for CC-Link interface unit	GT11H-C30-32P GT11H-C50-32P GT11H-C80-32P GT11H-C130-32P	3m 5m 8m 13m	_	For connection between CC-Link interface unit and Handy GOT	_	_	_	-	* 8	_
	RS-422, power supply	GT11H-C15R4-8P	1.5m	_	For connection between FXCPU and GOT	_	_	-		*8	_
FA device connection	and operation switch connection cable	GT11H-C15R4-25P	1.5m	_	For connection between power supply and operation switches and GOT For connection between A/QnACPU and GOT For connection between power supply and operation switches and GOT	_	-	_	_	* 8	
relay 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	-	-	-	-	* 8	_
Barcode reader co	onnection cable	GT10-C02H-6PT9P	0.2m	_	For connection between barcode reader (D-sub 9-pin, male) and GOT (MINI-DIN 6-pin, male) RS-232	1	-	-	-	_	* 5
External I/O unit c	connection conversion cable	GT15-C03HTB	0.3m	0	For connection between GOT1000 (external I/O unit) and GOT-A900 external I/O interface unit connection cable (A8GT-C05TK/A8GT-C30TB/user-fabricated cable)	•	•	-	-	-	_
Analog RGB cable		GT15-C50VG	5m	0	For connection between external monitor, personal computer and vision sensor and GOT			-	-	-	_
	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.)	ı	-	-	-	-	* 5
USB cable	Data transfer cable	GT09-C30USB-5P	3m	0	For connection between personal computer (USB) and GOT (USB mini-B) For connection between QnUCPU (USB mini-B) and personal computer (GT SoftGOT1000)	•	•	•	•	•	* 4
		I	1	1	For connection between printer and GOT (printer unit)			_	_	-	
Extension USB wa		GT10-C10EXUSB-5S	1m	_	For extending the USB port of GOT to the control panel	_			1 1	_	*4

**1: FALTBGTR4CBL | is developed by Mitsubishi Electric Engineering Company Limited and sold through your local sales office.

The other products listed are developed by Mitsubishi Electric System & Service Co., LTD. and sold through your local sales office.

**1: Fhat applicable connection configuration and cable vary depending on the GOT main unit. For more details, see the GOT1000 Series Handbook and the GOT1000 Series Connection Manual.

**3: Can be used who used together with the Handy GOT connector conversion box.

**4: Can be used only with the GT105 and GT104.

**5: Can be used only with the GT1030 and GT1040.

**5: To connect with RS-422485 interface of GT16 main unit, an RS-422 conversion cable (GT16-C02R4-9S) is required.

**7: Can be used only with the GT16 Handy.

**8: Can be used only with the GT11 Handy.

Cables for third party FA devices

	Product name	Madelmens	Cable	Third part	COT connection destination		Appl	icabl	e mo	del 🍍	:2
Product name		Model name	length	products *1	GOT connection destination	GT16	GT15	GT12	GT11	Handy GOT	GT
	Cable for OMRON PLC	GT09-C30R20101-9P	3m		PLC CPU: CPM2A/CQM1(H)/CS1/CJ1/CJ2H/CP1E/C200HX/C200HG/ C200HE/CV500/CV1000/CV2000/CVM1 RS-232C adapter: CPM1-CIF01/CPM2C-CIF01-V1 Cable: CPM2C-CN111/CQM1-CIF02 Serial communication unit/board: CQM1-SCB41/C200HW-COM02/ C200HW-COM05/C200HW-COM06/CS1W-SCB21(-V1)/CS1W-SCB41(-V1)/CS1W-SCB41(-V1)/CJ1W-SCU21(-V1)/CJ1W-SCU21(-V1)/CJ1W-SCU41(-V1)/CP1W-CIE01 Connection cable: CQM1-CIF01						*
		GT09-C30R20102-25S GT09-C30R20103-25P	3m 3m	1	Base mount type host link unit: C500-LK201-V1/C200H-LK201-V1						
		GT09-C30R20103-25P	3m	1	PLC CPU: KV-700/1000/3000						
	Cable for	GT09-C30R21101-0F	3m	1	Multi-communication unit: KV-L20/KV-L20R/KV-L20V (port 1)						
	KEYENCE PLC	GT09-C30R21103-3T	3m	1	Multi-communication unit: KV-L20/KV-L20R/KV-L20V (port 2)						
	Cable for Sharp Manufacturing		3m	1	PLC CPU: JW-22CU/70CUH/100CUH/100CU						
	Systems PLC	GT09-C30R20602-15P	3m	1	PLC CPU: JW-32CUH/33CUH/Z-512J						
	Cables for JTEKT PLC	GT09-C30R21201-25P	3m	1	RS-232/RS-422 converter: TXU-2051						
RS-232 cable	Cable for Shinko Technos digital indicating controller	GT09-C30R21401-4T	3m	0	Digital indicating controller: FCR-100/FCD-100/FCR-23A/PC-900/FIR series	•	•	•	•	*3	
	Cable for	GT09-C30R20501-9P	3m	1	PLC CPU: T2E						
	TOSHIBA PLC	GT09-C30R20502-15P	3m	1	PLC CPU: T2N	1					
	Cable for Hitachi Industrial	GT09-C30R20401-15P	9-C30R20401-15P 3m Intelligent serial port module: COMM-H/COMM-2H								
	Equipment Systems PLC	GT09-C30R20402-15P	3m	1	PLC CPU: H-4010/H-252C/EH-150 series						
	Cable for Hitachi PLC	GT09-C30R21301-9S	3m	1	Communication module: LQE560/LQE060/LQE160						
	Cable for Fuji Electric FA Components & Systems PLC	GT09-C30R21003-25P	3m		RS-232C interface card: NV1L-RS2 RS-232C/485 interface capsule: FFK120A-C10 General interface module: NC1L-RS2/FFU120B						
		GT09-C30R20901-25P	3m	1	RS-422→232 conversion adapter: AFP8550						\vdash
	Cable for Panasonic Electric Works	GT09-C30R20902-9P	3m		PLC CPU: FP2/FP2SH/FP3/FP5/FP10(S)/FP10SH/FP-M Computer communication unit: AFP2462/AFP3462/AFP5462						L
	PLC	GT09-C30R20903-9P	3m	1	PLC CPU: FP1-C24C/C40C						*
		GT09-C30R20904-3C	3m	1	PLC CPU: FP1-C16CT/C32CT/FPOR	İ					

Cables for third party FA devices

	Product name	Model name	Cable length	products	GOT connection destination	CT46	Appl	CT1	e mo	del Handy	¥2 У ст
			lengin	*1	PLC CPU: GL120/GL130/MP-920/MP-930/CP-9200(H)/PROGIC-8 (port 1)	GT16	GT15	GT12	GITT	GOT	g GT
	Cable for	GT09-C30R20201-9P	3m		MEMOBUS module: JAMSC-IF60/JAMSC-IF61 Communication module: 217IF/CP-217IF (when connected to CN1)/ 217IF-01/218IF-01						
	YASKAWA Electric PLC	GT09-C30R20202-15P GT09-C30R20203-9P	3m 3m	-	PLC CPU: PROGIC-8 (port 2)	-					
		GT09-C30R20204-14P	3m	1	PLC CPU: CP-9300MS PLC CPU: MP-940	1					
		GT09-C30R20205-25P	3m	1	MEMOBUS module: CP-217IF (when connected to CN2)	1					
S-232 ible		GT09-C30R20301-9P	3m	-	Yokogawa Electric personal computer module: LC01-0N/LC02-0N CPU port/D-sub 9-pin conversion cable: KM10-0C/KM10-0S	•					\vdash
Die	Cable for	GT09-C30R20302-9P	3m	1	Personal computer link module: F3LC01-1N/F3LC11-1N/F3LC11-1F/F3LC12-1F	1					
	Yokogawa Electric PLC	GT09-C30R20305-9S	3m		PLC CPU: NFCP100/NFJT100]					-
	Cable for Yokogawa Electromperature controller Cable for Allen-Bradley	G109-C30R20304-9S	3m		Converter: ML2- PLC CPU: SL500 series						
	(Rockwell Automation, Inc.) F	GT09-C30R20701-9S GT09-C30R20801-9S	3m 3m	-	HMI adapter	-					
	Siemens AG PLC	GT09-C30R40101-9P	3m	-	PLC CPU: CV500/CV1000/CV2000/CVM1		-				
		GT09-C30R40101-9P	10m	1	Serial communication unit: CJ1W-SCU41						
		GT09-C200R40101-9P	20m		Serial communication board: CQM1-SCB41/CS1W-SCB41						
		GT09-C300R40101-9P GT09-C30R40102-9P	30m 3m	-	Communication board: C200HW-COM03/COM06	-					
	Cable for	GT09-C100R40102-9P	10m	1	D						١,
	OMRON PLC	GT09-C200R40102-9P	20m		Base mount type host link unit: C200H-LK202-V1/C500-LK201-V1						*
		GT09-C300R40102-9P GT09-C30R40103-5T	30m 3m	1		1					
		GT09-C30R40103-5T	10m	1	Communication boards CD4N OUT44/CD4NN OUT49/C14NN OUT44						
		GT09-C200R40103-5T	20m	20m	Communication board: CP1W-CIF11/CP1W-CIF12/CJ1W-CIF11						
		GT09-C300R40103-5T GT09-C30R41101-5T	30m 3m	1							
	Cable for	GT09-C100R41101-5T	10m	1	Multi						
	KEYENCE PLC	GT09-C200R41101-5T	20m		Multi-communication unit: KV-L20/KV-L20R/KV-L20V (port 2)						
		GT09-C300R41101-5T GT09-C30R40601-15P	30m	-							\vdash
		GT09-C100R40601-15P	R40601-15P 10m								
		GT09-C200R40601-15P	20m		PLC CPU: JW-22CU/70CUH/100CUH/100CU						
		GT09-C300R40601-15P GT09-C30R40602-15P	30m 3m	-		-					
	Cable for	GT09-C30R40602-15P	10m	1							
	Sharp Manufacturing Systems PLC	GT09-C200R40602-15P	20m		PLC CPU: JW-32CUH/33CUH/Z-512J						
	Cyclomo i 20	GT09-C300R40602-15P GT09-C30R40603-6T	30m 3m	-		-					
		GT09-C100R40603-6T	10m	1							
		GT09-C200R40603-6T	20m		Link unit: JW-21CM/JW-10CM/ZW-10CM						
		GT09-C300R40603-6T GT09-C30R41201-6C	30m 3m	1		1					
	Cable for	GT09-C100R41201-6C	10m	1	PLC CPU: PC3J/PC3JL						
	JTEKT PLC	GT09-C200R41201-6C	20m	0	Communication module: PC/CMP2-LINK		•	•	•	*3	
		GT09-C300R41201-6C GT09-C30R40501-15P	30m 3m	1		1				*3	
		GT09-C100R40501-15P	10m	1	PLC CPU: T2/T3/T3H/model3000(S3)						
		GT09-C200R40501-15P	20m	-	1 EO 01 0. 12/13/13/////ode/3000(03)						
		GT09-C300R40501-15P GT09-C30R40502-6C	30m 3m	1		1					-
	Cable for	GT09-C100R40502-6C	10m		PLC CPU: T2E/model2000(S2)						
S-422	TOSHIBA PLC	GT09-C200R40502-6C	20m	-	1 EO 01 0. 12E/1100e12000(02)						
5-422 ble		GT09-C300R40502-6C GT09-C30R40503-15P	30m 3m	1		*5					
		GT09-C100R40503-15P	10m		PLC CPU: T2N	~					
		GT09-C200R40503-15P	20m 30m	-	1 EO 01 0. 12N						
	Oakla fan	GT09-C300R40503-15P GT09-C30R40401-7T	3m	1		1					
	Cable for Hitachi Industrial	GT09-C100R40401-7T	10m	1	Intelligent serial port module: COMM-H/COMM-2H						
	Equipment Systems PL	GT09-C200R40401-7T GT09-C300R40401-7T	20m 30m	-							
		GT09-C300R40401-71 GT09-C30R41301-9S	30m	1		1					
	Cable for	GT09-C100R41301-9S	10m	1	PLC CPU: LQP510						
	Hitachi PLC	GT09-C200R41301-9S GT09-C300R41301-9S	20m 30m	1	Communication module: LQE565/LQE165						
	Coble for Fire Fig. 1	GT09-C30R41001-6T	3m	1		1					
	Cable for Fuji Electric Fa Components & Systems	GT09-C100R41001-6T	10m		RS-232C/485 interface capsule: FFK120A-C10						
	PLC	GT09-C200R41001-6T GT09-C300R41001-6T	20m 30m	1	General interface module: NC1L-RS4/FFU120B						
		GT09-C30R40201-9P	3m	1		1					\vdash
		GT09-C100R40201-9P	10m]	MEMOBUS module: JAMSC-120NOM27100/JAMSC-IF612						
	Cable for	GT09-C200R40201-9P GT09-C300R40201-9P	20m 30m	1	Total Miles II of E						
	Yaskawa Electric PLC	GT09-C300R40201-9P GT09-C30R40202-14P	3m	1		1					
		GT09-C100R40202-14P	10m		PLC CPU: MP940						
		GT09-C200R40202-14P GT09-C300R40202-14P	20m 30m	1							
		GT09-C300R40202-14P GT09-C30R40301-6T	30m	1		1					\vdash
		GT09-C100R40301-6T	10m	1	Personal computer link module: F3LC11-2N						
		GT09-C200R40301-6T	20m	+	. Goodan comparer min module. Loco 17-214						
	PLC	GT09-C300R40301-6T GT09-C30R40302-6T	30m 3m	1		1					
		GT09-C100R40302-6T	10m	1	Personal computer link modulo: I CO2 ON						
		GT09-C200R40302-6T	20m		Personal computer link module: LC02-0N						
	Cable for	GT09-C300R40302-6T	30m	-		1					
	Cable for Yokogawa					1	1	l .	1	1	1
		GT09-C30R40303-6T	3m 10m		T						
	Yokogawa Electric	GT09-C30R40303-6T GT09-C100R40303-6T GT09-C200R40303-6T	10m 20m		Temperature controller: GREEN series						
	Yokogawa Electric Temperatur	GT09-C30R40303-6T GT09-C100R40303-6T GT09-C200R40303-6T e GT09-C300R40303-6T	10m 20m 30m		Temperature controller: GREEN series						
	Yokogawa Electric	GT09-C30R40303-6T GT09-C100R40303-6T GT09-C200R40303-6T	10m 20m		Temperature controller: GREEN series Temperature controller: UT2000 series	_					

- *1: Items listed above are developed by Mitsubishi Electric System & Service Co., LTD., and sold through your local sales office.

 *2: The applicable connection configuration and cable vary depending on the GOT main unit. For more details, see the GOT1000 Series Handbook and the GOT1000 Series Connection Manual

 *3: RS-422 cables less than 10m and the RS-232 cable less than 3m can be used when the connector conversion box for the Handy GOT is used.
- *4 : Can be used only with the GT105 and GT104.

80

*5 : To connect with RS-422/485 interface of GT16 main unit, an RS-422 conversion cable (GT16-C02R4-9S) is necessary

Notes for use

Backward compatibility

Project data

■GT Designer/GT Designer2 → GT Works3 compatibility *

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

■GOT900 series → GOT1000 series compatibility *

Using data from the GOT-A900 series

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

Using data from the GOT-F900 series

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

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

Cables

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

(For details regarding use of bus connection cables in systems where both the GOT-A900 and GOT1000 series coexist, see Technical Bulletin No. GOT-A-0009.)

Panel cut dimensions

■GOT900 series → GOT1000 series compatibility

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

Selection of optional units and devices

Using the optional functions listed in the table below may require optional devices or units as shown. Note that the availability of the function or the required optional units and devices may vary depending on the model of the GOT main unit.

Functions not listed in the table below may also require a CF card or a USB memory device depending on the application. For details, see "Function list" (page 70) and "GT Designer3 Version1

An optional function board or a CF card may be necessary depending on the function version and hardware version of the GOT main unit or available space of the user area.

For details, see "Optional function board, CF card, and USB memory selection <GT16/GT15/GT12/GT11>" (page 82). - : Function that cannot be used on the model

			Require	ed optional units and devices	J dood		
	Function	GT16	GT16 Handy	GT15	GT12	GT11*6	GT10
Memory extension		CF card	CF card	Optional function board: GT15-QFNB_M or GT15-MESB48M CF card	_	_	_
Multi-channe	I function	Not necessary	Not necessary	Optional function board: GT15-QFNB(\(\sum M \)) or GT15-MESB48M	Not necessary	_	
Multimedia fu	unction*1	Multimedia unit: GT16M-MMR CF card for multimedia	-	-	_	-	_
	Video input*1*2	Video input unit: GT16M-V4 or Video/RGB input unit: GT16M-V4R1	-	Video input unit: GT15V-75V4 or Video/RGB input unit: GT15V-75V4R1	_	_	_
Video/RGB function	RGB input*1 *2	RGB input unit: GT16M-R2 or Video/RGB input unit: GT16M-V4R1	_	RGB input unit: GT15V-75R1 or Video/RGB input unit: GT15V-75V4R1	-	_	_
	RGB output*1 *2	RGB output unit: GT16M-ROUT	_	RGB output unit: GT15V-75ROUT	-	_	
CF card unit/	CF card extension unit	CF card unit: GT15-CFCD or CF card extension unit: GT15-CFEX-C08SET	-	CF card unit: GT15-CFCD or CF card extension unit: GT15-CFEX-C08SET	_	_	_
Sound outpu	t function	Sound output unit: GT15-SOUT	-	Sound output unit: GT15-SOUT	_	_	_
	onal computer operation	RGB input unit: GT16M-R2 or	_	RGB input unit: GT15V-75R1 or	_	_	_
function (seri	al)*1 *2	Video/RGB input unit: GT16M-V4R1		Video/RGB input unit: GT15V-75V4R1			
External input/output function, operation panel function		External input/output unit: GT15-DIO or GT15-DIOR	_	External input/output unit: GT15-DIO or GT15-DIOR	-	-	-
File transfer function (FTP client)		USB memory device or CF card	USB memory or CF card	CF card		-	_
Gateway function		Not necessary	Not necessary	Ethernet communication unit: GT15-J71E71-100	Not necessary	_	_
MES interface function		Optional function board: GT16-MESB	_	Ethernet communication unit: GT15-J71E71-100 Optional function board: GT15-MESB48M		-	-
Document display function		CF card	CF card	Optional function board: GT15-QFNB(□M) or GT15-MESB48M CF card	_	-	_
Operation log	g function	CF card	CF card	CF card		_	_
Backup/resto	oration function	USB memory device or CF card	USB memory or CF card	OF CF card		-	-
Maintenance	time notification function	Not necessary (equipped with battery as standard feature)	Not necessary (equipped with battery as standard feature)	Battery: GT15-BAT	_	_	_
CNC data inp	out/output function*3	USB memory device or CF card	-	CF card	_	_	_
	tor function*4 Q/L/QnA ladder monitor	Not necessary	Not necessary	Optional function board: GT15-QFNB(☐M) or GT15-MESB48M	_	-	_
SFC monitor	function*4	CF card	CF card	Optional function board: GT15-QFNB M or GT15-MESB48M CF card	_	-	_
Motion SFC	monitor function*4	CF card	CF card	Optional function board: GT15-QFNB M or GT15-MESB48M CF card	-	-	-
Ladder editor function*5		CF card	CF card	Optional function board: GT15-QFNB M or GT15-MESB48M CF card	-	-	-
Report functi	on	Printer unit: GT15-PRN (when PictBridge-compatible printer is used) CF card	-	Printer unit: GT15-PRN (when PictBridge-compatible printer is used) CF card	-	_	_
I land same	Saving files on CF card	CF card	CF card	CF card	CF card	-	_
Hard copy function	Printing by printer	Printer unit: GT15-PRN (when PictBridge-compatible printer is used)	-	Printer unit: GT15-PRN (when PictBridge-compatible printer is used)	-	-	-

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

83

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

When using the GT16

■When using optional functions & extended functions When using the MES interface function, install the optional function board GT16-MESB.

No optional boards are necessary when using other functions Some functions, however, may require a CF card due to OS installation

■Storage memory (ROM) and operation memory (RAM)

The GOT operates by decompressing the OS and project data, which is stored in the storage memory (ROM), into the operation memory (RAM). Since the GT16 compresses some data before storing it in the storage memory (ROM), the data size becomes larger when decompressed in the operation memory (RAM).

The GT16 has a 15MB* built-in flash memory for storage memory (ROM) as a standard feature. The CF card expands the memory capacity if the OS and project data exceeds 15MB*. The GT16 has a 57MB* operation memory (RAM) as a standard feature. The operation memory is not extendable.

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

Storage memory (ROM)	Built-in flash memory 15MB*	Extended by CF card		Decompressing data from ROM to
Operation memory (RAM)		57MB*	-	RAM for operatio

*: Differs depending on the GOT main unit model

■Types and capacities of data and CF card selection

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

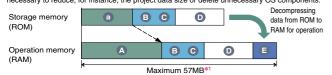
Data type	Data capacity
a Extended function OS and optional function OS stored in ROM	Capacity of "GT16(ROM)" in [Table A] on page 84
A Extended function OS and optional function OS decompressed in RAM	Capacity of "GT16(RAM)" in [Table A] on page 84
B Communication driver	Check with [Table B] on page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

As for the extended function OS and optional function OS, when decompressing the compressed data a in the storage memory (ROM) to the operation memory (RAM), the data size becomes larger as shown in (A).

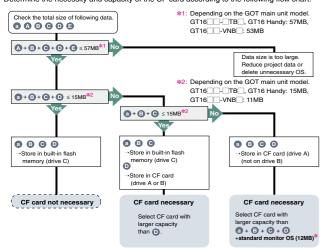
The buffering area 📵 is an area for storing resource data for the functions such as logging and advanced alarms. It uses the operation memory (RAM). The data size differs depending

When the file save mode is specified in the screen design software, the accumulated resource data is stored in the designated storage (drive A or B). (The storage memory (ROM) is not used.)

If the size of data decompressed on the operation memory (RAM) exceeds 57MB*1, it is necessary to reduce, for instance, the project data size or delete unnecessary OS components.



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



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

■CF card and USB memory capacities

The CF card and USB memory capacities are as follows.

FAT16 format: max. 2GB, FAT32 format: max. 32GB.

82

(Boot OS and standard monitor OS of GT Designer3 Ver.1.17T or later must be installed in order to use a CF card or USB memory with a capacity exceeding 2GB. Such CF cards and USB memories cannot be used with GT Works2 / GT Designer2.)

When using the GT15

■When using optional functions & extended functions When using the following function, install the optional function board GT15-MESB48M

 MES interface function When using the following function, install the optional function board GT15-QFNB_M or GT15-MESB48M.

• SFC monitor function • Motion SFC monitor function When using the following functions, install the optional function board GT15-QFNB(\(\subseteq M \)) or

MELSEC-Q/L/QnA ladder monitor function

The following GOT requires no optional function boards when using optional functions other than above.

 GT15: hardware version D or later To activate the built-in optional function board in the GOT, it is necessary to install the standard monitor OS on the GOT using GT Designer Version 2.55H or later.

Some functions, however, require an optional function board with expansion memory (GT15-QFNB \square M or GT15-MESB48M) and a CF card. See below for details

■ Storage memory (ROM) and operation memory (RAM)

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

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

Storage memory (ROM)	Built-in flash memory 9MB*	Extended by CF card	1	Decompressing data from ROM to
Operation memory (RAM)	QMR*	Extended by optional function board (GT15-QFNB_M or GT15-MESB48M)	4	RAM for operation

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

■Types and capacities of data and CF card selection

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

Data type	Data capacity
A Extended function OS, optional function OS	Capacity of "GT15" on [Table A] on page 84
Second communication driver and onwards	150KB for each
© Special data	Check with a screen design software.
Project data	Check with a screen design software.
Buffering area	Check with a screen design software.

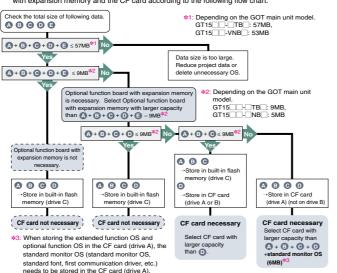
The buffering area (a) is an area for storing resource data for the functions such as logging and advanced alarms. It uses the operation memory (RAM). The data size differs de on the setting

When the file save mode is specified in the screen design software, the accumulated resource data is stored in the designated storage (drive A or B). (The storage memory (ROM) is not used.)

If the size of data decompressed on the operation memory (RAM) exceeds 57MB*1, it is



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



CF card capacities

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

When using the GT12

■When using optional functions & extended functions The optional function board is not required when using the optional functions or extended functions.

Some functions, however, may require a CF card due to OS installation.

■Storage memory (ROM) and operation memory (RAM) The GOT operates by decompressing the OS and project data, which is stored in the storage memory (ROM), into the operation memory (RAM).

The GT12 has a 9MB built-in flash memory for storage memory (ROM) as a standard

The CF card expands the memory capacity if the OS and project data exceeds 9MB. Up to 6MB of project data can be stored in the storage memory (ROM) or a CF card. When storing the project data to the storage memory (ROM), the maximum size of the project data may be less than 6MB depending on the data size of the extended function OS, optional function OS, and communication drivers.

The GT12 has a 12MB operation memory (RAM) as a standard feature. The operation memory is not extendable

The extended function OS, optional function OS, and communication drivers occupy 6MB of the operation memory (RAM). The remaining 6MB of the operation memory (RAM) is used for the project data and the buffering area.

Storage memory (ROM)	Built-in flash memory 9MB	1	Decompressing data from ROM to	
Operation memory (RAM)	12MB		1	RAM for operation

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

■Types and capacities of data and CF card selection

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

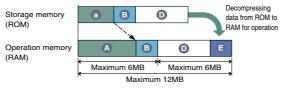
As for the extended function OS and optional function OS, when decompressing the compressed data a in the storage memory (ROM) to the operation memory (RAM), the data size becomes larger as shown in (A).

Up to 6MB of the operation memory (RAM) can be used for the total of the data (a) and the data (b).

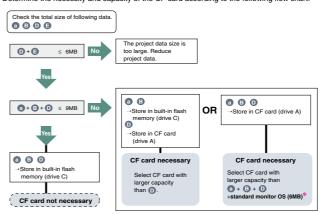
The buffering area 3 is an area for storing resource data for the functions such as logging and advanced alarms. It uses the operation memory (RAM). The data size differs

When the file save mode is specified in the screen design software, the accumulated resource data is stored in the designated storage (drive A). (The storage memory (ROM) is

Up to 6MB of the operation memory (RAM) can be used for the total of the project data ① and the buffering area 3. If the total data size exceeds 6MB, it is necessary to reduce, for instance, the project data size or delete unnecessary OS.



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



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

■CF card capacities

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

When using the GT11

■When using optional functions

Since the following GOT models have a built-in optional function board (GT11-50FNB), it is unnecessary to mount an optional function board to use optional functions shown in [Table A].

• GT115—Q_BDQ • GT115—Q_BDA • GT1155-QTBD

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

■CF card capacities

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

Ex.: GT15-QBUS2

2 slots (1st stage)

[Table A] Used capacity of extended functional OS and optional function OS

			User	area size	to be used	(KB)
		Function	GT16/G	T12*13	GT15	GT11
			RAM	ROM	GIID	GIII
Barcoo	de * 13		84	50	84	*1
RFID*			166	50	166	*1
		itor*13	692	450	746	*1
Repor			235	150	235	None
Printer	r (PictE	Bridge)	1104	552	1104	None
Printer			200	80	200	None
		e conversion library*12 *14	800	400	800	None
		ke font support function	400	300	400	None
	Stro	ke basic font (Japanese)	2160	2160	2160	None
Stroke		ke basic font (Japanese) (with Hangul)	3175	3175	3175	None
font		oke basic font (Chinese: Simplified)	1474	1474	1474	None
		ke basic font (Chinese: Simplified) (with Hangul)	2016	2016	2016	None
Video						
RGB d		Video/RGB	480	298	512	None
RGB d Multim Remote p computer operation			1074	292	None	None
		sonal computer operation (Ethernet)	5130	860	None	None
Remote p	personal	Video/RGB	480	292	512	None
computer	r (serial)	Remote personal computer operation (serial)	84	50	84	None
Backu		oration*13	766	420	820	None
Opera	_					
authenti		Operator authentication	730	460	784	None
_		keyboard function	200	80	None	None
Audio	Audio output		200	100	200	None
Extern	External I/O, operation panel		100	70	100	None
CNC c		CNC data input/output	383	210	437	None
input/c	output	GOT platform library	200	77	100	None
	Device data transfer		100	50	100	None
	MELSEC-L troubleshooting function		770	340	None	None
	SoftGOT-GOT link function		200	100	200	None
	Log viewer function		3882	1434	None	None
	File transfer function (FTP client)		1300	300	1300	None
		e time notification	*2	*2	*2	None
Multi-c			*2	*2	*2	None
- Wilditi C	Ji i da i i i i	Standard font (Chinese: Simplified)	1280	1280	1280	None
		Standard font (Chinese: Traditional)	1920	1920	1920	None
Chines	se	Standard font (Japanese)	1280	1280	1280	None
region		Stroke font (Japanese)	1037	1037	1037	None
region		Stroke font (Chinese: Simplified)	1248	1248	1248	None
		Stroke font (Chinese: Traditional)	1680	1680	1680	None
Opera	tion lo	,	1221	384	1218	None
Docun		<u> </u>	3072	150	2048	None
Kana		conversion	None None	None	1223	None
		conversion (enhanced version)	2774	1242	2774	None
_		ta list display*3 *13	2//4 *2	1242 *2	*2	None
HISTORI		. ,	*2	*2	*2	None
Logsin		nd graph*3 *13	710	380	740	
Loggin		NIO			100	None
Recipe		-1	100	70		*1
Advan			1187	310	1241	None
Object	script		360	180	360	None
Ladde	r	MELSEC-A ladder monitor	674	342	523	None
monito		MELSEC-FX ladder monitor	674	342	592	None
		MELSEC-Q/L/QnA ladder monitor	4170	590	1082	None
A list ed			1024	542	1058	*1
		MELSEC-FX list editor	1024	542	1058	*1
Intellia	ent un	it monitor	770	390	384	None
Netwo			370	210	324	None

				User area size to be used (KB)						
		Function	GT16/0	T12*13	GT15	GT11				
		RAM	ROM	GIIS						
	Q motion mo	nitor	770	390	607	None				
	Servo amplifi	er monitor	770	390	524	None				
	CNC monitor	•	770	390	588	None				
	050	GOT platform library	200	77	100 *5	None				
S	SFC monitor *7	SFC monitor	2108	442	1373 *5	None				
9		GOT function extension library	19381	4729	4729 *5	None				
ng	Motion SFC	GOT platform library	200	77	100 *11	None				
Optional functions	monitor*10	Motion SFC monitor	12522	1240	2477 *11	None				
one	Ladder	GOT platform library	200	77	100 *6	None				
þ	editor	Ladder editor	8192	2567	5121 *6	None				
U	*8	GOT function extension library	19381	4729	4729 *6	None				
		Gateway (server, client)	100	50	100	None				
	Gateway	Gateway (mail)	100	50	100	None				
		Gateway (FTP server)*13	84	50	64	None				
	MES interfac	e	13461	1598	3196 *9	None				

- : Requires installation of the optional function OS and extended function OS, but does not use the user area.
- : Installation of the optional function OS is not required.

 It is necessary to specify the logging function and install the optional function OS (logging) in advance.

 Necessary when using the GOT project data that is automatically created by PX Developer (Ver. 1.15 or later)
 For details, see "PX Developer Version 1 Operating Manual (GOT Screen Generator)(SH-080772ENG)."
- : To use the SFC monitor, free space of 6202KB or more is necessary in the user area of the specified drive for installing the extension function OS and optional function OS. The total capacity of the me же в сметьмент илистип со a mru optional function US. The total capacity of the memory necessary for using the SFC monitor is 14393KB. Due to the above, the setting shown in Table 1 is necessary depending on the GOT to be used.

abl	e 1	>	

<1 able 1>			
GOT	Necessary setting		
GT157□-VN. GT1562-VN	· Set boot source of OS to "A: standard CF card."		
G115/VIN, G11562-VIN	· Memory extension (install optional function board with expansion memory)		
Other than above	· Memory extension (install optional function board with expansion memory)		
For setting the boot source of the OS, see "GT Designer3 Version1 Screen Design Manual			
(Fundamentals)."			

- *6 : To use the ladder editor, free space of 9950KB or more is necessary in the user area of the specified drive for installing the extension function OS and optional function OS. The total capacity of the memory necessary for using the ladder editor is 21212KB. For the above reasons, when using the ladder editor, specify "A: Standard CF card" for the OS boot source, and mount an optional function board with a
- memory capacity of 16MB or more.

 : To use the SFC monitor, it is necessary to install all of the GOT platform library, SFC monitor and GOT function extension library.
- *8 : To use the ladder editor, it is necessary to install all of the GOT platform library, ladder editor and GOT
- #9 : The operation of the MES interface function uses 8218KB of the extended memory (GT15-MESB48M(48MB)) of GT15's operation memory.

 #10: To use the motion SFC monitor, it is necessary to install all of the GOT platform library and motion SFC
- *11 : To use the motion SEC monitor free space of 2577KB or more is necessary in the user area of the specified
- To use the motion In Committee, the space or services and optional function OS. The total capacity of the memory necessary for using the motion SFC monitor is 12622KB. For the above reasons, mount an optional function board with a memory capacity of 16MB or more.
- *12: The device name conversion library (extended function) is required when confirming the trigger device on the GOT using the backup/restoration function and when outputting the device name using the operation log function.

 *13: Function usable with the GT12.

 *14: The GT12 user usage area is as follows. RAM: 500KB, ROM: 250KB

[Table B] Capacity of GT16/GT12 communication driver

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

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

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

■ Acceptable combinations

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

When using GT16:

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

When using GT15:

- ①Bus connection, network connection *1, or Ethernet connection *3 + serial connection *2
- When using GT12:
- DEthernet connection *3 + serial connection *2
 Serial connection *2
 *1: The network connections include the following connection configurations.
- CC-Link IE Controller Network connection
 CC-Link E Field Network connection
 CC-Link connection (ID)
- *2: The serial connections include the following connection configurations.
- CPU direct connection
 Computer link connection
 CC-Link connection (via G4) Microcomputer connection (serial)
 Connection with third party PLCs (serial)
- Temperature controller connection Newter connection Servo amplifier conne
 CNC connection (CPU direct connection) GOT multi-drop connection
 MODBUS®/RTU connection Robot controller connection (serial)
- *3: The Ethernet connections include the following connection configurations.

 Ethernet connection MODBUS*TCP connection Third party PLC connection (Ethernet)

 Robot controller connection (Ethernet) CNC connection (Ethernet)

 Microcomputer connection (Ethernet)

84

Maximum number of connectable channels, mountable

units and mounting stages

- (1) Number of connectable channels
 - The number of connectable channels varies depending on the GOT model.
- See Table C on the following page.

 (2) Number of mountable units and mounting stages
- When the multi-channel function is used, add interfaces to the GOT using any of the following methods.
- (a) Stack communication units on the extension interface (b) Mount communication units on the extension interface to use the unit in combination with the standard interface. The number of mountable units and mounting stages vary depending on the GOT model. See Table C on the following
- page. *: The performance of GOT may be affected depending on the configuration of connected devices
- Up to two channels can be connected to the GT12.
 No communication units can be mounted on the GT12.

Optional function board

Not necessary when using the GT16 and GT12.

The GT15 requires an optional function board. Use the optional function board GT15-QFNB(\square M) or GT15-MESB48M. The GT15-FNB cannot be used.

Communication driver

A communication driver must be installed for each of the connection configurations For the GT16, the communication driver is installed in the user area.

For the GT15, communication drivers for the second and subsequent channels will be

For the GT12, the communication driver is installed in the system area

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

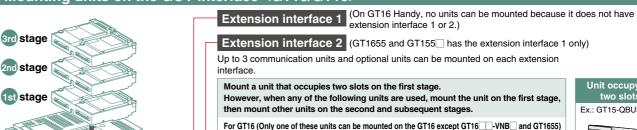
		GT1695/GT1685/ GT167_/GT166_	GT1655	GT1595/GT1585/ GT157_/GT156_	GT155	Handy GT16	GT12	Description	
(1)	Number of connectable channels	Up t	o 4 chann	nels	Up to 2 channels	Up to 4 channels	Up to 2 channels	connected channels. • The number of channels does not include the interface used for connection with external devices. *5 <gt16 only=""></gt16>	
	Number of mountable units	Up to 5 units	Up to 3 units	Up to 5 units	Up to 3 units	No units can be mounted	No units can be mounted	Ethernet connection is available for up to four channels. The number of units that can be mounted on extension interfaces 1 and 2 of the GOT. More than one serial communication unit ⁸⁶ of the same model can be mounted. Optional units are included in the number of units. RS-422 conversion units are not included in the number of units. (The RS-422 conversion unit cannot be used with GT1655 and GT155□.) It is necessary to calculate the total current consumed by the units to be mounted.	See "Calculation of current consumed by units < GT16/GT15>" (page 85).
(2)	Number of mounting stages	Up to 3 stages (2 slots)	Up to 3 stages (1 slot)	Up to 3 stages (2 slots)	Up to 3 stages (1 slot)	No units can be mounted	No units can be mounted	The number of mounting stages that units can be stacked on extension interfaces 1 and 2 of GOT. • Units that occupy two slots *7 *8 must be mounted on the first stage. • When any units in *8 are used, mount the unit on the first stage, then mount other units on the second or subsequent stages. • Units in *9 cannot be stacked on other units. Mount units on the first stage.	"See "External dimensions" (page 61) and "Mounting units on the GOT side interface <gt16 gt15="">" (page 85).</gt16>

*4: Ethernet download function, gateway function, MES interface function, file transfer function (FTP client), remote personal computer function (Ethernet)

computer function [serial], FA transparent function, OS write, and project data write), and printer (serial)

- *5: Barcode reader, RFID controller, personal computer (remote personal
- *6: GT15-RS2-9P, GT15-RS4-9S and GT15-RS4-TE
- *7: GT15-QBUS2, GT15-ABUS2, GT15-J71LP23-25, GT15-J71BR13, GT15-J61BT13, GT15-J71GP23-SX
 *8: GT16M-V4, GT15V-75V4, GT16M-R2, GT15V-75R1, GT16M-V4R1, GT15V-75V4R1, GT16M-ROUT, GT15V-75ROUT, GT16M-MMR
 - *9: GT15-750BUSL, GT15-750BUSL, GT15-75ABUSL, #### Mounting units on the GOT interface <GT16/GT15>

(Example: GT1685)



●GT16M-V4, GT16M-R2, GT16-V4R1, GT16-ROUT, GT16M-MMR

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

The following units must not be stacked on other units. Mount any of them on the first stage

- ●GT15-75QBUSL, GT15-75QBUS2L, GT15-75ABUSL, GT15-75ABUS2L
- ●GT15-75J71LP23-Z, GT15-75J71BR13-Z, GT15-75J61BT13-Z (GT16 or GT155 cannot be used.)

Instructions for mounting and removing the GT15-CFCD

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

Standard interface (built-in RS-232 interface)

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

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

The interface can establish a connection with connected devices via Ethernet

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

The interface can establish a serial connection with connected devices.

Calculation of current consumed by units <GT16/GT15>

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

GT1695 2.4 GT1685 2.4 GT167 2.4 GT166 24 GT1655 1.3 GT1595 2.13 GT1585 1.74 (incl. GT1585V GT157 2.2 (incl. GT1575V) GT156 2.2 GT155 1.3

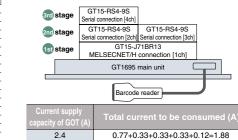
(1) Current that can be supplied by the GOT (2) Current used by units, barcode reader and RFID controller

(=) • • • • • • • • • • • • • • • • •			
Unit model	Consumed	Unit model	Consume
Onit model	current (A)	Crint model	current (A
GT15-QBUS		Barcode reader	*2
GT15-QBUS2	0.275*1	GT15-PRN	0.09
GT15-75QBUSL	0.275*1	GT16M-V4	0.12*
GT15-75QBUS2L		GT15V-75V4	0.2 *1
GT15-ABUS		GT16M-R2	0 *1
GT15-ABUS2	0.12	GT15V-75R1	0.2 *1
GT15-75ABUSL	0.12	GT16M-V4R1	0.12 *
GT15-75ABUS2L		GT15V-75V4R1	0.2 *1
GT15-RS2-9P	0.29	GT16M-ROUT	0.11 *
GT15-RS4-9S	0.33	GT15V-75ROUT	0.11
GT15-RS4-TE	0.3	GT16M-MMR	0.27 *
GT15-RS2T4-9P	0.098	GT15-CFCD	0.07
GT15-J71E71-100	0.224	GT15-CFEX-C08SET	0.15
GT15-J71GP23-SX	1.07	GT15-SOUT	0.08
GT15-J71GF13-T2	0.96	GT15-DIO	0.1
GT15-J71LP23-25	0.56	GT15-DIOR	0.1
GT15-J71BR13	0.77	RFID controller	*2
GT15-J61BT13	0.56		

- *1 : This value is used for calculating the current consumption of multi-channel functions For the specifications of each unit, see the manual supplied with each unit.
- RFID controller at 5VDC. (Maximum: less than 0.3A)

(3) Calculation example

When GT15-I71BR13 GT15-BS4-9S (3 units) and barcode reader (0.12A) are connected to a GT1695.



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

*2: When using a barcode reader or a RFID controller to which the power is supplied from the standard interface, add the current to be used by the barcode reader or

Warranty

MELSOFT GT Works3 (English version) operating environment

	Details				
PC	PC/AT compatible machine on which the following OS operates				
os	Microsoft® Windows® 2000 Professional Service Pack 4 or later (English, Simplified Chinese, Traditional Chinese, Korean, German versions)*1 Microsoft® Windows® XP Professional Service Pack 2 or later (English, Simplified Chinese, Traditional Chinese, Korean, German versions)*1*3*4 Microsoft® Windows® XP Home Edition Service Pack 2 or later (English, Simplified Chinese, Traditional Chinese, Korean, German versions)*1*3*4 Microsoft® Windows® 7 Home Edition Service Pack 2 or later (English, Simplified Chinese, Traditional Chinese, Korean, German versions)*1*3*4 Microsoft® Windows® 7 Professional (English, Simplified Chinese, Windows® 7 Fordessional (English, Simplified Chinese, Korean, German versions)*1*3*4 Microsoft® Windows® 7 Home Premium (English, Simplified Chinese, Windows® 7 Home Premium (English, Simplified Chinese, Windows® 7 Home Premium (English, Simplified Chinese, Windows® 7 Home Premium (English, Simplified Chinese, Windows® 7 Home Premium (English, Simplified Chinese, Windows® 7 Home Premium (English, Simplified Chinese, Windows® 7 Home Premium (English, Simplified Chinese, Windows® 7 Home Premium (English, Simplified Chinese, Traditional Chinese, Korean, German versions)*1*3*4	Microsoft® Windows Vista® Ultimate (English, Simplified Chinese, Traditional Chinese, Korean, German versions) Microsoft® Windows Vista® Enterprise (English, Simplified Chinese, Traditional Chinese, Korean, German versions) Microsoft® Windows Vista® Business (English, Simplified Chinese, Traditional Chinese, Korean, German versions) Microsoft® Windows Vista® Home Pasic (English, Simplified Chinese, Traditional Chinese, Korean, German versions) Microsoft® Windows® 7 Ultimate (English, Simplified Chinese, Traditional Chinese, Korean, German versions) Microsoft® Windows® 7 Enterprise (English, Simplified Chinese, Traditional Chinese, Korean, German versions) Microsoft® Windows® 7 Enterprise (English, Simplified Chinese, Traditional Chinese, Korean, German versions) Microsoft® Windows® 7 Penterprise (English, Simplified Chinese, Traditional Chinese, Korean, German versions)			
CPU	1 GHz or more recommended				
Required memory		more recommended			
Display	Resolution XGA (1024 × 768 dots) or mo	re			
Available hard disk space	To install GT Designer3: 2 GB or more recomm To run GT Designer3: 512 MB or more recomm				
Display colors	High Color (16 bits) or more				
	Circulation on a PO services the following a setting of				
	Simulation on a PC requires the following software: • GX Works2 version 1.12N or later*6 or GX Simulator version 5.00A or later*6. *The applicable software version of GX Works2 or GX Simulator varies depending on the PLC CPU PLC CPU to be simulated QCPU (A mode), ACPU, motion controller CPU (A series) QnACPU FX0 series, FX0N series, FX1S series, FX1N series, FX1NC series, FX1S series, FX2 series, FX2C series, FX2N series, FX2NC series	U to be simulated. GX Simulator Version 5.00A or later Version 5.40E or later	GX Works2 - Version 1.24A or later		
	GX Works2 version 1.12N or later*6 or GX Simulator version 5.00A or later*6. *The applicable software version of GX Works2 or GX Simulator varies depending on the PLC CPU PLC CPU to be simulated QCPU (A mode), ACPU, motion controller CPU (A series) QnACPU FX0 series, FX0N series, FX0S series, FX1 series, FX1N series, FX1NC series, FX1S series,	GX Simulator Version 5.00A or later	_		
Software	GX Works2 version 1.12N or later of GX Simulator version 5.00A or later of SX Simulator version 5.00A or later of SX Simulator varies depending on the PLC CPU of the simulated of SX Simulator varies depending on the PLC CPU of SX Simulator varies depending on the PLC CPU of SX Simulator varies depending on the PLC CPU of SX Simulator varies of SX Simulator var	GX Simulator Version 5.00A or later Version 5.40E or later	Version 1.24A or later		
Software	GX Works2 version 1.12N or later or GX Simulator version 5.00A or later 0. *The applicable software version of GX Works2 or GX Simulator varies depending on the PLC CPU PLC CPU to be simulated QCPU (A mode), ACPU, motion controller CPU (A series) QnACPU FX0 series, FX0N series, FX0S series, FX1N series, FX1N series, FX1N series, FX1S series, FX2 series, FX2C series, FX2N series, FX2NC series QCPU (Q mode) (excluding Q00J, Q00, and Q01 CPUs) Q00JCPU, Q00CPU, Q01CPU	GX Simulator Version 5.00A or later Version 5.40E or later Version 6.00A or later	Version 1.24A or later		
Software	GX Works2 version 1.12N or later or GX Simulator version 5.00A or later 0. *The applicable software version of GX Works2 or GX Simulator varies depending on the PLC CPU PLC CPU to be simulated QCPU (A mode), ACPU, motion controller CPU (A series) QnACPU FX0 series, FX0N series, FX0S series, FX1 series, FX1N series, FX1NC series, FX1S series, FX2 series, FX2C series, FX2NC series QCPU (Q mode) (excluding Q00J, Q00, and Q01 CPUs) Q00JCPU, Q00CPU, Q01CPU Q02PHCPU, Q06PHCPU	GX Simulator Version 5.00A or later Version 5.40E or later Version 6.00A or later Version 7.20W or later	Version 1.24A or later		
Software	GX Works2 version 1.12N or later o GX Simulator version 5.00A or later on the PLC CPU PLC CPU to be simulated QCPU (A mode), ACPU, motion controller CPU (A series) QnACPU FX0 series, FX0N series, FX0S series, FX1 series, FX1N series, FX1NC series, FX2 series, FX2C series, FX2N series, FX2NC series QCPU (Q mode) (excluding Q00J, Q00, and Q01 CPUs) Q00JCPU, Q00CPU, Q01CPU Q02PHCPU, Q05PHCPU Q12PHCPU, Q05PHCPU	Version 5.40E or later Version 6.00A or later Version 6.00A or later Version 7.20W or later Version 6.10L or later	Version 1.24A or later		
Software	GX Works2 version 1.12N or later o GX Simulator version 5.00A or later o. *The applicable software version of GX Works2 or GX Simulator varies depending on the PLC CPU PLC CPU to be simulated QCPU (A mode), ACPU, motion controller CPU (A series) QnACPU FX0 series, FX0N series, FX0S series, FX1 series, FX1N series, FX1NC series, FX1S series, FX2 series, FX2C series, FX2N series, FX2NC series QCPU (Q mode) (excluding Q00J, Q00, and Q01 CPUs) Q00JCPU, Q00CPU, Q01CPU Q02PHCPU, Q05PHCPU Q12PRHCPU, Q25PHCPU FX3uc Series	Version 5.00A or later Version 5.40E or later Version 6.00A or later Version 7.20W or later Version 6.10L or later Version 6.20W or later	Version 1.24A or later Version 1.12N or later		
Software	GX Works2 version 1.12N or later o GX Simulator version 5.00A or later 0. *The applicable software version of GX Works2 or GX Simulator varies depending on the PLC CPU PLC CPU to be simulated QCPU (A mode), ACPU, motion controller CPU (A series)	Version 5.00A or later Version 5.40E or later Version 6.00A or later Version 7.20W or later Version 6.10L or later Version 6.20W or later Version 7.08J or later	Version 1.24A or later Version 1.12N or later		
Software	GX Works2 version 1.12N or later*6 or GX Simulator version 5.00A or later*6. *The applicable software version of GX Works2 or GX Simulator varies depending on the PLC CPU PLC CPU to be simulated QCPU (A mode), ACPU, motion controller CPU (A series) QnACPU FX0 series, FX0N series, FX1S series, FX1N series, FX1NC series, FX1S series, FX2 series, FX2C series, FX2N series, FX2NC series QCPU (Q mode) (excluding Q00J, Q00, and Q01 CPUs) Q00JCPU, Q00CPU, Q01CPU Q02PHCPU, Q06PHCPU Q12PHCPU, Q25PHCPU Q12PHCPU, Q25PHCPU FX3uC Series FX3u Series*7 Q00UJCPU, Q00UCPU, Q01UCPU, Q03UDCPU, Q04UDHCPU, Q06UDHCPU, Q10UDHCPU, Q13UDHCPU, Q25UDHCPU, Q05UDHCPU, Q05UDH	Version 5.00A or later Version 5.40E or later Version 6.00A or later Version 7.20W or later Version 6.10L or later Version 6.20W or later Version 7.08J or later Version 7.22Y or later	Version 1.24A or later Version 1.12N or later — Version 1.24A or later		

Mouse, keyboard, printer, CD-ROM drive, sound function (sound card) and loudspeakers used with the above OS

GOT1000 Series

: Only the 32-bit OS is applicable.

Use GT Simulator3, GX Developer, G The GOT-A900 cannot be simulated.

Windows Touch features are not supported

*10: The 32-bit OS and the 64-bit OS (NEW) are applicable

: May be required when the simulation function is used.

- : Installation requires administrator authority. Simulating the GOT-A900 requires administrator authority : Installation requires administrator authority. Using GT Works3 requires an account higher than the
- standard user.

 To use GT Works3 with another application, if an administrator account is used to run the application then use an administrator account to run GT Works3. Simulating the GOT-A900 requires administrator authority

Others

86

Applicable GOT

The following functions are not supported: Compatibility Mode, Fast User Switching, Desktop Theme (Font) Change, Remote Desktop

Gratis Warranty Term and Gratis Warranty Range

If any faults or defects (hereinafter "Failure") found to be the responsibility of Mitsubishi occurs during use of the product within the gratis warranty term, the product shall be repaired at no cost via the sales representative or Mitsubishi Service Company.

However, if repairs are required onsite at domestic or overseas location, expenses to send an engineer will be solely at the customer's discretion. Mitsubishi shall not be held responsible for any re-commissioning, maintenance, or testing on-site that involves replacement of the failed module.

Gratis Warranty Term

The gratis warranty term of the product shall be for thirty-six (36) months after the date of purchase or delivery to a designated place.

Note that after manufacture and shipment from Mitsubishi, the maximum distribution period shall be six (6) months, and the longest gratis warranty term after manufacturing shall be forty-two (42) months. The gratis warranty term of repair parts shall not exceed the gratis warranty term before repairs.

Gratis Warranty Range

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

Onerous repair term after discontinuation of production

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

Overseas service

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

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

Exclusion of loss in opportunity and secondary loss from warranty liability

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

Changes in product specifications

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

Product application

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

GT SoftGOT1000 Version3 (English version) operating environment

ll a un	Description		
Item	With DOS/V personal computer	With PC CPU module	
Personal computer	PC/AT compatible machine on which the following OS operates	CONTEC PC CPU unit (PPC-852-212, PPC-852-217, PPC-852-226)*7	
OS	Microsoft [®] Windows [®] XP Professional Service Pack 2 or later (English, \$ Microsoft [®] Windows [®] XP Home Edition Service Pack 2 or later (English, Microsoft [®] Windows [®] XP Embedded (English, Simplified Chin-Microsoft [®] Windows Vista [®] Ultimate (English, Simplified Chin-Microsoft [®] Windows Vista [®] Business (English, Simplified Chin-Microsoft [®] Windows Vista [®] Business (English, Simplified Chin-Microsoft [®] Windows Vista [®] Home Premium (English, Simplified Chinesef [®] Windows [®] 7 Ultimate (English, Simplified Chinese Microsoft [®] Windows [®] 7 Enterprise (English, Simplified Chinese Microsoft [®] Windows [®] 7 Professional (English, Simplified Chinese Microsoft [®] Windows [®] 7 Professional (English, Simplified Chinese	se, Traditional Chinese, Korean, German versions) \$3 \$4 \$9 enses, Traditional Chinese, Korean, German versions) \$3 \$4 \$9 ense, Traditional Chinese, Korean, German versions) \$3 \$4 \$9 (Chinese, Traditional Chinese, Korean, German versions) \$3 \$4 \$9 (Chinese, Traditional Chinese, Korean, German versions) \$3 \$4 \$9 (Traditional Chinese, Korean, German versions) \$3 \$4 \$4 \$9 (Traditional Chinese, Korean, German versions) \$3 \$4 \$4 \$1 \$41 \$41 \$41 \$41 \$41 \$41 \$41 \$4	
CPU	Recommended: 1GHz or more		
Required memory	Other than Microsoft® Windows Vista®, Microsoft® Windows Vista®, Microsoft® Windows Vista®, Microsoft® Windo		
Display	Resolution of VGA (640 × 480 dots) or more		
Free hard disk space*1	For installation: 2GB or more recommended For execution: 512MB or more recommended	<u> </u>	
Display colors	High Color (16 bit) or more		
Hardware*6	GT15-SGTKEY-U (License key (for USB port)) GT15-SGTKEY-P (License key (for parallel port))	GT15-SGTKEY-U (License key (for USB port))	
Software	When using with PX Developer : PX	Designer3*5 Developer Version 1.14Q or later Designer3 Version 1.01B or later	
Other	Mouse, keyboard, printer, CD-ROM drive, so	und function (sound speaker), or speaker	

Specification

Windows XP Mode is not supported.

Use GT Simulator3, GX Developer, GX Simulator, and GX Works2 of the same language version.

Item	Description			
Resolution (dots)	640 × 480, 800 × 600, 1024 × 768, 1280 × 1024, 1600 × 1200 Specifiable resolution (640 to 1920 × 480 to 1200)			
Display colors	65,536 colors			
Memory capacity	57MB			
Connection configuration*10	Bus connection*11, CPU direct connection, computer link connection, CC-Link IE Controller Network connection, CC-Link IE Field Network connection, MELSECNET connection, Ethernet connection			
: Use of GT Designer3 and PX Developer requires additional memory				

- space. For free space required when using the PX Developer monit Space: To the Space required when using Operation Manual (Monitor Tool), Additional memory space is also required when using user-created applications.

 Administrator authority is required to install GT SoftGOT1000.
- *3 : Administrator authority is required to install and operate GT SoftGOT1000
- *44 : The following functions are not supported.
 *Compatibility Mode *Fast User Switching
 *Desktop Theme (Font) Change *Remote Desktop
 *5 : GT Designer3 and GT SoftGOT1000 must be installed from the same
- \$6 : The PC must be equipped with a USB port to use the GT15-SGTKEY-U.

 The PC must be equipped with a parallel port (Centro/printer connector) to use the GT15-SGTKEY-U.

 \$7 : For CONTEC PC CPU unit, refer to the manual for the PC CPU module.

- #8 : Use is possible only when PPC-852-226 is preinstalled.

 #9 : Supported only by the 32-bit OS.

 #10 : The required devices vary depending on the connection configuration.

 #11: Connectable only when using a PC CPU unit.
- *12: Windows XP Mode is not supported.
- k14 : The 32-bit OS and the 64-bit OS (NEW) are applicable

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

Global FA Centers

Shanghai FA Center
Mitsubishi Electric Automation (CHINA) Ltd.
No.1386 Hongqiao Road, Mitsubishi Electric
Automation Center 3F, Shanghai, China
Tel: +86-21-2322-3030 / Fax: +86-21-2322-3000

© Beijing FA Center Mitsubishi Electric Automation (CHINA) Ltd. Beijing Office 9F, Office Tower 1, Henderson Centre, 18 Jianguomennei

Wilsubshi Electric Autoniation (China) Ltd. Beijing Onice 9F, Office Tower 1, Henderson Centre, 18 Jianguomennei Avenue, Dongcheng District, Beijing, China Tel: +86-10-6518-8830 / Fax: +86-10-6518-3907

Mitsubishi Electric Automation (CHINA) Ltd. Tianjin Office Unit 2003-2004B, Tianjin City Tower, No.35, You Yi Road, HeXi District, Tianjin, China Tel: +86-22-2813-1015 / Fax: +86-22-2813-1017

○ Guangzhou FA Center

Mitsubishi Electric Automation (CHINA) Ltd. Guangzhou Office Rm. 1609, North Tower, The Hub Center, No.1068, Xin Gang East Road, Haizhu District, Guangzhou, China Tel: +86-20-8923-6730 / Fax: +86-20-8923-6715

○ Korean FA Center

Mitsubishi Electric Automation Korea Co., Ltd. (Service) B1F, 2F, 1480-6, Gayang-Dong, Gangseo-Gu, Seoul, 157-200, Korea Tel: +82-2-3660-9632 / Fax: +82-2-3663-0475

○ Taiwan FA Center

Setsuyo Enterprise Co., Ltd. 3F., No.105, Wugong 3rd, Wugu Dist, New Taipei City 24889, Taiwan, R.O.C. Tel: +886-2-2299-9917 / Fax: +886-2-2299-9963

O ASEAN FA Center

Mitsubishi Electric Asia Pte. Ltd. ASEAN Factory Automation Centre

307 Alexandra Road #05-01/02, Mitsubishi Electric Building, Singapore Tel: +65-6470-2480 / Fax: +65-6476-7439

OIndia FA Center

Mitsubishi Electric India Pvt. Ltd. India Factory Automation Centre 2nd Floor, DLF Building No.9B, DLF Cyber City Phase Ⅲ, Gurgaon 122002, Haryana, India Tel: +91-124-4630300 / Fax: +91-124-4630399

○ Thailand FA Center

Mitsubishi Electric Automation (Thailand) Co., Ltd. Bang-Chan Industrial Estate No.111, Soi Serithai 54, T.Kannayao, A.Kannayao, Bangkok10230, Thailand Tel: +66-2906-3239 / Fax: +66-2906-3239

North American FA Center Mitsubishi Electric Automation, Inc.

500 Corporate Woods Parkway, Vernon Hills, IL 60061, U.S.A.
Tel: +1-847-478-2100 / Fax: +1-847-478-2253

O Brazil FA Center

MELCO-TEC Representacao Comercial e Assessoria Tecnica Ltda. Av. Paulista, 1439, Cerqueira Cesar, CEP 01311-200, Sao Paulo, Brazil Tel: +55-11-3146-2200 / Fax: +55-11-3146-2217

© European FA Center

Mitsubishi Electric Europe B.V. Polish Branch ul. Krakowska 50, 32-083 Balice, Poland Tel: +48-12-630-4700 / Fax: +48-12-630-4701

○ German FA Center

Mitsubishi Electric Europe B.V. German Branch Gothaer Strasse 8, D-40880 Ratingen, Germany Tel: +49-2102-486-0 / Fax: +49-2102-486-1120

OUK FA Center

Mitsubishi Electric Europe B.V. UK Branch. Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, U.K. Tel: +44-1707-27-6100 / Fax: +44-1707-27-8695

O Czech Republic FA Center

Mitsubishi Electric Europe B.V. -o.s. Czech Office Avenir Business Park, Radicka 714/113a, 158 00 Praha5, Czech Republic Tel: +420-251-551-470 / Fax: +420-251-551-471

Russian FA Center

Mitsubishi Electric Europe B.V. Russian Branch St. Petersburg Office Sverdlovskaya emb., bld "Sch", BC "Benua", office 720; 195027, St. Petersburg, Russia Tel: +7-812-633-3497 / Fax: +7-812-633-3499

Complying with international quality assurance standards

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

<Safety standards>

88

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

<Shipping Standards>

A	Abbrev.	Name	Country
	ABS	American Bureau of Shipping	United States
	BV	Bureau Veritas	France
	DNV	Det Norske Veritas	Norway
	GL	Germanischer Lloyd	Germany
	LR	Lloyd's Register	England
	NK	Nippon Kaiji Kyokai	Japan
	RINA	Registro Italiano Navale	Italy

For the details on the approval model within each standards, please contact your local sales office.

МЕМО		

MEMO	MEMO
	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).
································	Platform CC-Línk E MELSOFT SO 14001 150 14001 150 14001 150 160
·	Platform CC-Link E

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

- To use the products given in this catalog properly, always read the related manuals
- 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.

Country/Region	Sales office	Tel/Fax
USA	Mitsubishi Electric Automation Inc. 500 Corporate Woods Parkway, Vernon Hills, IL 60061, U.S.A.	Tel: +1-847-478-2100 Fax: +1-847-478-2253
Brazil	MELCO-TEC Representacao Comercial e Assessoria Tecnica Ltda. Av. Paulista, 1439, Cerqueira Cesar, CEP 01311-200, Sao Paulo, Brazil	Tel: +55-11-3146-2200 Fax: +55-11-3146-2217
Germany	Mitsubishi Electric Europe B.V. German Branch Gothaer Strasse 8, D-40880 Ratingen, Germany	Tel: +49-2102-486-0 Fax: +49-2102-486-1120
UK	Mitsubishi Electric Europe B.V. UK Branch Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, U.K.	Tel: +44-1707-27-6100 Fax: +44-1707-27-8695
Italy	Mitsubishi Electric Europe B.V. Italian Branch Viale Colleoni 7-20041 Agrate Brianza (Milano), Italy	Tel: +39-039-60531 Fax: +39-039-6053-312
Spain	Mitsubishi Electric Europe B.V. Spanish Branch Ctra. de Rubí 76-80-AC.420, E-08190 Sant Cugat del Vallés (Barcelona), Spain	Tel: +34-935-65-3131 Fax: +34-935-89-2948
France	Mitsubishi Electric Europe B.V. French Branch 25, Boulevard des Bouvets, F-92741 Nanterre Cedex, France	Tel: +33-1-5568-5568 Fax: +33-1-5568-5757
Czech Republic	Mitsubishi Electric Europe B.Vo.s. Czech Office Avenir Business Park, Radická 714/113a 158 00 Praha 5, Czech Republic	Tel: +420-251-551-470 Fax: +420-251-551-471
Poland	Mitsubishi Electric Europe B.V. Polish Branch ul. Krakowska 50, 32-083 Balice, Poland	Tel: +48-12-630-47-00 Fax: +48-12-630-47-01
Russia	Mitsubishi Electric Europe B.V. Russian Branch Moscow Office 52, bld. 3, Kosmodamianskaya nab., RU-115054, Moscow, Russia	Tel: +7-495-721-2070 Fax: +7-495-721-2071
South Africa	Circuit Breaker Industries Ltd. 9 Derrick Road, Spartan, Gauteng PO Box 100, Kempton Park 1620, South Africa	Tel: +27-11-977-0770 Fax: +27-11-977-0761
China	Mitsubishi Electric Automation (China) Ltd. No.1386 Hongqiao Road, Mitsubishi Electric Automation Center, Shanghai, China	Tel: +86-21-2322-3030 Fax: +86-21-2322-3000
Taiwan	Setsuyo Enterprise Co., Ltd. 6F., No.105, Wugong 3rd, Wugu Dist, New Taipei City 24889, Taiwan, R.O.C.	Tel: +886-2-2299-2499 Fax: +886-2-2299-2509
Korea	Mitsubishi Electric Automation Korea Co., Ltd. 3F, 1480-6, Gayang-Dong, Gangseo-Gu, Seoul 157-200, Korea	Tel: +82-2-3660-9530 Fax: +82-2-3664-8372
Singapore	Mitsubishi Electric Asia Pte, Ltd. 307 Alexandra Road #05-01/02, Mitsubishi Electric Building, Singapore	Tel: +65-6470-2480 Fax: +65-6476-7439
Thailand	Mitsubishi Electric Automation (Thailand) Co., Ltd. Bang-Chan Industrial Estate No.111 Soi Serithai 54, T.Kannayao, A.Kannayao, Bangkok 10230 Thailand	Tel: +66-2906-3238 Fax: +66-2906-3239
Indonesia	P.T. Autoteknindo Sumber Makmur Muara Karang Selatan, Block A / Utara No.1 Kav. No.11, Kawasan Industri Pergudangan, Jakarta- Utara 14440, P.O. Box 5045, Indonesia	Tel: +62-21-663-0833 Fax: +62-21-663-0832
India	Mitsubishi Electric India Pvt. Ltd. 2nd Floor, DLF Building No.9B, DLF Cyber City Phase III, Gurgaon 122002, Haryana, India	Tel: +91-124-4630300 Fax: +91-124-4630399
Australia	Mitsubishi Electric Australia Pty. Ltd. 348 Victoria Road, P.O. Box 11, Rydalmere, N.S.W. 2116, Australia	Tel: +61-2-9684-7777 Fax: +61-2-9684-7245

MITSUBISHI ELECTRIC CORPORATION HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

NAGOYA WORKS: 1-14, YADA-MINAMI 5, HIGASHI-KU, NAGOYA, JAPAN

When exported from Japan, this manual does not require application to the Ministry of International Trade and Industry for service transaction permission.