

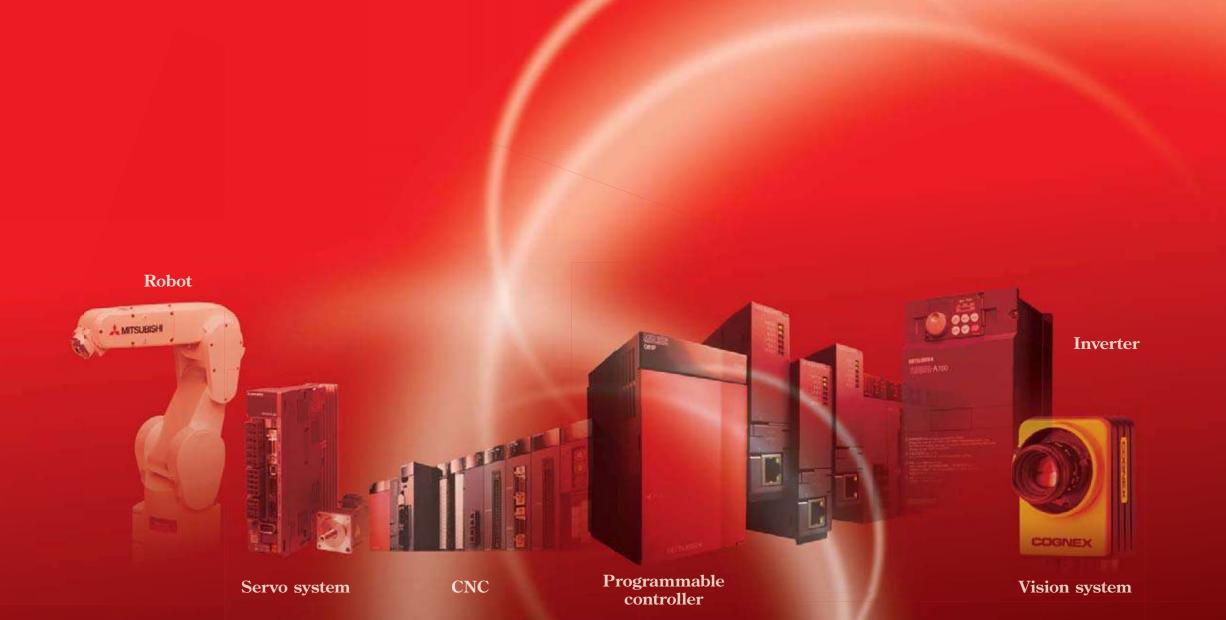
for a greener tomorrow



Mitsubishi Graphic Operation Terminal GOT1000 Series

Tailored solutions to meet your HMI and visualization needs





The GOT1000 delivers the competitive advantage:

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





LINE-UP

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.

Hardware Features	22
Software Features GT SoftGOT1000 GT Works3	26
Function Index	30
Specifications, External Dimensions, etc.	52

6

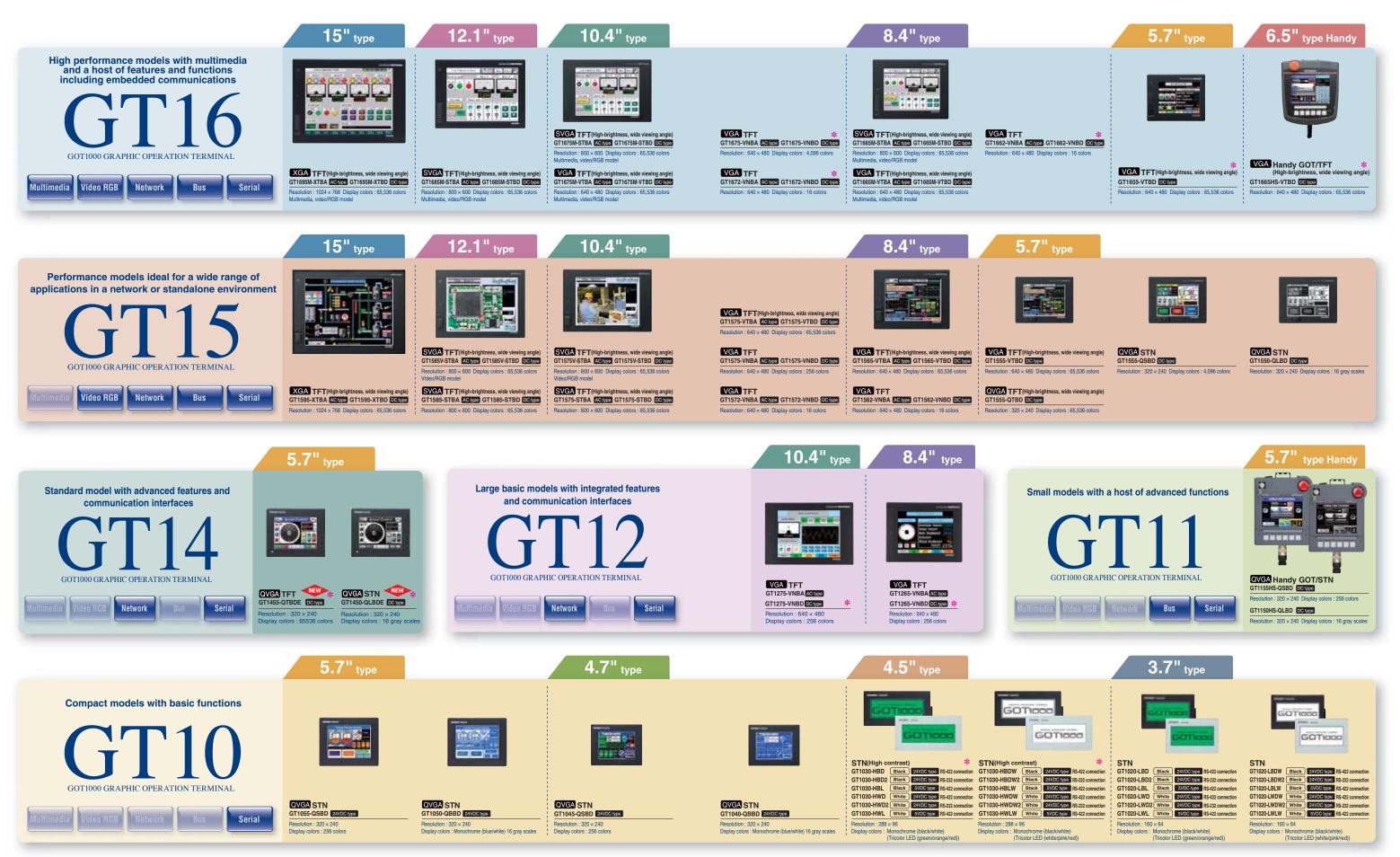
10

FA Solutions

LINE-UP

The GOT1000 series offers six classes of terminals

to fit any system or budget requirement.



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

*: The GT16□-VNB□, GT1655-VTBD, GT1665HS-VTBD, GT145□, GT12□-VNB□ and GT1030 high contrast products (GT1030-H□□□□) are not supported by the screen design software GT Works2/GT Designer2.

4

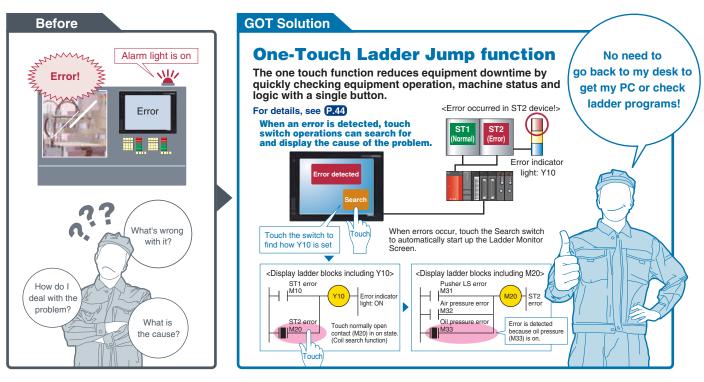


CASE STUDY 1

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

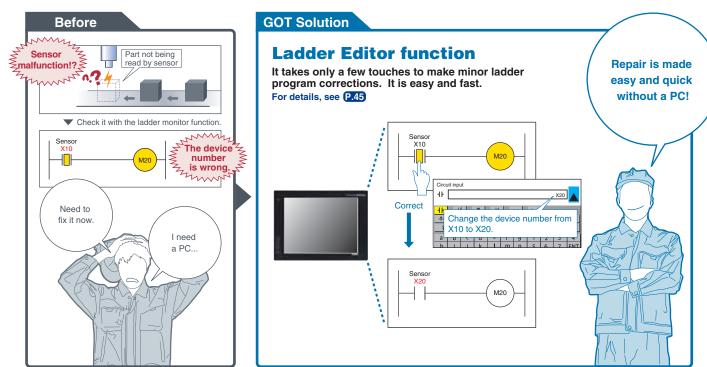
CASE 1

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



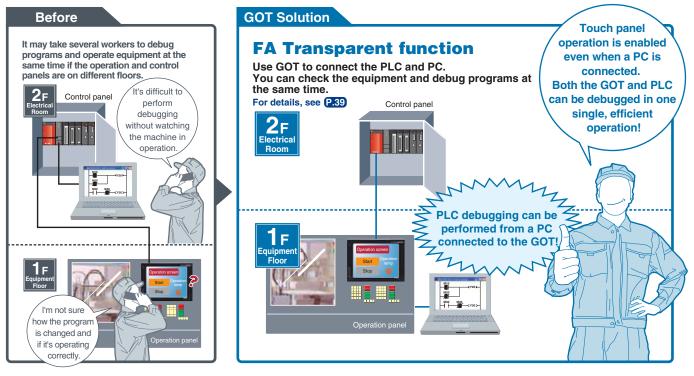


Equipment availability is greatly improved when GOTs are used to quickly edit PLC programs.



CASE 3

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



CASE 4

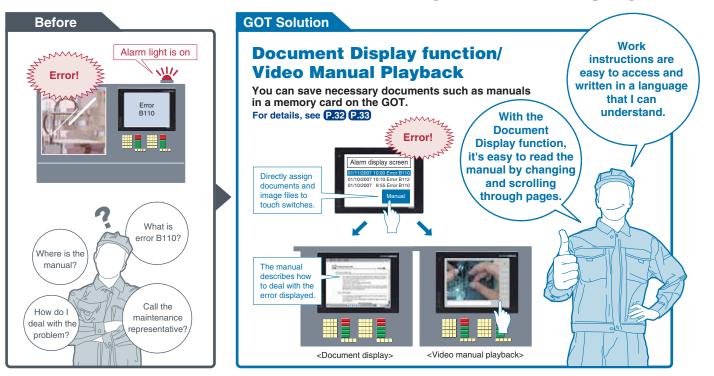
Production efficiency is maintained when the GOT is used to manage product changeovers and maintenance recovery plans.



CASE STUDY 1 GOT Solutions

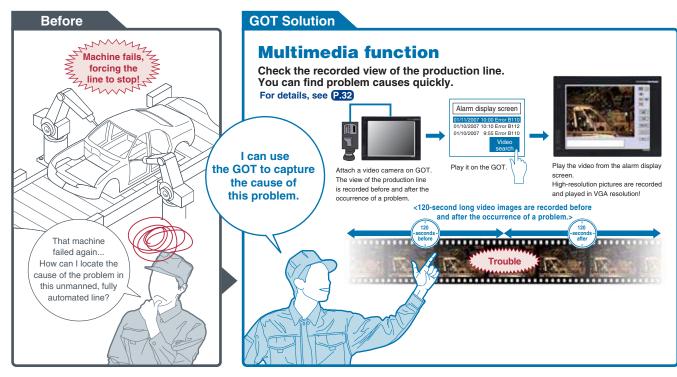
CASE 5

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



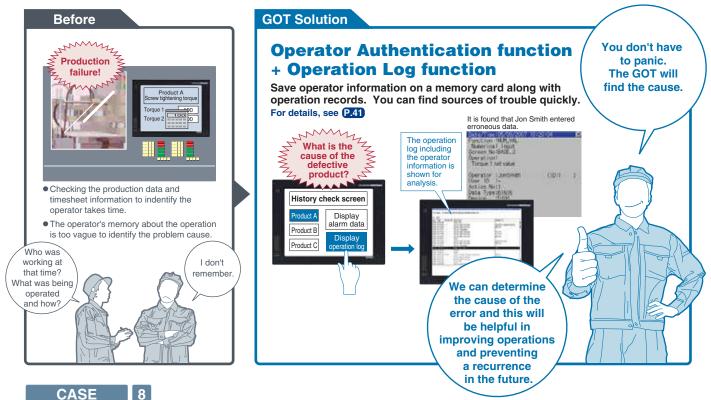
CASE 6

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

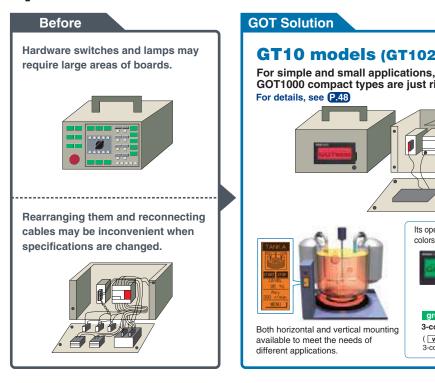


CASE 7

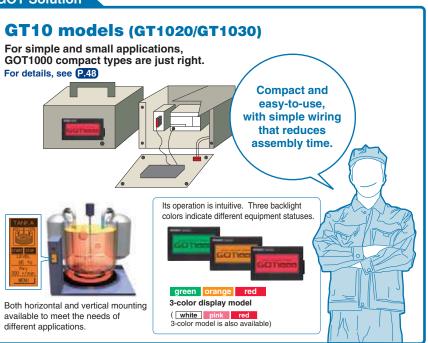
Minimize production mistakes by using the GOT to manage authorization and security levels.



Reduce installation costs by using flexible mounting options.





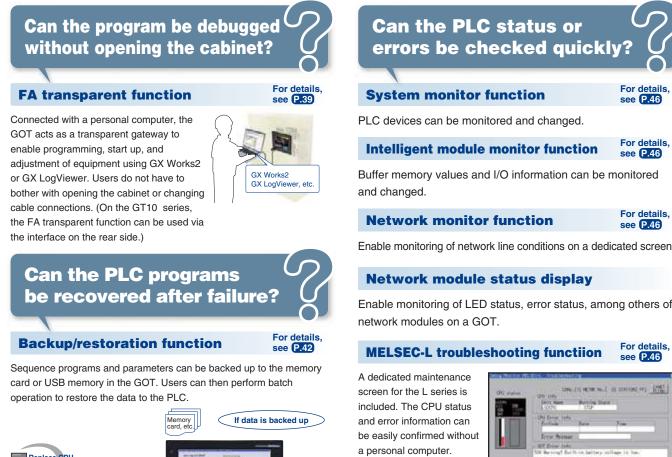


CASE STUDY 2

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

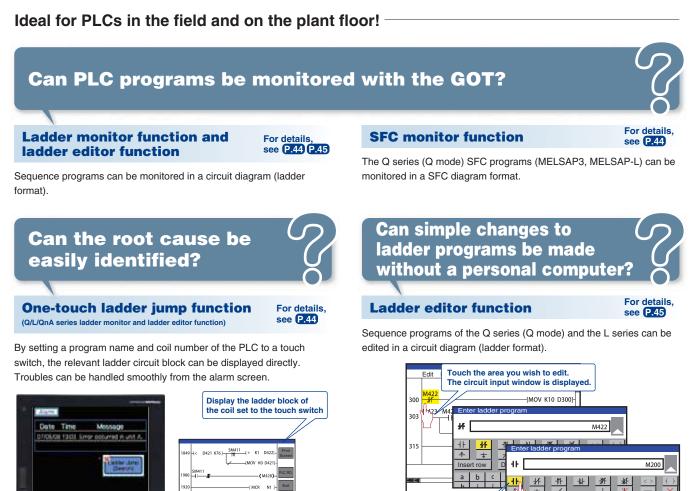


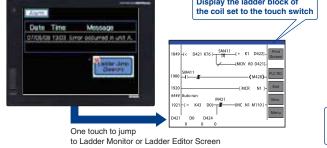
Powerful functionality that is useful during startup and the tuning process!



If a problem occurs, you can jump to a function screen such as the ladder monitor to quickly take corrective actions



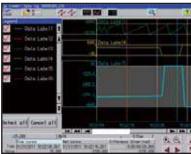




Using the MELSEC-L series or high-speed data logger module!



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



Circuit symbol: Changing from normally closed contact to normally open contact Device: Changing from M422 to M200.

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

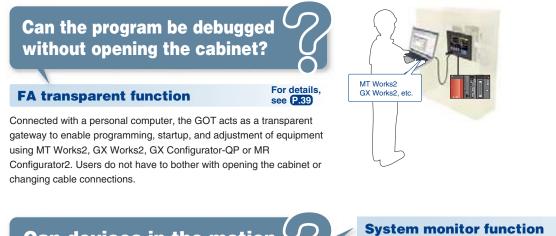


For details, see P.26 P.51

FA Solutions



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



Can devices in the motion controller be validated?

Motion controller devices can be monitored and changed.

For details

see P.46

For direct connection of servo amplifiers to GOTs!



For details Servo amplifier monitor function

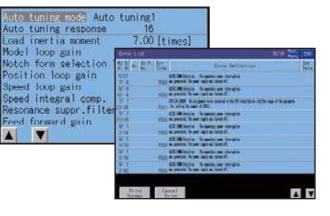
In a system which outputs pulse train, the GOT can be connected to a servo amplifier in a serial connection to perform the following operations: monitoring, alarm display, diagnosis, parameter setting, and test operations.

ALC: NO.	Serve sep Marits	e [-001]	Second
Cumulative feedback	-1061002 pulse	Bithin one-	4000306 pulse
Service motor speed	0.v/wim	ABS counter	-627.rev
Droop sultans	I pulse	Load to motor	7.00 time
Cumulative operand	0 outse	Eve voltage	330 V
Contornet pullise	0 képs	Encoder Internal	2.62
Analog speed	-0.05 V	Settling time	2 m
Arming, for one	0.00 V	Belection Treasured	0 Hz
Representative load	0 5	Tough drive Trans	9 time
Affective load	0 X	Unit power computed in	20.00
Neak fload ratio	0.5	Unit total poer	30 Mit
Instantaneous	0 x		

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



changing of servo parameters, and display of errors on the screen.



Can motion profiles be recovered after controller failures?

Embedded functionality for positioning modules/simple motion modules!



Buffer memory values of modules such as the QD77MS and $\ensuremath{\text{I/O}}$ information can be monitored and changed.





Real mode main Holding point positioning	F100 1.//Obtain digital SW 2.DIND2010.X10	A
Peal mode main	4) Solici Local IAAFF 4) Solici Cata 5 Dep 5 De 5 DE	
G100 • Execute "change speed" when X19=DN M2415=DN, and M2345=DN.	X10 FEDC BA98 7654 3210 D2011 H0000 D2012L 00000000 0000000 000000 D2020L 0	000 00000000 H BIN K(+)
Floo	Change speed	
G102 • Position holding point when X0=ON and	2001=OFF.	

Backup/restoration function

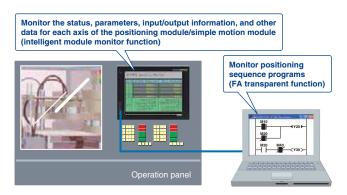


FA Solutions

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

Other convenient uses!

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





Ideal for inverter startups and operation!

Can connections to the inverter be simplified?

Directly connect inverters

Up to 31 inverters can be connected to a single GOT over a total distance of 500m.

FREQROL-A700 inverters can automatically configure the communication parameters for GOT connection, making connections easy.





FA transparent function

For details, see P.39

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



Ideal for inverter operation!

Can the inverter status be monitored on the GOT?



Can inverter parameters be changed easily?

Ready-to-use sample screens

Sample screen data for specifying parameters is available.





Easy-to-understand display

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

Example of GT1020 parameter screen

0: Torque Boosto123.5% MEN	U
1. Max Frequency 012. 45Hz Set	ŧ
2. Min Frequency012.45HzRan	je
3. Base Frequency012.45Hz Set Param Within INV Range	TI
Set Param Within INV Range	<u> </u>

Example of GT1030 operation screen

Recipes	unning OError O	eration
Current Menu	Convair Funning	START
Fried	CONVERT SIDERING	
		STOP

Parameter settings					
9 Torque toost	109.5%	It with the state of the set in party	112.464		
1 Maximum Neguency	Strate	<1 Acceleration/opceleration	012.040		
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\$ Mail cored setting (middle cored)	012.4660	14 Matu speed withing (speed F)	00.64		
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T Acceleration time	128.65	27 Myti-toeed setting poeed //	Dia Ca		
d Deceleration time	0120.54	41 Up-to-frequency entitienty	5115.50		
& Rections thermal Dr. relay	0121-0-6	Philipped Preparation States for revenue religities	012.454		
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14 log accessible concentration time	0128-50	000 Entropy pairing control previous	012545		
		Alara display	1.8004		

	Alarm display					
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Fritm previous atam E.OC2 ### Running speed 01 Texts previous atam E.OC2 ### Pepenerative brake duty is Texts previous atam E.OC2 ### Pepenerative brake duty is Texts previous atam E.OC2 ### Pepenerative brake duty is Texts previous atam E.OC2 ### Pepenerative brake duty is Texts previous atam E.OC2 ### Motor excitation current Texts previous atam E.OC2 ### Motor is at a ctor 0 Texts previous atam E.OC2 ### Motor output 0	econt previous aiariti E	2 Output Output	current	012.34Hz 0.12A 012.3V		
Internet Contraction of the factor of the fa	Still provides allarm E Sittle provides allarm E search provides allarm E	2 OFF Runnin 2 OFF Regener 2 OFF Electro	g speed rative brake duty nic thermal relay	01230/min 012.4% 012.4%		
Cumulative energization (Invertor Ities an	WEE Motor	output	012.45kW		



Powerful functions for robotic systems!

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

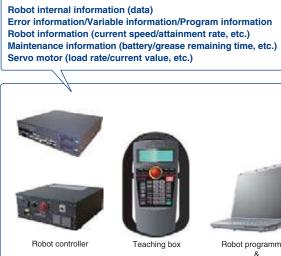


23456

panel operations

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

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

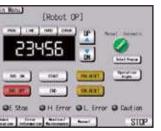




engineering software

Can the robot program be easily accessed?

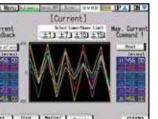
Ideal for robot programming!





Robot operation panel screer

UP & LON V Akin Menu -



Robot load rate/current value monitor screen

Robot maintenance forecast scree

Can the program be debugged without opening the cabinet?

For details

see P.39

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.



In the event of trouble!



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



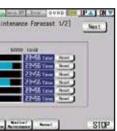


Ready-to-use sample screens

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

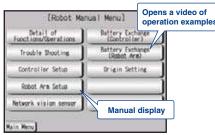


Robot jog/hand operation screer



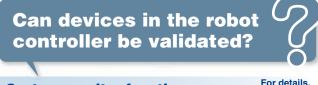


Robot current position monitor screen



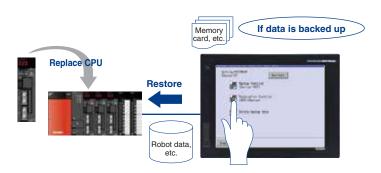
see P.46

Robot manual menu screen



System monitor function

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





Powerful function for CNC startup, machining and changeover!



The CNC C70 can be monitored and the parameters can be changed



Can CNC devices be easily validated?



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

CNC data I/O function

For details see P.47

For details

see P.46

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

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	- falses	

System monitor function

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

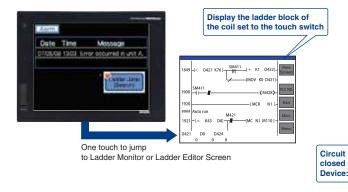
Can the parameters be checked or changed without opening the panel?

Ideal for CNC programming!

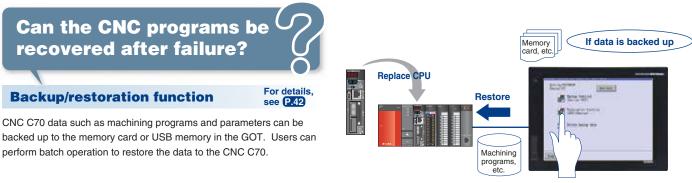
Can CNC programs be validated directly from the GOT?



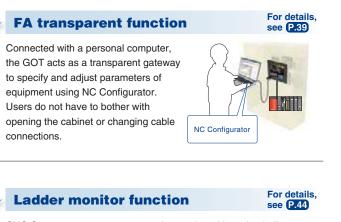
By setting a program name and coil number of the CNC C70 to a touch switch, the relevant ladder circuit block can be displayed directly. Problems can be handled smoothly from the alarm screen.



In the event of trouble!





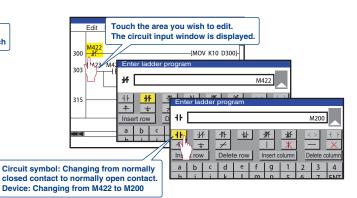


CNC C70 sequence programs can be monitored in a circuit diagram (ladder format).

Can programs be changed easily without a personal computer?

Ladder editor function

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



FA

Solutions

For details see P.45



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.



products be connected?

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?

[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.

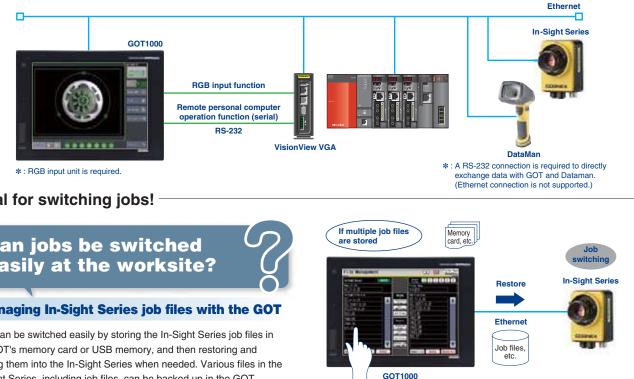
[Inspection screen] The results of workpiece inspections carried out with the In-Sight Series are displayed. The workpiece detection threshold can be changed.



Inspection
Inspection Result.
Penulti PASS
Ad Result
Oules Paramter
Northald 301

Ideal for monitoring operations!

Can vision applications be handled easily at the worksite?



Ideal for switching jobs!

Can jobs be switched easily at the worksite?

Managing In-Sight Series job files with the GOT

Jobs can be switched easily by storing the In-Sight Series job files in the GOT's memory card or USB memory, and then restoring and loading them into the In-Sight Series when needed. Various files in the In-Sight Series, including job files, can be backed up in the GOT.



FA Solutions

Ready-to-use sample screens

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

[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.

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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.

GOT1000 GR APHIC OPER ATION TERMINAL

Hardware

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

deo/BGB

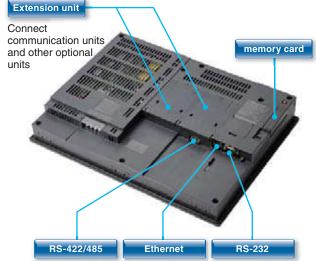
I/O un

memory card

• 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□,







applications in a network or standalone environment

Options

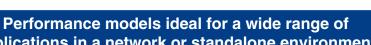
- User memory capacity: 9MB (GT15 VNB : 5MB)
- USB device port is included.
- The RS-232 interface is supported as a standard interface.
- A video/RGB unit is supported.*
- *: GT1585V/GT1575V only

stick





USB host and USB device

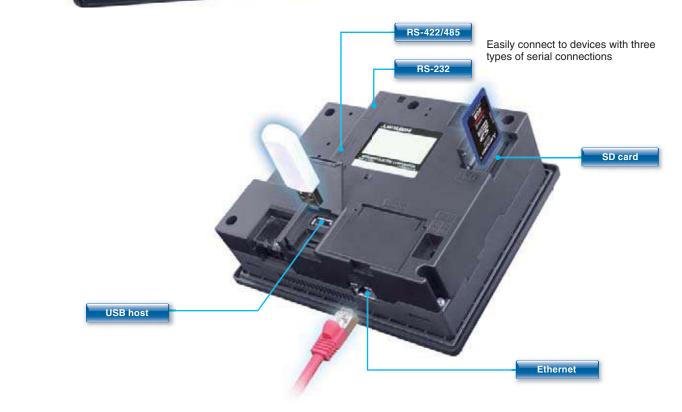






- User memory capacity: 9MB
- USB host and USB device ports are included.
- standard interfaces.





See "Specifications" (page 52 to page 60) for details of each hardware model.



Standard model with advanced features and communication interfaces

Hardware GOT1000 GR APHIC OPER ATION TERMINAL

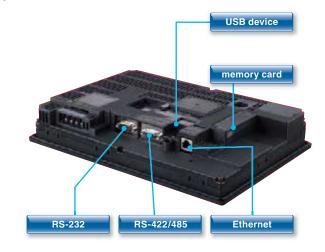
GOT, available in a variety of compact bodies, is packed with GOT1000 functions.



Large basic models with integrated features and communication interfaces

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





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

GT1055/GT1050/GT1045/GT1040

• RS-422/485 and RS-232 interfaces are supported as standard interfaces.

Compact models with basic functions

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



• User memory capacity: 3MB

• USB device port is included.





palm of your hand



Use a personal computer or panel computer as a GOT.



GT SoftGOT1000

Software

GOT1000 GRAPHIC OPERATION TERMINAL

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

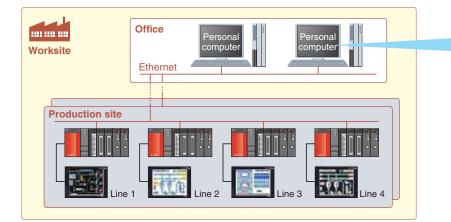
Monitor the production site from a remote location

Reduce downtime

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.

SB port license ke





Monitoring Line 1 Monitoring Line 2

Connect with MELSEC process control for process control applications

BRITER BREAKENERS

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

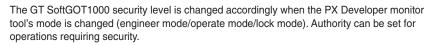
PX Developer window screens and other tools

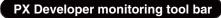
Tools for monitoring, operating, and tuning loop control tags. (The display position can be specified.)

GT SoftGOT1000 touch switch/object

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

Security collaboration





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

GT SoftGOT1000 base screen

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

Link with other applications to construct a high-performance system

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

<Development environment of user applications>

 Microsoft[®]Visual C++[®]/Visual C#[®]/Visual Basic[®] included with Microsoff[®]Visual Studio 6 0/ NET (2002)/ NET 2003/2005/2008

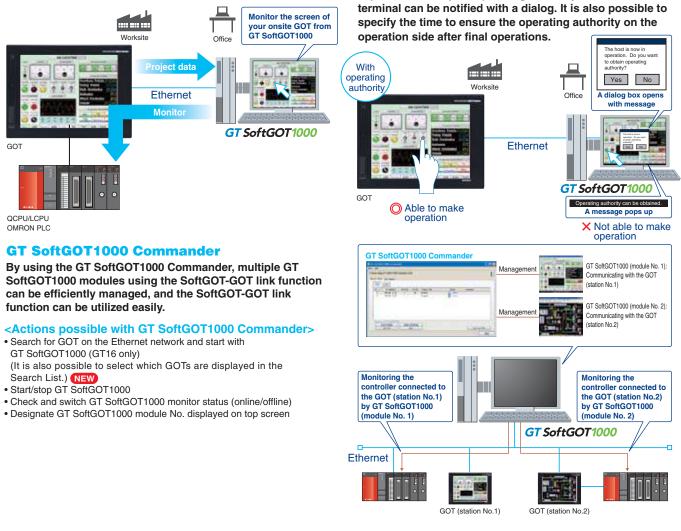
Embarcadero[®]C++Builder[®]XE

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.





Connect to various devices

The GT SoftGOT1000 can be connected to the Mitsubishi PLC, other PLC brands, MODBUS[®]/TCP slave devices. *: See "List of connectable models" (page 69), for more details on supported models of other manufacturers.

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

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

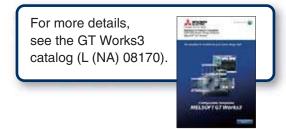
Software

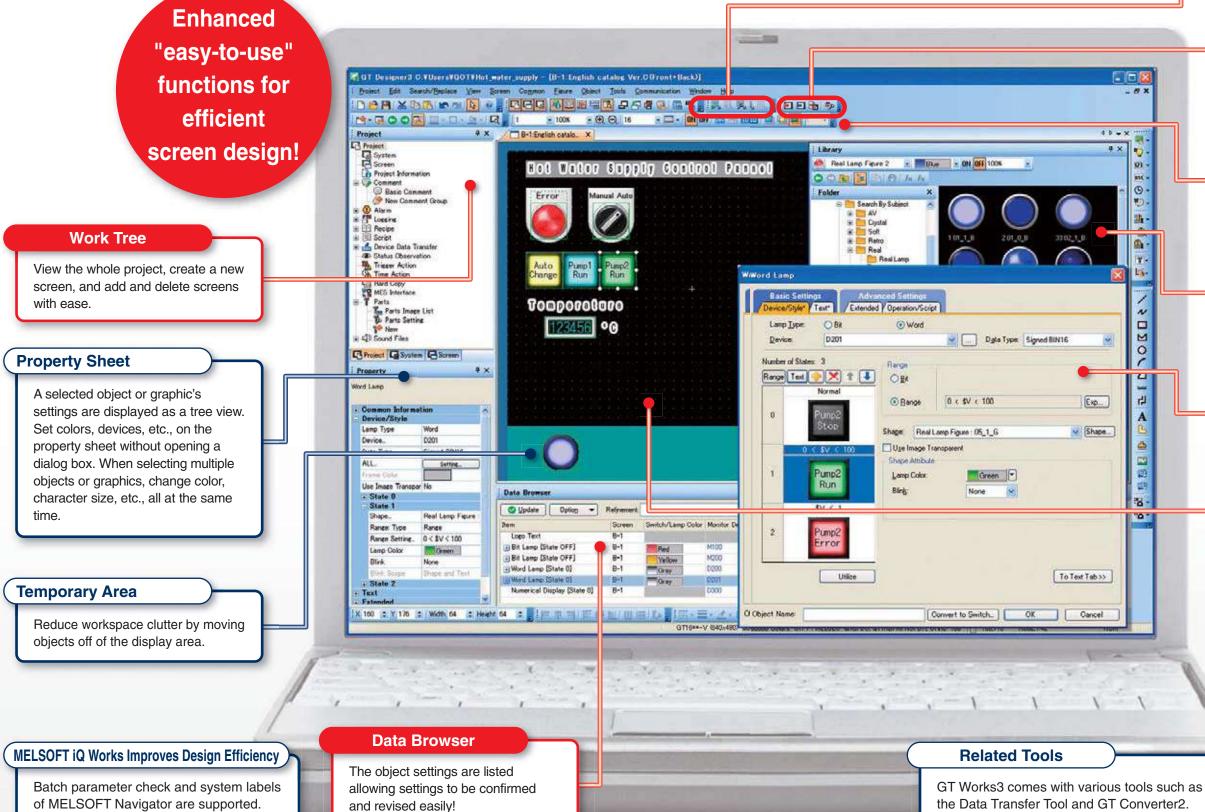
More intuitive. No more wasted time. The screen

design software optimized for usability.

GOT1000 Screen Design Software

GT Works3







Simulator

Preview operation without connecting to a GOT.

Communication with 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!

- Use "templates" to greatly reduce your screen creation time!
- Make batch changes with a single right-click!
- Register parts with a single right-click!
- Easily create addition and subtraction word switches!

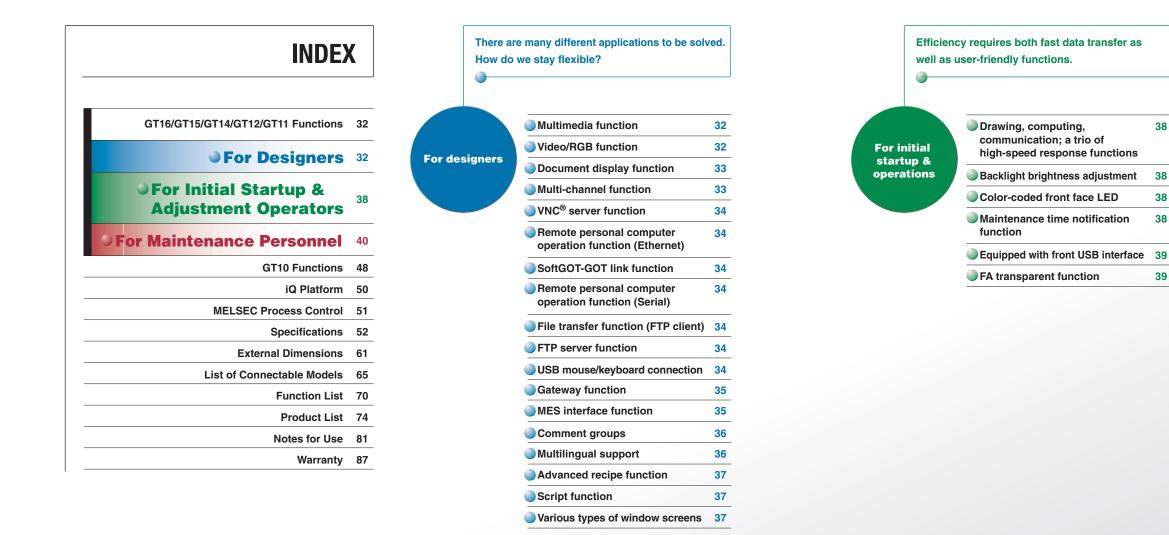
User (OEM/End User) Security Function!



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.







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

For maintenance personnel

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Logging function/ historical trend graph/	40
historical data list display	
Log viewer function	40
Operator authentication function	41
Operation log function	41
Backup/restoration function	42
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Ladder monitor function	44
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Q series motion monitor function	47
Servo amplifier monitor function	47
CNC monitor function/ CNC data I/O function	47
List editor for A/List editor for FX	47

Ope 20 Ъ GT10 ö SEC

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The functions bearing these marks are available on the GT16, GT15, GT14, or GT12 model. All other functions are supported by GT16, GT15, GT14, GT12, and GT11 models

Freedom to utilize advanced display functions to enhance the GOT

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

_{бт} 16

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 memory card of the GOT's multimedia unit and can be played back immediately after being recorded.
- The motion image files saved in a memory card can be played back by selecting the file name or record date (NEW) with a touch switch or in the multimedia screen on the GOT main unit.
- The files can be sent to your personal computer over the Ethernet interface of the GOT's multimedia unit and can be viewed on the 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

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



GOT 1000

For additional recording time (extended mode)

- Over two days of video can be recorded.
- Video size QVGA (320 × 240); frame rate 15 fps
- Possible to either delete saved motion image files or save them when starting a new recording. (NEW)

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



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 interaction tool and multimedia interaction FTP service are multimedia-dedicated software programs included with GT Works3.

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

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. (For GT16 only)

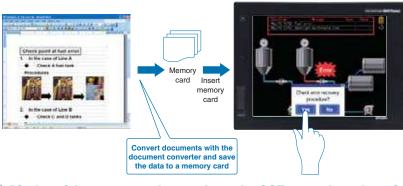
Display the GOT screen on a display <RGB output>

- Connect to a commercial display so that the GOT screen can be displayed larger.
- * Not supported by GT16DD-VNBD 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,
- Contract devices can be used at one time; video input unit, RGB input unit, video/RGB input unit. or RGB output unit.

Display various documents on the GOT at the worksite



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



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.
- *: GT155, GT14, and GT12 monitor 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)

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 20).
- **Typical applications** ат 16 14 Third party PLCs Third party PLCs via Ethernet 4 Brand "C" PI C Brand "A" PI C Brand "B" PLC MELSEC-O Use of the built-in Ethernet I/F enables connection with PLCs of different manufacturers via Ethernet. (GT16: up to 4 types, GT14: up to 2 types) Easy data exchange between PLCs * : For the Ethernet connection with GT1695 and GT1685 of function version A, if connected to equipment compatible with 10BASE-T, use a switching hub for its operation in a network where both 10Mbps and 100Mbps systems are operabl
- *: 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 to page 86).

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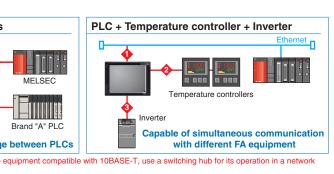
- Pages can be changed, scrolled through, enlarged or reduced, and multi-page documents can be displayed.
- The document converter that comes with GT Works3 is used to format documents to be displayed and save them to a memory card as JPEG files.
- Supported file formats : doc, xls, ppt, pdf, jpg, bmp



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 to page 69), for more details on supported models of other manufactures



Operate the GOT at a remote location from a personal computer in your office



- The screens of a GOT at a remote location can be viewed and operated from a personal computer in your office.
- Operating authority control prevents problems that may occur during simultaneous operations from a GOT at a worksite and a personal computer in a remote location. Available password setting allows control of who can view and operate the GOT.



<Applicable VNC® Client Software> Software name: Ultra VNC version 1.0.8.2 is recommended Manufacture name: UltraVNC team * : A license key (GT16-VNCSKEY) is required

Monitor the screen of the onsite GOT from your PC screen

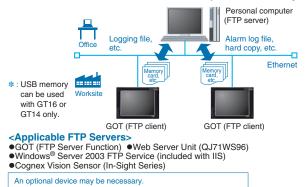
16 15 SoftGOT-GOT link function

- 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 OCPLI// CPLI can be connected by a bus connection, direct CPU connection, computer link connection, or Ethernet connection. GOT and OMRON PLC can be connected via Ethernet connection.

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

Files can be sent and received between a GOT and a personal computer

• By using a GOT, files (alarm log files, hard copies, etc.) stored in the GOT's memory card and USB memory can be sent to or from a personal computer. File names and folder names can be specified indirectly.



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

Operate a remote PC from an onsite GOT



GOT 1000

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



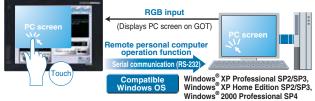
Not supported by GT16DD-VNBD, GT16 Handy * : The license key (GT16-PCRAKEY) is necessary

Operate a personal computer from the GOT touch screen

Remote personal computer



• 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).



*: Not supported by GT16DD-VNBD, 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).

Files can be sent and received between a personal computer and a GOT

16 15 14 12 **FTP server function**

- By using a personal computer, files (alarm log files, hard copies, etc.) stored in a GOT's memory card and USB memory NEW can be sent to or from the GOT.
- *: USB memory can be used with GT16 or GT14 only.
 *: This function is a part of the Gateway function. For how to select optional devices, see the section about the Gateway function.

Connect your mouse/keyboard to the front USB interface GOT 1000

16 14 USB mouse/keyboard connection

• In a user-created screen, you can use your mouse to click touch switches and your keyboard to enter ASCII characters and numbers. * : Not supported by GT16 Handy

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

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



*1 : GT12 supports only the FTP server function

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

1 Collect data on a personal computer (server function)

- A GOT (server) can be monitored from the host personal computer (MX Component) to perform indirect reading/writing of connected devices being monitored by the GOT.
- Even when third party devices are connected, MX Component can read and write the devices through the GOT using the server function.
- * : The collected data can be displayed and analyzed by Excel[®] without using any programs other than MX Sheet. Programming with Visual C++[®] and Visual Basic[®] enables applications to be flexibly designed and built. See the MELSOFT catalog (L (NA) 08008) for more details.

2 Monitor other GOTs from a GOT (client function)

- 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.

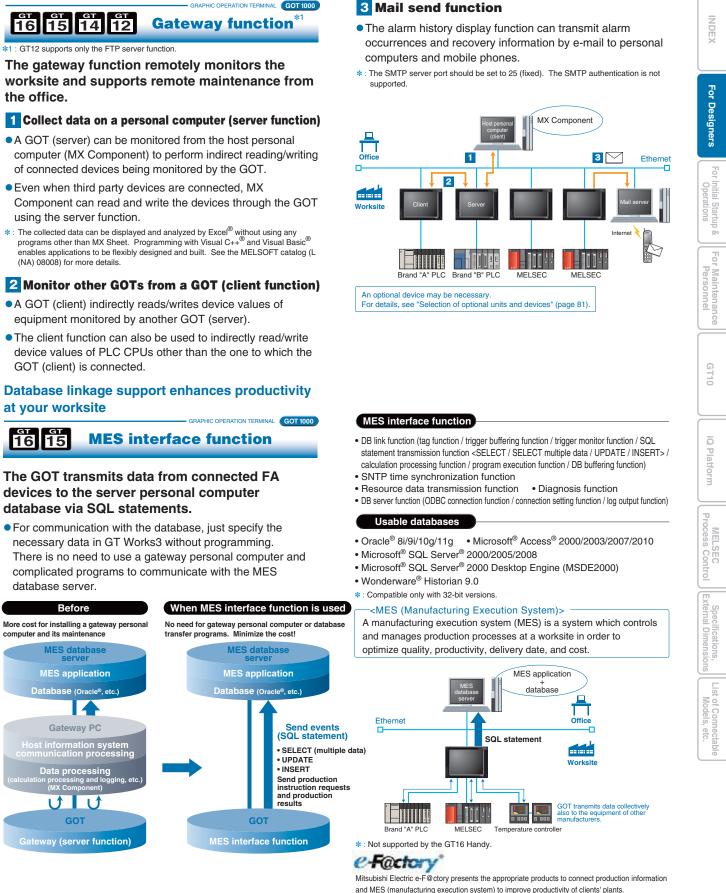
Database linkage support enhances productivity at your worksite

16 **15 MES interface function**

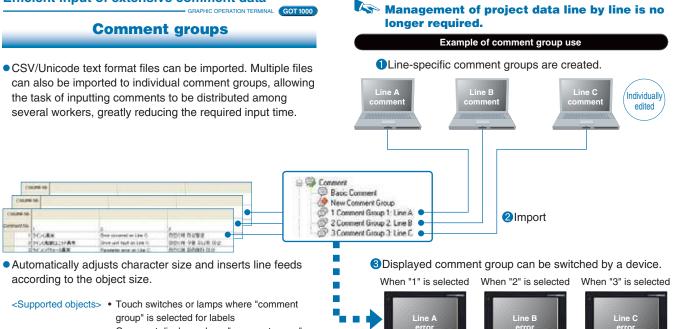
The GOT transmits data from connected FA devices to the server personal computer database via SQL statements.

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

Before



Efficient input of extensive comment data



· Comment displays where "comment group" is used

燃料を確認してください。

When switching languages, character string length is automatically adjusted to fit within the object. Confirm remaining amount of fuel,

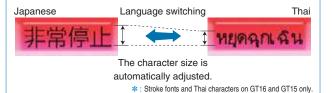
Easy creation of multilingual screens

Multilingual support

- By using comment groups, different language comments can be created for each comment group column to switch the display language.
- Comment group comments can be created freely for applications, as well as for different languages.
- You can specify the column number of the comment group to change the language of the startup message on the GOT.
- *: Refer to "Comment groups (page 36) " for the details of comment groups.
- The system alarm and utility screen display languages can be changed in conjunction with the language selection function.

Convenient for language switching

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





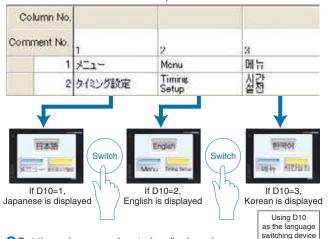
Example of comment group use

2Import

Users can quickly change the language display.

Example of switching between Japanese, English, and Korean screens

1Use comment groups to create Japanese, English and Korean comments in their respective columns.



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

3 The displayed comment (language) changes.

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

Easily create complex recipe data



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

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

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

Easy handling of recipe data using the GOT

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

For better work efficiency and enhanced customization functions

Script function

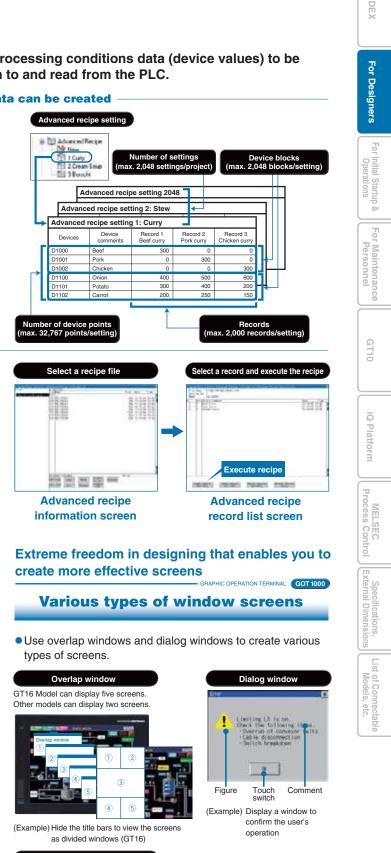
GOT 1000

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/GT15/GT14 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.



Key window

There is no need to create keypads for numerical input and key windows for ASCII input When using a QVGA model, the key window screen size can be set from small to large. When entering ASCII characters, you can switch windows to display character selection windows.

Standard functions to provide users with

straightforward operation



As of March 2012

The monitor screen includes about 250

GOT 1000

points of word devices

GT15 GT16

GT16/GT15 response performance comparison

[Using MELSEC Q series]

Bus connection

Computer li

MELSECNET/H connection

CC-Link Ver.2(ID connection)

CC-Link IE Controlle

Ethernet connection

FX direct connection

CC-Link IE Field

CPU direct

Dramatically improved GOT overall response

Drawing, computing, communicationa trio of high-speed response functions

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

High-speed drawing

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

High-speed computing

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

High-speed communication

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

For connectable PLC models, see "List of connectable models" (page 65 to page 69).

Adjust brightness according to surroundings

Backlight brightness adjustment

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



Easy-to recognize backlight state

GRAPHIC OPERATION

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

Color-coded front face LED

[Power LED: Color-coded message]

-			01	
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



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

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

 Warning! Backlight needs replacement soon.

 An optional device may be necessary.

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



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

Easy data transmission without opening the cabinet

Equipped with front USB interface*1

*1 : Back face layout for GT12.

USB device (Mini-B)

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



* : To connect the GOT to a personal computer, use the dedicated USB cable. For more details, see "Product list" (page 74 to page 80).



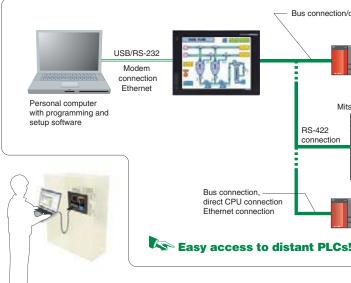
With USB environmental protection cover installed (standard feature) (1957) * * : This does not guarantee protection in all users' environments.

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 interface)
- The FA transparent function can be used when a GOT and a personal computer are connected via USB, RS-232 or even using an Ethernet connection. (Supported only by GX Works2, MX Component/MX Sheet, MT Works2, MR Configurator2)
- When a GOT is directly connected to a FXCPU (CC-Link master station), CC-Link slave stations can be accessed from a personal computer. NEW

(Connection between the GOT and the personal computer is USB or RS-232)



For initial startup & operations



CC-Link Controller Network, etc

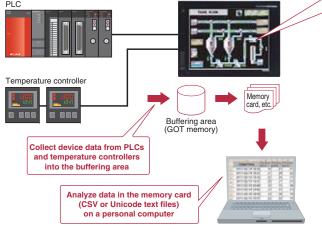
Mitsubishi servo amplifie

The GOT provides complete traceability for safe and secure operation

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



- 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/GT14 only)



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

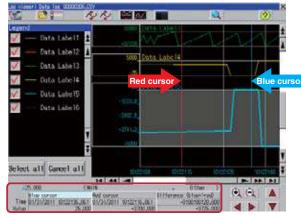
			GRAPHIC OPERATION TERMINAL	GOT 1
ат 16	Log	viewer	function	

Display logging data without a PC

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

<Data to be displayed> Data logging (historical display)

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



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

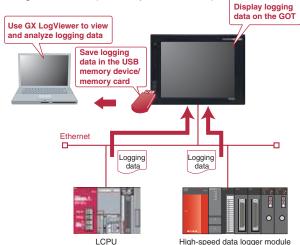
Display with graph Historical trend graph After collecting data with the logging function, you can display the data in a time series. Scroll the view or specify the time so that you can check necessary data easily. Logging data to be displayed can be specified indirectly. NEW



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

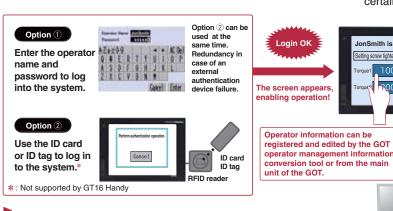
Logging data can be collected without opening the cabinet -

- 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 SD card from the LCPU or the CF card from the high speed data logger module.
- Connect a personal computer to the front USB interface of the GOT to view the LCPU logging data with the GX LogViewer, or to change the logging settings with the LCPU Logging Configuration Tool. (FA transparent function)



Enhanced security system using password control





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

Very helpful for identification and analysis of causes of incorrect operation



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.



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).



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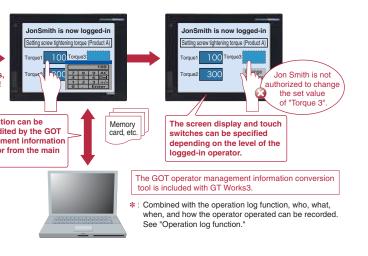
SEC

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



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

<Specifiable operations>

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

- Recorded log data is saved in the memory 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".

Example)

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

and significantly reduce downtime!

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

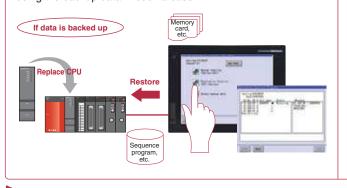
GT GT GT GT GT Backup/restoration function

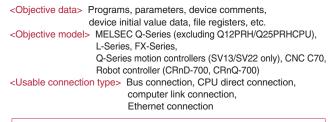
With backup and restore, fear troubles no more

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

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.



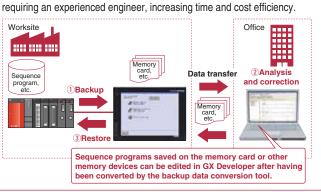


The backup data conversion tool is included with GT Works3 * : The backup data of Q00J/Q00/Q01CPU and FXCPU cannot be converted with the backup data conversion tool. *: Once backup data created with GX Works2 is converted by using the backup

data conversion tool, the data cannot be edited with GX Works2

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

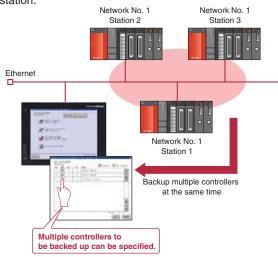


Res PLC CPU programs can be easily changed without a personal computer at the worksite or any previous **GX** Developer knowledge.

*: 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

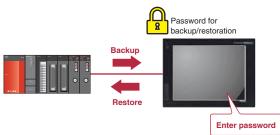
 Besides automatic backup from touch switches, you can specify a trigger device, a day of the week, and time for

automatic backup.



Password for enhanced security

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



Clear communication minimizes machine downtime even during an alarm

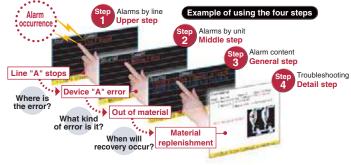


A wider monitoring range protects even large-scale systems

- 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. (For GT16/GT14 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.



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.

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



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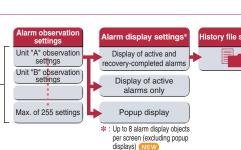
SEC

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rm observati for up to 32,767 devices



Group-specific & level-specific displays

	Alar	ms can	be clas		ip and level, with only d.	For Mainten Personn
	Alarm	Group	Level		Transport G alarm display	ne
	MO	Transport G	Mid-level			nance
	M1	Transport G	Mid-level		Transport G major alarm display	ŏ
	M2	Transport G	Mid-level		Constitution Connection	
-	M3	Transport G	Mid-level		a 1723 Alla Silo Silo Illaho Jewa Kentan Angla Pania	
	M4	Transport G	Major	þ		
-	M5	Process G	Major	Combinatión		ß
	M6	Process G	Minor	of level		ΗŤ
	M7	Process G	Minor	& group		T10
	M8	Process G	Minor			
	M9	Process G	Minor		Minor alarm display	
				Level		l

Easy searching with time designation

• 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.

Support in identifying alarm causes (utility function) —

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

Superior functions and connectivity to reduce

maintenance time

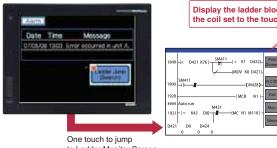
The GOT Ladder Monitor Function is greatly improved with the One-Touch Ladder Jump function

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.



Not only connected PLCs, but also PLCs of other stations,

multiple CPUs, multiple programs in the CPU, and local

controllers can be saved in a memory card, so the ladder

• Device values and timer (T) / counter (C) set values can be

• Used together with the alarm history, a back-tracking ladder

• Simply touching the Ladder Monitor screen can execute a

• The number of ladder program lines displayed on a XGA model

coil search and contact point search. (Q/L/QnA series)

has increased thus it is more user-friendly than ever.

search can be performed to find the contact which triggered

data can be switched and displayed without reading the data

• The programs and comments of multiple connected

devices can be monitored.

from the PLC.(Q/L/QnA series)

the alarm. <Defect search>

block of buch switch		-
Piliti Score Edd Maco		
Menu	Ser.	Lade

property dialog.

(Example) Program name: AUTO-L1, Netwo No.: 2. Station No.: 3. M1001 Wide monitoring range and useful functions make maintenance work more efficient! Example of touch search (when error indicator light [Y10] is on) <Display ladder blocks including Y10> <Display ladder blocks including coil M20> Pusher LS error ST1 error Error indicator ST2 error light: ON ST2 error Touch normally open contact (M20) in on state

40.108

40.84

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Supported by XGA/SVGA/VGA models

QS series models can only monitor the

Set PLC station No., CPU No.,

destination device. ladder search

mode (coil search/factor search), and program file name.

Error is detected here because

oil pressure (M33) is on.

ladder program of a Q/L/QnA.

instance

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

It cannot alter device values, for

FX3G(C) CPU is not supported.

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

Monitor SFC programs on the GOT to make troubleshooting even easier

GT	I GT
16	15

changed.

<Touch search>

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 block list.
- Save programs and comments in the memory card of the GOT. They can be retrieved at a moment's notice.

Block tabs	
Touch a tab to display the block.	Block No. 1 Block No. 2
	1

* : Supported by XGA/SVGA/VGA models

(Coil search function)

Fouch

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

The active step is highlighted. 9 7 🛱 oM32 Touch the step to display the zoo Zoom windo window or SFC program of the 250 oT21 K20 relevant block The SEC program scrolls automatically along with the progress of active steps. 8 🗖 🛛 Transition con SFC Chart

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

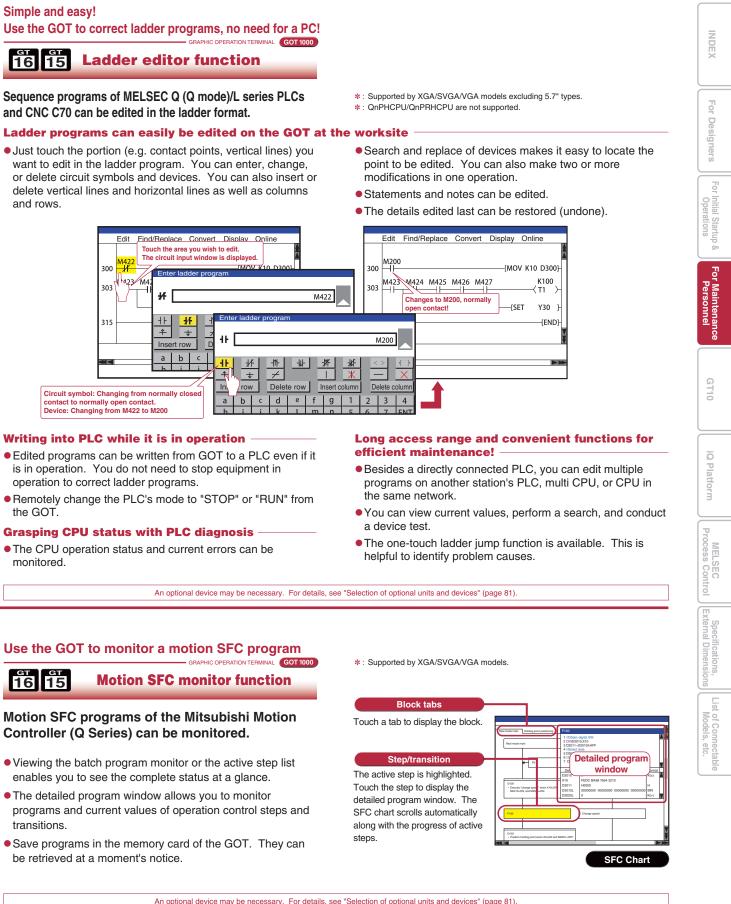


Use the GOT to correct ladder programs, no need for a PC!

16 15 Ladder editor function

Sequence programs of MELSEC Q (Q mode)/L series PLCs and CNC C70 can be edited in the ladder format.

• Just touch the portion (e.g. contact points, vertical lines) you want to edit in the ladder program. You can enter, change, or delete circuit symbols and devices. You can also insert or delete vertical lines and horizontal lines as well as columns and rows.



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.

Use the GOT to monitor a motion SFC program

ат ат 16 15

Controller (Q Series) can be monitored.

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

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

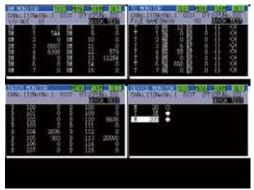


Unique functions designed for Mitsubishi devices

Monitor and change Mitsubishi FA devices

System monitor function

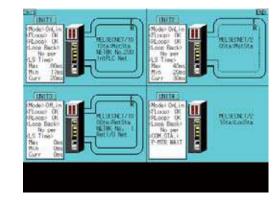
- The devices of PLCs, motion controllers, CNCs and robot controllers can be monitored and changed.
- * : Only monitoring, but not changing device values and other operations, is available with the QSCPU.
- The current values and setting values of timers (T) and counters (C) can be changed.
- The buffer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



At-a-glance monitoring of network status

16 15 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 I on a dedicated screen.
- Communication line and information from the host and other stations can be monitored to check the communication status.



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

GRAPHIC OPERATION TERMINAL GOT 1000

- 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.
- The status of the LCPU built-in I/O function can be checked.
- QD77MS, QD73A1, and LD75 are supported. NEW
- *: Supported by XGA/SVGA/VGA models.

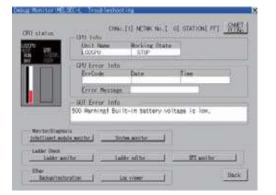


Easy maintenance of MELSEC-L Series

MELSEC-L troubleshooting function

GOT 1000

- 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

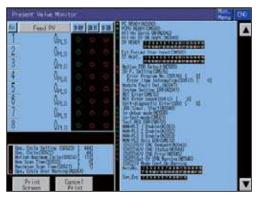
16 15 Q series motion monitor function

• 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.

<Objective models>

- Q172DS/Q173DSCPU (NEW)
- Q172D/Q173DCPU (-S1) Q170MCPU
- Q172H/Q173HCPU Q172(N)/Q173(N)CPU
- * : Supported only if the Q series motion controller CPU has the SV13/SV22 OS version. Moreover, available functions of the Q series motion monitor vary according to the CPU type or the servo amplifier model.



Save space and cost when no dedicated display device is required



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).



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Easy startup and adjustment of a servo amplifier GRAPHIC OPERATION TERMINAL GOT 1000 GT 15 Servo amplifier monitor function

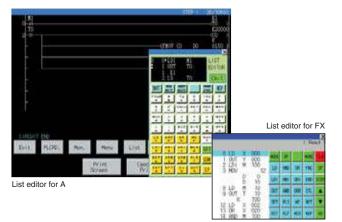
- In a system which outputs pulse strings, the GOT can be connected to a servo amplifier in a serial connection to perform the following operations: set up, monitoring, alarm display, diagnosis, parameter setting, and test operations.
 MR-J4-A is supported. (NEW)
- * : Available monitoring functions vary according to the servo amplifier type.

0.061092 pullas 0.r/win 1.outse	Att counter	4000306 pulsa -627 rev
	and the second stress of the s	-627.rev
I malter	A NAME AND ADDRESS OF A DOCUMENT	
	Lond to motor inertia ratio	7.00 times
0 outse	Rue voltage	330 V
0 héps	Encoder Internal Imperature	.50 %
-0,05 V	Settling time	2 m
0.00 V	Oscillating reasons	0 推
0 5	Jough drive Times	9 times
01	Unit power computer inn	20.00
0.%	Unit total power	30 Mh
ØX		
	0 kbps -0.05 V 0.00 V 0.5 0.5 0.5	O blog O blog

Convenient method for minor program changes onsite

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.



Powerful features even down to the most basic

GT10

Various screen sizes

GOT 1000

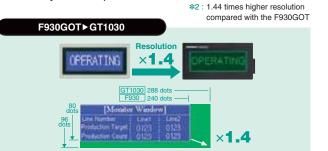
- GRAPHIC OPERATION TERMINAL

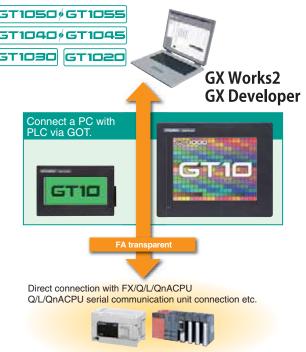
The GT10 now offers a line of models with 5.7" and 4.7" screens, enabling more flexible screen layouts. The 4.5" and 3.7" wide screen models are also available with a white frame.



GT1030

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





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

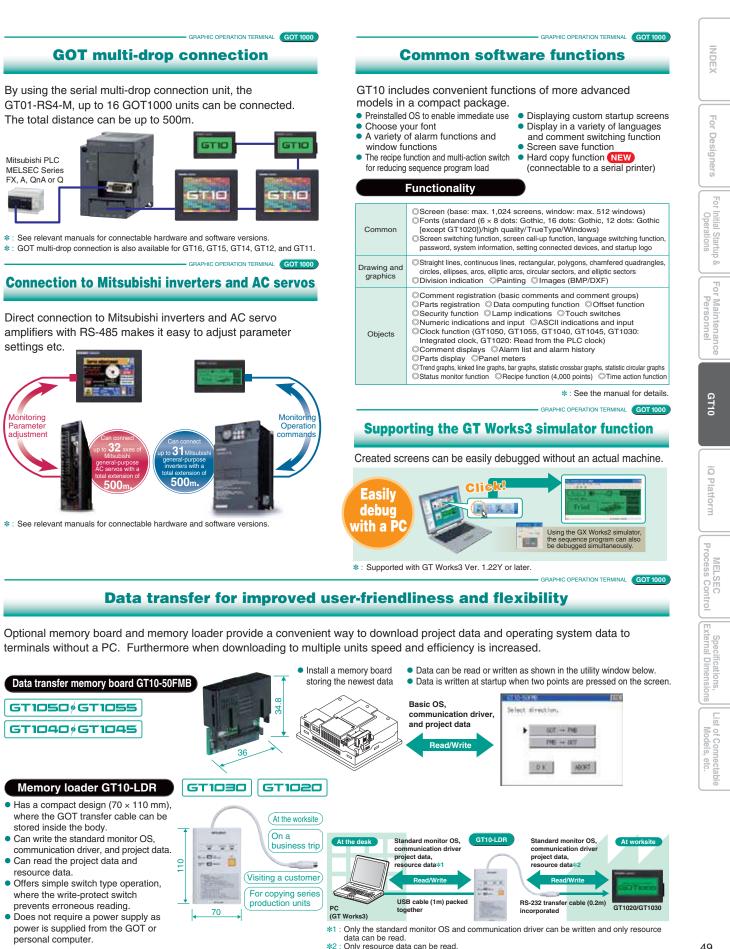


* : See relevant manuals for connectable hardware and software versions

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.





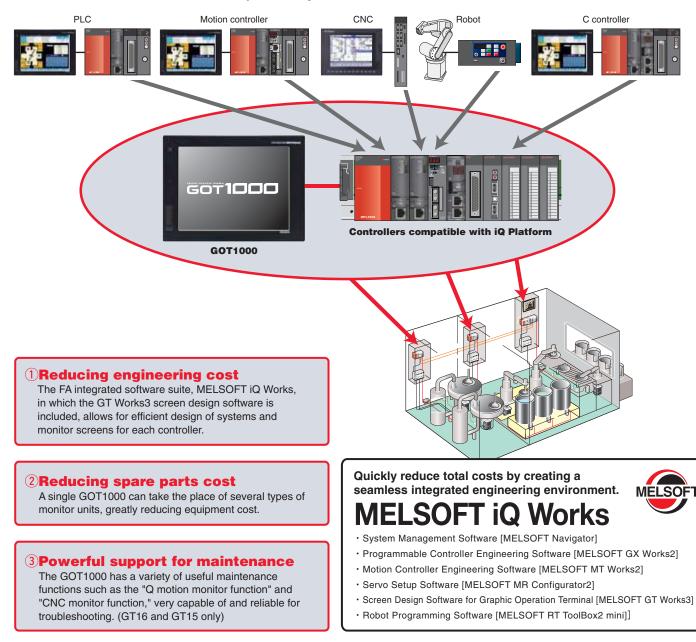
Real-time multi CPU access with the iQ Platform



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

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

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



Create an easy-to-operate process control system. GOT1000 flexibly ties into process control. **MELSEC** PROCESS CONTROL MELSEC will change process cont From dedicated systems to PLCs. MELSEC will change process control.

"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 used together with Mitsubishi FA devices, outstanding integration allows a high-performance process control monitor system to be created easily.

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

$oldsymbol{1}$ PX 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. *: For details on the compatible software version and functions, see the PX Developer Operating Manual.

[Screen examples that can be created automatically]



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.

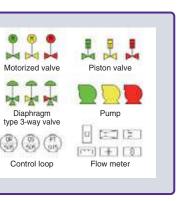
Worksite GOT1000 at the worksite

• Excellent anti-environment performance (IP67f) for operation in various types of worksites.

The VESA mount adapter is available.

3Process control parts library Library of process control parts has been added. This allows a

process control graphic screen to be created easily.



* : Connectable models and usable functions vary depending on the GOT main unit.

For more details, see "List of connectable models" (page 65 to page 69), "Function list" (page 70 to page 73) and "Notes for use" (page 81 to page 86).

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Alarm list screen

Trend graph screen



• 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)

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 system.

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



For

GT16

General specifications

Iter	n	Specification								
Operating ambient	Display		0°C to 50°C*5							
temperature*1	Other than display									
Storage ambien	t temperature									
Operating ambie	ent humidity			10 to 90%RH, r	o condensation	I				
Storage ambien	t humidity	10 to 90%RH, no condensation								
				Frequency	Acceleration	Half amplitude	Sweep count			
		Conforming to JIS B 3502	Under intermittent	5 to 8.4Hz	-	3.5mm	10 times each in X,			
Vibration resista	Vibration resistance		vibration	8.4 to 150Hz	9.8m/s ²	-	10 times each in X, 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 resistant	ce	Conforming	to JIS B 3502 and	IEC 61131-2 (1	47m/s ² , 3 times	each in X, Y an	· · ·			
Operating atmos	ophoro	N	o oily smoke, corro	osive gas or con	nbustible gas, le	ess conductive d	ust,			
Operating atmos	sphere		away fro	om direct sunlig	ht (the same in :	storage)				
Operating altitud	de <mark>*</mark> 2			2000m	or less					
Installation locat	tion			In contro	l panel <mark>*</mark> 6					
Overvoltage cat	egory *3			∏ or	lower					
Contamination I	evel*4			2 or	less					
Cooling method				Self-c	ooling					
Grounding		Ту	/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 multimedia unit (GT16M-MMR), MELSECNET/H communication unit (GT15-J71LP23-25 or GT15-J71BR13) or CC-Link communication unit (GT15-J71LP23-25 or GT15-J71BR13) or CC-Link communication unit (GT15-J61BT13),
*2 : Do not operate or store the GOT unit in pressurized environments where the pressure exceeds 0m elevation atmospheric pressure, as this could result in abnormal operation.
Do not pressurize inside the control panel for air purge cleaning. The pressure could raise the surface sheet, making the touch panel difficult to operate or causing the sheet to come off.
*3 : Assuming that the device is connected at some point between a public power distribution network and local system equipment. Category II applies to devices that are supplied with power from fixed equipment. The surge withstand voltage is 2,500V for devices with ratings up to 300V.
*4 : Index that indicates the level of foreign conductive matter in the operating environment of the device. Contamination level 2 denotes an environment contaminated only by non-conductive matter which may, under certain conditions, become temporarily conductive due to condensation.
*5 : 0 to 40°C for GT1665HS
*6 : Excluding GT1665HS
Do not use or store the GOT under direct sun light or in an environment

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		TFT color LCD (high-brigh	tness, wide viewing angle)	TFT colo	r LCD	TFT color LCD (high-brightness, wide viewing angle)
	Screen size	15"	12.1"		10).4"	8.4"	
	Resolution Display size	XGA: 1024 × 768 [dots] 304.1(W) × 228.1(H)[mm]	SVGA: 800 × 600 [dots] 246(W) × 184.5(H)[mm]	SVGA: 800 × 600 [dots]	211(W) × 1	VGA: 640 × 480 [dots] 211(W) × 158(H)[mm]		SVGA: 800 × 600 [dots] 171(W) × 128(H)[mm]
Display	No. of displayed characters	16-dot standard font: 64 chars. × 48 lines (2-byte) 12-dot standard font: 85 chars. × 64 lines (2-byte)	16-dot standard font: 50 12-dot standard font: 66	chars. × 37 lines (2-byte) chars. × 50 lines (2-byte)		16-dot standard font: 40 chars. × 30 lines (2-byte) 12-dot standard font: 53 chars. × 40 lines (2-byte)		
*1	Display colors		65,536	colors		4,096 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: 88°	Right/left: 80°, Up: 80°, Down: 60°*14	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]	500 [cd/m ²]*15	200 [cd	/m²]	400 [cd/m ²]
	Intensity adjustment		8-step ad	liustment		4-step adju	ustment	8-step adjustment
		Approx. 52		Approx. 43	3,000 hours	Approx. 52,0	000 hours	Approx. 43,000 hours
	Life		temperature: 25°C)	(operating ambient	temperature: 25°C)	(operating ambient to cklight OFF detection function	emperature: 25°C)	(operating ambient temperature: 25°C)
Backligh	t		C		ff time and screen save tin		nı.	
					Approx. 50,000 hours or m	iore		
	Life*3		(ambient temperature of 25°	C)	
	Туре		· · · ·		Analog resistive type			
Touch	Key size				Min. 2 × 2 [dots] (per key	()		
panel	No. of simultaneous touch points	Simulta	aneous touch prohibited*4	(If two or more points are	pressed simultaneously, the	he switch may function near	the center of the presse	ed points.)
*10	Life*11			1,000,000 tim	es or more (operating for	e 0.98N or less)		
	Detection distance	1	[m]			-		
	Detection range	Right/left/u	up/down: 70°			-		
Human sensor	Detection delay time	0 to	4 [sec]			-		
3611301	Detection temperature		nce to be 4°C or more body and ambient air			-		
Memory *5				n flash memory ject data and OS)		11MB built-in fla (for saving projec		15MB built-in flash memory (for saving project data and OS)
	Life (No. of writings)				100,000 times			
Internal	clock accuracy				day (operating ambient ter	<u> </u>		
Battery	Baalrad up data		Clask		GT15-BAT type lithium bat	data and SRAM user area (FOOKD)	
Dattery	Backed up data Life		CIOCK				500KB)	
	Lile				ars (operating ambient ter	/38400/19200/9600/4800bp	2	
					nector shape: D-sub 9-pin		5	
	RS-232*7		Ap	plication: Communication	with connected devices, c	onnection to personal comp	uter	
					/write, OS installation, FA			
	RS-422/485					00/38400/19200/9600/4800b unication with connected de		
				Data transfe	system: 100BASE-TX, 10	DBASE-T, 1ch*8		
	Ethernet				ector shape: RJ-45 (modu			
Built-in	Luiomot					unction, connection to perso function, MES interface func		
interface			u.	USB (full-speed 1	2Mbps), host 1ch Conn	ector shape: TYPE-A	,	
	USB	Applic	alion: USB mouse/keyboa		ory data transfer and stora 3 (full-speed 12Mbps), dev	ge FAT16 format: max. 20	aB, FA132 format: max.	326B*10
	USB				i-B Application: Connect			
					/write, OS installation, FA			
					Compact flash slot, 1ch	· · ·		
	CF card	Con	nector shape: TYPE I	Application: Data transfer,	data storage, GOT startur	p FAT16 format: max. 2GB	3, FAT32 format: max. 3	2GB <mark>*13</mark>
	Optional function board			1ch fo	r optional function board ir	nstallation		
	Extension unit*7				nmunication unit/optional u			
Buzzer c	output				gle tone (tone length adjus			
	e construction			F	Front: IP67f ^{*6} In panel: IF			
	dimensions	397(W) × 296(H) × 61(D)[mm]				H) × 49(D)[mm]		$241(W)\times 190(H)\times 52(D)[mm]$
	it dimensions	383.5(W) × 282.5(H)[mm]				200(H)[mm]		227(W) × 176(H)[mm]
Weight (ex	cl. mounting brackets)	5.0[kg]	2.7[kg]	2.1[kg]	2.3[kg]*16	2.3[k		1.7[kg]
Applicable	e software packages		GT Works3 Vers	ion1.54G or later		GT Works3 Versio (not supported by GT W		GT Works3 Version1.54G or later

Powe	er supply	specificatio	ns						
		-		GT1675M-STBA	Specif	ication	CT167EM CTDD		
li	tem (GT1695M-XTBA	GT1685M-STBA	GT1675M-VTBA GT1675-VNBA GT1672-VNBA GT1665M-STBA GT1665M-VTBA	GT1695M-XTBD	GT1685M-STBD	GT1675M-STBD GT1675M-VTBD GT1675-VNBD GT1672-VNBD GT1665M-STBD GT1665M-VTBD	GT1655-VTBD	GT1665HS-VTBD
Input powe	r supply voltage	100 te	o 240VAC (+10%, -15	GT1662-VNBA %)		24VDC (+	GT1662-VNBD 25%, -20%)		24VDC (+10%, -15%)
Input free		i0VA (at max. load) 1	50/60Hz ±5% 10VA (at max. load)	100VA (at max. load)		· · · · · · · · · · · · · · · · · · ·	-		
Power co	onsumption	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 b	backlight off	38W or less	32W or less 28A or less	30W or less	30W or less 12A or less	26W or less	27W or less or less	14W or less 67A or less	8.2W or less 30A or less
Inrush cu			(4ms, at max. load)		(75ms, at max. load)	(55ms, at	max. load)	(1ms, at max. load)	(2ms, at max. load)
Permissible inst	tantaneous failure time		20ms (100VAC or mo				10ms		Within 5ms Noise voltage 1000Vp-p,
Noise re	sistance		ge 1500Vp-p, noise w or with noise frequen		by	Noise voltage 500V noise simulator with n	p-p, noise width 1µs bise frequency 25 to 60)Hz	noise width 1ms by noise simulator with noise frequency 30 to 100Hz
		500VAC for 1 minute b		÷ 1			e between power suppl		
	n resistance le wire size		10MΩ	or higher with an insulat	0.75 to 2 [mm ²]	500VDC between powe	r supply terminal and g	jround)	-
Clamp te	erminal torque (terminal		(lamp terminals for M3 s		S3.3, V2-N3A, FV2-N3	4		-
	ninal screws)				0.5 to 0.8 [N·m]				-
Perfo	ormance	e specificat	ions						
	Item	GT1665M-VTBA	Spo GT1662-VNBA	cification		- Co	omponent i	names	
		GT1665M-VTBD	GT1662-VNBA GT1662-VNBE	GT1655-VTBD	GT1665HS-VTB	D	T1685/GT167		
	Туре	TFT color LCD (high-brightness, wide viewing an	gle) TFT color LCD		color LCD s, wide viewing angle)		Reset switch		- S.MODE (OS installation switch)
	Screen size Resolution		8.4"	5.7" 40 × 480 [dots]	6.5"	Exten (GT1655 at	sion interface		- CF card interface - Battery holder
	Display size		× 128(H)[mm]	115(W) × 86(H)[mn	n] 132.5(W) × 99.4(H)[n	Videe (D)	BB interface		-CF card access LED
Display	No. of displayed characters	1		40 chars. × 30 lines (2-b 53 chars. × 40 lines (2-b		Optio	nal function	<u>┥</u> ┤┑┥╸	- CF card access LED - CF card access switch
*1	Display colors View angle*2	65,536 colors Bight/left: 80°, Up: 80°, Down:	16 colors 60° Right/left: 45°, Up/Down		536 colors 0° Right/left: 80°, Up: 60°, Down				Dip switch for setting terminal resistance (inside cours)
	Intensity	600 [cd/m ²]	200 [cd/m ²]	350 [cd/m ²]	550 [cd/m ²]	(GT1695, (GT1685 c			(inside cover)
	Intensity adjustme		4-step adjustmer urs Approx. 52,000 ho		adjustment Irs Approx. 41,000 ho				
	Lite	(operating ambient temperature: 2	5°C) (operating ambient temperature: ube (replaceable), with backlight Ol	25°C) (operating ambient temperature: 2	5°C) (operating ambient temperature: with backlight OFF detection	25°C)			– Display, touch key
Backlight	t	detection function. Backlight o	ff time and screen save time can b	set. function. Backlight off ar	nd screen save time can be	set. (device)	Ϋ́Ϋ́Ι 🖉 💷		
	Life*3		1.00	nore Approx. 70,000 hours or m g ambient temperature of 25°		USB interfa (host)			- RS-422/485 interface
Touch	Type Key size			resistive type 2 [dots] (per key)		RS-232 inte Ethernet int			- Power supply terminal his illustration shows GT1695.
panel *10	No. of simultaneous touch po		^{#4} (If two or more points are pressed	simultaneously, the switch may function		ints.)	S (Handy)		nis illustration shows of 1055.
	Detection distan	ce	,000,000 times or more	e (operating force 0.98N -	or less)	Interface — protective c		Reset switch	
Human sensor	Detection range Detection delay tir			-		USB interfaction (device)	\ //	—S.MODE (OS installation switch)	h)
	Detection temperate		ory 11MB built-in flash me	– 15MB built	-in flash memory	USB interfaction (host)		—Key type selector sw —CF card interface	itch
Memory *5		(for saving project data and 0	OS) (for saving project data and	OS) (for saving pr	oject data and OS)			— CF card access LED — CF card access swite	ch
Internal (Life (No. of writing	3.47 to 8	8.38 secs/day	-3.61 to 2.16 secs/day	3.47 to 8.38 secs/day	Emergence			Hook for wall mounting
internare			t temperature: 25°C)* ype lithium battery		(operating ambient temperature: 25 tery GT15-BAT type lithium bat	*C)*12 stop switch			Hand strap Grip switch
Battery	Backed up data	a Clock data, mainten	ance time notification of	ata, system log data and	SRAM user area (500)	Display. —			External interface Rear face protective cover
	Lite		RS-232, 1ch	ing ambient temperature	RS-232, RS-422/485, 1				RS-232 interface RS-422/485 interface
	RS-232*7	Cor	nector shape: D-sub 9		one of the channels.) Operation			Dip switch for setting terminal resistance
		C	Communication with o	omputer	Transmission speed: 115200/57600/38400/19	200/			Battery (All inside cover)
			RS-422/485, 1c		9600/4800bps Connector shape:	Because t	ne number of display eleme	ently lit) and black dots (ne ents that exist on an LCD p bright and black dots to ze	anel is large, it is not
	RS-422/485	C	onnector shape: 14-pir		Square, 42-pin (male Application: Communica with connected device	tion Individual d Note that thi	fferences in LCD panels may s is a characteristic of LCD pan	cause differences in color, un els and it does not mean the pro-	neven brightness and flickering. oducts are defective or damaged.
			: Communication with er system: 100BASE-		Data transfer system: 100BASE-TX, 10BASE-T,	angles, th tch *3 : Using the G	e screen display may not b OT screen save/backlight OFF	e clear enough depending functions prevents screen burr	n-in and extends backlight life.
		Conn	ector shape: RJ-45 (n Communication with	iodular jack)	Connector shape: Square, 42-pin (male)	*4 : An analog simultane	resistive touch display is u ously, if a switch is located	used. When 2 points on th the middle of the 2 points	e screen are touched then the switch will be
Built-in interface	Ethernet	gateway fu	nction, connection to pet data read/write, OS	ersonal computer	Application: Communication with conner devices, gateway function	n, *5 : The memo	y is ROM that permits overw	2 points on the screen sir riting of new data without hav e cover is on, pressing firmly	ving to delete the existing data.
interface			arent function, MES in		connection to personal com (project data read/write, O installation, FA transparent fun	s makes it co notion) memory is	nform to IP67f. (The USB in connected.) However, this d	terface conforms to IP2X who oes not guarantee protection	nen a USB cable or a USB n in all users' environments.
				onnector shane. TVPE-		nnector chemicals	for a long time or it is soal	onment where it is expose (ed with oil mist. barcode reader, and RFID (ed to splashing oil or controller are used, the sum
			2Mbps), host 1ch C				rent consumptions should b		
	USB	Application: USB mo	use/keyboard connection	, USB memory data transfe T32 format: max. 32GB*13		For the cu	rrents which the extension	units, barcode reader, an	d RFID controller consume
	USB	Application: USB mo and storage FAT	use/keyboard connection 16 format: max. 2GB, FA full-speed 12Mbps), de	, USB memory data transfe T32 format: max. 32GB*13 vice 1ch Connector sh	FAT32 format: max. 32GB ^{%13}	For the cu and the cu *8 : The functi *9 : The degree	rrents which the extension rrent level which the GOT on version A of GT1695/G of protection is not guarante	units, barcode reader, and can supply, see "Notes fo T1685 is not compatible w ed under all users' environme	d RFID controller consume r use" (page 81 to page 86). ith 10BASE-T. ental conditions. If the interface
	USB	Application: USB mo and storage FAT USB ((proje	use/keyboard connection 16 format: max. 2GB, FA full-speed 12Mbps), de Application: Connec ct data read/write, OS	, USB memory data transfe T32 format: max. 32GB*13 vice 1ch Connector sh tion to personal compute installation, FA transpare	transferand storage FA116 tormat: ma FAT32 tormat: max. 32GB*13 hape: Mini-B er ent function)	For the cu and the ct *8 : The functi *9 : The degree protective c *10: If necessa	rrents which the extension rrent level which the GOT on version A of GT1695/G of protection is not guarante over or the rear face protecti ry, use a stylus pen meetii	units, barcode reader, an can supply, see "Notes fo T1685 is not compatible w ed under all users' environme e cover is removed, the spee ng the following specificati	d RFID controller consume r use" (page 81 to page 86). ith 10BASE-T. ental conditions. If the interface ification does not apply. ons.
	CF card	Application: USB mo and storage FAT USB ((proje Application: Data trans	use/keyboard connection 16 format: max. 2GB, FA full-speed 12Mbps), de Application: Connec tot data read/write, OS Compact flash slot, 1cl fer, data storage, GOT start	, USB memory data transfe T32 format: max. 32GB*13 vice 1ch Connector si tion to personal compute installation, FA transpare Connector shape: Ty up FAT16 format: max. 2GB,	transferand storage FA116 bornet: ma FAT32 format: max. 3208 ⁹¹³ anape: Mini-B ar bont function) 'PE I FAT32 format: max. 32GB ⁴	For the cu and the cu *8 : The functi *9 : The degree protective o *10: If necesss • Material: *13 *11: When usin	rrents which the extension rrent level which the GOT no version A of GT1695/G of protection is not guarante over or the rear face protectir ry, use a stylus pen meetii Polyacetal resin • Penpoint g a stylus pen, it will be 10	units, barcode reader, an can supply, see "Notes fo T1685 is not compatible w ed under all users' environme ve cover is removed, the specificati radius: 0.8mm or more (The stylus pe 00,000 times or more (ope	d RFID controller consume r use" (page 81 to page 86). ith 10BASE-T. Intal conditions. If the interface iffication does not apply. ons. n cannot be used with the GT1665HS.) rating force 0.98N max.).
	CF card Optional function box	Application: USB mo and storage FAT USB ((proje Application: Data trans	use/keyboard connection 16 format: max. 2GB, FA full-speed 12Mbps), de Application: Connec ct data read/write, OS Compact flash slot, 1cl fer, data storage, GOT starf r optional function boa	, USB memory data transfi T32 format: max. 32GB *13 vice 1ch Connector st tion to personal compute installation, FA transpare Connector shape: Ty p FAT16 format: max. 2GB, d installation to be computing to the computing to the to be computed to the computing to the computing to the to be computed to the computing to the computed to the to be computed to the computed to the computed to the computed to the to be computed to the computed to the computed to the computed to the to be computed to the computed to the computed to the computed to the to be computed to the computed totted totted to the computed to the computed to the computed to	All's tomat: max stops = All's tomat: max FAT32 tomat: max. stops = All's tomat: max or pr funt function) /PE I FAT322 format: max. 32GB 4 	For the cu and the cu *8 : The functi *9 : The degree protective (*10: If necessa *11: When usin Since the than abov *12: If the open	rrents which the extension rrent level which the GOT on version A of GT1695(G of protection is not guarante over or the reaf ace protection Polyacetal resin • Penpoint g a stylus pen, it will be 1 ouch panel is a consumat e, depending on the usage ating ambient temperature	units, barcode reader, an can supply, see "Notes fo T1685 is not compatible w ed under all users' environme ve cover is removed, the spe- ng the following specificati radius 08mm or more (The stylus pe ole 0000 times or more (ope ple product structurally, it n method and environment is other than 25°C, opera	d RFID controller consume ruse" (page 81 to page 86). ith 10BASE-T. intal conditions. If the interface cification does not apply. ons. namot be used with the GT1665HS.) rating force 0.98N max.). hay not be used even fewer tion errors may increase.
Burre	CF card Optional function box Extension unit*	Application: USB mo and storage FAT USB ((proje Application: Data trans	use/keyboard connection 16 format: max. 2GB, FA full-speed 12Mbps), du Application: Connec td data read/write, OS Compact flash slot, 1cl fer, data storage, GOT star r optional function boa n unit/optional unit installa	, USB memory data transfit T32 format: max. 32GB#13 vice 1ch Connector st tion to personal compute installation, FA transpare Connector shape: Ty p FAT16 format: max. 2GB, d installation 1ch for communication unit/optional unit installat	AT22 format: max. 32GB ⁴¹	For the cu and the cu \$48 : The funct \$49 : The degree protective (*10: If necesse *13 *11: When usis \$13 *11: When usis Since the than abov *13: USB ment *13: USB ment the follow	rrents which the extension rrent level which the GOT on version A of GT1695/G of protection is not guarante over or the rear face protecti- ry, use a stylus pen meetil Polyacetal resin + Pen point g a stylus pen, it will be 11 ouch panel is a consumat e, depending on the usage ating ambient temperature ory and CF cards that can g versions of OSs installe	units, barcode reader, an can supply, see "Notes fo T1685 is not compatible we dunder all users' environme ve cover is removed, the spee ng the following specificati- radius 0.8mm or more (he slylus p 0,000 times or more (ope le product structurally, if method and environment is other than 25°C, opera store more than 2GB are d.	d RFID controller consume ruse" (page 81 to page 86). ith 10BASE-T. Intal conditions. If the interface ification does not apply. ons. or cannot be used with the GT1665HS.) rating force 0.98N max.). nay not be used even fewer
Buzzer o Protectivi	CF card Optional function box Extension unit* utput	Application: USB mo and storage FAT USB ((proje Application: Data trans rd 1ch fo 2ch for communication	use/keyboard connection 16 format: max. 2GB, FA full-speed 12Mbps), du Application: Conner ct data read/write, OS Compact flash slot, 1cl fer, data storage, GOT star r optional function boa n unit/optional unit installa Single tone (t	, USB memory data transfi T32 format: max. 32GB#13 vice 1ch Connector st tion to personal compute installation, FA transpare Connector shape: Th up FAT16 format: max. 2GB, d installation 1ch for communication unit/optional unit installat on length adjustable)	Interest stopp + AI to fund: ne FAT2 outs: COBM 1 FAT2 outs: COBM 1 FAT2 outs: COBM 1 FAT32 format: max. 32GB 4 	For the cu and the cu *83 : The funct *83 : The funct *83 : The degree protective (*101 f necessa *13 *11: When usin Since the than abov *12: If the oper *13: USB mem the followi • Standard With OSS	rrents which the extension rrent level which the GOT on version A of GT1695/G of protection is not guarante Polyacetal resin • Pen point Polyacetal resin • Pen point g a stylus pen, it will be 1 ouch panel is a consumat a, depending on the usage atting ambient temperature ory and CF cards that can g versions of QSs installe version: c50.90.0AF or tal monitor QS version: c5.0	units, barcode reader, an can supply, see "Notes fo T1685 is not compatible w dunder all users' environme y the following specificati radius 08mm or more (The stylus pr 0,000 times or more (ope le product structurally, it n method and environment is other than 25°C, opera store more than 26B are d. er 9.00 o Italer jons, the GOT cannot cor	d RFID controller consume ruse" (page 81 to page 86). ith 10BASE-T. ental conditions. If the interface affication does not apply. ons. In cannot be used with the GT1665HS.) rating force 0.98N max.). any not be used even fewer ition errors may increase. available for the GT16 with
Protectiv	CF card Optional function box Extension unit*	Application: USB mo and storage FAT USB ((proje Application: Data trans rd 1ch fc 2ch for communication F	use/keyboard connection 16 format: max. 2GB, FA full-speed 12Mbps), du Application: Connec td data read/write, OS Compact flash slot, 1cl fer, data storage, GOT star r optional function boa n unit/optional unit installa	, USB memory data transfi T32 format: max. 32GB#13 vice 1ch Connector st tion to personal compute installation, FA transpare Connector shape: TT up FAT16 format: max. 2GB, d installation 1ch for communication unit/optional unit installat one length adjustable) al: IP2X	turdenal stopp + Al 16 tomat ne FAT2 format max 3268 ^{H3} and the stopp - Al 16 tomat ne FAT32 format: max. 32GB ^{H3} FAT32 format: max. 32GB ^{H3} - tomat -	For the cu and the cu *83 : The funct *83 : The funct *83 : The funct *13 *11 Wnen usin Since the than abov *13 USB mem the followi • Standard With OSS) memory a mem	rrents which the extension rrent level which the GOT on version A of GT1695/G of protection is not guarante lower or the rear face protective Polyacetal resin • Pen point g a stylus pen, it will be 1 lowch panel is a consumat a, depending on the usage atting ambient temperature ory and CF cards that can ory and CF cards that can monitor OS version: 05.0 andire than the above vere nd the CF card that store re dversions of OSs are not OSs are not oSs are not oSs are not oSs are not	units, barcode reader, an can supply, see "Notes fo T1685 is not compatible w dunder all users' environme y the following specificati radius 08mm or more (The stylus pr 0,000 times or more (ope ble product structurally, it n method and environment is other than 25°C, opera store more than 26B are d. er 9.00 or later sions, the GOT cannot cor nore than 26B.	d RFID controller consume ruse" (page 81 to page 86). ith 10BASE-T. Intal conditions. If the interface difcation does not apply. ons. In carnot be used with the GT1665HS) in carnot be used with the GT1665HS, any not be used even fewer ition errors may increase. available for the GT16 with rectly recognize the USB in the GOT by using GT
Protective External Panel cut	CF card Optional function boo Extension unit* utput e construction	Application: USB mo and storage FAT USB ((proje Application: Data trans ind 1ch fo 2ch for communication E 241(W) × 15 227(W)	use/keyboard connection 16 format: max. 2GB, FA full-speed 12Mbps), du Application: Conner et data read/write, OS Compact flash slot, 1c1 fer, data storage, GOT star r optional function boa n unit/optional unit installa Single tone (tt Front: IP67f*6 In pan	, USB memory data transfi T32 format: max. 32GB#13 vice 1ch Connector st tion to personal compute installation, FA transpare Connector shape: TT up FAT16 format: max. 2GB, d installation 1ch for communication unit/optional unit installat one length adjustable) al: IP2X	turdenal storge FATIB tomate na FAT2 tomate nas. 3268 ^{H3} r r r fAT32 formate nas. 3268 ^{H3} r FAT32 formate nas. 3268 ^{H3} r fAT32 formate nas. 3268 ^{H3} r r fAT32 formate nas. 3268 ^{H3} r fAT32 formate nas. 326H3 r fAT32 formate nas. 3	For the cu and the cu *88 : The functi *89 : The functi *89 : The degree • Material *13 *11: When usin Since the than abov *12: If the open *13: USB mem *13: USB mem *13: USB mem *13: USB mem *13: USB mem *13: USB mem • Bool OS • Standart • S	rrents which the extension rrent level which the GOT on version A of GT1695/G of protection is not guarante lower or the rear face protective Polyacetal resin • Pen point g a stylus pen, it will be 1 lowch panel is a consumat a, depending on the usage atting ambient temperature ory and CF cards that can ory and CF cards that can monitor OS version: 05.0 andire than the above vere nd the CF card that store re dversions of OSs are not OSs are not oSs are not oSs are not oSs are not	units, barcode reader, an can supply, see "Notes fo T1685 is not compatible w ed under all users' environme y environ is removed, the spee g the following specificati- radius 0 amor more (The stykes p 00,000 times or more (ope ble product structurally, it n method and environment is other than 25°C, opera store more than 26B are d. 9.00 or later jons, the GOT cannot cor nore than 26B. installed, install the OSs c . GT Designer2 version more than 26B.	d RFID controller consume ruse" (page 81 to page 86). ith 10BASE-T. intal conditions. If the interface affication does not apply. ons. In carnot be used with the GT1665HS.) rating force 0.98N max.). any not be used even fewer ition errors may increase. available for the GT16 with

nput pow nput fro	ltem G	T1695M-XTBA	GT1685M-STBA	GT1675M-STBA GT1675M-VTBA GT1675-VNBA	Specif	ication		GT1675M-STBD GT1675M-VTBD		
nput fro				GT1672-VNBA GT1665M-STBA GT1665M-VTBA GT1662-VNBA	GT1695M-XTBD	GT1685M-S	STBD	GT1675-VNBD GT1672-VNBD GT1665M-STBD GT1665M-VTBD GT1662-VNBD	GT1655-VTBD	GT1665HS-VTBD
nput maxin	er supply voltage	100	to 240VAC (+10%, -15 50/60Hz ±5%	%)		24	VDC (+25%	, -20%) _		24VDC (+10%, -15%)
	num apparent power 150	, ,	110VA (at max. load)	100VA (at max. load)		1		-	T	
	consumption backlight off	64W or less 38W or less	46W or less 32W or less	39W or less 30W or less	60W or less 30W or less	40W or le 26W or le		38W or less 27W or less	16W or less 14W or less	11.6W or less 8.2W or less
	current	I	28A or less		12A or less (75ms, at max, load)	(5)	12A or le		67A or less	30A or less
ermissible ir	istantaneous failure time	Withi	(4ms, at max. load) in 20ms (100VAC or m		(75ms, at max. load)	(5)	5ms, at ma Within 10	,	(1ms, at max. load)	(2ms, at max. load) Within 5ms
l=:		Noise volt	age 1500Vp-p, noise v	vidth 1µs		Noise voltad	qe 500Vp-p	, noise width 1μs		Noise voltage 1000Vp-p, noise width 1ms
loise r	esistance		ator with noise frequen		by			frequency 25 to 60)Hz	by noise simulator with noise frequency 30 to 100Hz
	nd voltage 15 on resistance	00VAC for 1 minute	between power supply 10MQ	r terminal and ground or higher with an insulati	ion resistance tester (y terminal and ground	
Applica	ble wire size				0.75 to 2 [mm ²]				, ,	-
· ·	terminal torque (terminal		(Clamp terminals for M3 s		S3.3, V2-N3A, F	FV2-N3A			
	minal screws)				0.5 to 0.8 [N·m]					-
erf	ormance	specifica	tions							
	Item	GT1665M-VTB		ecification			Cor	nponent i	names	
		GT1665M-VTBI	D GT1662-VNBI) GT1055-VTBD	GT1665HS-VTB		1695/GT	685/GT167 /G	T166 /GT1655	
	Туре	TFT color LCD (high-brightness, wide viewing a	angle)	(high-brightness	color LCD s, wide viewing angle)			et switch		- S.MODE (OS installation switch)
	Screen size Resolution		8.4" VGA: 0	5.7" 540 × 480 [dots]	6.5"		Extension T1655 at left	side only)		- CF card interface - Battery holder
	Display size	171(W	/) × 128(H)[mm]	115(W) × 86(H)[mn	n] 132.5(W) × 99.4(H)[n		Video/RGB ding GT16VNE	nterface		-CF card access LED
isplay	No. of displayed characters			: 40 chars. × 30 lines (2-b : 53 chars. × 40 lines (2-b			Optional board	unction	<u><u></u> <u></u> </u>	-CF card access LED
	Display colors View angle*2	65,536 colors Bight/left: 80°, Up; 80°, Dow	16 colors	65,5 1: 20° Up/down/right/left: 8	0° Bight/left: 80°, Up: 60°, Down	: 80°	uman senso			- Dip switch for setting terminal resistance
	Intensity	600 [cd/m ²]	200 [cd/m ²]	350 [cd/m ²]	550 [cd/m ²]		GT1695, GT1685 only			(inside cover)
	Intensity adjustmer			nt 8-step ours Approx. 50,000 hou	adjustment urs Approx, 41.000 ho		WER LED -	Tim I		
	Life	(operating ambient temperature:	25°C) (operating ambient temperature tube (replaceable), with backlight O	25°C) (operating ambient temperature: 25	5°C) (operating ambient temperature: with backlight OFF detection	25°C)				- Display, touch key
acklig	nt	detection function. Backlight	off time and screen save time can b	e set. function. Backlight off an	nd screen save time can be	set. (de	B interface - evice)			
	Life*3		1.00	more Approx. 70,000 hours or mo ng ambient temperature of 25°		USI (ho:	B interface - ost)			- RS-422/485 interface
ouch	Type Key size			g resistive type 2 [dots] (per key)			-232 interfac			-Power supply terminal
anel 0	No. of simultaneous touch poir	ts Simultaneous touch prohibite		d simultaneously, the switch may function	n near the center of the pressed po	ints.)	nernet interfa		*1	his illustration shows GT1695.
	Life*11 Detection distance		1,000,000 times or mor	e (operating force 0.98N	or less)	Inte	rface —		Reset switch	
uman ensor	Detection range Detection delay time	-		-		USE	tective cover B interface – vice)		 S.MODE (OS installation switch 	h)
	Detection temperatur	e		-		USE	B interface -		Key type selector swi	tch
lemory	C drive		mory 11MB built-in flash me d OS) (for saving project data and	mory 15MB built 10S) (for saving pr	-in flash memory oject data and OS)	(hos	st)		CF card interface CF card access LED CF card access switc	h
	Life (No. of writings		10 8.38 secs/day	-3.61 to 2.16 secs/day	3.47 to 8.38 secs/day	_ _				look for wall mounting
nternal	clock accuracy	(operating ambie	ent temperature: 25°C)*	12 (operating ambient temperature: 25°C)*12 (operating ambient temperature: 25	c)*12 sto	mergency – op switch			land strap
attery	Backed up data		type lithium battery enance time notification of	data, system log data and	tery GT15-BAT type lithium bat SRAM user area (500ł		splay, —— uch key			Grip switch External interface
	Life		Approx. 5 years (opera RS-232. 1ch	ting ambient temperature	´		OWER			Rear face protective cover
				100/19200/9600/4800bps		ect LE	Ð			RS-422/485 interface Dip switch for setting
	RS-232*7	Application	n: Communication with connection to personal	connected devices,	one of the channels. Transmission speed: 115200/57600/38400/19	św	peration — vitches (6 sw	itches)	E	erminal resistance Battery All inside cover)
			ad/write, OS installation	FA transparent function)	9600/4800bps Connector shape:	*1:0			ently lit) and black dots (nev ents that exist on an LCD p	ver lit) generally appear.
	RS-422/485			100/19200/9600/4800bps) po In	ossible to rec ndividual different	uce appearance of the nces in LCD panels may	bright and black dots to ze cause differences in color, un	ero. even brightness and flickering.
			Connector shape: 14-pi n: Communication with		with connected device	es ∗ 2 : L0	CD panels h	ave characteristics of t	els and it does not mean the pro one reversal. Note that ev oe clear enough depending	ducts are defective or damaged. en within the indicated view on the display color.
			fer system: 100BASE- nector shape: RJ-45 (r		Data transfer system: 100BASE-TX, 10BASE-T, Connector shape:	1ch *3 : U: *4 : A	Ising the GOT s An analog res	creen save/backlight OFF stive touch display is u	functions prevents screen burn used. When 2 points on the	-in and extends backlight life. e screen are touched
uilt-in	Ethernet	Application	: Communication with unction, connection to	connected devices,	Square, 42-pin (male) Application: Communication with conner	. a	ctivated. The	erefore, avoid touching	the middle of the 2 points 2 points on the screen sin	nultaneously.
terface	1	(pro	ject data read/write, Os parent function, MES in	S installation,	devices, gateway function connection to personal comp (project data read/write, O	n, x0 .11 puter x6 :W S m	Vith the USB e nakes it confo	nvironmentally protectiv m to IP67f. (The USB in	e cover is on, pressing firmly terface conforms to IP2X wh	en a USB cable or a USB
					installation, FA transparent fun	ction) m	nemory is con The unit may	nected.) However, this d not be used in an envir	oes not guarantee protection onment where it is expose	in all users' environments.
		Application: USB m	ouse/keyboard connectio	Connector shape: TYPE-	er shape: TYPE-A Application: USB memo	ny data <mark>≉7</mark> :W ⊾2GB, of	Vhere more the f their current	consumptions should b	barcode reader, and RFID on the within the current level whether the second s	nich the GOT can supply.
	USB			T32 format: max. 32GB*13	FAT32 format: max. 32GB ^{\$13}	— Fi	or the currer and the currer	ts which the extension t level which the GOT	units, barcode reader, and can supply, see "Notes for	RFID controller consume use" (page 81 to page 86).
			Application: Conne	evice 1ch Connector sh ction to personal compute installation, FA transpare	er	*9 : TI	he degree of p	rotection is not guarante	T1685 is not compatible wi ed under all users' environme ve cover is removed, the spec	ntal conditions. If the interface
	CF card		Compact flash slot, 1c	h Connector shape: TY	PE I		f necessary, i Material: Po	ise a stylus pen meetii yacetal resin • Pen point	ng the following specification radius: 0.8mm or more (The stylus per	ons. n cannot be used with the GT1665HS.)
	Optional function boar		nsfer, data storage, GOT star for optional function boa	tup FAT16 format: max. 2GB, ard installation	FAT32 format: max. 32GB* –	— s	Since the touc	h panel is a consumat	00,000 times or more (oper ole product structurally, it method and environment.	ay not be used even fewer
			on unit/optional unit installa	1ch for communication	· _	*12: lf *13: U	f the operatin JSB memory	ambient temperature and CF cards that can	is other than 25°C, operat store more than 2GB are a	ion errors may increase. available for the GT16 with
	Extension unit*7	2ch for communicati		unit/optional unit installati		th	he following v	ersions of OSs installe	ed.	
uzzer		2ch for communicati	Single tone (1	one length adjustable)		·	Boot OS ver	sion: 05.09.00AF or lat	er 0.00 er let-	
	Extension unit*7		Single tone (1 Front: IP67f*6 In par	one length adjustable)	IP65f*9 (when external connected	tion W	Standard mo Vith OSs earl nemory and t	nitor OS version: 05.0 er than the above vers ne CF card that store r	9.00 or later sions, the GOT cannot corr nore than 2GB.	
Protecti Externa	Extension unit*7 output ve construction I dimensions	241(W) × 1	Front: IP67f*6 In par 190(H) × 52(D)[mm]	one length adjustable) el: IP2X 267(W) × 135(H) × 60(D)[m	(when external connected cable is connected Im] 201(W) × 230(H) × 97(D)[tion W mm] If	Standard mo Vith OSs earl nemory and t f the above vo Designer3 wit	nitor OS version: 05.0 er than the above vers ne CF card that store r ersions of OSs are not n version 1.17T or late	9.00 or later sions, the GOT cannot corr nore than 2GB. installed, install the OSs or r. GT Designer2 version	
Protecti Externa Panel c	Extension unit*7 output ve construction	241(W) × 1 227(W	Front: IP67f*6 In par	one length adjustable) el: IP2X	(when external connected cable is connected Im] 201(W) × 230(H) × 97(D)[tion W mm] If mm] D mm] X14: 84	Standard mo Vith OSs earl nemory and t f the above vo Designer3 with nemory and 0 8° in each di	nitor OS version: 05.0 er than the above vers ne CF card that store r ersions of OSs are not	9.00 or later sions, the GOT cannot corr more than 2GB. installed, install the OSs of r. GT Designer2 version e more than 2GB. sion C or earlier.	n the GOT by using GT

GT15

General specifications

ltem		Specification								
Operating ambient		0°C to 50°C								
temperature*1	Other than display				55°C					
Storage ambien		-20°C to 60°C								
Operating ambie	<u> </u>		10 to 90%RH, no condensation							
Storage ambient humidity*2				10 to 90%RH, r	no condensation	1				
				Frequency	Acceleration	Half amplitude	Sweep count			
Vibration resistance*3		Conforming	Under intermittent	5 to 8.4Hz	_	3.5mm	10 times each in X,			
		to JIS B 3502 and	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	e	Conforming	to JIS B 3502 and	IEC 61131-2 (1	47m/s ² , 3 times	each in X, Y ar	X, Y and Z directions)			
		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	le <mark>*4</mark>			2000m	or less					
Installation locat	ion	In control panel								
Overvoltage cat	egory <mark>*</mark> 5	15 I or lower								
Contamination le	evel ^{*6}			2 or	less					
Cooling method				Self-c	ooling					
Grounding		Ту	/pe D grounding (1	00Ω or less). C	Connect to pane	I if unable to gro	ound.			

¹ The maximum operating ambient temperature should be 5°C lower than that shown in the table on the left when connecting to a MELSECNET/H communication unit (GT15-J71LP23-25 or GT15-J71BR13) or CC-Link communication unit (GT15-J61BT13).

- communication unit (GT15-J71LP23-25 or GT15-J71BR13) or CC-Link communication unit (GT15-J61BT13).
 Water builb temperature for STN display type must be 39°C or lower.
 Sefer to the Communication Unit User's Manual for vibration resistance specifications when using the MELSECNET/10 communication unit (GT15-7J71BT13-2) or CO-Link communication unit (GT15-7J51BT13-2) or CO-Link communication unit (GT15-7J51BT13-2) or CO-Link communication unit (GT15-7J51BT13-2). (The specifications of communication units are different from those of the GOT man unit).
 20 on to perate or store the GOT unit in pressure denvironments 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.
 35 Assuming that the device is connected at some point between a public power distribution network and local system equipment. Category1 applies to device shart are supplied with power from fixed equipment. The surge withstand voltage is 2,500V for devices with ratings up to 300V.
 46 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

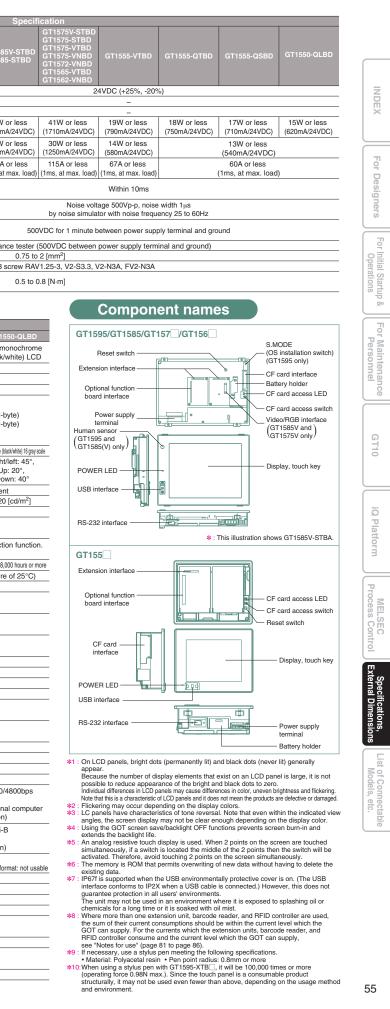
		opeemean			Specif	instion								
	Item	GT1595-XTBA GT1595-XTBD	GT1585V-STBA GT1585V-STBD GT1585-STBA GT1585-STBD	GT1575V-STBA GT1575V-STBD GT1575-STBA GT1575-STBD	GT1575-VTBA GT1575-VTBD	GT1575-VNBA GT1575-VNBD	GT1572-VNBA GT1572-VNBD	GT1565-VTBA GT1565-VTBD	GT1562-VNBA GT1562-VNBD					
	Туре	TFT	color LCD (high-bright	tness, wide viewing an	igle)	TFT co	lor LCD	TFT color LCD (high-brightness, wide viewing angle)	TFT color LCD					
	Screen size	15"	12.1"		10	.4"			.4"					
	Resolution	XGA: 1024 × 768 [dots]	SVGA: 800	× 600 [dots]			VGA: 640 × 480 [dots]							
	Display size	304.1(W) × 228.1(H) [mm]	246(W) × 184.5(H) [mm]		211(W) × 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) idard font:			rd font: 40 chars. × 30 rd font: 53 chars. × 40							
	Display colors		65,536	colors		256 colors	16 colors	65,536 colors	16 colors					
Display *1	View angle*3	Right/left: 75°, Up: 50°, Down: 60°	GT1585V Right/left: 60°, Up: 40°, Down: 50° GT1585 Right/left: 65°, Up: 45°, Down: 55°	Right/left/ 8		Right/le Up: Dowr	30°,	Right/left: 65°, Up: 50°, Down: 60°	Right/left: 45°, Up: 20°, Down: 20°					
	Contrast adjustment				-	-		1						
	Intensity	450 [cd/m ²]	GT1585V: 350 [cd/m ²] GT1585: 400 [cd/m ²]	400 [cd/m ²]	380 [cd/m ²]	200 [0		380 [cd/m ²]	150 [cd/m ²]					
	Intensity adjustment		8-step ad	justment	1	4-step ad	ljustment	8-step adjustment	GT1562-VNBD TFT color LCD .4" 28(H) [mm] 16 colors Right/left: 45°, Up: 20°, Down: 20° 150 [cd/m²] 4-step adjustment					
	Life	Approx. 52,000 hours (operating ambient temperature: 25°C)	Approx. 50 (operating ambient				Approx. 41,000 hours (operating ambient temperature: 25°C)							
Backligh	t	Cold-cathode fluorescent tube (replaceable), with backlight OFF detection function. Backlight off time and screen save time can be set.												
	Life*4	Approx. 50,000) hours or more			Approx. 40,000) hours or more							
	LIIe.			(Time for display in		t operating ambient te	mperature of 25°C)							
	Туре	Analog resistive type			Matrix res	istive type								
	No. of touch keys	-	1900 keys/screen (38			1200 keys	/screen (30 lines × 40	columns)						
Touch panel	Key size	Min. 2 × 2 [dots] (per key)	Min. 16 × (per key) (16 × 8 onl	16 [dots] y on lowermost line)			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 l	ess)*10							
	Detection distance					-	-							
Human	Detection range	Right/left/u												
sensor	Detection delay time					-	-							
	Detection temperature		ce to be 4°C or more ody and ambient air			-								
Memory *6	C drive		9MB built-in f (for saving proje			5MB built-in t (for saving proje		9MB built-in flash memory (for saving project data and OS)	memory (for saving					
	Life (No. of writings)					0 times								
_				GT15-BAT type lithium battery (optional)										
Battery	Backed up data					nce time notification da								
	Life RS-232*8	Applicat	ion: Communication wi	RS-232, 1ch Tr	ansmission speed: 11: Connector shape:	ambient temperature: 2 5200/57600/38400/192 D-sub 9-pin (male) Il computer (project dai	200/9600/4800bps	llation, FA transparent	function)					
Built-in interface	USB		Connector shape: Mini-		USB (full-speed 12	2Mbps), device 1ch								
intonace	CF card	Compact flash				, data storage, GOT st		max. 2GB, FAT32 forr						
	Optional function board		.,			tion board installation		. ,						
	Extension unit*8			2cł		nit/optional unit installat	tion							
Buzzer c					Single tone (tone									
	e construction				Front: IP67f*7	In panel: IP2X		1						
	dimensions USB port cover)	397(W) × 296(H) × 61(D) [mm]	316(W) × 242(H) × 52(D) [mm]		303(W) × 214(H	H) × 49(D) [mm]		241(W) × 190(H) × 52(D) [mm]					
Panel cu	t 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 (excl. mo	ounting brackets)	5.0 [kg]	2.8 [kg]	GT1575V: 2.3 [kg] GT1575: 2.4 [kg]	2.4 [kg]	2.3	[kg]	1.9	[kg]					
Applicable	e software package		· · · · · · · · · · · · · · · · · · ·		GT Works3 Vers	sion1.54G or later		·						
		-												

Power supply specifications

	Item	GT1595-XTBA	GT1585V-STBA GT1585-STBA	GT1575V-STBA GT1575-STBA GT1575-VTBA GT1575-VNBA GT1572-VNBA GT1565-VTBA GT1562-VNBA	GT1595-XTBD	GT1585V GT1585-
In	put power supply voltage	100 to	240VAC (+10%,	-15%)		
Ir	put frequency		50/60Hz ±5%			
Inj	out maximum apparent power	1	10VA (at max. load	d)		
Ρ	ower consumption	56W or less	41W or less	39W or less	57W or less (2380mA/24VDC)	43W or (1790mA/
	With backlight off	30W or less	28W or less	28W or less	32W or less (1330mA/24VDC)	30W or (1250mA/
Ir	rush 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 (1ms, at m
	ermissible instantaneous ilure time	Within	20ms (100VAC or	more)		
N	oise resistance		age 1500Vp-p, noise tor with noise frequ			
v	/ithstand voltage		500VAC for 1 minu wer supply terminal			
Ir	sulation resistance			10MΩ or highe	r with an insulation	resistance
A	pplicable wire size					
С	lamp terminal				Clamp terminals	for M3 sc
	ghtening torque (terminal ock's terminal screws)					

Performance specifications

			0					
	ltem			ication	07455			
		GT1555-VTBD	GT1555-QTBD	GT1555-QSBD	GT1550			
	Туре	TFT col (high-brightness, w		STN color LCD	STN mon (black/wh			
	Screen size		5.	7"				
Backlight Touch panel *9 Human sensor Memory *6	Resolution	VGA: 640 × 480 [dots]	(QVGA: 320 × 240 [dots	5]			
	Display size		115(W) × 8	36(H) [mm]				
	No. of displayed characters	16-dot standard font: 40 chars. × 30 lines (2-byte) 12-dot standard font: 53 chars. × 40 lines (2-byte)		ard font: 20 chars. × 15 ard font: 26 chars. × 20				
	Display colors	65,536	colors	4,096 colors	Monochrome (black/			
	View angle*3	Right/left: 80°, Up: 80°, Down: 70°	Right/left: 70°, Up: 70°, Down: 50°	Right/left: 55°, Up: 65°, Down: 70°	Right/le Up: 2 Down			
	Contrast adjustment	-	-	16-step	adjustment			
	Intensity	350 [cd/m ²]	400 [cd/m ²]	380 [cd/m ²]	220 [c			
	Intensity adjustment		8-step ad	ljustment	-			
	Life		Approx. 50	,000 hours temperature: 25°C)				
Backligh	nt		cent tube (not replacea	able), with backlight Ol				
Duoningi			cklight off time and scr		1			
	Life*4		rox. 75,000 hours or m		Approx. 58,000			
	Туре	(Time for display in	tensity reaches 50% a Matrix res		mperature o			
		1200 keys/screen	IVIALITA TES	300 keys/screen				
	No. of touch keys	(30 lines × 40 columns)		(15 lines × 20 columns)			
	Key size	Min. 16 × 16 [dots] (per key)						
*9	No. of simultaneous touch points		Max. 2 points					
	Life	1.000	,000 times or more (or	perating force 0.98N o	less)			
	Detection distance	,		-	,			
	Detection range			-				
	Detection delay time		-	_				
sensor	Detection temperature		-	_				
Memory	C drive			flash memory ect data and OS)				
*6	Life (No. of writings)			0 times				
	2.0 (. to: 51 Whangs)			um battery (optional)				
Battery	Backed up data	Cir	ock data and maintena		ata			
Suttery	Life		ox. 5 years (operating					
			ansmission speed: 11	5200/57600/38400/192	-			
	RS-232 ^{*8}		Connector shape: nication with connecte ata read/write, OS inst					
Built-in interface	USB		speed 12Mbps), device Application: Connectio ata read/write, OS inst	n to personal compute	r			
	CF card	Cor	mpact flash slot, 1ch	Connector shape: TY	PEI			
	Optional function board	Application. Data transier,	data storage, GOT startup	FAT16 format: max. 2Gi tion board installation	5, FAT32 101116			
	Extension unit*8	1ct	for communication ur		tion			
Buzzer c				length adjustable)				
	e construction			In panel: IP2X				
External	dimensions			H) × 60(D) [mm]				
	USB port cover) It dimensions		153(W) × 1					
Weight				[kg]				
	ounting brackets) e software package			sion1.54G or later				
, ipplicable	sonnare package	I						



GT14

General specifications

Iter				Specif	 Water bulb temperature for STN display type must be 39°C or lower Do not operate or store the GOT unit in pressurized environment 				
Operating ambient	Display			0°C to	50°C			*2: Do not operate or store the GOT unit in pressurized environments where the pressure exceeds 0m elevation atmospheric pressure,	
temperature	Other than display		0°C to 55°C (hori	zontal installation	as this could result in abnormal operation.				
Storage ambient	e ambient temperature -20°C to 60°C						Do not pressurize inside the control panel for air purge cleaning.		
Operating ambie	nt humidity*1			10 to 90%RH, r	no condensation			The pressure could raise the surface sheet, making the touch	
Storage ambient	humidity*1		10 to 90%RH, no condensation					panel difficult to operate or causing the sheet to come off.	
		Conforming		Frequency	Acceleration	Half amplitude	Sweep count	*3 : Assuming that the device is connected at some point between a	
		to JIS B 3502	Under intermittent	5 to 8.4Hz	-	3.5mm	10 times each in X,	public power distribution network and local system equipment. Category II applies to devices that are supplied with power from	
Vibration resistar	nce		vibration	8.4 to 150Hz	9.8m/s ²	-	Y and Z directions	fixed equipment. The surge withstand voltage is 2500V for devices	
		and IEC 61131-2	Under continuous	5 to 8.4Hz	-	1.75mm		with ratings up to 300V.	
		IEC 01131-2	vibration	8.4 to 150Hz	4.9m/s ²	-	-	*4 : Index that indicates the level of foreign conductive matter in the	
Impact resistance	е	Conform	ning to JIS B 3502 an	d IEC 61131-2 (1	operating environment of the device. Contamination level 2				
Operating atmos	phere	Free from oil mist, c	Free from oil mist, corrosive gases, flammable gases and excessive conductive dusts or direct sun beams (The same applies to unit storage.)					denotes contamination by non-conductive matter only, though momentary conductivity may occur due to occasional	
Operating altitud	e <mark>*2</mark>		2000m or less						
Installation locati	stallation location			In contro	ol panel			condensation.	
Overvoltage cate	egory *3			∏ or l	ower			Do not use or store the GOT under direct sun light or in an environment	
Contamination le	evel ^{*4}			2 or	less			with excessively high temperature, dust, humidity or vibration.	
Cooling method				Self-co	ooling			For inquiries relating to products which conform to UL, cUL, and CE	
Grounding			Type D grounding	(100Ω or less). C	onnect to panel i	f unable to ground	ł.	For inquiries relating to products which conform to UL, cUL, and CE directives and shipping directives, please contact your local sales office.	

Performance specifications

	ltem	Specifi	
		GT1455-QTBDE	GT1450-QLBDE
	Туре	TFT color LCD	STN monochrome (black/white) LCD
	Screen size	5.	
Display *1	Resolution	QVGA: 320	
	Display size	115(W) × 86(H) [mm] (in	
	No. of displayed	16-dot standard font: 20 chars. × 15 lin	
	characters	12-dot standard font: 26 chars. × 20 lin	
Display	Display colors	65536 colors	Monochrome (black/white) 16 gray scale
		Right/left: 80°,	Right/left: 45°,
	View angle *2	Up: 80°, Down: 60°	Up: 20°, Down: 40°
	view angle	(in horizontal display mode)	(in horizontal display mode)
	Contrast adjustment	-	32-step adjustment
	Intensity	400 [cd/m ²]	300 [cd/m ²]
	Intensity adjustment	8-step ac	
	Life	Approx. 50	,000 hours
	Lite	(Time for display contrast reaches 20% a	operating ambient temperature of 25°C
		LED (not replaceable) with bac	
Pooklight		Backlight off time and scre	een save time can be set.
Dackiight	Life *3	Approx. 75,000	
		(Time for display intensity reaches 50% a	
	Туре	Analog res	
Touch	Key size	Min. 2 × 2 [de	
	Lite		
	C drive *5		
Momony	Life (No. of writings) 100,000 times D drive 612/KB built-in SRAM (for battery backup)		
wemory	X		
	D drive		
		GT11-50BAT typ	
		Clock data, alarm history, recipe dat	
Battery	Backed up data	alarm, advanced recipe, loggir	
	Life	Approx. 5 years (operating a	ambient temperature: 25°C)
		RS-422/485, 1ch Transmission speed: 1	5200/57600/38400/19200/9600/4800bp
	RS-422/485	Connector shape: D-sub 9-pin (female) Applic	
	no=422/400	Terminal resistance *	⁶ : OPEN/110Ω /330Ω
		(switching by terminal re	,
		RS-232, 1ch Transmission speed: 115	
	RS-232	Connector shape:	
		Application: Communication with connected	
		connection to personal computer (project data re	
		Data transfer system: 100	
Touch panel Memory Battery Built-in	Ethernet	Connector shape: R Application: Communication with connected devices	
		(project data read/write, OS insta	
		USB (full-speed 12Mbps), host 1	
Battery		Application: USB mouse/keyboard connecti	
		FAT16 format: max. 2GB,	
	USB	USB (full-speed 12Mbps), device	
		Application: Connection	
		(project data read/write, OS insta	
		Complied with SD standard, 1ch, Supported me	
	SD card	Application: project data read/write,	
		FAT16 format: max. 2GB,	
Buzzer o	output	Single tone (tone	ength adjustable)
	e construction	Front: I	
	dimensions	164(W) × 135(F	
	t dimensions	153(W) × 1	
	aval mounting brookate)	0.7	ka
	excl. mounting brackets) ble software packages	GT Works3 Version1.54G or later (not s	

- Applicable solitware packages [In Works version] set of hater (hot supported by Ch Works/Ch Designer2).
 I on LCD panels, bright dots (permanently lift) and black dots (never lift) generally appear. Because the number of display elements that exist on an LCD panel is large, 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 panels, 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.
 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.
 SU using the GOT screen save/backlight OFF functions prevents screen burn-in and extends the backlight life.
 An analog resistive touch display is used. When 2 points on the screen are touched simultaneously.
 The memory is ROM that permits overwriting of new data without having to delete the existing data.
 Sing the 2 points thate existence changes revisiting data.
 Sing the connection, set the terminal resistance transfer switch on the GOT main unit according to the connection configuration.
 Tim the eave of GT main in all users' environments. The specification is not applied when the

56

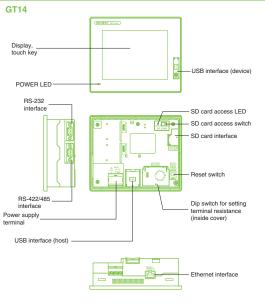
unit according to the connection configuration. #7: This does not guarantee protection in all users' environments. The specification is not applied when the interface protective cover and rear face protective cover are removed. The unit may not be used in an environment where it is exposed to splashing oil or chemicals for a long time or soaked with oil mist.

Power supply specifications

	Item	GT1455-QTBDE	GT1450-QLBDE			
Input po	wer supply voltage	24VDC (+10%, -15%), ripple voltage of 200mV or less				
Input fre	quency	-				
Input maximum apparent power		-	-			
Fuse (built-in, not replaceable)		1.0	6A			
Power consumption		8.40W	or less			
Fowerc	onsumption	(350mA	/24VDC)			
	With backlight off	7.44W or less (310mA/24VDC)				
Inrush c	urrent	30A or less (2ms, at max. load)				
Permissible	instantaneous failure time	Within 5ms				
Noise re	cictanoo	Noise voltage 1000V	/p-p, noise width 1µs			
NUISETE	SISIAIICE	by noise simulator with no	ise frequency 30 to 100Hz			
Withstar	nd voltage	500VAC for 1 minute between pe	ower supply terminal and ground			
Inculatio	n resistance	10MΩ or higher with an ir	sulation resistance tester			
Insulatio	in resistance	(500VDC between power s	supply terminal and ground)			
Applicat	ole wire size	0.75 to	2 [mm ²]			
Clamp te	erminal	Clamp terminals for M3 screw	RAV1.25-3, V2-N3A, FV2-N3A			
Tightening torqu	ue (terminal block's terminal screws)	0.5 to 0	.8 [N·m]			

 Water bulb temperature for STN display type must be 39°C or lower.
 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 pressure exceeds the control panel for air purge cleaning. The pressure could raise the surface sheet, making the touch





GT12

General specifications

Iten		Specification						
Operating ambient	Display			0°C to	50°C			
emperature Other than display 0°C to 55°C Storage ambient temperature -20°C to 60°C								
Storage ambient temperature -20°C to 60°C								
Operating ambie	ent humidity			10 to 90%RH, n	o condensation			
Storage ambien	t humidity			10 to 90%RH, n	o condensation			
Vibration resistance				Frequency	Acceleration	Half amplitude	Sweep count	
		Conforming to JIS B 3502 and IEC 61131-2	Under intermittent	5 to 8.4Hz	-	3.5mm	10 times each in X,	
			vibration	8.4 to 150Hz	9.8m/s ²	-	Y and Z directions	
			Under continuous	5 to 8.4Hz	-	1.75mm		
		120 01131-2	vibration	8.4 to 150Hz	4.9m/s ²	-	-	
Impact resistance	e	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	tible gas, less cond	luctive dust, away fr	om direct sunlight (tl	he same in storage)	
Operating altitud	le*1			2,000m	or lower			
Installation locat	tion			In contro	ol panel			
Overvoltage cate	egory ^{*2}			II or I	ower			
Contamination le	evel ^{*3}			2 or	less			
Cooling method				Self-c	ooling			
Grounding		Ту	/pe D grounding (1	00Ω or less). C	Connect to pane	if unable to gro	und.	

Performance specifications

		Specifi	cation		
	Item	GT1275-VNBA GT1275-VNBD	GT1265-VNBA GT1265-VNBD		
	Туре	TFT col	or LCD		
Display #1 Display #1 Display #1 Display Display Touch Panel Human Human Battery Battery Battery Battery C C C C C C C C C C	Screen size	10.4"	8.4"		
	Resolution	VGA: 640 ×	: 480 [dots]		
	Display size	211.2(W) × 158.4(H) [mm]	170.9(W) × 128.2(H) [mm]		
	No. of displayed characters				
	Display colors	256 c	olors		
	View angle*2	Right/left: 45°,	Up/down: 20°		
	Intensity	200 [c	d/m²]		
	Intensity adjustment	4-step ad	justment		
	Life	Approx. 52,000 hours (operatin	ig ambient temperature: 25°C)		
Backligh	t	Cold-cathode fluorescent tub	e (replaceable), 1CCFL light		
Ŭ					
	Life*3				
	Туре				
		· · · ·			
Touch					
	touch points	simultaneously, the switch may function	near the center of the pressed points.)		
	Life ^{*8}	1,000,000 times or more (op	Image: space		
	Detection distance				
Human	Detection range	-	-		
sensor	View angle*2 Intensity Intensity adjustmen Life cklight Life*3 Type Key size No. of simultaneous touch points Life*6 Detection distance Detection dalay time Detection delay time Detection delay time Detection delay time Detection delay time Detection delay time Detection temperature Tife (No. of writings) Life RS-232*6 RS-422/485	-			
	Detection temperature	-			
Memory	C drive	- 6MB built-in flash memory (for saving project data and OS)			
	Life (No. of writings)	100,000 times) times		
		GT11-50BAT type lithi	ium battery (optional)		
Battery	Backed up data	Clock data, alarm his	tory, and recipe data		
-	Life	Approx. 5 years (operating a	ambient temperature: 25°C)		
	RS-232*6	Connector shape: I	D-sub 9-pin (male)		
	RS-422/485	Connector shape: D	-sub 9-pin (female)		
	Ethernet				
	USB	USB (Full Speed 12 Mbps), device Application: Connection to personal computer (project d			
	CF card	Compact flash slot, 1ch Connector shape: TYPE I Application: Data transfer,	data storage, GOT startup FAT16 format: max. 2GB, FAT32 format: not usabl		
	Optional function board	-	-		
	Extension unit*6	-			
Buzzer c		Single tone (tone l	enath adjustable)		
	e construction				
	dimensions	303(W) × 214(H) × 53(D)			
	It dimensions	289(W) × 200(H) [mm]			
	cl. mounting brackets)	2.3 [kg]	1.7 [kg]		
	e software package	GT Works3 Version1.54G or later (not s			
*1 : On LC displa	D panels, bright dots y elements that exist o	(permanently lit) and black dots (never lit) ge n an LCD panel is large, it is not possible to ences in LCD panels may cause differences	enerally appear. Because the number of reduce appearance of the bright and black		

oots to zero. Individual dimerences in LCD panels may cause dimerences in color, uneven ongrinness and nickering Note that this is a characteristic of LCD panels and it does not mean the products are defective or damaged. *2 : LCD panels have characteristics of tone reversal. Note that even within the indicated view angles, the

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

- *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.
- *3 : Index that indicates the level of foreign conductive matter in the operating environment of the device. Contamination level 2 denotes an environment contaminated only by non-conductive matter which may, under certain conditions, become temporarily conductive due to condensation

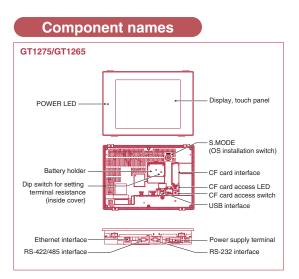
Do not use or store the GOT under direct sun light or in an environment with excessively high temperature, dust, humidity or vibration.

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

Power supply specifications

	ltem	Specif	ication			
	nem	GT1265/75-VNBA	GT1265/75-VNBD			
Inp	put power supply voltage	100 to 240VAC (+10%, -15%)	24VDC (+25%, -20%)			
In	put frequency	50/60Hz ±5%	-			
Inp	out maximum apparent power	44VA (at max. load)	-			
P	ower consumption	18W or less	11W or less			
	With backlight off	15W or less	6W or less			
Inrush current		40A or less	29A or less			
III	irusri current	(4ms, at max. load)	(2ms, at max. load)			
	ermissible instantaneous ilure time	Within 20ms (100VAC or more)	Within 10ms			
N	oise resistance	Noise voltage 1500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz	Noise voltage 500Vp-p, noise width 1 µs by noise simulator with noise frequency 25 to 60Hz			
W	/ithstand voltage*1	1500VAC for 1 minute between power supply terminal and ground	500VDC for 1 minute between power supply terminal and ground			
In	sulation resistance*1	10MΩ or higher with an insulation resistance tester (500VDC between power supply terminal and ground)				
A	pplicable wire size	0.75 to	2 [mm ²]			
С	lamp terminal	Clamp terminals for M3 screw RAV	1.25-3, V2-S3.3, V2-N3A, FV2-N3A			
	ghtening torque (terminal ock's terminal screws)	0.5 to 0	.8 [N·m]			

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



5

r Initial Startup & Operations

For Maintenan Personnel

GT10

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t of Con Models , etc.

GT11 GT10

General specifications

General	specific	ations										
lter		Specification					*1 : Water bulb temperature for STN display type must be 39°C or lower.					
Operating ambient Display		0°C to 50°C*5						*2 : Do not operate or store the GOT unit in pressurized environments where the pressure exceeds 0m elevation atmospheric pressure,				
temperature	Other than display	v 0°C to 55°C (horizontal installation), 0°C to 50°C (vertical installation)*6						as this could result in abnormal operation.				
Storage ambient	temperature			-20°C t	to 60°C			*3 : Assuming that the device is connected at some point between a				
Operating ambier	nt humidity ^{*1}		10 to 90%RH, no condensation					public power distribution network and local system equipment. Category II applies to devices that are supplied with power from				
Storage ambient	humidity*1	10 to 90%RH, no condensation						fixed equipment. The surge withstand voltage is 2500V for devices				
				Frequency	Acceleration	Half amplitude	Sweep count	with ratings up to 300V.				
		to JIS B 3502 vibr	o JIS B 3502 vibration	5 to 8.4Hz	-	3.5mm	10 times each in X,	*4 : Index that indicates the level of foreign conductive matter in the operating environment of the device. Contamination level 2				
Vibration resistan	nce			8.4 to 150Hz	9.8m/s ²	-	Y and Z directions	denotes contamination by non-conductive matter only, though				
								Under continuous	5 to 8.4Hz	-	1.75mm	
		vibration		8.4 to 150Hz	4.9m/s ²	-	-	condensation. *5: 0 to 40°C for GT115 HS				
Impact resistance	е	Conform	ning to JIS B 3502 ar	d IEC 61131-2 (1	47m/s², 3 times e	each in X, Y and Z	directions)	*6 : Excluding GT115_HS				
Operating atmosp	phere	Free from oil mist, c	orrosive gases, flammable ç	ases and excessive co	nductive dusts or direc	t sun beams (The same	applies to unit storage.)	*7 : The 5VDC type requires no grounding.				
Operating altitude	erating altitude ^{#2} 2000m or less						Do not use or store the GOT under direct sun light or in an environment					
Installation location	on			In contro	l panel <mark>*</mark> 6			with excessively high temperature, dust, humidity or vibration.				
Overvoltage cate	egory *3			I or l	ower			For inquiries relating to products which conform to UL, cUL, and CE				
Contamination lev	vel ^{*4}			2 or	less			directives and shipping directives, please contact your local sales office.				
Cooling method				Self-co	ooling							
Grounding			Type D grounding (100Ω or less). Co	onnect to panel if	unable to ground.	*7					

Type D grounding (100 Ω or less). Connect to panel if unable to ground.*

Performance specifications

					Specif	ication						
	ltem	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 of	display mode)	115(W) × 86(I	H) [mm] (in horizontal	display mode)	115(W) × 8	36(H) [mm]			
	No. of displayed characters		16-dot standard font:	20 chars. × 15 lines (2	2-byte) 12-dot stand	ard font: 26 chars. × 2	0 lines (2-byte) (in hor	izontal display mode)				
	Display colors	256	colors	Monochrome (black/white) 16 gray scale	256 0	colors	Monochrome (black/white) 16 gray scale	256 colors	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° (in horizontal display mode)	Right/left: 70°, Up: 70°, Down: 50° (in horizontal display mode)	Right/left: 55°, Up: 65°, Down: 70° (in horizontal display mode)	Right/left: 45°, Up: 20°, Down: 40° (in horizontal display mode)	 Right/left: 50°, Up: 50°, Down: 60° (Hardware versions A and B) Right/left: 55°, Up: 65°, Down: 70° (Hardware version C or later) 	Right/left: 45°, Up: 20°, Down: 40°			
	Contrast adjustment	-	16-step a	djustment	-	- 16-step a						
	Intensity	400 [cd/m ²]	350 [cd/m ²] (Hardware versions A and B) 380 [cd/m ²] (Hardware version C or later)	220 [cd/m ²]	400 [cd/m ²]	380 [cd/m ²]	220 [cd/m ²]	350 [cd/m ²] (Hardware versions A and B) 380 [cd/m ²] (Hardware version C or later)	220 [cd/m ²]			
	Intensity adjustment	8-step adjustment										
Backligh Touch panel Memory	Life			Approx.	50,000 hours (operati	ng ambient temperatu	re: 25°C)					
Backlight		Col	d-cathode fluorescent					een save time can be	set.			
ļ	Life ^{*2}		0 hours or more	Approx. 54,000 hours or more	-) hours or more	Approx. 54,000 hours or more	Approx. 75,000 hours or more				
	Туре			(Matrix res							
	No. of touch keys			300 keys	s/screen (matrix consi		olumne)					
Touch	Key size			500 Keya		-	01011113)					
panel		Min. 16 x 16 (dots) (dots) (dots) (
	No. of simultaneous touch points	Max. 2 points 1.000.000 times mans (appendiant form 0.000 or loss)										
	Life	1,000,000 times or more (operating force 0.98N or less) 3MB built-in flash memory (for saving project data and OS)										
	C drive*3			3MB bu			ind OS)					
Memory	Life (No. of writings)	100,000 times										
	D drive				512KB built-in SRA	M (battery backup)						
					GT11-50BAT typ	e lithium battery						
Battery	Backed up data			Clock da	ata, alarm history, reci	pe data, time action se	et values					
	Life			Replacement guid	deline approx. 5 years	(operating ambient te	mperature: 25°C)					
	Bus		-		1ch for QnA/A	node)/motion controller CPU/motion controller ion: For bus connection	CPU (A series)	-	-			
		Transmission apod	RS-422/485, 1ch	19200/9600/4800bps								
	RS-422/485	Connec Applica Terminal	tor shape: D-sub 9-pin tion: Communication wi resistance*5: OPEN/11 y terminal resistance tra	(female) th PLCs 0Ω/330Ω		-		-	-			
Built-in interface	RS-422/485 RS-422/232	Connec Applica Terminal	tor shape: D-sub 9-pin tion: Communication wi resistance*5: OPEN/11	(female) th PLCs 0Ω/330Ω		-		Transmission s 57600/38400/192 Connector shape: Rou	00/9600/4800bps Ind type, 32-pin (male)			
		Connec Applica Terminal (switching by Transmission speed Conne Application: Ca conr	tor shape: D-sub 9-pin tion: Communication wi resistance*5: OPEN/11	(female) th PLCs 00//330Ω insfer switch) 19200/9600/4800bps (male) nected devices, puter	Conne Application: Conne (project	RS-232, 1ch 115200/57600/38400/ Stor shape: D-sub 9-pin ction to barcode reader data read/write, OS ins transparent function, e	i (male) /personal computer tallation,	Transmission s 57600/38400/192 Connector shape: Rot Application: Communicati RS-232, 1ch, Transm 57600/38400/192 Connector shape: Mi Application: Connectio (project data read/w	speed: 115200/ 00/9600/4800bps ind type, 32-pin (male) on with connected devices ission speed: 115200/ 00/9600/4800bps ni-DIN 6-pin (female) n to personal computer			
	RS-422/232	Connec Applica Terminal (switching by Transmission speed Conne Application: Ca conr	tor shape: D-sub 9-pin tion: Communication wi resistance ⁴⁵ : OPEN/11 y terminal resistance tra - RS-232, 1ch : 115200/57600/38400/ ctor shape: D-sub 9-pir ommunication with corn tection to personal com e, OS installation, FA trai	(female) th PLCs 00//330Ω insfer switch) 19200/9600/4800bps (male) incted devices, puter isparent function, etc.)	Conner Application: Conner (project FA speed 12Mbps), device	115200/57600/38400/ ctor shape: D-sub 9-pir ction to barcode readed data read/write, OS ins transparent function, e e 1ch Connector sha	i (male) /personal computer tallation, tc.) pe: Mini-B	Transmission s 57600/38400/192 Connector shape: Rou Application: Communicatii RS-232, 1ch, Transm 57600/38400/192 Connector shape: Mi Application: Connectio (project data read/w FA transparen	speed: 115200/ 00/9600/4800bps ind type, 32-pin (male) on with connected devices ission speed: 115200/ 00/9600/4800bps ni-DIN 6-pin (female) n to personal computer rite, OS installation,			
	RS-422/232 RS-232	Connec Applica Terminal (switching by Transmission speed Conne Application: Cr conr (project data read/writ	tor shape: D-sub 9-pin tion: Communication wi resistance ⁴⁵ : OPEN/11 y terminal resistance tra - RS-232, 1ch : 115200/57600/38400/ ctor shape: D-sub 9-pir ommunication with corn tection to personal com e, OS installation, FA trai	(female) th PLCs 00//330Ω insfer switch) 19200/9600/4800bps (male) tected devices, puter isparent function, etc.) USB (full- n: Connection to perso	Conner Application: Conner (project FA speed 12Mbps), device nal computer (project of	115200/57600/38400/ ctor shape: D-sub 9-pir ction to barcode reade data read/write, OS inst transparent function, e e 1ch Connector sha lata read/write, OS inst	i (male) /personal computer tallation, tc.) pe: Mini-B allation, FA transparen	Transmission s 57600/38400/192 Connector shape: Roi Application: Communicatii RS-232, 1ch, Transm 57600/38400/192 Connector shape: Mi Application: Connectio (project data read/w FA transparen t function)	speed: 115200/ 00/9600/4800bps ind type, 32-pin (male) on with connected devices ission speed: 115200/ 00/9600/4800bps ni-DIN 6-pin (female) n to personal computer rite, OS installation, function, etc.)			
	RS-422/232 RS-232 USB	Connec Applica Terminal (switching by Transmission speed Conne Application: Cr conr (project data read/writ	tor shape: D-sub 9-pin tion: Communication wi resistance ⁴⁵ : OPEN/11 y terminal resistance tra - RS-232, 1ch : 115200/57600/38400/ ctor shape: D-sub 9-pir ommunication with com tection to personal com e, OS installation, FA trai	(female) th PLCs 00//330Ω insfer switch) 19200/9600/4800bps (male) tected devices, puter isparent function, etc.) USB (full- n: Connection to perso	Conner Application: Conner (project FA speed 12Mbps), device nal computer (project of plication: Data transfer,	115200/57600/38400/ ctor shape: D-sub 9-pir ction to barcode reade data read/write, OS inst transparent function, e e 1ch Connector sha lata read/write, OS inst data storage, GOT sta	i (male) /personal computer tallation, tc.) pe: Mini-B allation, FA transparen	Transmission s 57600/38400/192 Connector shape: Roi Application: Communicatii RS-232, 1ch, Transm 57600/38400/192 Connector shape: Mi Application: Connectio (project data read/w FA transparen t function)	speed: 115200/ 00/9600/4800bps ind type, 32-pin (male) on with connected devices ission speed: 115200/ 00/9600/4800bps ni-DIN 6-pin (female) n to personal computer rite, OS installation, function, etc.)			
interface	RS-422/232 RS-232 USB CF card Optional function board	Connec Applica Terminal (switching by Transmission speed Conne Application: Cr conr (project data read/writ	tor shape: D-sub 9-pin tion: Communication wi resistance ⁴⁵ : OPEN/11 y terminal resistance tra - RS-232, 1ch : 115200/57600/38400/ ctor shape: D-sub 9-pir ommunication with com tection to personal com e, OS installation, FA trai	(female) th PLCs 00//330Ω insfer switch) 19200/9600/4800bps (male) tected devices, puter isparent function, etc.) USB (full- n: Connection to perso	Conner Application: Conne (project FA speed 12Mbps), device nal computer (project o plication: Data transfer, Embedded	115200/57600/38400/ tor shape: D-sub 9-pir tion to barcode readed data read/write, OS ins transparent function, e a tch Connector sha lata read/write, OS insi data storage, GOT sta in main unit	i (male) /personal computer tallation, tc.) pe: Mini-B allation, FA transparen	Transmission s 57600/38400/192 Connector shape: Roi Application: Communicatii RS-232, 1ch, Transm 57600/38400/192 Connector shape: Mi Application: Connectio (project data read/w FA transparen t function)	speed: 115200/ 00/9600/4800bps ind type, 32-pin (male) on with connected devices ission speed: 115200/ 00/9600/4800bps ni-DIN 6-pin (female) n to personal computer rite, OS installation, function, etc.)			
Interface Buzzer o	RS-422/232 RS-232 USB CF card Optional function board	Connec Applica Terminal (switching by Transmission speed Conne Application: CC conr (project data read/writ Compact flas	tor shape: D-sub 9-pin tion: Communication wi resistance ⁴⁵ : OPEN/11 y terminal resistance tra - RS-232, 1ch : 115200/57600/38400/ ctor shape: D-sub 9-pir ommunication with com tection to personal com e, OS installation, FA trai	(female) th PLCs oo//330Ω insfer switch) 19200/9600/4800bps (male) insparent function, etc.) USB (full- it: Connection to perso r shape: TYPE Ι App	Conne Application: Conne (project FA speed 12Mbps), device nal computer (project plication: Data transfer, Embedded Single tone (tone	115200/57600/38400/ tor shape: D-sub 9-pir tion to barcode readed data read/write, OS ins transparent function, e a tch Connector sha lata read/write, OS insi data storage, GOT sta in main unit	i (male) /personal computer tallation, tc.) pe: Mini-B allation, FA transparen rtup FAT16 format: i	Transmission s 57600/38400/192 Connector shape: Roi Application: Communicatii RS-232, 1 ch, Transm 57600/38400/192 Connector shape: Mi Application: Connectio (project data read/w FA transparen t function) max. 2GB, FAT32 form	speed: 115200/ 00/9600/4800bps innof type, 32-pin (male) on with connected devices ission speed: 115200/ 00/9600/4800bps ni-DIN 6-pin (female) n to personal computer rite, OS installation, t function, etc.) at: not usable			
Buzzer o Protectiv External	RS-422/232 RS-232 USB CF card Optional function board utput	Connec Applica Terminal (switching by Transmission speed Conne Application: Co conn (project data read/writ Compact flas	tor shape: D-sub 9-pin tion: Communication wi resistance ⁸⁵ : OPEN/11 y terminal resistance tra – RS-232, 1ch : 115200/57600/38400/ ctor shape: D-sub 9-pir ommunication with connection of the connection e, OS installation, FA trai Applicatio sh slot, 1ch Connector	(female) th PLCs 00//3300 insfer switch) 19200/9600/4800bps (male) nected devices, puter usparent function, etc.) USB (full- n: Connection to perso ir shape: TYPE I App 2X	Conner Application: Conne (project FA speed 12Mbps), device nal computer (project oplication: Data transfer, Embedded Single tone (tone Fr	115200/57600/38400/ tor shape: D-sub 9-pir tion to barcode readed data read/write, OS inst transparent function, e transparent function, e t	i (male) //personal computer tallation, tc.) pe: Mini-B allation, FA transparen irtup FAT16 format: i 2X	Transmission s 57600/38400/192 Connector shape: Roi Application: Communicatii RS-232, 1 ch, Transm 57600/38400/192 Connector shape: Mi Application: Connectio (project data read/w FA transparen t function) max. 2GB, FAT32 form	speed: 115200/ 00/9600/4800bps nn with connected devices ission speed: 115200/ 00/9600/4800bps ni-DIN 6-pin (female) n to personal computer rite, OS installation, t function, etc.) at: not usable			
Buzzer o Protectiv External (without	RS-422/232 RS-232 USB CF card Optional function board putput re construction ^{\$4} dimensions	Connec Applica Terminal (switching by Transmission speed Conne Application: Co conn (project data read/writ Compact flas	tor shape: D-sub 9-pin tion: Communication wi resistance ⁶⁵ : OPEN/11 y terminal resistance tra - RS-232, 1ch : 115200/57600/38400/ ctor shape: D-sub 9-pin pommunication with conr tection to personal com e, OS installation, FA trai Applicatio sh slot, 1ch Connector	(female) th PLCs 00//3300 (nosfer switch) 19200/9600/4800bps (male) nected devices, puter (male) nected devices, puter USB (full- n: Connection to perso r shape: TYPE I App 22X nm]	Conner Application: Conne (project FA speed 12Mbps), device nal computer (project oplication: Data transfer, Embedded Single tone (tone Fr	115200/57600/38400/ ctor shape: D-sub 9-pir ction to barcode readed data read/write, OS ins transparent function, e 1 cth Connector sha lata read/write, OS insi data storage, GOT sta in main unit length adjustable) pont: IP67f In panel: IP	i (male) //personal computer tallation, tc.) pe: Mini-B allation, FA transparen irtup FAT16 format: i 2X mm]	Transmission s 57600/38400/192 Connector shape: Roi Application: Communicatii RS-232, 1ch, Transm 57600/38400/192 Connector shape: Mi Application: Connectio (project data read/w FA transparen t function) max. 2GB, FAT32 form	speed: 115200/ 00/9600/4800bps on with connected devices ission speed: 115200/ 00/9600/4800bps ni-DIN 6-pin (female) n to personal computer rite, OS installation, t function, etc.) at: not usable			
Buzzer o Protectiv External (without	RS-422/232 RS-232 USB CF card Optional function board putput re construction*4 dimensions USB port cover)	Connec Applica Terminal (switching by Transmission speed Conne Application: Co conr (project data read/writ Compact flas Fr 164	tor shape: D-sub 9-pin tion: Communication wi resistance ⁶⁵ : OPEN/11 y terminal resistance tra - RS-232, 1ch : 115200/57600/38400/ ctor shape: D-sub 9-pin pommunication with conrection shape: D-sub 9-pin pommunication with conrection e, OS installation, FA trai Applicatio sh slot, 1ch Connector cont: IP67f In panel: IP t(W) × 135(H) × 56(D) [I	(female) th PLCs 00//330Ω (nofer switch) 19200/9600/4800bps (male) tected devices, puter usparent function, etc.) USB (full- n: Connection to perso r shape: TYPE I App 22X nm]	Conne Application: Conne (project FA speed 12Mbps), device nal computer (project (olication: Data transfer, Embedded Single tone (tone Fr 167	115200/57600/38400/ ctor shape: D-sub 9-pir ction to barcode readed data read/write, OS ins transparent function, e 1 ch Connector sha data storage, GOT ste in main unit length adjustable) pont: IP67f In panel: IP (W) × 135(H) × 65(D) [i (male) //personal computer tallation, tc.) pe: Mini-B allation, FA transparen irtup FAT16 format: i 2X mm]	Transmission s 57600/38400/192 Connector shape: Roi Application: Communicatii RS-232, 1ch, Transm 57600/38400/192 Connector shape: Mi Application: Connectio (project data read/w FA transparen t function) max. 2GB, FAT32 form	speed: 115200/ 00/9600/4800bps on with connected devices ission speed: 115200/ 00/9600/4800bps ni-DIN 6-pin (female) n to personal computer rite, OS installation, t function, etc.) at: not usable 35f tion cable is connected) t) × 93(D) [mm]			

Power supply specifications

	Item	GT1155-QTBD GT1155-QSBD GT1155HS-QSBD	GT1150-QLBD GT1150HS-QLBD	GT1155-QTBDQ GT1155-QTBDA	GT1155-QSBDQ GT1155-QSBDA	GT1150-QLBDQ GT1150-QLBDA
Inp	ut power supply voltage				24VDC (+10%, -15%), ri
Inp	out frequency					
Inpu	t maximum apparent power					
De	wer consumption	9.84W or less	9.36W or less	11.16W or less	9.72W or less	7.92W or less
PC	wer consumption	(410mA/24VDC)	(390mA/24VDC)	(465mA/24VDC)	(405mA/24VDC)	(330mA/24VD0
	With backlight off	4.32W or less (1	180mA/24VDC)	5.04W	or less (210mA/2	4VDC)
Inr	ush current	15A or less (2m	s, at max. load)	26A or	less (4ms, at max	k. load)
Perr	issible instantaneous failure time	Withir	n 5ms		Within 10ms	
NIc	ise resistance	Noise voltage 1000V	p-p, noise width 1µs	Noise volta	ge 500Vp-p, nois	e width 1μs
INC	ise resistance	by noise simulator with noi	se frequency 30 to 100Hz	by noise simulate	or with noise frequ	ency 25 to 60H
Wi	thstand voltage				500VAC for 1	minute betweer
Ins	ulation resistance			$10 M\Omega$ or higher v	vith an insulation i	resistance teste
Ap	plicable wire size				0.75 to 2 [mm ²]*1	
Cl	amp terminal		Clam	p terminals for M3	screw RAV1.25-	3, V2-N3A, FV2
	ntening torque (terminal				0.5 to 0.8 [N·m]*1	
	ck's terminal screws)					
k1 :	Excluding GT115	HS				

Performance specifications

			Specif	ication			
	Item	GT1055-QSBD	GT1050-QBBD	GT1045-QSBD	GT104		
	Туре	STN color LCD	STN monochrome (blue/white) LCD	STN color LCD	STN mo (blue/wl		
	Screen size	5.	.7"	4	.7"		
	Resolution		QVGA: 320	× 240 [dots]			
Gri Type STr Screen size FResolution Display size 115(W) No. of displayed characters 115(W) Display* Display colors 2 View angle Up; E View angle Up; E Contrast adjustment 1116(W) Intensity 3 Life (Ti Backlight Coldcome Touch panel Type No. of touch keys Memory Life Uife Memory User memory*3 Life Ife Battery Backed up data Life RS-422/485	Display size	115(W) × 86(H) [mm] (in	horizontal display mode)	96(W) × 72(H) [mm] (in	horizontal di		
		16 12-dot standard	6-dot standard font: 20 (I font: 26 chars. × 20 lin	chars. × 15 lines (2-byte es (2-byte) (in horizonta	e), al display m		
	256 colors	Monochrome (blue/white) 16 gray scale	256 colors	Monochrom 16 gra			
	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/le Up: 20°, [(in hor display		
	Contrast adjustment		16-step a	djustment			
		380 [cd/m ²]	260 [cd/m ²]	150 [cd/m ²]	300 [
		(Time for display o	Approx. 50 contrast reaches 20% at	,000 hours t operating ambient ten			
Backlight	:	with backlight OFF	nt tube (not replaceable) detection function. reen save time can be set.	LED (no nee Backlight off time time cal			
		Approx. 75,000 hours or more	Approx. 54,000 hours or more		-		
	Life ^{*2}		nsity reaches 50% at		_		
	Туре		Matrix res	istive type			
			Max. 50 ke	eys/screen			
	Key size		Min. 16 × 16 [dots] (per key)			
panei	No. of simultaneous touch points			points			
			0,000 times or more (or		less)		
			sh memory for saving p				
Memory		Duite in the		0 times	55) 4114 00		
				e lithium battery			
Battery	Backed up data	Clock d	ata, alarm history, reci		t values		
Duttory			ideline approx. 5 years				
	RS-422/485	RS-422/485, 1ch	Transmission speed: 1 Connector shape: E	15200/57600/38400/19 D-sub 9-pin (female) unication with PLCs	200/9600/4		
	RS-232	Application: C	RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/ Connector shape: D-sub 9-pin (male) Application: Communication with PLCs, connection with barcode rea communication with personal computers (project data read/write, OS installation, transparent function)				
	USB						
	Memory board		or installing memory be				
Buzzer o			Single tone (tone len	gth adjustable/none)			
Protectiv	e construction*4			P67f (front panel)			
External	dimensions	164(W) × 135(H) × 56(D)[mm]	139(W) × 112(H) × 41(D)[
			121(H)[mm]	130(+1 -0)(W) × 1			
Weight (e	cl. mounting brackets)	0.7	[kg]	0.45	5[kg]		
				ion1.54G or later			
I: On LC Becaus bright a Flicker Note th produc Display	D panels, bright dots se the number of disp and black dots to zero ing may occur depend at the existence of br ts are defective or da ing one single screer ear. Use the screen s	(permanently lit) and black lay elements that exist or ding on the display colors ight and black dots is a s maged. I for a long time can lead saver that is effective to p backlight OFF functions	ck dots (never lit) genera n an LCD panel is large, s. standard characteristic of I to burn-in, causing after prevent burn-in. prevents screen burn-in	ly appear, it is not possible to redu LCD panels, and it does images or image irregula and extends the backligi	s not mean t arities that c		

Specification			
Specification Q GT1055-QSBD GT1050-QBBD	GT1045-QSBD	GT1040-QBBD	
ripple voltage of 200mV or less			
- 9.84W or less 9.36W or less C) (410mA/24VDC) (390mA/24VDC) 4.32W or less (180mA/24VDC)	3.6W c (150mA/ 2.9W or less (1 15A or less (26.4V) 2ms Within 5ms	24VDC)	INDEX
Hz by noise sin n power supply terminal and ground	voltage 1000Vp-p, noise width nulator with noise frequency 30		For I
er (500VDC between power supply te	Single-wire 0.14 to 1.5 [mm ²], AWG26 to A	WG16 (stranded wire) WG20 (bar terminal with insulation sleeve) WG20 (single wire) WG24 (stranded wire)	For Designers
	0.22 to 0.		5
40-QBBD GT11	oonent names	- CF card access switch	For Initial Startup & Operations
CF card acc	ess LED		
htte) LCD Power supply lisplay mode) CF card interface		Reset switch C	For Maintenance Personnel
ne (blue/white) POWER LED		и) 📓 — В	
Ieft: 45°, Down: 40° USB interface prizontal	GT115Q_BD RS-232 interface RS-422 interface nal resistance transfer switch (inside cover)	Display, touch key GT115 - O BDA Bus interface RS-232 interface -	GT10
*: GT115-4	QBDQ and GT115-QBDA do not	have a reset switch.	
GT115 HS (H Interface protectin cover USB interface _	Ve CF cal RS-23	rd interface 2 interface mergency stop switch Hock for wall mounting Neck strap hook	iQ Platform
Key type selector switch Display, touch ke POWER LED Goration switch (6 switches) RS-422/232		Rear face protective cover Battery Hand strap	MELSEC Process Control
25°C) interface	Grip sw	itch	Ш×
4800bps GT105 Battery ers, Power supply terr	ninal	Memory board interface USB interface Terminal resistance transfer switch (inside cover) RS-232 interface	Specifications, List of ternal Dimensions
POWER LED		RS-422 interface Display, touch key	st of Connectable Models, etc.
(H)[mm] GT104			
nce of the Memory board - interface USB that the interface		Battery Terminal resistance transfer switch (inside cover) Power supply terminal	
Display, touch ke	ey	RS-422 interface	
e protective		Z	

GT10

Power supply specifications Component names GT1030/GT1020 nterface for con with personal compute (RS-232) 5VDC (±5%), supplied from Input power supply voltage 24VDC (+10%, -15%), ripple voltage of 200mV or less PLC communication cable Input frequency Input maximum apparent pow Power consumption With backlight off 2.2W or less (90mA/24VDC) 1.9W or less (80mA/24VDC) 1.1W or less (220mA/5VDC) 1.7W or less (70mA/24VDC) 1.2W or less (50mA/24VDC) 0.6W or less (120mA/5VDC) Display, touch ke 18A or less (26.4DCV) 1ms 13A or less (26.4DCV) 1ms Inrush current Within 5ms Permissible instantaneous failun Noise voltage 1000Vp-p. noise width 1us Noise resistance by noise simulator with noise frequency 30 to 100Hz Withstand voltage 500VAC for 1 minute between power supply terminal and ground $10M\Omega$ or higher with an insulation resistance tester Insulation resistance (500VDC between power supply terminal and ground) 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) Applicable wire size Single-wire installation Two-wire installation 0.14 to 0.5mm², AWG26 to AWG20 (single wire), 0.14 to 0.2mm², AWG26 to AWG24 (stranded wire) C Power supply terminal Power supply terminal Clamp terminal AI2.5-6BU, AI0.34-6TQ, AI0.5-6WH (made by Phoenix Contact) RS-422 interface, RS-232 interface D RS-422 interface Tightening torque (terr 0.22 to 0.25 [N·m] wer supply block's terminal screws) E transfer switch _ 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

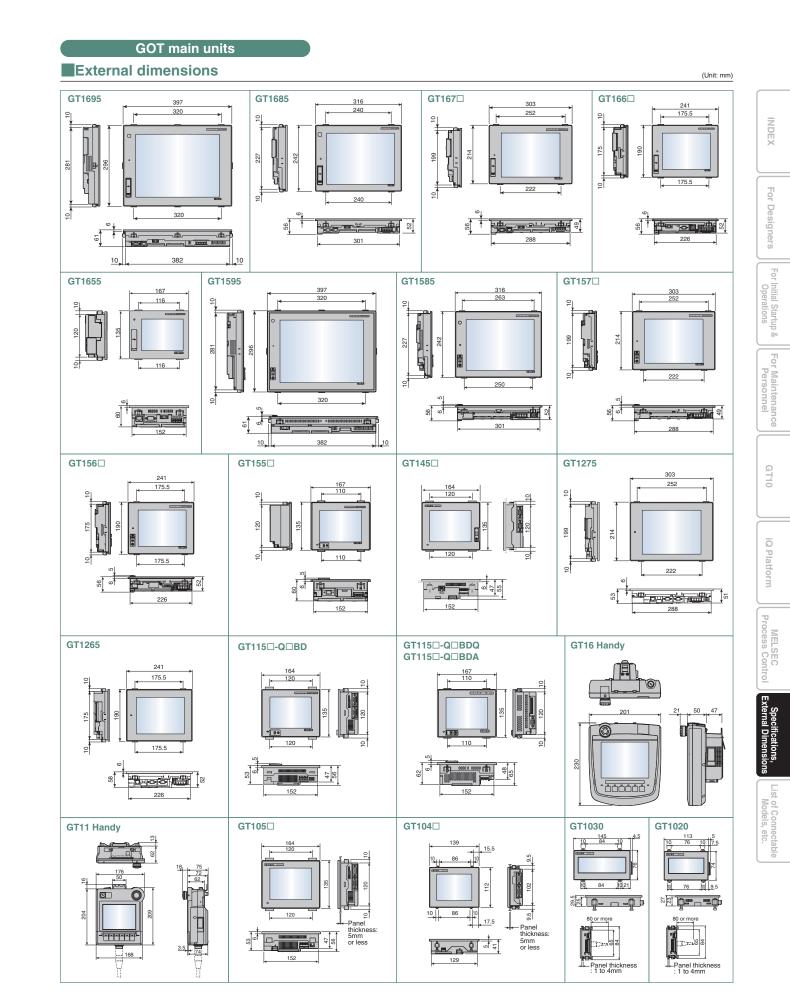
Performance specifications

					Specif	fication					
	Item	GT1030-HBD GT1030-HWD GT1030-HBL GT1030-HWL	GT1030-HBDW GT1030-HWDW GT1030-HBLW GT1030-HBLW	GT1030-HBD2 GT1030-HWD2	GT1030-HBDW2 GT1030-HWDW2	GT1020-LBD GT1020-LWD GT1020-LBL GT1020-LBL GT1020-LWL	GT1020-LBDW GT1020-LWDW GT1020-LBLW GT1020-LBLW	GT1020-LBD2 GT1020-LWD2	GT1020-LBDW2 GT1020-LWDW2		
	Туре				STN monochrome	e (black/white) LCD					
	Screen size		4.	5"			3	7"			
	Resolution		288 × 96 [dots] (ir	n horizontal mode)			160 × 64 [dots] (ir	n horizontal mode)			
	Display size		109.42(W) × 35.98(H)[r	nm](in horizontal mode)		86.4(W) × 34.5(H)[mr	n](in horizontal mode)			
	No. of displayed characters	16-dot standard font: 36 12-dot standard font: 48			oyte) (in horizontal mode) oyte) (in horizontal mode)			s (1-byte) or 10 chars. × ntal mode)	4 lines (2-byte)		
Display*1	Display colors				Monochrome	(black/white)					
	View angle			Right/le		30°(in horizontal display mode)					
	Contrast adjustment				16-step a	adjustment					
	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			ljustment				-			
	Life				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 screer	n save time setting can	be set. PLC can contro	l color and status of ba	cklight based on system	information.		
	Туре		Matrix res		sistive type						
	No. of touch keys				Max. 50 k	eys/screen					
Touch	Key size		Min. 16 × 16 [dots] (per key)		Í	Min. 2 × 2 [d	ots] (per key)			
panel	No. of simultaneous touch points		Max. 2			(If there is a swite	Impo	ssible pressed keys, the swit	ch may function.)		
	Life			1,00	0,000 times or more (o	perating force 0.98N or	less)				
	User memory*2	Built-in flas	h memory for saving pr	oject data (1.5MB or le	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		
Memory	Life (No. of writings)				100,00	00 times					
			GT11-50BAT typ	e lithium battery				-			
Battery	Backed up data	Clock c	data, alarm history, reci	pe data, time action set	values			-			
	Life	Replacement gu	ideline approx. 5 years	(operating ambient ten	nperature: 25°C)			-			
For communication with PLC interface		GT1030-HBD/HWD, G RS-422/485, 1ch 1 115200/5760/38400/ Connector shape: Conne Application: Comm Terminal resistance* (switched by terminal res GT1030-HBL/HWL, G RS-422, 1ch Tr 115200/57600/38400/	Transmission speed: 19200/9600/4800bps ccter terminal block, 9-pin unication with PLC ³ : OPEN/110Ω/330Ω sistance transfer switch) iT1030-HBLW/HWLW ansmission speed: 19200/9600/4800bps	57600/38400/192 Connector shape: Conne	mission speed: 115200/ 200/9600/4800bps seter terminal block, 9-pin unication with PLC	GT1020-LBD/LWD, G RS-422/485 1ch 115200/57600/38400. Connector shape: Conne Application: Comm Terminal resistance* (switched by terminal re GT1020-LBL/LWL, G RS-422 1ch Tr 115200/57600/38400.	Transmission speed: 19200/9600/4800bps ctor terminal block, 9-pin unication with PLC ³ : OPEN/110Ω/330Ω sistance transfer switch) iT1020-LBLW/LWLW ansmission speed: 19200/9600/4800bps	RS-232, 1ch Transr 57600/38400/192 Connector shape: Conne Application: Comm	00/9600/4800bps cter terminal block, 9-pi		
	For communication with personal computer	Connector shape: Conne Application: Comm	unication with PLC		Connector shape: M	Connector shape: Conne Application: Comm 5200/57600/38400/1920 (ini DIN 6-pin (female) oject data read/write, OS	unication with PLC	nt function)			
Buzzer ou	utput				Single tone (tone ler	ngth adjustable/none)					
	e construction*4				Conforming to II	P67f (front panel)					
Protective			145(M) × 76(H)	× 29.5(D)[mm]			113(W) × 74(H	ł) × 27(D)[mm]			
	dimensions		143(11) × 70(11)								
External	dimensions dimensions		137(W) × 1	66(H)[mm]			105(W) × 66(H)[mm] GT1020-L_D(W): 0.2kg (excl. mounting brackets) CT1000 L_U(M): 0.19kg (excl. mounting brackets) 0.2kg (excl. mounting brackets)				
External		GT1030-H_D(W): 0.3kg GT1030-H_L(W): 0.28kg	137(W) × (excl. mounting brackets)		unting brackets)	GT1020-L_D(W): 0.2kg GT1020-L_L(W): 0.18kg	(excl. mounting brackets)		ing brackets)		

Because the number of display elements that exist on a LCD panel is large, 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 panels, and it does not mean that the products are defective or damaged. Note that the existence of oright and black dots is a standard characteristic of LCU planels, and it does not mean that the products are detective 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



External dimensions

Panel cut dimensions

Vhen the GOT is ir	nstalled		(Unit: mm) - +2 *4
Screen size	Type of GOT main unit	Α	В	A ⁺² 0
15"	GT1695 GT1595	383.5	282.5	
12.1"	GT1685 ^{*1} GT1585 ^{*1}	302	228	
10.4"	GT167_*2 GT157_*2 GT1275	289	200	Panel opening
8.4"	GT166 GT156 GT1265	227	176	
5.7"	GT1655*3 GT155_*3 GT145_*3 GT145_*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	
Vhen the CF card	extension unit (moun	ting unit on control p	anel) is installed	
Туре	A		ns when installing and ι	
GT15-CFEX-C08SET	94.0	cable or	the CF card interface of the G	unit on the control panel, make sure that the extension unit does not interfere with the extension un DT. Place the CF card extension unit at a distance of 25mm or more from the GOT. User's Manual (Hardware) or the GT15 User's Manual.
		For compatibility with	GOT900 series, see "Bac	kward compatibility" (page 81).

Product installation spacing

The GOT must have the clearances from other devices as shown in [Fig. A]. The GOT may require more distance than the dimensions shown in the table depending on the types of connection cables. Consider the connector dimensions and cable bending radius when designing the installation. •GT16/GT15

●G	T16/GT15										(Unit: mm)
	Item	GT1695	GT1685	GT167	GT166	GT1655	GT1595	GT1585	GT157	GT156	GT155
	GOT only	50 or more	(20 or more)	50 or more (26 or more)	50 or more (36 or more)	61 or more	50 c	r more (20 or n	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 (26 or more)	50 or more (36 or more)	50 or more	50 or more	(20 or more)	50 or more (35 or more)	50 or more (40 or more)	50 or more
	When a serial communication unit is installed	50 or more	(20 or more)	50 or more (26 or more)	50 or more (36 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	51 or more	63 or more	73 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		
	When the CC-Link communication unit (GT15-J61BT13) is installed			(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 (24 or more)	50 or more (33 or more)	50 or more	64 or more		(20 or more)	50 or more (30 or more)		64 or more
	When a MELSECNET/H communication unit (optical) is installed		50 or more (20 or more)*1		79 or more*1	50 or more (20 or more)*	¹ 50 or more (23 or more)*1	50 or more (37 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)		57 or more
А	When a CC-Link IE Field Network communication unit is installed			(20 or more)		57 or more	50 or more	(20 or more)			57 or more
~	When a printer unit is installed	50 or more	(20 or more)	50 or more (26 or more)	50 or more (36 or more)	50 or more (29 or more)		50 or more	(20 or more)		50 or more (29 or more)
	When a multimedia unit is installed		50 or more (20 or more)*2					_		
	When a video input unit is installed			20 or more)*2			-	61 or more*2		-	
	When a RGB input unit is installed		50 or more (20 or more)*3			-		20 or more) ^{*3}	-	
	When a video/RGB input unit is installed		50 or more (2	0 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 more)*3			-	50 or more (20 or more) ^{*3}	-	
	When a CF card unit is installed	50 or more	(20 or more)	50 or more (26 or more)					(20 or more)		
	When a CF card extension unit is installed	50 or more	(20 or more)	50 or more (26 or more)		50 or more	50 or more (20 or more)	50 or more (49 or more)	63 or more	68 or more	97 or more
	When an audio output unit is installed	50 or more	(20 or more)		50 or more (36 or more)	50 or more			r more (20 or n		
	When an external input/output unit is installed	50 or more	(20 or more)	50 or more (26 or more)	50 or more (36 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						80 or more	(20 or more)				
С	(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						50 or more	(20 or more)				

E

*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 used. When the bending radius of the cable is larger than the indicated value, leave enough space appropriate for the bending radius.
 *4 : When using a battery, the required dimension is greater than when using a CF card.

•GT14				(Unit: mm)
GOT main unit	A, D	В	С	E
GT1455	50 or more ^{*3}	80 or more*1	50 or more ^{*2}	100 or more*4
GT1450	(20 or more)	(20 or more)	(20 or more)	(20 or more)
1 . 50 or more (20 o	r more) in the seco	- 4		

*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
*3: The distance varies depending on the Ethernet cable used. When the bending radius of the Ethernet cable is larger than the indicated value, leave enough space appropriate for the bending radius.
*4: When using a USB memory or SD card, allow space for removal and mounting when installing.

•GT12					(Unit: mm)
				0	
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 more	ou or more	50 of more	100 or more	TOD OF INDIE

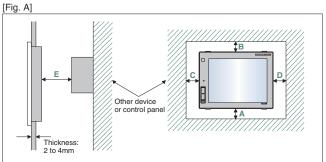
GT11				(Unit: mm)
GOT main unit	A, D	(When CF card is not used	C When CF card is used	
GT1155 GT1150	50 or more (20 or more)	50 or more ^{*2} (20 or more)	100 or more	100 or more (20 or more)

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

•GT10 (Unit: mm) GT105 GT104 50 or more 80 or more 50 or more 50 or more 100 or more (20 or more) (20 or more) (20 or more) (20 or more) (20 or more*3) GT1030 50 or more 50 or more 50 or more 50 or more 80 or more*2) 80 or more GT1020 (20 or more*1) (20 or more) (20 or more)

\$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.
 \$43:80 or more when a RS-232 interface is used for using an RS-232/USB conversion adapter.

100 or more (20 or more)



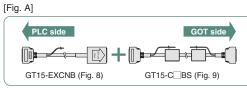
Bus connection cables GT15-QCB 0.6, 1.2, 3, 5, 10m Fig. 1 GT15-QC BS 15, 20, 25, 30, 35m Fig. 1 GT15-C NB Fig. 2 1.2, 3, 5m Fig. 3 Fig. 4 GT15-AC 0.6, 1.2, 3, 5m GT15-A370C B-S1 1.2, 2.5m GT15-A370C B 1.2, 2.5m Fig. 5 GT15-A1SC B 0.7, 1.2, 3, 5m Fig. 6 GT15-A1SC NB 0.45. 0.7. 3. 5m Fig. 7 GT15-C EXSS-1* 10.6. 20.6. 30.6m Figs. 8 & 9 GT15-EXCNB 0.5m Fig. 8 GT15-CBS 0.7. 1.2. 3. 5. 10. 20. 30m Fig. 9 Fig. 10 GT15-J2C10B 1m *1 : GT15-C_EXSS-1 is a set consisting of GT15-EXCNB and GT15-C_BS. (See Fig. A.)

Fig.1

Fig.3

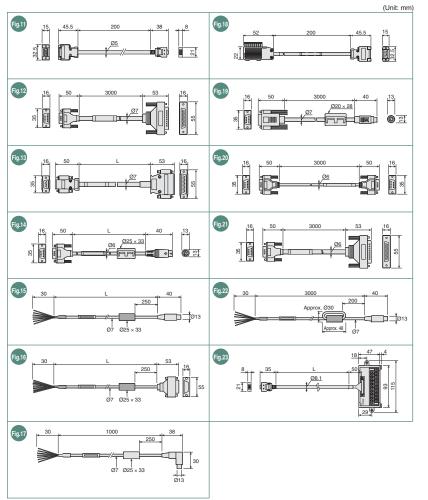
Fig.4

Fig.5



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
F Cable model name	S-232 cables Cable length (L)	External dimensions
GT01-C30R2-6P	3m	Fig. 19
GT01-C30R2-9S	3m	Fig. 20
GT01-C30R2-25P	3m	Fig. 21
0101-000112-201		

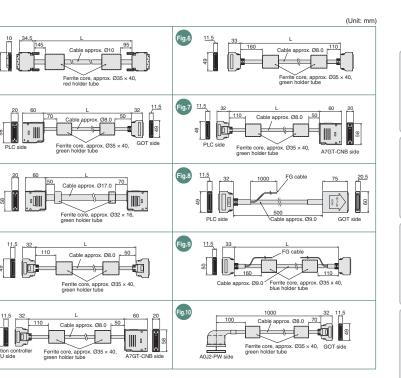
Model name	Cable length (L)	External dimensions
FA-LTBGTR4CBL	0.5, 1, 2m	Fig. 23



Dimensions shown in parentheses apply when there are no devices nearby (contactor, etc.) which produce radiated noise or heat. Even with these dimensions, however, the ambient temperature must never exceed 55°C.

Depending on the unit and cable being used, a cable length longer than dimension A (or dimension D for the GT10) in above [Fig. A] may be required

62



Ъ

GT10

õ

MELSEC

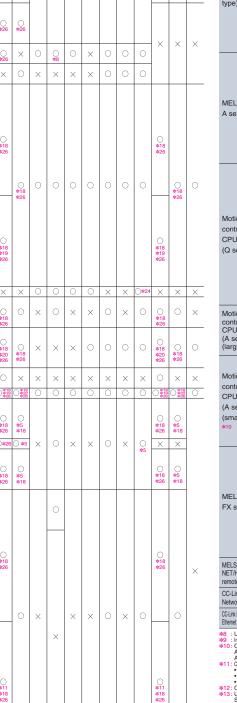
Specifications, xternal Dimensions

of Co

etc

External dimensions

EXt	ernal dimensior	IS				11.1.5
	Communication units/o	ntional units		63 3 GOT main unit	GOT main unit	(Unit:
				Fig.1	Fig.2 133 GOT main unit	Fig.3 137 GOT main unit
Comm	nunication units/bus extension co		External			
	Product name	Model name	dimensions		Ť® PO, P	
	Standard model of bus connection unit for 1 ct QCPU (Q mode)/motion controller CPU (Q Series) 2 ct	GT15-QBUS GT15-QBUS2	Fig. 1 Fig. 2			
	Standard model of bus connection unit for 1ch	GT15-ABUS	Fig. 2 Fig. 1			
Bus connection	QnA/ACPU/motion controller CPU (A Series) 2ct Thin model of bus connection unit for 1ct		Fig. 2	*2		
unit	Thin model of bus connection unit for 1ch QCPU (Q mode)/motion controller CPU (Q Series) 2ch		Fig. 3 Fig. 3	Fig.4 63 GOT main unit	Fig.5 63 3 GOT main unit	Fig.6
	Thin model of bus connection unit for 1ct		Fig. 3			
	QnA/ACPU/motion controller CPU (A Series) 2ct RS-232 serial communication unit		Fig. 3	<u>-</u>	∺	
Serial	(D-sub 9-pin (male))	GT15-RS2-9P	Fig. 4			
communication	RS-422/485 serial communication unit (D-sub 9-pin (female))	GT15-RS4-9S	Fig. 4			
unit ,	RS-422/485 serial communication unit	GT15-RS4-TE	Fig. 5			
RS-422	(terminal block) RS-232→RS-422 conversion unit (9-pin)	GT15-RS2T4-9P	Fig. 6	*3	*3	GOT main u
onversion unit	RS-232→RS-422 conversion unit (25-pin)	GT15-RS2T4-25P	Fig. 6		Fig.8 Mounting hole	
	sion connector box ector conversion box	A9GT-QCNB A7GT-CNB	Fig. 7 Fig. 8	₿ ₿ ₿		
MELSECN	NET/H Optical loop unit	GT15-J71LP23-25	Fig. 9		8	
	oodalal bao alin	GT15-J71BR13	Fig. 10		From base	25 / / X
	E Controller Network communication unit E Field Network communication unit	GT15-J71GP23-SX GT15-J71GF13-T2	Fig. 11 Fig. 12			
CC-Link co	mmunication unit Intelligent device station unit	GT15-J61BT13	Fig. 13		39.5 4.25 To bus connection unit	When connector
	communication unit ti-drop connection unit	GT15-J71E71-100 GT01-RS4-M	Fig. 14 Fig. 15	Fig.10 NJ H 133 GOT main unit	Fig.11 133 GOT main unit	Fig.12 133 GOT ma
Connector	r conversion adapter	GT10-9PT5S	Fig. 16			
	85 signal conversion adapter	GT14-RS2T4-9P GT11H(S)-CCL	Fig. 17 Fig. 18			
	nal units					
option		Model news	External			
	Product name	Model name	dimensions			
Printer uni Multimedia		GT15-PRN GT16M-MMR	Fig. 19 Fig. 20	When F type connector is fitted *3	<u>15.5 111.5</u> *3	
Video inpu		GT16M-V4	Fig. 21	Fig.13 133 GOT main unit	Fig.14	Fig.15
· · ·		GT15V-75V4 GT16M-R2	Fig. 22 Fig. 21			400
RGB input	t unit	GT15V-75R1	Fig. 22		5 8 2 1 1	57
Video/RGE	B input unit	GT16M-V4R1 GT15V-75V4R1	Fig. 21 Fig. 22			65
RGB outpu	utupit	GT16M-ROUT	Fig. 23			
CF card ur		GT15V-75ROUT GT15-CFCD	Fig. 23 Fig. 24	31.5 ± *3	*1	
	xtension unit	GT15-CFEX-C08SET	Fig. 25			Fig.18 1 92
Audio outp	put unit	GT15-SOUT GT15-DIOR	Fig. 26 Fig. 27			(Mounting
External in	nput/output unit	GT15-DIO	Fig. 27		84 0 0	
Handy GO	OT connector conversion box	GT11H-CNB-37S GT16H-CNB-42S	Fig. 28 Fig. 29			
1 : The con	nnector shape varies depending on the model. sions A to D for each communication unit	GTION-CNB-423	Fig. 29	36 22	36 17	
					Linear Li	
Model n GT15-QBL				GOT main unit	133 GOT main unit	GOT main
GT15-QBL GT15-ABL					Fig.20	
GT15-ABL						
3 : Dimensi	sion X when GOT is installed					
100 or		DT Y (main	unit factor)	2.4		
	GT1695		-2			
	GT1595 GT1685, GT1585		-0.5 -3.5	135 *3	111 *3	GT16M-V4R1 shown.
	GT167, GT157 GT166, GT1655, GT15 GT166, GT1655, GT15	· · · · · · · · · · · · · · · · · · ·	-0.5 1.5	Fig.22 133 GOT main unit	Fig.23 133 GOT main unit	
		6, GI 155	(Unit: mm)			
ther device	GOT main unit					
o puon nu	Model name	Z (opti	on factor)			
	CD, GT15-CFEX-C08SET 4, GT16M-R2, GT16M-V4R1, GT16M-ROUT,	2	20.5			114.5
	5V4, GT15V-75R1, GT15V-75V4R1, GT15V-7	5ROUT,		GT15V-75V4R1 shown. *3	19 *3	
	US, GT15-QBUS2, GT15-ABUS, GT15-ABUS		21.5	GIT5V-/5V4HT shown. #3 GOT main unit Fig.241.330	Fig.25 63	
	2-9P, GT15-RS4-9S, GT15-RS4-TE, GT15-J7 E71-100, GT15-J71BR13, GT15-J61BT13, G					
), GT15-DIOR, GT15-SOUT		25.5			
	IMR, GT15-J71GP23-SX, GT15-J71GF13-T2 on of dimension X		35.5 (Unit: mm)		Ÿ	
One-layer	r configuration: Y (main unit factor) + Z (option					
	er configuration: Y (main unit factor) + Z (option er configuration: Y (main unit factor) + Z (option fa					
-	er configuration: Y (main unit factor) + Z (option fa		 (opnon ractor) 	<u>-8,1.</u> *3	GOT side	Control panel side
Mode	el name A Fig.26		3 3 3	Fig.28 4 drilled holes	Fig.29 4 drilled holes	
GT15-750 GT15-750				4 drilled holes Ø3.5 18 28 18/ 82 37.5	4 drilled holes Ø5±0.5	
GT15-750 GT15-75A			98			
GT15-75A					85±0.5	
5 : Dimensio For GT16	ion X when GOT is installed 018				4-R3 or less	
15" 6	6.5 15", 10.4" 8	응 <u>1 지] [</u> *3	29 0 *3	Panel cut 18 19.5 Unit: mm	(opening) 61+1.0 (opening) panel cut	
	5 12.1" 5 8 8.4", 5.7" 10	I			1	
	10					



List of connectable models

Mitsubishi PLCs/Motion controllers/Safety controllers

Mode

Q00JCPU Q00CPU Q01CPU Q02CPU Q02HCPU *

Q06HCPU

Q12HCPU

Q25HCPU Q02PHCPU

Q06PHCPU Q12PHCPU Q25PHCPU Redundant system Q12PRHCPU

Q00UJCPU

Q00UCPU Q01UCPU Q02UCPU Q03UDCPU Q04UDHCPU Q06UDHCPU

Q10UDHCPU Q13UDHCPU

Q20UDHCPU

Q26UDHCPU Q03UDECPU Q04UDEHCPI Q06UDEHCPU Q10UDEHCPU Q13UDEHCPL Q20UDEHCPL Q26UDEHCPU Q50UDEHCPL

Q100UDEHCPL

Q02CPU-A

Q02HCPU-A Q06HCPU-A 02CPU

L26CPU-BT

L02CPU-P L26CPU-PBT

WS0-CPU0

WS0-CPU1

Q12DCCPU-V * Q2ACPU

Q2ACPU-S1

Q3ACPU

Q4ARCPU

Q2ASCPU

A3UCPU A4UCPU A2ACPU A2ACPUP21 A2ACPUR21 A2ACPU-S1 A2ACPUP21-S1 A2ACPUR21-S1

A3ACPU

A3ACPUP21

A3ACPUR21

A1NCPUP21 A1NCPUR21 A2NCPU A2NCPUP21 A2NCPUR21 A2NCPU-S1 A2NCPUP21-S A2NCPUR21-S1 A3NCPU A3NCPUP21 A3NCPUR21

Q2ASCPU-S1

MELSEC-QS series QS001CPU

MELSEC-

Q series (A mode)

MELSEC-L series

MELSEC-WS series

C controller

MELSEC-

QnA series

MELSEC-

QnA series

MELSEC-

A series

(AnCPU type) A1NCPU

(QnACPU type) Q4ACPU

(QnASCPU type) Q2ASHCPU-S1 Q2ASHCPU A2UCPU A2UCPU-S1

(main base) Q25PRHCPU Redundant system (extension base) Q12PRHCPU

MELSEC-

(Q mode)

Q series

GT16/GT15/GT14/GT12/GT11

XC

GT10

A3NCPUR21
 A3NCPUR21
 Supported by the GT16 and GT15 only. (Excluding the GT16 Handy)
 Supported by the GT16, GT15, and GT11 only. When connecting multiple GOTs, note that the following GOT models cannot be used together: GOT1000 series and ArTCOT. If both the GOT1000 series and the GOT-A900 series are included in a system, please refer to the Technical Bulletin No. GOT-A-0009.
 COLInk (ID): Connected as CC-Link (Intelligent device station)
 CC-Link (ID): Connected as CC-Link system via AJ65BT-64-S3 or AJ65BT-R2N
 *5 When sing Aserie comparise that have been newly addeed to the CAACPU
 *Latch relays (L) and step relays (S)
 *Latch relays (L) and step relays (S)
 *ile register (R).
 *6 Use CPU function version B or later in a multi-CPU system.
 *7 When using a bus extension connector box, it must be installed on an extension base. (It cannot be installed on the main base.)

			GT1	16/G		nect GT14				ation	1		GT1	0	
Series	Model name	s connection	CPU direct connection	Computer link	IELSECNET/H	IELSECNET/10	CC-Link IE Controller Network *1	CC-Link IE Field Network *1	CC-Link (ID)	CC-Link (via G4)	Ethernet *25	CPU direct connection	Computer link	CC-Link (via G4) *4	ſ
	A2USCPU	8us *2	ទិទី	ပိ	₩¥	× N	ਤੁੰਤੂ	S E E C	82	83	ä≩	58	ပိ	8*	
MELSEC-	A2USCPU-S1 A2USHCPU-S1 A1SCPU A1SCPUC24-R2	0) *18 *26			0	-) *18 *26			
a series AnSCPU /pe) ^{*10}	A1SHCPU A2SCPU A2SCPU-S1) *11 *18 *26	0	×	×	×	×	0	×	0) *11 *18 *26	0		ſ
	A2SHCPU A2SHCPU-S1 A1SJCPU A1SJCPU-S3) *18 *26) *18 *26			
	A1SJHCPU A0J2HCPU	○ *12												×	
	A0J2HCPUP21 A0J2HCPUR21 A0J2HCPU-DC24	0) *11 *18 *26	0	-	×	-		0	×	0) *11 *18 *26	0		
MELSEC- A series ^{*10}	A2CCPU A2CCPUP21 A2CCPUR21	×		×	×	×	×	×	×	×	×		×		-
	A2CCPUC24 A2CCPUC24-PRF	Х) *18 *26	0		×			×	×	×	○ *18 *26	0		
	A2CJCPU-S3	X		X	1	×]		X	×	X	~~~	Х		ļ
	A1FXCPU Q172CPU *13 Q173CPU *13	× 0 *15) *15 *18 *26	× \$ 16 \$ 18 \$ 26	⊖ ≭16	× 0 *16			× 0 *16	× 0 *16	× •) *16 *18 *26	× 0.6886) *16	
lotion	Q172CPUN *13 Q173CPUN *13 Q172HCPU Q173HCPU	0	<pre> *18 *26 *14 *18 *26 </pre>) *18 *26	0	0	×	×	0	0	0	>18 *26 >14 *14 *18) *18 *26	0	
controller CPU Q series)	Q172DCPU Q173DCPU Q172DCPU-S1		*20	0				×				*20 () *14	0		
	Q173DCPU-S1 Q172DSCPU Q173DSCPU Q170MCPU	0	*18 *26) *18 *26	0	0	0	○*23	0	0	0	*18 *26	○ *18 *26	0	
	MR-MQ100	X	○*18 >*26 ○*18 >*26	×	×	×	×	X	×	×		O *18 ★26	×	×	
lotion ontroller PU A series) arge type)	A273UCPU A273UHCPU A273UHCPU-S3 A373UCPU	0	○ *26	0	×	0	×	×	0	×	0	×	×		
Aotion controller CPU A series)	A373UCPU-S3 A171SCPU A171SCPU-S3 A171SCPU-S3N A171SHCPU A171SHCPUN A172SHCPU) *17	 ≭26	0	×	×	×	×	0	×	0	×	×		
small type) 10	A172SHCPUN A173UHCPU A173UHCPU-S1					0	-							×	
IELSEC- X series	FX0S FX0N FX1S FX1N FX1NC FX2N FX2NC FX2NC FX20C FX20C	×) *18 *26	×	×	×	×	×	×	×	×) *18 *26	×		
MELSEC	FX3GC FX3U FX3UC QJ72LP25-25										0				
ET/H emote I/O station C-Link IE Field	QJ72LP25G QJ72BR15	×	⊖ ≭26	 ≭26	×	×	×	×	×	×	0	×	×	×	
etwork head unit ALink IE Field Network	LJ72GF15-T2 NZ2GF-ET8	×	×	0 ×	×	×	×	0	×	×	×	×	0 ×	×	
hemet adaptor unit	Version B or later fo				SECN		×		×	×		×	×	×	

 Internet adaptor unit
 Internet of the CPU and MELSECNET/H network unit.

 #8
 Is duARCPU redunder system. The COT must be connected to the list stages redunders system retension base ABRB version B or later.

 #10
 and AMRCPU redunder system. The COT must be connected to the list stages redunders system retension base ABRB version B or later.

 #11
 Cut ATT1SHCPU and ATT2SHCPU computer link connections.
 AQU2+CPU, ATT1SHCPU and ATT2SHCPU computer link connections.

 AQU2+CPUS1
 Version L or later or CPUs with link, and or version H or later for CPUs with link.
 Autor CPUs1

 * ANDE/CPUS1
 Version L or later or cPUs with link, and version H or later for CPUs with link.
 Autor CPUs1

 * AUZE/CPUS2
 Version L or later or cPUs with link.
 Autor CPUs1
 Version L or later

 * AUZE/CPUS2
 Version L or later or later or cPU with link.
 Version L or later
 AUZE/CPU

 * AUZE/CPUS2
 Version L or later or later or cPU with link.
 Version L or later
 AUZE/CPU

 * AUZE/CPUS2
 Version L or later (ODE or later in the case of bus connection or CPU direct connection with QTZCPU or QT3CPU)
 SWERN-SV22
 OH or later (ODE or later in the case of bus connection or CPU direct connection with QTZCPU or QT3CPU)

 SWERN-SV22
 OH or later (ODE or later in the case of bus connection or CPU direct connection with QTZCPU or QT3CPU)

 SWERN-SV22
 OH

List of connectable models

Modules usable when connected with Mitsubishi PLCs

For computer link connection

CPU series	Serial communication module/computer link module*1								
CPU series	Model nam	е	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					
	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-R	2 *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					
1: RS-485 communication is not pos A0J2-C214-S1 is unusable. When using A series computer lin only the device ranges within AnA are supported. The following devices cannot be r • Devices that have been newly ad • Latch relays (L) and step relays.	k with QnACPU, CPU specifications monitored: Ided to the QnACPU	conn CH1 *3 : Only *4 : Eithe *5 : When A2SH	function version A, eith ected. With function ve and CH2 can be conne CH2 can be connected or CH1 or CH2 can be con n connecting to A1SHCP ICPU(S1), A1SJHCPU, / SHCPU(N) or A172SHC	rsion B or later, both cted. onnected. U, A2SCPU(S1), A0J2HCPU,					

Latch relays (L) and step relays (S)
 (In the OnACPU, 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)

•For Ethernet connection

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sion II or late
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*6: Computer link module/serial communication module operate within the range of devices available on AnACPU. (R devices cannot be used.)

Ear MEL	SECNET/U	aannaati

●For MELSECNET/H connect	tion	
CPU series	MELSECNE	T/H module
CPU series	Optical loop	Coaxial bus
MELSEC-Q series (Q mode)*1	QJ71LP21 QJ71LP21	S-25 QJ71BR11
MELSEC-QS series C controller	QJ71LP21-25 QJ71LP21-25 QJ71LP215	2.05
*1 : Use CPU and MELSECNET/H network unit fun		5-23
•For MELSECNET/10 conne		
	MELSECNET/H (NET/10 mod	a) MELSECNET/10 modulo
CPU series	Optical loop	Coaxial bus
MELSEC-Q series (Q mode)*1 MELSEC-QS series	QJ71LP21 QJ71LP215 QJ71LP21-25	
C controller	QJ71LP21-25 QJ71LP218	
MELSEC-QnA series	AJ71QLP21 A1SJ71QLI AJ71QLP21S A1SJ71QLI	P21S 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 fur	iction version B or later.	
For CC-Link IE Controller		
CPU series	CC-Link IE Controller Net	work communication unit
MELSEC-Q series (Q mode) MELSEC-QS series C controller	QJ71GP21-SX*1 QJ71GP21S-SX*1	
*1 : In the extension mode, use a CPU with the first	t 5 digits of the serial No. are 12052	or higher.
For CC-Link IE Field Netwo	ork connection	
CPU series	CC-Link IE Field Netwo	rk communication unit
MELSEC-Q series (Q-mode) C controller	QJ71GF11-T2	
MELSEC-QS series MELSEC-L series	QS0J71GF11-T2	
MELSEC-L series	LJ71GF11-T2	
For CC-Link (ID) connection	n	
CPU series	CC-Lin	ık unit
MELSEC-Q series (Q mode)	QJ61BT11	
C controller MELSEC-L series	QJ61BT11N LJ61BT11	
MELSEC-QnA series	AJ61QBT11*1 A1SJ61Q	BT11*1
MELSEC-Q series (A mode)	AJ61BT11*1	
MELSEC-A series Motion controller CPU (A series)	A1SJ61BT11*1	
*1 : GOT can communicate only with CC-Link units	function version R or later and coff	wara varaion. Lar latar
For CC-Link (via G4) conne		wate version 5 of later.
CPU series	CC-Link unit	Peripheral device unit
MELSEC-Q series (Q mode)	QJ61BT11	AJ65BT-G4-S3
C controller MELSEC-L series	QJ61BT11N	AJ65BT-R2N
*1 : GT11 and GT10 can monitor only the master s	LJ61BT11	
*1: GTTT and GTTO can monitor only the master's	*1 : When using an A series Ether	net with OnACRU only the device
	ranges within AnACPU specifi	cations are supported except for
J71E71	the following devices. • Devices that have been newl	v added to the QnACPU
1SJ71QE71N-B2 A1SJ71QE71-B5	 Latch relays (L) and step rela 	ays (S)
1SJ71QE71N-T A1SJ71QE71-B2 1SJ71QE71N-B5T	separate devices from the in	elay (L) and step relay (S) are ternal relay (M), but the internal
1SJ71C271N-DS1 1SJ71E71N-T A1SJ71E71-B5-S3	relay is nonetheless accesse step relay is specified.)	ed when either a latch relay or
1SJ71E71N-B5T A1SJ71E71-B2-S3	• File register (R)	

 CPU series
 Ethernet module

 MELSEC-Q series (Q mode)/MELSEC-QS series
 QJ71E71-100
 QJ71E71-182
 QJ71E71-182

 MELSEC-Q series (Q mode)/MELSEC-QS series
 AJ71QE71N3-T
 AJ71QE71N-B5
 AJ71QE71N-B5
 AJ71QE71N-B5

 MELSEC-Q series (A mode)
 AJ71QE71N-B2
 AJ71QE71N-B2
 AJ71QE71N-B5
 AJ71QE71N-B5

 MELSEC-Q series (A mode)
 AJ71E71N-B2
 AJ71E71N-B5
 AJ71E71N-B5
 AJ71E71N-B5

 MELSEC-A series
 AJ71E71N-B5
 AJ71E71N-B5
 AJ71E71N-B7
 AJ5J71E71N-B5

 Motion controller CPU (A series)
 AJ71E71N-B2
 AJ71E71N-B3
 AJ5J71E71N-B2

 MELSEC-FX series
 FX3U-ENET (-L)
 FX3U-ENET (-L)
 FX3U-ENET (-L)
 Δ1 Α A1SJ71E71N-T A1SJ71E71-B5-S3 A1SJ71E71N-B5T A1SJ71E71-B2-S3

Inverters	be connected to Mitsubishi invert d display alarms.	ers to set their
Medalmana	GT16/GT15/GT1	4/GT12/GT11/GT10
Model name	RS-422	RS-232
FREQROL-S500/S500E	0	×
FREQROL-E500	0	×
FREQROL-F500/F500L	0	×
FREQROL-F500J	0	×
FREQROL-A500/A500L	0	×
FREQROL-V500/V500L	0	×
FREQROL-E700	0	×
FREQROL-F700	0	×
FREQROL-A700	0	×
FREQROL-D700	0	×
FREQROL-F700P/F700PJ	0	×

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

		OTICIOTICIOTIA	/GT12/GT11/GT10
Series	Model name		
Series	Woder name	RS-422	RS-232
MELSERVO-J4 series	MR-J4-A	0	0
MELSERVO-J3 series	MR-J3-	0	0
MELSERVO-55 selles	MR-J3-	0	0
MELSERVO-J2-Super	MR-J2S-	0	0
series	MR-J2S-CP	0	0
361163	MR-J2S-CL	0	0
MELSERVO-J2M series	MR-J2M-P8A	0	0
WELSERVO-J2W Series	MR-J2M DU	0	0

Robot con	troll	ers		iOT car ollers ar					shi robo	ot
			G	T16/G Conne		14/GT [.] confiau				
Controller name	Bus connection *6	CPU direct connection	Computer link	MELSEC NET/H *1	MELSEC NET/10 *1 *2	CC-Link IE Controller Network *1	CC-Link IE Field Network *1	CC-Link (ID) *1 *3	CC-Link (via G4)	Ethernet *7
CRnQ-700	0	⊖ ∗ 4	0	0	0	0	0	0	0	0 *5
CRnD-700	×	×	×	×	×	×	×	×	×	0

I: Supported by the GTI6 and GTI5 only. (Excluding the GTI6 Handy)
 Z: Supported by the GTI6 and GTI5 only. (Excluding the GTI6 Handy)
 Z: Supported only when MELSECNET/H is used in NET/10 mode. The GOT terminal cannot be connected to a remote I/O net.
 Co-Link (D); Connected as Co-Link (intelligent device station).
 The CRho7/00 B/S/IT can be accessed via R5-232 of the OCPU of a multi-CPU system.
 The CRho7/00 B/S/IT can be accessed to a the connected to the CRHO7 b/S/IT cannot be used for the CRHO7 b/S/IT cannot be used for the connected to the connected to the CRHO7 b/S/IT cannot be used for the connected to the con

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

				GT1	6/GT15	<u>/GT14/</u>	<u>GT12/0</u>	GT11			
	Model			Co	nnecti	on con					
Series	name	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	CC-Link (ID) *1 *3	CC-Link (via G4)	Ethernet *7
CNC C70	Q173NCCPU	0	⊖ * 5	0	0	0	0	0	0	0	0
MELDAS C6/C64	FCA C6 FCA C64	×	⊖ * 4	×	×	⊖ * 4	×	×	⊖ * 4	×	⊖ ≭ 4
#1 · Suppo	vited by the GT1	6 and GT1	5 only (E	veludina t	DA GT16 H	(uhnel-					

 *1 : Supported by the GT16 and GT15 only. (Excluding the GT16 Handy)

 *2 : When MELSECNET7H is used in NET7/0 mode, the GOT terminal cannot be connected directly to a remote I/O station.

 *3 : CC-Link (DID): Connected as CC-Link (ineligent device station).

 *4 : Use NC system software version D0 or later.

 *5 : COh ya US lineface is available on the Q173NCCPU.

 The Q173NCCPU can be accessed via RS-232 of the QCPU of a multi-CPU system.

 *6 : Supported by the GT16, GT15, and GT11 only.

 *7 : Supported by the GT16, GT15, GT14, and GT12 only.

Units usable when connected with MELDAS C6/C64 ●For MELSECNET/10 connection

	CHOIL	
Series	MELSECNET/H (NET/10 mod	de), MELSECNET/10 module
Series	Optical loop	Coaxial bus
MELDAS C6/C64	FCU6-EX879	FCU6-EX878
For CC-Link (ID) connection	n	
Series	CC-Lir	nk unit
MELDAS C6/C64	FCU6-HR865	
For Ethernet connection		
Series	Etherne	t module
MELDAS C6/C64	FCU6-EX875	
*: Applicable GOT varies depending on the conner GT16 ··· When connected via S22, R5-42486 or Ehem When connected via S22, R5-42486 or Ehem When connected via R5-232 When other than R5-232 GT14 ··· When connected via R5-232, R5-42486 or Ehem GT12 ··· When connected via R5-232, R5-42486 or Ehem GT11 ··· When connected via R5-232, R5-42486 or Ehem GT11 ··· When connected via R5-232, R5-42486 or Ehem When connected via R5-323	et: All models (Use the built-in inter All models (Bus connection and by mounting a communication un All models (Bus connection and the models (Bus connection and the models (Bus connection and the models (Bus the built-in inter the models (Use the built-in inter the models (Use the built-in inter the models (Use the built-in inter the GT115_0_0_BD, GT115_0 the GT115_1_0_0_BD, GT115_0 GT105_1_0_BD, GT104_0 GT105_1_0_BD, GT104_0 GT105_1_0_BD, GT104_0 GT105_1_0_BD, GT104_0 GT105_1_0_H MW, GT10204 GT105_1_0_H M	network connection are enabled it on the GOT main unit.) ace of the GOT main unit.) network connection are enabled it on the GOT main unit.) ace of the GOT main unit.) BDA BD, GT1030-H_D2/H_DW2, BD, GT1030-H_DVH_DW, DM_DW, GT1020-L_LL_LW

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.

				GT16/	'GT15/G	T14/GT	12/GT1	1/GT10				GT16/	GT15/G	T14/GT	12/GT1	1/GT10
Manı	ufacturer	Model	name		nk connection		t connection	Ethernet	м	anufacturer	Model name	<u> </u>	nk connection		t connection	Ethernet
				RS-422	RS-232	RS-422		connection *9				RS-422	RS-232	RS-422	-	connection *9
	SYSMAC CPM	CPM1 CPM2A	CPM1A		0			1			SLC500-20 SLC500-30					
	SYSMAC CQM1	CPM2C CQM1		×		-	X ()*2	×			SLC500-40 SLC5/01				O*1	
	SYSMAC CPQ1H	CQM1H CJ1H	CJ1M		×	-	Ŏ			SLC500 series	SLC5/02	×	×	×		×
	SYSMAC CJ1	CJ1G	CJTW		()*3		0	()≉12			SLC5/03 SLC5/04				0	
	SYSMAC CJ2	CJ2H CJ2M		-	0		0*14				SLC5/05 1761-L10BWA					<u> </u>
OMRON	SYSMAC CP1	CP1H	CP1L			1 ×	×				1761-L10BWB 1761-L16AWA					
JMHON	SYSMAC C200HS		*13				×13	×			1761-L16BWA					
	SYSMAC C200H	C200H C200HX	C200HE	0	0			- ^		MicroLogix 1000 series	1761-L16BWB 1761-L16BBB					
	SYSMAC α	C200HG		-			0			(digital CPU) *5*6*7	1761-L32AWA					
	SYSMAC CS1	CS1H CS1G	CS1D				0	⊜*12			1761-L32BWA 1761-L32BWB	×	×	×	0	×
	SYSYMAC C1000H SYSYMAC C2000H	C1000H C2000H		-	○* 3		×				1761-L32BBB 1761-L32AAA					
	SYSMAC CVM1/CV	CV500	CV2000	×	×)*3	×		MicroLogix 1000 series	1761-L20AWA-5A					
		CV1000 KV-700	CVM1 KV-3000		-		0	<u> </u>	Allen-Bradley (Rockwell	(analog CPU) *5	1761-L20BWA-5A 1761-L20BWB-5A					
EYENCE		KV-1000 KV-5000	KV-5500	0	0	×	×	×	Automation,	MicroLogix 1200 series *5 MicroLogix 1500 series *5	1762-L24BWA 1764-LSP					
	KOSTAC SU	SU-5E	SU-5M	0	0	0	Ô	×	Inc)	WilcroLogix 1000 series to	1756-L					
	PZ series	SU-6B PZ3	SU-6M	×	×	0	0	×			1756-L1M1 1756-L1M2					
	DirectLOGIC 205 series	PZ3 D2-240 D2-250-1	D2-260	0	0	X	0	×			1756-L1M3 1756-L61					
(OYO		D0-05AA	D0-05DD	1		\vdash		<u> </u>			1756-L62					
ELECTRONICS	DirectLOGIC 05 series	D0-05AD D0-05AR	D0-05DD-D D0-05DR	0	0	×	0	×		ControlLogix series	1756-L63 1756-L55M12	×	×	×	* 1	*8
NDUSTRIES		D0-05DA D0-06DD1	D0-05DR-D D0-06AA								1756-L55M13 1756-L55M14					
	DirectLOGIC	D0-06DD2	D0-06DD1-D	_							1756-L55M16					
	06 series	D0-06DR D0-06DA	D0-06DD2-D D0-06DR-D	0	0	0	0	×			1756-L55M22 1756-L55M23					
		D0-06AR						<u> </u>			1756-L55M24					
		JW-21CU JW-31CUH	JW-50CUH	0	×	×	×				1769-L31 1769-L32E	1			_	× •**
Sharp Manufa Systems	acturing	JW-22CU JW-32CUH	JW-70CUH JW-100CUH	0	×		⊖*3	×		CompactLogix series	1769-L32C 1769-L35E	×	×	×	O*1	× ()*8
* 1		JW-33CUH Z-512J	JW-100CU	×	×		→*3	-			1769-L35CR	1				×
		PC3JG-P-CPU	PC3JG-CPU	Ô	0*4	X	0*4			FlexLogix series	1794-L33 1794-L34	\times	\times	×	○*1	×
	TOYOPUC	PC3J-CPU PC2JC-CPU	PC3JL-CPU PC2J16PR-CPU	0	0*4	0	0*4				IC693CPU311 IC693CPU313			×	×	
ITEKT *1	series	PC2J16P-CPU		0	0*4	×	0*4	×			IC693CPU323				^	4
		PC2J-CPU PC2JS-CPU	PC2JR-CPU				×			Series 90-30	IC693CPU350 IC693CPU360	0	0			×
	PROSEC	T2 (PU224) T2E	T2N	×	×		×				IC693CPU363 IC693CPU366			0	×	
	T series	T3	ТЗН		~		Ĭ ×	-			IC693CPU367					
OSHIBA	PROSEC	model 3000 (S model 2000 (S		~			~	×			IC693CPU374 IC697CPU731					
	V series	model 2000 (Sa model 2000 (Sa	2T)	×	×	0	×				IC697CPX772					
	Unified controller nv series	PU811		×	×	×	×	0			IC697CPX782 IC697CPX928					
OSHIBA	TCmini series	TC3-01 TC3-02	TC6-00 TC8-00	×	×	×	0	×		Series 90-70	IC697CPX935 IC697CPU780	0	0	×	×	×
MACHINE	Robot controller	TS2000	TS2100	×	×	×	0	×			IC697CGR772	Ĭ				
	Large-sized H	H-302 H-702	H-4010 H-300)*3	×	0	×			IC697CGR935 IC697CPU788					
	series	H-1002 H-2002	H-700 H-2000						05.5		IC697CPU789 IC697CPM790					
litachi	H-200 to 252	H-200	H-252B H-252C	×	×	×	0	×	GE Fanuc Automation		IC200UAA003	0	0	0	_	
ndustrial	series	H-250 H-252		^					Corporation *1		IC200UAR014 IC200UDD104					
Equipment Systems	LL and L	H-20DR H-28DR	H-28DT H-40DT								IC200UDD112 IC200UDR001			×		
¥1	H series board type	H-40DR H-64DR	H-64DT	×	×	×	0	×			IC200UDR002					
		H-20DT	HL-40DR HL-64DR								IC200UDR003 IC200UAL004	1			1	
	EH-150 series	EH-CPU104 EH-CPU208	EH-CPU308 EH-CPU316	×	×	×	0	×			IC200UAL005 IC200UAL006	×	×			
	211 100 00100	EH-CPU516	EH-CPU548				Ľ			VersaMax Micro	IC200UAA007				0	×
	S10V	LQP510 LQP520		0	0		×	×			IC200UAR028 IC200UDD110				_	
litachi ≰1	S10mini	LQP800 LQP000	LQP011 LQP120	0	0	×	×	×			IC200UDD120 IC200UDD212			0		
		LQP010		Ľ	<u> </u>						IC200UDR005					
Fuji Electric FA Components	MICREX-F	F55 F70	F140S F15_S	0	0	×	×	×			IC200UDR006 IC200UDR010					
Systems *1		F120S FP0-C16CT	FP1-C24C	-	-						IC200UDD064 IC200UDD164]		
		FP0-C32CT	FP1-C24C	\times	×	×	0				IC200UDR164	0	0			
		FP0R FP2	FP5	-	-	-		-		K300S	IC200UDR064 K4P-15S					<u> </u>
Panasonic Co	orporation	FP2SH FP3	FP10 (S) FP10SH	\times	0	×	0	×	LS Industrial Systems	K200S K120S	K3P-07 S		0	×	×	×
		FP-M (C20TC)	FP-Σ	×	×		_	1	Systems	K1205 K80S	K7M-D U K7M-D S (/DC)	1			0	
		FP-M (C32TC) FP-X		0		+ ×	0				TSX P57 203M TSX P57 253M					
		GL120			×		0			Modicon Premium	TSX P57 303M					
		GL130 GL60S		0		+ ×		×			TSX P57 353M TSX P57 453M					
		GL60H GL70H			0		×				140 CPU 311 10 140 CPU 434 12U					
		CP-9200SH		×	<u> </u>	-	×	<u> </u>	Schneider Electric SA		140 CPU 534 14U	×	×	×	×	 ≭1 1
		CP-9300MS MP920		0	× O	- ×				Modicon	140 CPU 651 50 140 CPU 651 60					
ASKAMA F	lectric					-	0			Quantum	140 CPU 671 60 140 CPU 113 02					
/ASKAWA Ele ≰10	lectric	MP930 MP940		-	×	\vdash	1	×			140 CPU 113 03					
(ASKAWA Ele \$10	lectric	MP940 PROGIC-8		- ×	1	1	<u> </u>	+			140 CPU 434 12A 140 CPU 534 14A					
∕ASKAWA Ele ≰10	lectric	MP940 PROGIC-8 CP-9200 (H)		×							Flexi Soft series	1 14		-	0	
(ASKAWA Ele ≰10	lectric	MP940 PROGIC-8 CP-9200 (H) CP-312 CP-317		_	<u> </u>	- ×	×	×	SICK AG			X	X	X	$+ \circ$	L
(ASKAWA Ele ≱10		MP940 PROGIC-8 CP-9200 (H) CP-312		×		×	×	× O	SICK AG Siemens AG		SIMATIC S7-200 series SIMATIC S7-300 series		×	X X	0	- X
(ASKAWA Ele	FA500	MP940 PROGIC-8 CP-9200 (H) CP-312 CP-317 MP2200 MP2300 (S) FA500	EGEDUN	_	0	×	×	0 ×	Siemens AG	apport by generate 4	SIMATIC S7-200 series SIMATIC S7-300 series SIMATIC S7-400 series	×	×	×	0	0
(ASKAWA Ele		MP940 PROGIC-8 CP-9200 (H) CP-312 CP-317 MP2200 MP2300 (S) FA500 F3SP05 F3SP05 F3SP10	F3SP08	_	_		×		Siemens AG	cannot be connected. annot be connected to the CC	SIMATIC S7-200 series SIMATIC S7-300 series SIMATIC S7-400 series *8 : Et 2011-CPU11 *9 : St	herNet/IP	(PCCC pr	rotocol) is	Supported	O T12 only.
*10		MP940 PROGIC-8 CP-9200 (H) CP-312 CP-317 MP2200 MP2300 (S) FA500 F3SP05 F3SP10 F3SP20	F3SP08 F3SP30	0	- ○*3 			0 ×	Siemens AG	annot be connected to the CC	SIMATIC S7-200 series SIMATIC S7-300 series SIMATIC S7-400 series SIMATIC S7-400 series *8 : Et *9 : St unt-CPU11 *9 : St untrace. *10: Th serviced	herNet/IP ipported b le GT10 is 2-92005H	(PCCC pr y the GT16 applicable , MP920, N	rotocol) is 5, GT15, G e only to the 1P930, MP	supported iT14, and 0 e following 940, MP22	GT12 only. models: 200,
(ASKAWA Ele ≰10 fokogawa Electric		MP940 PROGIC-8 CP-9200 (H) CP-312 CP-317 MP2200 MP2300 (S) FA500 F3SP05 F3SP05 F3SP10 F3SP20 F3FP36 F3SP21	F3SP30 F3SP38	0	_		×		Siemens AG *1 : The GT10 *2 : The GOT of because it *3 : RS-422 or *4 : RS-232/RS *5 : Comection to	annot be connected to the CC does not have an RS-232 inte RS232 is selectable. -422 converter (TXU-2051) is i he DH485 network via an adapter (177)	SIMATIC S7-200 series SIMATIC S7-300 series SIMATIC S7-400 series SIMATIC S7-400 series *8 : Et *9 : St unt-CPU11 *9 : St untrace. *10: Th serviced	herNet/IP ipported b le GT10 is 2-92005H	(PCCC pr y the GT16 applicable , MP920, N	rotocol) is 5, GT15, G e only to the 1P930, MP	supported iT14, and 0 e following 940, MP22	GT12 only. models: 200,
okogawa	FA500	MP940 PROGIC-8 CP-9200 (H) CP-312 CP-317 MP2200 MP2300 (S) FA500 F3SP05 F3SP10 F3SP20 F3SP20 F3FP36	F3SP30		- ○*3 	×	×		Siemens AG *1 : The GT10 *2 : The GOT of because it *3 : RS-422 or *4 : RS-232/RS *5 : Connection CPU. (B-S DH485 pro-	annot be connected to the CC does not have an RS-232 inte RS232 is selectable. -422 converter (TXU-2051) is he DH485 network via an adapter (177 to the DH485 requires a C-S rries and earlier models do no	SIMATIC S7-200 series SIMATIC S7-300 series	herNet/IP ipported b ie GT10 is P-9200SH P2300. hly MODBI ODBUS/T0 DBUS/T0 DDBUS/T0	(PCCC pr y the GT16 applicable MP920, M US [®] /TCP (CP commu le to duple	otocol) is 5, GT15, G only to the resonance of the connection mication dr x Ethernet ts or less of	supported iT14, and C e following 2940, MP22 n is support river.	C AT12 only. models: 200, red. Use a

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List of connectable models

	Cs/Motion contr			Ma	anufacturer	Model name	GT16/G ⁻ RS-485	RS-422	RS-232	Ethern
	connected with a third pa			OMRON	Thermac NEO	E5AN E5CN E5EN E5GN	(2-wire type)*1	×	* 3	
Manufacturer	RS-422 C200H-LK202-V1	RS-232 C200H-LK201-V1	Ethernet CS1W-ETN21		In-Panel NEO ACS-13A series	E5ZN ACS-13A /, , , C5*9	™ mue ryhe)*.			
	C500-LK201-V1	C500-LK201-V1	CS1W-EIP21 CS1D-ETN21D		DCL-33A series	DCL-33A- /M	1		_	
	CQM1-SCB41 CJ1W-SCU41	CS1W-SCU21 CS1W-SCB21/41	CJ1W-ETN21		JC series	JCS-33A- / .C5*9 JCR-33A- / .C5*9 JCD-33A- / .C5*9	(2-wire type)*2		* 3	
MRON	CJ1W-SCU21-V1+CP1W-EXT01 CS1W-SCB41	CJ1W-SCU21-V1 CJ1W-SCU21-V1+CP1W-EXT01	CJ1W-EIP21		JCM-33A series	JCM-33A/,C5*9	1			
ost link unit/ ommunication unit/	C200HW-COM03/06	CJ1W-SCU41			FCR-100 series	FCR-13A-//M,C FCR-15A-//M,C	_	1		
ommunication board/ thernet unit	CP1W-CIF11 CP1W-CIF12	C200HW-COM02/05/06 CQM1-CIF01/02		Shinko	FCD-100 series	FCD-13A/M,C	- ×	×		
	CJ1W-CIF11	CQM1-SCB41 CPM1-CIF01		Technos	FCR-23A series	FCD-15A/M,C FCR-23A/M,C				
		CPM2C-CN111 CPM2C-CIE01-V1			T OT ZOA SCIICS	PC935/M,C			* 5	
		CPM2C-CIF01-V1 CP1W-CIF01			PC-900 series	PC935- /M,C PC935- /M,C5*9 PC955- /M,C	○ (2-wire type)*	-		
	KV-L20R KV-L20V KV-L20	KV-L20R KV-L20V KV-L20			PCD-300 series	PC955/M,C5*9 PCD-33A/M,C5*9	(2-wire type)*2	1		
Iulti-communication unit OYO ELECTRONICS INDUSTRIES	U-01DM	U-01DM			FIR series	FIR-201-M,C	X			
ata communication module/ erial data communication module	D2-DCM	D2-DCM D0-DCM	_		JIR-301-M series LT300 series	JIR-301-M_,C5*9 LT350 LT370	○ (2-wire type)*		* 3	
harp Manufacturing Systems	D0-DCM JW-21CM ZW-10CM	D0-DCM			LT400 series	LT450 LT470	-	0	*3 0*4	
ink unit	JW-10CM				DZ1000 series DZ2000 series	DZ1000 *8 DZ2000 *8	-			
TEKT ink unit	THU-2755 THU-5139 THU-2927	—	_		LT230 series	LT230	(2-wire type)*2	×	0 *3	
OSHIBA Ethernet unit		—	EN811		LT830 series GT120 series	LT830 GT120				
itachi Industrial Equipment Systems ntelligent serial port module	COMM-H COMM-2H	COMM-H COMM-2H	_	CHINO	DB1000 series	DB1000	-	0	0	
litachi	LQE565	LQE560 LQE160			DB2000 series KP series	DB2000 KP1000 KP2000				
ommunication module	LQE165	LQE060			AL3000 series AH3000 series	AL3000 AH3000			0	
INIT Electric Interface card	_	NV1L-RS2			SE3000 series	SE3000	(2-wire type)*2	0		
A RS-232C/485	FFK120A-C10	FFK120A-C10	1 _		JU series KE series	JU KE3000	-		×	
omponents interface capsule Systems General interface		NOT DOD	-		LE5000 series	LE5000				
Systems General interface module	NC1L-RS4 FFU120B	NC1L-RS2 FFU120B		Fuji Electric	Micro	PXR PXR3/4/5/9 PXG PXG4/5/9	(2-wire type)*1	×		
anasonic Corporation	AFPX-COM3	AFP2462 AFPX-COM1		Systems	Controller X	PXH PXH9	(Z-wire type)*1			
omputer communication unit		AFP3462 AFPX-COM2 AFP5462 AFPX-COM4				UT320 UP350 UT321 UP351				
ASKAWA Electric	JAMSC-120NOM27100	JAMSC-IF60 217IF	218IF			UT350 UP550	_			
IEMOBUS module/	JAMSC-IF612 217IF	JAMSC-IF61 217IF-01 CP-217IF 218IF-01	218IF-01 218IF-02			UT351 UP750 UT420 UM330	(2-wire type ^{*2} /			
ommunication module	217IF-01	218IF-02			GREEN series	UT450 UM331 UT520 UM350	4-wire type /			
okogawa Electric ersonal computer link module/	LC02-0N F3LC11-2N	LC01-0N F3LC11-1N LC02-0N F3LC11-1F	F3LE01-5T F3LE11-0T			UT550 UM351				
thernet interface module	10201121	F3LC01-1N F3LC12-1F	F3LE12-0T	Yokogawa		UT551 US1000 UT750		×	*3	
len-Bradley (Rockwell Automation, Inc.) therNet/IP communication module	_	—	1756-ENBT 1756-ENET	-		UT130 UT155		1		
E Fanuc Automation Corporation	IC693CMM311	IC693CMM311	1730-EINET		UT100 series	UT150 UP150 UT152	(2-wire type)*2			
ommunication module	IC697CMM711	IC697CMM711			UT2000 series	UT2400 UT2800	O (4-wire type)			
Industrial Cnet communication unit stems Cnet communication module	G7L-CUEC G6L-CUEC G4L-CUEA	G7L-CUEB G6L-CUEB G4L-CUEA				UT32A UP35A UT35A UP55A	0			
stems Cnet communication module	GOL-CUEC G4L-CUEA	GOL-CUEB G4L-CUEA	TSX ETY 4102		UTAdvanced series	UT52A UM33A	(2-wire type*2/ 4-wire type)			
chneider Electric SA			TSX ETY 5102			UT55A H-PCP-J	(2-wire type)*1			
thernet unit	_		140 NOE 771 00 140 NOE 771 10		SR Mini HG	H-PCP-A H-PCP-B*	3 X	0	0	
			140 NWM 100 00		SRZ	Z-TIO Z-CT Z-DIO	(2-wire type)*1 *7	○*6	○*3	
Source emplifie					СВ	CB100 CB700 CB400 CB900*8				
Servo amplifie	rs The GOT can be use	ed to set parameters and	display alarms.		СВ	CB500*8		×	0*3	
		GT16/GT15/GT14	/GT12/GT11		FB	FB100 FB400 FB900	(2-wire type)*1	\vdash_{\bigcirc}	0	
Manufacturer	Model name	RS-485	RS-232	RKC		RB100 RB700	(2-wire type)*1			
	MINAS A4 series MINAS A4F series	_		Instrument	RB	RB400 RB900 RB500		×	⊖*3	>
anasonic	MINAS A4L series	- O	0		PF	PF900 PF901	-			
	MINAS A5 series				HA	HA400 HA900 HA401 HA901			0	
Dobot control	The GOT can be	used to monitor robot co	ontrollers and		RMC	RMC500 MA900 MA901		X	%	
Robot control	set their paramet				MA AG	AG500	(2-wire type)*1	0	X	
		GT16/GT15/GT14/G	[12/GT11/GT10		THV	THV-A1 SA100 SA200	-			
Manufacturer	Model name	RS-422	RS-232		SA SRX	X-TIO	-	×	0*3	
	XSEL-J/K/KE	_		*1 : Supporte	d by the GT16, GT15, and	GT14 only. Not supported by	the GT16 Handy.			
X-SE	XSEL-P/Q XSEL-KT/KET	1		GT15: Us	e GT15-RS4-TE. GT-15-F e RS-422/485 interface of	r GT15-RS4-TE. GT-15-RS4-9 RS4-9S is not applicable. r GT14-RS2T4-9P	o .io. appiloable.			
X-SE	XSEL-JX/KX XSEL-KTX		0	*2 : Supporte	d by the GT16 and GT15	r GT14-RS214-9P. only. Not supported by the GT r GT15-RS4-TE. GT-15-RS4-	16 Handy.			
	XSEL-PX/QX		~	GT15: Lle	GT15-BS4-TE GT-15-	RS4-9S is not applicable				
SSEI	L ASEL	-		*3 : If the temp *4 : If the temp	erature controller/indicating co erature controller/indicating co	ontroller is designed for RS-485, up ontroller is designed for RS-422, up	se the RS-232/RS-422	converter su	upplied by the second s	ie manu ie manu
N PSEI	L PSEL	┦─────└─		*5 : Only indic *6 : Use a cor	cating controllers with RS-	232 serial communication fun adule (Z-COM)	ction can be connec	ted.		
PCO	PCON-C/CG/CF/CY N PCON-SE	-		*7 : Use a cor *8 : Select a r	mmunication extension model name that supports	bdule (Z-COM) depending on the MODBUS® communication	the temperature cor	troller syst	em config	uration
	PCON-PL/PO]		*9 : Connection	is possible to products manufa	ctured after October, 2010 (Instrume	nt Nos. 07Axxxxx, 07K	xxxxxx, 07Xx	poxxx, and	subseque
ACO			0	*10. Supporte *11: Only MOI	d by the GT16, GT15, GT DBUS [®] /RTU connection is	supported. Use a MODBUS/ supported. Use a MODBUS/ supported. Use a MODBUS/	RTU communication	driver.		
SCO	ACON-PL/PO	-		*12: Only MOI	UBUST/ICP connection is	supported. Use a MODBUS/	I CP communication	driver.		
ERC		1								
		The COT are be		MODE	BUS [®] device	Connection to all MODBUS [®] MODBUS/RTU communication				
emperature controlle	ers/Other controllers	The GOT can be use set parameters, and		WODE		(For the GT11 and GT	10, only MODBUS®	/ RTU con	nection is	suppor
Manufacturer	Model name	GT16/GT15/GT14		For details	regarding operation-	verified MODBUS® dev	vices, refer to T	echnical	Bulletin	1
	SDC15 SDC36	RS-485 RS-422 F	IS-232 Ethernet*10	No. GOT-A	-0037 (List of Valid I	Devices Applicable for	GOI 1000 Serie	s MODE	SUS [®] Co	onnec
	SDC25 SDC45	0		Misson		Data can be written to a	and read from virtua	devices o	n a GOT I	ov conn
	SDC26 SDC46 SDC35	(2-wire type)*1		MICroco	mputer connection	a personal computer, n				
SDC	SDC20 SDC40A	0 ×	○*3 ×							
	SDC21 SDC40B SDC30 SDC40G	(2-wire type/*1		* : Applicable	e GOT varies depending o	on the connection destination. 22/485 or Ethernet: All models (Us	o tho built in later?	o of the C	OT main	(init)
	SDC31	4-wire type)		GT16 ···· V	when connected via HS-232, RS-42 When connected via ports ot	ner than above: All models (Bu	s connection and ne	twork conr	nection are	e enable
DMC	DMC10 DMC50	(2-wire type)*1 (2-wire type ^{\$1} /4-wire type) ×	×	GT15 … V	When connected via RS-2	mounting a cor 32 : All models (Us	mmunication unit on e the built-in interfac	the GOT r the GOT r	nain unit.) ΟT main ι	init.)
	NX-D15 NX-DX1	0			When other than RS-232	: All models (Bu	s connection and ne mmunication unit on	twork conr	nection are	e enable
bil NX prporation	NX-D25 NX-DX2 NX-D35 NX-DY	(2-wire type)*1 *11 ×	X O*12	GT14 V	When connected via RS-232, RS-42	22/485 or Ethernet: All models (Us	e the built-in interfac	e of the G	OT main i	init.)
CMS	CMS	(2-wire type)*1		GT11 … V	When connected via RS-2	22/485 or Ethernet: All models (Us 32 or RS-422: GT115-QE	3D		υ I main ι	init.)
CML	CML CMF015	(2-wire type*1/4-wire type) (2-wire type)*1		Handy GOT ···· V	When using bus connectio When connected via RS-232, RS-42	n : GT115-QE 22/485 or Ethernet: GT1665HS-VT	3DQ, GT115 -Q 1 BD	BDA		
CMF	CMF050	(2-wire type*1/4-wire type)		1 ' V	When connected via RS-2 When connected via RS-2	32 or RS-422 : GT115 HS-Q	BD 3D, GT104QBI). GT1030	.H_⊔o/⊓	_
MQV MPC	MQV MPC	(2-wire trop)*1 ×	⊖*3 ×			GT1020-L_D2		GT1020		
MVF	MVF	(2 wire type)	<u> </u>		When connected via RS-4	GT1030-H L/	3D, GT104 -Q BL H LW, GT1020-L	D/L DW.	GT1020-	
PBZ	PBC201-VN2	(2-wire type ^{#1} / 4-wire type)				(The GT1030-HUH	LW and GT1020-LULL	W can be used	only with the M	ELSEC-FX
AUR	AUR350C AUR450C									

litsubishi PLC	o ana motio			liero	Connostio	n oonfigura	tion		
Series	Model name		direct nection	Computer link	MELSECNET/	n configura MELSECNET/ 10 ⁴²	CC-Link IE Controller Network	CC-Link IE Field Network	Ethernet
	Q00JCPU	COIII	IECTION	IIIIK		10	CONDUICI NEUROIN	FIELU NEWUK	
	Q00CPU *3 Q01CPU *3	USB							
	Q02CPU *3 Q02HCPU *3	connec	tion 1						
MELSEC-Q series	Q06HCPU #3		0	0	_*5	()≉5	0	×	0
(Q mode)	Q12HCPU #3 Q25HCPU #3	-	Ň	Ŭ	Ŭ	~	Ŭ		
	Q02PHCPU	0							
	Q06PHCPU Q12PHCPU	ľ							
	Q25PHCPU	1							
	Q12PRHCPU Q25PRHCPU	{		×	○*5 *6 *12	○*5 * 6	0	×	0
Redundant system	Q12PRHCPU	×	X	0	×	×	×	×	0
(extension base)	Q25PRHCPU Q00UJCPU			_					-
	Q00UCPU	1							
	Q01UCPU Q02UCPU	1							
	Q03UDCPU Q04UDHCPU	0		0	0	0	0	0	0
	Q06UDHCPU	۲×.	0	0	0	0	0	· ·	
	Q10UDHCPU Q13UDHCPU	-							
	Q20UDHCPU								
-	Q26UDHCPU Q03UDECPU								
	Q04UDEHCPU	1							
	Q06UDEHCPU Q10UDEHCPU	-							
	Q13UDEHCPU	0	X	0	0	0	0	0	0
	Q20UDEHCPU Q26UDEHCPU	1							
[Q50UDEHCPU	1							
	Q100UDEHCPU QS001CPU	0	X	X	0	0	0	0	0
1151 050 0	Q02CPU-A		_	~		0	~	v	
(A mode)	Q02HCPU-A Q06HCPU-A	1	0	0	×	0	×	×	0
	L02CPU L26CPU-BT								
MELSEC-L series	L02CPU-P	0	○*14	0	×	×	×	0	0
	L26CPU-PBT								
MELSEC-WS series	WS0-CPU0 WS0-CPU1	I	×	×	×	×	\times	×	×
C controller	Q12DCCPU-V *16	0	0	0	0	0	0	X	0
MELSEC-QnA series	Q2ACPU (-S1) Q3ACPU		0	⊖*4	×	0	×	×	0*4
(QnACPU type)	Q4ACPU Q4ARCPU		0	0	^	0	^	^	0.4
	Q2ASCPU (-S1)								
(On A C C D L turne)	Q2ASHCPU Q2ASHCPU-S1	-	0	○*4	×	0	×	×	0*4
	A2UCPU (-S1)								
	A3UCPU A4UCPU	1							
[A2ACPU (-S1)	1							
-	A2ACPUP21 (-S1) A2ACPUR21 (-S1)	1							
	A3ACPU	1							
MELSEC-A series	A3ACPUP21 A3ACPUR21	1	* 7	0	×	0	×	×	0
	A1NCPU A1NCPUP21	1							
	A1NCPUR21								
-	A2NCPU (-S1) A2NCPUP21 (-S1)								
	A2NCPUR21 (-S1)	1							
	A3NCPU A3NCPUP21	1							
-	A3NCPUR21	1							
	A2USCPU (-S1) A2USHCPU-S1	1							
	A1SCPU	1							
MELSEC-A series	A1SCPUC24-R2 A1SHCPU	1	* 7	0	×	0	×	×	0
(AnSCPU type)	A2SCPU (-S1) A2SHCPU (-S1)	-				-			-
	A1SJCPU (-S3)								
	A1SJHCPU A0J2HCPU	-							
	A0J2HCPUP21		* 7	0		~	~	×	
	A0J2HCPUR21 A0J2HCPU-DC24	-		0	×	×	×		0
MELSECIA	A2CCPU								
series*10	A2CCPUP21 A2CCPUR21	1	* 7	×	×	×	×	×	×
	A2CCPUC24		* 7	0	×	×	X	×	×
	A2CCPUC24-PRF A2CJCPU-S3		○ ○*7	×	X	×	X	X	X
	A1FXCPU Q172CPU (N)		ŏ	X	Ŷ	Ŷ	X	X	X
-	Q173CPU (N)	1							
	Q172HCPU Q173HCPU	1							
controller CPU	Q172DCPU (-S1)		X	Х	×	×	X	×	×
(Q series)	Q173DCPU (-S1) Q172DSCPU	USB							
-	Q173DSCPU	connec							
	Q170MCPU *13 A273UCPU	01	<u>_0</u>	O X	0	O X	Ô	X	
controller CPU	A273UHCPU (-S3)		× 0 *8	ô	×	Ŏ	X	×××××××××××××××××××××××××××××××××××××××	Ô
	A373UCPU (-S3) A171SCPU (-S3)		X	X	×	X	~~~		X
(A series/large type)	A171SCPU-S3N		×	×	×	×	×	×	×
Motion	A 4 TH COLLO DUL (NO	1	_*8	0	×	0	×	×	0
Motion controller CPU*10	A171SHCPU (N) A172SHCPU (N)		U-4		<u>^</u>		^	^	
Motion controller CPU*10 (A series/small type)	A172SHCPU (N) A173UHCPU (-S1)								
Motion controller CPU*10 (A series/small type)	A172SHCPU (N)	<u> </u>							
Motion controller CPU*10 (A series/small type) MELSEC-FX	A172SHCPU (N) A173UHCPU (-S1) FX0S FX1NC FX0N FX2N FX1S FX2NC	<u> </u>	0	×	×	×	×	×	×
Motion controller CPU*10 (A series/small type) MELSEC-FX series	A172SHCPU (N) A173UHCPU (-S1) FX0S FX1NC FX0N FX2N	<u> </u>	0	×	×	×	×	×	×
Motion controller CPU ^{\$10} (A series/small type) MELSEC-FX series	A172SHCPU (N) A173UHCPU (-S1) FX0S FX1NC FX0N FX2N FX1S FX2NC FX1N FX2NC FX1N FX3Q FX3Q FX3QC FX3U FX3UC			×	×	×	×	×	×
Motion controller CPU ^{\$10} (A series/small type) MELSEC-FX series MELSECNET/H	A172SHCPU (N) A173UHCPU (-S1) FX0S FX1NC FX0N FX2N FX1S FX2NC FX1S FX2NC FX3G FX3GC FX3U FX3UC QJ72LP25-25		0						0
Motion controller CPU*10 (A series/small type) MELSEC-FX series MELSECNET/H remote I/O station	A172SHCPU (N) A173UHCPU (-S1) FX0S FX1NC FX0N FX2N FX1S FX2NC FX1N FX2NC FX1N FX3Q FX3Q FX3QC FX3U FX3UC			×	×	×	×	×	
Motion controller CPU#10 (A series/small type) MELSEC-FX series MELSECNET/H remote I/O station	A172SHCPU (N) A173UHCPU (-S1) FX0S FX1NC FX0N FX2N FX1S FX2NC FX1N FX3G FX3GC FX3U FX3UC QJ72LP25-25 QJ72LP25G		0						0

Module ubishi PLCs For con

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

GT SoftGOT1000 Version3

[PLCs/motion controllers]

all type)	A172SHCPU (N) A173UHCPU (-S1)		0*8	0	×	0
(FX0S FX1NC FX0N FX2N FX1S FX2NC FX1N		0	×	×	×
	FX3G FX3GC FX3U FX3UC	0	0			
T/H tation	QJ72LP25-25 QJ72LP25G QJ72BR15	×	0	×	×	×
Field Id unit	LJ72GF15-T2	0	×	0	×	×
ld Network or unit ^{#15}	NZ2GF-ETB	×	×	×	×	×
npute	able when r link connec		n*		_	Mitsul
npute CF	r link connec PU series		n* s	erial con	nmunicat	ion modul
CF series (C series (A	r link connec PU series 2 mode) 1 mode)	tio	n*	erial con J71C24(-F 1SJ71UC2	nmunicat R2)/QJ71C2 24-R2/A1SJ	ion modul
CF series (C series (A series/CC nA series	r link connec PU series 2 mode) (mode) C-Link IE Field Netwo	tio	n*	Gerial con 1071C24(-F 15J71UC2 J71C24 (-F J71QC24(15J71QC24(15J71QC24)	nmunicat 32)/QJ71C2 24-R2/A1SJ 32) -R2)/AJ71C 24(-R2)/AJ71C	ion modul 24N(-R2)/QJ 71C24-R2 0C24N(-R2)/ 3J71QC24N
CF series (C series (A series/CC nA series series	r link connec PU series 2 mode) (mode) C-Link IE Field Netwo	ork	n*	Gerial con 1071C24(-F 15J71UC2 J71C24 (-F J71QC24(15J71QC24(15J71QC24)	nmunicat 32)/QJ71C2 24-R2/A1SJ 32) -R2)/AJ71C 24(-R2)/AJ71C	ion modul 24N(-R2)/QJ 71C24-R2

CMC10B

(2-wire type)*

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(S)-25 (optical loop), Q80BD-J71LP21G (optical loop), and Q81BD-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(S)-SX and Q81BD-J71GP21(S)-SX (optical loop)

For CC-Link IE Field Network connection
Use a network unit aplicable 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-QnA series	AJ71QE71N-B5T/AJ71QE71/AJ71QE71-B5/A1SJ71QE71N3-T/
	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/
	A1SJ71E71-B5-S3/A1SJ71E71-B2-S3
MELSEC-FX series	FX3U-ENET (-L)

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

Third party PLCs

Manuf	acturer	Model name	Connect	tion configuration	
Manur	acturer		CPU direct connection (RS-232)	Computer link (RS-232)	Ethernet
	Micro PLC	CPM2A	0 1		_
		C200HX CQM1			_
		C200HG CQM1H			
		CS1H CJ1G	1		
OMRON	Small-size	CS1G CJ1M	0	_	
OWHON	PLC	CS1D CJ2H			O*18
		CJ1H			
		CJ2M	O*17		
		CP1E (N type)	0		_
	Large-size	CV500 CV2000	0	_	
	PLC	CV1000 CVM1	U U		
TOSHIBA	Unified controller nv series	PU811	×	×	0
		GL120	0	×	
		GL130	0	^	
		GL60S			1
		GL60H	×	0	×
		GL70H			
		CP-9200SH	×	0	
Yaskawa E	lactric	CP-9300MS		×	
Taskawa L	loctric	MP920		0	0
		MP930			
		MP940		×	×
		PROGIC-8			
		CP-9200 (H)			
		MP2200	×	0	0
		MP2300 (S)	~		Ŭ Ŭ
		F3SP05 F3SP38			
		F3SP08 F3SP53			
		F3FP36 F3SP58			
Yokogawa	Electric	F3SP21 F3SP59		_	0
		F3SP25 F3SP66			1
		F3SP35 F3SP67			1
		F3SP28			
Siemens A	G	SIMATEC S7-300 series	×	×	0
	-	SIMATEC S7-400 series			1 ×

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

CS1W-ETN21, CS1D-ETN21D, CJ1W-ETN21 Ethernet unit Modules usable when connected with PLCs made by the Yaskawa Electric Corporation — For computer link connection

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

Communication module 218IF, 218IF-01

Modules usable when connected with PLCs made by the Yokogawa Electric Corporation -For Ethernet connection Ethernet interface module F3LE01-5T, F3LE11-0T, F3LE12-0T

[CNCs] Miteubichi CNC

		Connection configuration										
Series	Model name	CPU direct connection	Computer link	MELSECNET/ H*1	MELSECNET/ 10*2	CC-Link IE Controller Network	CC-Link IE Field Network	Ethernet				
CNC C70	Q173NCCPU	O*11	0	0	0	0	0	0				
MELDAS C6/C64	FCA C6 FCA C64	0*9	×	×	×	×	×	0*9				

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

CPU series

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

	CPU direct connection		MELSECNET/ H*1		CC-Link IE Controller Network	CC-Link IE Field Network	Ethernet
CRnQ-700	0*11	0	0	0	0	0	O*19
CRnD-700	X	\times	×	×	\times	\times	0
*1 : Connection configuration for network typ					ension mo	de (PC-to	-PC net).

I. Connection configuration for network type MELSECNET/H mode and MELSECNET/H extension mode (PC-to-PC net).
 Connection configuration for network type MELSECNET/In mode and MELSECNET/H to MELSECNET/H extension mode (PC-to-PC net).
 (Including the case where the mode is writched from MELSECNET/H to MELSECNET/I to MELSECNET/H
 (PC-to-PC net).
 (Including the case where the mode is writched from MELSECNET/H to MELSECNET/H
 (PC-to-PC net).
 (Including the case where the mode is writched from MELSECNET/H
 (Decluding the case where the mode is writched from MELSECNET/H
 (Decluding the case where the mode is writched from MELSECNET/H
 (PC-to-PC net).
 (Including the case where the mode is writched from MELSECNET/H
 (Decluding the case where the mode is writched from MELSECNET/H
 (Decluding the case where the mode is writched from MELSECNET/H
 (PC-to-PC net).
 (Including the case where version or later case to write data to the AnNCPU(S1), A2SCPU, A0J2HCPU and
 A2CCPU. Earlier versions cannot be used.
 •AnNCPU(S1): Version L or later for a CPU with link, and version H or later for a CPU without link
 •A2Q2HCPU-DC24: Version B or later
 •A0J2HCPU-Version B or later
 •A0J2HCPU-Versich
 +A0J2HCPU-VERSION
 •A0J2HCPU-Version B or later
 •A0J

*14: For connection through HS-232, USAUP-H2 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 C2UM-CPUI and be connected.
*18: Not applicable to duplex Ethernet
*19: The CRn-2700's DISP UF cannot be used. Access the controller via the Ethernet module or the Ethernet port of the QCPU of a multi-CPU system.

[MODBUS[®] devices]

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

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MELSEC ocess Con

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List of Connectable Models, etc.

Function list

		-									
	GT16 GT15 GT14 GT12 GT SoftGO								Mode	əl	GT11 GT10 동양 돌양 왕 Model
	Oategovy Prinction Bandon I Internation Categovy	Other necessary devices Details page	-XTB XGA	-STB -ST SVGA SV	B -VTB -V GA VGA	T167 GT16 NB -STE VGA SVC	B -VTB - GA VGA	VNB -V VGA V	TBD HS-VT	BD -XTB *4 XGA	GT1555(V) GT1575 (GT1575 GT1575 GT1565 GT1562 GT1555 GT1455 GT1265 GT1265 SoftGOT -STB: -VTB: -VNB: -V
	Mitsubishi PLC CPU direct connection Mitsubishi PLC MELSECNET/H connection Mitsubishi PLC MELSECNET/H connection Mitsubishi PLC MELSECNET/H connection Mitsubishi PLC CLink IE Controller Network connection Mitsubishi PLC CC-Link IE Controller Network connection Mitsubishi PLC CC-Link IE Controller Network connection Mitsubishi PLC CC-Link Connection Mitsubishi PLC CC-Link Connection Mitsubishi PLC Ethernet connection Third party PLC connection Microcomputer connection Microcomputer connection	*10 P.65								nly	Image: Constraint of the constraint
Image:	5 Temperature controller connection Inverter connection Inverter connection Servo amplifier connection CNC connection Robot controller connection GOT multi-drop connection Multiple-GT14, GT12, GT11, GT10 connection*14 Standard memory capacity Total memory capacity when using Mustiple-GT14, GT12, GT14, GT12, GT14, GT12, GT14, GT14	Memory P.52~	• •		MB 15MB 1 to Up to		• • • •	• • • • • • • • • • • • • • • • • • •		• •	Image: Constraint of the constraint
Image: marked biase in the second s											• • • - •
Verture	256 colors		-			B only	· _				C3BD only _
	Monochrome (black/white) 16 gray scales				VN	T1672	· _	- -	 		Image: Constraint of the system Imag
	1920 × 1200 dots (WUXGA) (max. at specified resolution) 1600 × 1200 dots (UXGA) 1280 × 1024 dots (SXGA)		- - -		· · · · · · · · · · · · · · · · · · ·		·		 	-	Image: Constraint of the state of the s
Normality Normality <t< td=""><td>20 640 × 480 dots (VGA) 20 20 × 240 dots (QVGA) 20</td><td>P.52~</td><td>-</td><td>• • • • • • • • • • • • • • • • • • •</td><td></td><td></td><td></td><td>- • -</td><td> • •</td><td>-</td><td>- -</td></t<>	20 640 × 480 dots (VGA) 20 20 × 240 dots (QVGA) 20	P.52~	-	• • • • • • • • • • • • • • • • • • •				- • -	 • •	-	- -
N I <th< td=""><td>160 × 64 dots RS-232 interface RS-422 interface RS-422/232 interface</td><td></td><td>*5</td><td></td><td></td><td></td><td></td><td></td><td></td><td>*5</td><td>Image: style styl</td></th<>	160 × 64 dots RS-232 interface RS-422 interface RS-422/232 interface		*5							*5	Image: style styl
bit bit <td>Bus interface Ethernet interface</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>• -</td> <td>-</td> <td>• •</td> <td>-</td> <td>Image: Constraint of the state of the s</td>	Bus interface Ethernet interface		-				• -	-	• •	-	Image: Constraint of the state of the s
Extra dom minibility i	CF card interface USB device USB device USB control of the face USB device USB device USB device USB control of the face USB device USB device USB control of the face USB device USB devic					• • • • - •		• · · · · · · · · · · · · · · · · · · ·	• • • • 	•	Image: Constraint of the constraint
Cook hunding Image: Section (Section (Sectic) (Sectic) (Section (Section (Section (Section (Section (Sectin	Multimedia & Video/RGB interface Video/RGB interface		2ch	2ch 2c	h 2ch	2ch 2cl	h 2ch			2ch 	2ch 2ch 2ch 2ch 2ch 2ch 2ch 1ch 1
Normal state Normal state<	Clock function (E Buzzer output Human sensor Printer Pregured (Pri	P.52~				• •		-	• •	•	Image: Constraint of the state of the s
Vert Network unit	Sound output External input/output Video input / BGB input / BGB output	und output unit xtemal input/ output unit deo/RGB P.32	•	• •		• •		•	• -	•	Image: Control of the state of the stat
Multi-channel function M	USB mouse/keyboard connection Prequired Backlight OFF detection function Start from memory card Required (CTS on) M	Memory card	•					•	• •	٠	Olisorum Olisorum <th< td=""></th<>
Gateway function Required Non-organization Required Non-organization Non-organizatio	Resource data read	USB memory T16/GT14 only>) P.39 P.33	•			• •		•	• • • • •	6 •	
	Gateway function Required M GT MES interface function Required M SoftGOT-GOT link function Required	USB memory P.35 T16/GT14 only>) femory card) P.35 P.27, 3	4	• •		• •		•	• -	•	Image: Constraint of the constraint

*1 : The function details, such as the number of settings and the data strage destination, vary depending on the model.
 *2 : An optional function board is required to use the functions that are indicated as "Required" in the "Optional function board" column. Some other optional functions may require the optional function board depending on the GOT function version and hardware version. The extension/optional function OS must be installed to use the functions that are indicated as "Required" in the "Extended/optional function OS installation" column. A memory card or optional function board may be required when the extension/optional function OS is installed. Check the size of the data stored in the GOT. For more details, see "Optional function board, memory card (CF card, SD card), and USB memory selection <GT16/GT15/GT14/GT12/GT11> (page 82 to page 83). The GT14 and GT12 do not require the optional function Dost. The GT14 and GT12 do not require the optional function OS.
 *3 : Necessary optional units, memory 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 to name 80)

*5 : The RS-232 interface can be used as an RS-422 interface by connecting an RS-422 conversion unit.
*6 : Structural restrictions are applied.
*7 : Only user alarms can be used.
*8 : To use the historical data list display and the historical trend graph, it is necessary to specify the logging function in advance. In addition, it is necessary to install the optional function OS (logging).
*9 : Read from the PLC clock.
*10: Different connection configurations may require different communication units. For details, see the GOT1000 Series Handbook and the GOT1000 Series Connection Manual.
*11: For the compatible hardware versions, please contact your local sales office.
*12: Only CPU direct connection are supported.
*13: Only the FTP server function is supported.
*14: When GT14, GT12, GT11 and GT10 are intermingled, the multiple connection function is not supported.

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Function list

GT16	GT15 GT14 GT12 G	T SoftGOT								N	Model		GT11 GT10	_
egory	Function*1	al functic ptional funct ion sary s page			1675M GT1675	M GT167							GT15 GT155 GT155	
Cat		Optiona board Extendedo 0S installat 0S installat Other device Details	XGA S	SVGA S	STB -VTB SVGA VGA 0.4" 10.4"	VGA	SVGA		VGA			XGA	12.1 ¹ 10.4 ¹ 10.4 ¹ 10.4 ¹ 8.4 ¹ 8.4 ¹ 6.7 ¹ 5.7 ¹ 10.4 ¹ 8.4 ¹ 6.7 ¹ 5.7 ¹ 6.7 ¹ 5.7	VGA 1.7" 4.5" 3.7"
	Base screen, window screen Dialog window display BMP image display	P.37		<u> </u>				•	•	•	•	•	$\bullet \bullet $	
	Graphic JPEG image display drawing DXF data IGES data		•	•		•			•	•	•	•		
tions	(Japanese, Japanese (supporting European languages), Standard Chinese (Simplified),				• •	•		•	•		•	•		
ecifica	fonts (basic) Chinese (Simplified, supporting European languages), Chinese (Traditional, supporting European languages)) Standard Chinese (Simplified), Chinese (Traditional),	Denied												
р С	fonts (optional) Japanese High-quality font TrueType font, TrueType font (7 segments)	Hequired		•	• •			•	•	•	•	•		
	Windows [®] font Stroke basic font (extended)	Required								•		•		
_	Stroke font (optional) Logo character function Parts (object + figure) layer function	Required										•		
ttings	Station No. switching Multilingual support function Password	P.36	-	•	• • • •				•		•	•		
uon se	Boot logo Data operation function		•	•	• •	•		•	•	•	•	•	• •	• • • • • • • • • • • • • • • • • • •
Comr	Offset function Security Security level authentication function Operator authentication	(Memory card/ Required USB memory P.41	•	•					•	-	•	•		Arations
	Lamp display Touch switch	Required USB memory <gt16 only="">) P.41</gt16>		•		•						•		
	Numeric display/input Data list display	Required ^{#8} P.40	•	•	• •			•	•		•	•	• •	
	Historical data list display** ASCII display/input Kana-Kanji Normal version	Required	-	• -	• • • •	-	• • •	• • -	• • -	-	• •	•		Perso
design	conversion function Enhanced version Clock display Comment display	Required	-							•		•		nnel
setting	Advanced alarm observation/display Alarm display	(Memory card) (Battery) P.43	•	-	• •	•	•	•	•	•	•	•	• •	 ● *7 ● *7 ● *7
2 Dbject	Alarm history display Floating alarm display	(Memory card)	-	-	• •	-	-	-	-	-	-	-	• •	• • • • • • •
	Parts display Parts movement Panel meter display	(Memory card) (Memory card)		•	• • • •						•	•		
	Level display Trend graph/Line graph/Bar graph/Statistical graph Historical trend graph≉8	Pequies ^{#8} P.40	-	•								•		
	Scatter graph Status observation function Advanced recipe function	Required (Memory card) P.37	•	•								•		
	Recipe function Report function	Required (Memory card)	•	•		-		•	•		-	•		
	Hardcopy function File saving in memory card Printing on printer	Required (Memory card) Memory card Required (Printer unit)		•		•		•	•	-	• -	•		Attor
	Barcode function RFID function	Required P.33 Required Multimedia unit	•	•	• •			•	•	•	-	•		
	Multimedia function Remote personal computer function (Ethernet)	Required Memory card P.32 Required License P.34	•		• •	-	•	•	-	-	-	-	- - - - - - - P.32 - - - - <td></td>	
hers	Remote personal computer function (serial) VNC [®] server function	Required Video/RGB input unit P.34 Required License P.34	•		• •	-	•	•	-	-	-	-	Operation CTISSV only	Cess
đ	Operation panel function Operation log function	Required External input/ output unit Required Memory card P.41	•	•	• •	•	•		•		-	•	• • • • • -	Contr
	Document display function	Required Required Memory card P.33 (GT15 only) Required (Memory card) Required (Memory card) P.40	•		• •	•	•	•	•		•	•	• • • • • - - - • P.33 - - - - • <td></td>	
	Log viewer function	Required (Battery) P.40 Required USB memory) P.40	•	-	• •	•	•	•	•		•	-		Extern
	Script function Project script/Screen script Object script Device data transfer function	Required P.37 Required P.33		•	• • • •	•		•	•	•	•	•		
	Device data transfer function Device monitor function System monitor function	Required P.46	-	-	 • •	-	-	-	-	-	-	-	- -	ension
	List editor for A List editor for FX	Required P.47			• •	•	•	•	•		•	•	Image: Constraint of the state of	
(0	SFC monitor function	Required Remory card P.44 Remove and P.44 Remo	•	•	•	•	•	•	•	•	•	•	• • • • • - - - - P.44 -	Mod
nctions		Required Required Memory card P.45 Required Memory card P.45 Required Memory card P.45			• •	•	•	•	•		•	•	• • • • • • • - - - - P.45 - - - - • • • • • - <td> leis, et</td>	leis, et
nce fui	Ladder monitor function	Required (Memory card) P.44	•	•	• •	•	•	•	•	•	•	•		<u>-</u> ?
lintena	Intelligent module monitor function Q motion monitor function Servo amplifier monitor function	Required P.46 Required P.47 Required P.47	•	•	• • • •	, e		•	•		•	•	Image: Constraint of the second se	
Ma	Network monitor function CNC monitor function	Required P.46	•		• • • •			-	-		-	•	• • • • • -	
	CNC data input/output function	Required Memory card/ USB memory-GT16 only- P.47 Required Memory card/ USB memory GT16 01/s-01/s-01/s-01/s-01/s-01/s-01/s-01/s-	•	-	• -	-	•	-	-	-	-	•	• •	
	Backup/restoration function MELSEC-L troubleshooting function Maintenance time patification function			•	• •			•	•	•	•	-		
*1 : The fu	Maintenance time notification function		-		• •	-		•	•	•	•			

 Maintenance time notification function
 Battery
 P-:38

 *11 The function details, such as the number of settings and the data storage destination, vary depending on the model.
 *2
 : An optional function board is required to use the functions that are indicated as "Required" in the 'Optional function board" column. Some other optional functions may require the optional function board depending on the GOT function version and hardware version.

 The extension/optional function OS must be installed to use the functions that are indicated as "Required" in the 'Extended/optional function OS installation" column. A memory card or optional function board may be required when the extension/optional function DS is installed.

 Check the size of the data storage in the GOT. For more details, see "Optional function board" column. A memory card or installation or installation or installation or installation or installation or installation or the extension/optional function DS is installed.

 Check the size of the data storage in the GOT. For more details, see "Optional function board memory card (CF card, SD card), and USB memory selection <GT16/GT15/GT14/GT12/GT

*5 : The R5-232 Interface can be used as an R5-422 interface by connecting an R5-422 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.
*14: When GT14, GT12, GT11 and GT10 are intermingled, the multiple connection function is not supported.

Main unit model name GT16 9 5 M - X T B A Code Screen size Code Display colors Code Mounting type Code Power supply Code Communication interface Q⁴¹ With built-in bus connection interface for OCPU (Q mode)motion controller CPU (Q series) A*1 With built-in bus connection interface for QnA/ACPU/motion controller CPU (A series) E⁴² With built-in Ethermet 2*3 With built-in RS-232 With built-in SP 422 A 100 to 240VAC D 24VDC SVGA (ilign: ungniness, wide viewing angle) V VGA N V (640 × 480 dots) S STN color Q QVGA S STN monochrome L 5VDC M multimedia & Video/RGB V VGA V (640 × 480 dots) Q QVGA (320 × 240 dots) B (blue/white) L STN monochrome 4.5" 3.7" None*3 With built-in RS-422 *1 : GT115 Q BDQ and GT115 Q BDA only *2 : GT145 Q BDE only *3 : GT10 only 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 STN monochrome H (White/black, high contrast) GT16 network or standalone environment Standard model with advanced features and communication interfaces Code Main unit frame Code GT10 backlight GT14 GT12 GT11 GT10 Black W White backlight White None Green backlight B W Large basic models with integrated features and communication interfaces Small models with a host of advanced functions Compact models with basic functions * For inquiries relating to products which conform to UL, cUL, and CE directives and shipping directives, please contact your local sales office.

GOT main units

GOI	main t							
	Мос	lel name	Screen size [resolution]	Display	Display colors (number of colors)	Power supply	Memory size	Remarks
	GT1695	GT1695M-XTBA GT1695M-XTBD	15" XGA [1024 × 768 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC 24VDC	15MB	Compatible with multimedia & Video/RGB
	GT1685	GT1685M-STBA GT1685M-STBD	12.1" SVGA [800 × 600 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC 24VDC	15MB	Compatible with multimedia & Video/RGB
		GT1675M-STBA GT1675M-STBD	10.4" SVGA [800 × 600 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC 24VDC	15MB	Compatible with multimedia & Video/RGB
		GT1675M-VTBA		TFT color LCD	65,536 colors	100-240VAC	15MB	Compatible with
	GT167	GT1675M-VTBD GT1675-VNBA*1	10.4" VGA	(high brightness, wide viewing angle) TFT color LCD	4,096 colors	24VDC 100-240VAC	11MB	multimedia & Video/RGB
GT16		GT1675-VNBD*1 GT1672-VNBA*1	[640 × 480 dots]	TFT color LCD	16 colors	24VDC 100-240VAC	11MB	
		GT1672-VNBD*1 GT1665M-STBA	8.4" SVGA	TFT color LCD	65,536 colors	24VDC 100-240VAC	15MB	Compatible with
	GT166	GT1665M-STBD GT1665M-VTBA	[800 × 600 dots]	(high brightness, wide viewing angle) TFT color LCD	65,536 colors	24VDC 100-240VAC	15MB	multimedia & Video/RGB Compatible with
		GT1665M-VTBD GT1662-VNBA*1	8.4" VGA [640 × 480 dots]	(high brightness, wide viewing angle)	,	24VDC 100-240VAC		multimedia & Video/RGB
	GT1655	GT1662-VNBD*1 GT1655-VTBD*1	5.7" VGA [640 × 480 dots]	TFT color LCD TFT color LCD (high brightness, wide viewing angle)	16 colors 65,536 colors	24VDC 24VDC	11MB 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 GT1595-XTBD	15" XGA [1024 × 768 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC 24VDC	9MB	_
	GT1585	GT1585V-STBA GT1585V-STBD	12.1" SVGA	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC 24VDC	9MB	Compatible with Video/RGB
		GT1585-STBA GT1585-STBD	[800 × 600 dots]	TFT color LCD (high brightness, wide viewing angle)	00,000 001013	100-240VAC 24VDC	51410	-
		GT1575V-STBA GT1575V-STBD	10.4" SVGA	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC 24VDC	9MB	Compatible with Video/RGB
		GT1575-STBA GT1575-STBD	[800 × 600 dots]	TFT color LCD (high brightness, wide viewing angle)	05,550 001015	100-240VAC 24VDC	91016	
GT15	GT157	GT1575-VTBA GT1575-VTBD		TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC 24VDC	9MB	_
ao		GT1575-VNBA GT1575-VNBD	10.4" VGA [640 × 480 dots]	TFT color LCD	256 colors	100-240VAC 24VDC	5MB	
		GT1572-VNBA GT1572-VNBD		TFT color LCD	16 colors	100-240VAC 24VDC	5MB	
	07450	GT1565-VTBA GT1565-VTBD	8.4" VGA	TFT color LCD (high brightness, wide viewing angle)	65,536 colors	100-240VAC 24VDC	9MB	
	GT156	GT1562-VNBA GT1562-VNBD	[640 × 480 dots]	TFT color LCD	16 colors	100-240VAC 24VDC	5MB	
		GT1555-VTBD GT1555-QTBD	5.7" VGA [640 × 480 dots]	TFT color LCD (high brightness, wide viewing angle)	65,536 colors		9MB	
	GT155	GT1555-QSBD GT1550-QLBD	5.7" QVGA [320 × 240 dots]	STN color LCD STN monochrome LCD	4,096 colors Monochrome (black/white) 16 gray scales	24VDC	BIND	_
GT14	GT145	GT1455-QTBDE*1	5.7" QVGA [320 × 240 dots]	TFT color LCD STN monochrome LCD	65,536 colors Monochrome (black/white)16 gray scales	24VDC	9MB	_
	GT1275	GT1450-QLBDE*1 NEW GT1275-VNBA	10.4" VGA		wonochrome (black/white) to gray scales	100-240VAC		
GT12	GT1265	GT1275-VNBD GT1265-VNBA	[640× 480 dots] 8.4" VGA	TFT color LCD	256 colors	24VDC 100-240VAC	6MB	_
		GT1265-VNBD GT1155-QTBD	[640 × 480 dots]			24VDC		
	GT1155	GT1155-QTBDQ GT1155-QTBDA		TFT color LCD	256 colors			Dedicated to Q bus connection Dedicated to A bus connection
GT11		GT1155-QSBD GT1155-QSBDQ GT1155-QSBDA	5.7" QVGA	STN color LCD		24VDC	змв	Dedicated to Q bus connection Dedicated to A bus connection
	GT1150	GT1150-QLBD GT1150-QLBDQ GT1150-QLBDA	[320 × 240 dots]	STN monochrome LCD	Monochrome (black/white) 16 gray scales			Dedicated to Q bus connection Dedicated to A bus connection
	Handy GOT	GT1155HS-QSBD GT1150HS-QLBD]	STN color LCD STN monochrome LCD	256 colors Monochrome (black/white) 16 gray scales			_
	GT105	GT1055-QSBD GT1050-QBBD	5.7" QVGA [320 × 240 dots]	STN color LCD STN monochrome LCD	256 colors	24VDC	3MB	_
GT10	GT104	GT1045-QSBD	4.7" QVGA	STN color LCD	Monochrome (blue/white) 16 gray scales 256 colors	24VDC	3MB	_
		GT1040-QBBD	[320 × 240 dots]	STN monochrome LCD	Monochrome (blue/white) 16 gray scales			

GOT main units

	Mod	lel name	Screen size [resolution]	Display			y colors of colors)	Power supply	Memory size	Remarks
		GT1030-HBD*1			Frame color		3-color LED	24VDC		Dedicated to RS-422 connection
		GT1030-HBD2*1					(green, orange, red)	-		Dedicated to RS-232 connection
		GT1030-HBL*1	4.5"	STN monochrome LCD		Monochrome	(green, orange, reu)	5VDC	1.5MB	Dedicated to RS-422FX connect
		GT1030-HBDW*1	[288 × 96 dots]	(High contrast)	Black	(black/white)	3-color LED	24VDC	1.5IVID	Dedicated to RS-422 connection
		GT1030-HBDW2*1					(white, pink, red)	-		Dedicated to RS-232 connection
	GT1030	GT1030-HBLW*1					(white, pink, red)	5VDC		Dedicated to RS-422FX connect
	G11030	GT1030-HWD*1					3-color LED	24VDC		Dedicated to RS-422 connection
		GT1030-HWD2*1								Dedicated to RS-232 connection
		GT1030-HWL*1	4.5"	STN monochrome LCD	White	Monochrome	(green, orange, red)	5VDC	1.5MB	Dedicated to RS-422FX connect
		GT1030-HWDW*1	[288 × 96 dots]	(High contrast)	vvriite	(black/white)		24VDC		Dedicated to RS-422 connection
		GT1030-HWDW2*1					3-color LED	-		Dedicated to RS-232 connection
		GT1030-HWLW*1	3.7" STN				(white, pink, red)	5VDC	7	Dedicated to RS-422FX connect
T10		GT1020-LBD				Monochrome		24VDC		Dedicated to RS-422 connection
		GT1020-LBD2						-		Dedicated to RS-232 connection
		GT1020-LBL		STN monochrome LCD				5VDC	510KD	Dedicated to RS-422FX connect
		GT1020-LBDW	[160 × 64 dots]	STN monochrome LCD	Black	(black/white)		24VDC	- 512KB	Dedicated to RS-422 connection
		GT1020-LBDW2					3-color LED	-		Dedicated to RS-232 connection
	074000	GT1020-LBLW					(white, pink, red)	5VDC	7	Dedicated to RS-422FX connect
	GT1020	GT1020-LWD						24VDC		Dedicated to RS-422 connectio
		GT1020-LWD2					3-color LED	-		Dedicated to RS-232 connectio
		GT1020-LWL	3.7"	STN monochrome LCD	White	Monochrome	(green, orange, red)	5VDC	512KB	Dedicated to RS-422FX connect
		GT1020-LWDW	[160 × 64 dots]	3 IN HIGHOGHOME LCD	vvnite	(black/white)		24VDC	J 312KB	Dedicated to RS-422 connectio
		GT1020-LWDW2					3-color LED	-		Dedicated to RS-232 connectio
		GT1020-LWLW	7				(white, pink, red)	5VDC	1	Dedicated to RS-422FX connect

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

Product name	Model name	Specifications				Appli	cable n	nodel		
Flouter name	wouername	Specifications	G	iT16	GT15	GT14	GT12	GT11	Handy GOT	GT1
	GT15-QBUS	Bus connection (1ch) unit standard model for QCPU (Q mode)/motion controller CPU (Q series)		•		-	Ι		-	-
	GT15-QBUS2	Bus connection (2ch) unit standard model for QCPU (Q mode)/motion controller CPU (Q series)		•	•	-	-	-	-	-
	GT15-ABUS	Bus connection (1ch) unit standard model for QnA/ACPU/motion controller CPU (A series)		•	•	-	-	-	-	-
	GT15-ABUS2	Bus connection (2ch) unit standard model for QnA/ACPU/motion controller CPU (A series)		•	•	-	-	-	-	-
sus connection unit	GT15-75QBUSL	Bus connection (1ch) unit thin model ^{*1} for QCPU (Q mode)/motion controller CPU (Q series)		•	•	-	-	-	-	-
	GT15-75QBUS2L	Bus connection (2ch) unit thin model ^{*1} for QCPU (Q mode)/motion controller CPU (Q series)		•	•	-	-	-	-	-
	GT15-75ABUSL	Bus connection (1ch) unit thin model ^{*1} for QnA/ACPU/motion controller CPU (A series)		•	•	-	-	-	-	-
	GT15-75ABUS2L	Bus connection (2ch) unit thin model ^{*1} for QnA/ACPU/motion controller CPU (A series)		•	•	-	-	-	-	-
	GT15-RS2-9P	RS-232 serial communication unit (D-sub 9-pin (male))				-	-	-	-	-
	GT15-RS4-9S	RS-422/485 serial communication unit (D-sub 9-pin (female))*2*	3			-	-	-	-	-
erial communication unit	GT15-RS4-TE	RS-422/485 serial communication unit (terminal block) ^{*2} * Usable only when connecting to temperature controllers/indicating controllers via RS-485 or in GOT	multi-drop connection	•		-	-	_	-	-
	GT15-RS2T4-9P	RS-422 conne	ector: 9-pin	* 6	• *4	-	-	-	-	-
IS-422 conversion unit	GT15-RS2T4-25P	RS-232→RS-422 conversion unit RS-422 conne	ector: 25-pin	● * 6 * 7	• *4	-	-	-	-	-
1ELSECNET/H	GT15-J71LP23-25	Standard station unit (optical loop)				-	-	_	-	-
ommunication unit	GT15-J71BR13	Standard station unit (coaxial bus)				-	-	—	-	-
C-Link IE Controller Network ommunication unit	GT15-J71GP23-SX	Standard station unit (optical loop)		•	•	-	-	-	-	-
C-Link IE Field Network communication unit	Interference GT15-75QBUSL For QA/ACPU/motion controller GT15-75QBUSL Bus connection (1ch) unit thin m for QCPU (Q mode)/motion con GT15-75QBUS2L Bus connection (2ch) unit thin m for QCPU (Q mode)/motion con GT15-75ABUSL GT15-75ABUSL Bus connection (2ch) unit thin m for QA/ACPU/motion controller GT15-75ABUSL Bus connection (2ch) unit thin m for QA/ACPU/motion controller GT15-75ABUSL Bus connection (2ch) unit thin m for QA/ACPU/motion controller GT15-RS2-9P RS-232 serial communication un GT15-RS4-9S GT15-RS4-9E RS-422/485 serial communication w Usable only when connecting to temperature of GT15-RS2T4-29P Conversion unit GT15-RS2T4-9P GT15-T3/TLP23-25 Standard station unit (optical loc mication unit GT15-J71EP13-3 Standard station unit (optical loc conversion unit GT15-J71GF13-T2 Intelligent device station unit (communication unit GT15-J71GF13-T2 Intelligent device station unit (su GT15-J71GF13-T2 ieth Network communication unit GT15-J716F13-T2 intelligent device station unit (su conv	Intelligent device station unit				—	-	-	-	-
C-Link communication unit	GT15-J61BT13	Intelligent device station unit (supporting CC-Link version 2)				-	-	-	-	-
thernet communication unit	GT15-J71E71-100	Ethernet (100Base-TX) unit		-		-	-	-	-	
erial multi-drop connection unit	GT01-RS4-M	For GOT multi-drop connection			*5		• *5	• *5	-	
onnector conversion adapter	GT10-9PT5S	Conversion connector between D sub 9-pin male and Europe termin	nal block 5-pin	-	-		• *5	• *5	-	
S-232/485 Signal Conversion Adapter	GT14-RS2T4-9P (NEW)	Conversion adapter from RS-232 to RS-485		-	-		-	-	-	-
C Link interfece unit	GT11HS-CCL	CC Link interface unit for Llands COT		-	-	-	-	-		-
C-Link interface unit	GT11H-CCL	CC-Link interface unit for Handy GOT		-	-	-	-	_		-

Optional units

Broduct name	Madal name	Crecifications			Appli	cable r	nodel		
GT15-PRN * Ca ultimedia unit GT15-PRN * Ca ideo input unit GT16M-MMR For vi GB input unit GT16M-V4 For vi GB input unit GT16M-R2 For vi ideo/RGB input unit GT16W-V4R1 For vi GB output unit GT16W-V4R1 For vi GB output unit GT16W-V4R1 For vi GT15V-75V4R1 For vi GT15V-75V4R1 F card unit GT15-CFCD For at F card unit GT15-CFCD For at GT15-CFEX-C08SET For at GT15-SOUT ound output unit GT15-DIOR For ex Katernal input/output unit GT15-DION For ex	Specifications	GT16	GT15	GT14	GT12	GT11	Handy GOT	GT10	
Brintor unit	CT15 DDN	USB slave (PictBridge) for printer connection, 1ch			_	_	_		_
Finterunit	GI IS-FRI	* Cable for printer connection (3m) included		-					
Multimedia unit	GT16M-MMR	For video input (NTSC/PAL) 1ch Record video images/play video files	•*2	1	_	-	-	-	1
Video input unit	GT16M-V4	For video input (NTSC/PAL) 4ch	•*2	-	—	-	-	-	-
video input unit	GT15V-75V4	For video input (NTSC/PAL) 4ch	-	• *3	-	-	-	-	-
DCD insult unit	GT16M-R2	For analog RGB input 2ch	•*2	-	—	-	-	-	-
RGB input unit	GT15V-75R1	For analog RGB input 1ch	-	• *3	-	-	-	-	-
Video /DCD input unit	GT16M-V4R1	For video input (NTSC/PAL) 4ch / analog RGB 1ch composite input	* 2	-	-	-	-	-	-
Video/RGB input unit	GT15V-75V4R1	For video input (NTSC/PAL) 4ch / analog RGB 1ch composite input	-	• *3	—	-	—	-	-
DCD autout unit	ut unit GT15V-75V4 For video input (NT3 ut unit GT16M-R2 For analog RGB inp GT15V-75R1 For analog RGB inp GT16M-V4R1 For video input (NT3 GT16M-V4R1 For video input (NT3 GT15V-75V4R1 For video input (NT3 GT15V-75V4R1 For video input (NT3 GT15M-ROUT For analog RGB out unit GT15V-75ROUT GT15V-75ROUT For analog RGB out unit GT15-CFCD	For analog RGB output 1ch	•*2	-	-	-	—	-	-
RGB oulput unit	GT15V-75ROUT	For analog RGB output 1ch	-	• *3	-	-	-	-	-
CF card unit	GT15-CFCD	For additional CF card port (B drive) on the back of the GOT			-	-	-	-	-
CF card extension unit	GT15-CFEX-C08SET	For additional CF card port (B drive) at the front of the control panel*1			-	-	—	-	-
Sound output unit	GT15-SOUT	For sound output			-	-	-	-	-
External innut/externat runit	GT15-DIOR	For external input/output devices and operation panel connection (negative common input / source type output)			_	-	_	-	-
External input/output unit	Imit GT15-PRN USB slave (PictBridge) for printer * Cable for printer connection (3 lia unit GT16M-MMR For video input (NTSC/PAL) 1cl put unit GT16M-V4 For video input (NTSC/PAL) 4cl GT15V-75V4 For video input (NTSC/PAL) 4cl GT16M-V4 For video input (NTSC/PAL) 4cl GT16M-V4 For video input (NTSC/PAL) 4cl GT16M-R2 For analog RGB input 2ch GT15V-75R1 For analog RGB input 1ch GT16M-V4R1 For video input (NTSC/PAL) 4cl GT16M-V4R1 For video input (NTSC/PAL) 4cl GT15V-75R1 For analog RGB input 1ch GT15V-75V4R1 For video input (NTSC/PAL) 4cl GT15V-75NQUT For analog RGB output 1ch unit GT15-CFCD For additional CF card port (B di extension unit GT15-CFEX-C08SET For additional CF card port (B di uput unit GT15-DIOR For external input/output devices and operati	For external input/output devices and operation panel connection (positive common input / sink type output)			-	-	-	-	-

*2 : Excluding the GT16____-VNB_ and GT1655.
 *3 : Only the GT1585V and GT1575V are supported.

INDEX For r Designers For r Initial Startup & Operations For Maintenand Personnel GT10 iQ Platform MELSEC Process Control Specifications, External Dimension

List of Connec Models, etc

Software

Product name	Model name		С	ontents
HMI Screen Design Software MELSOFT GT Works3 Version1	SW1DNC-GTWK3-E	Single license	*CD-ROM	English version
HIMI SCIEETI DESIGIT SOTWATE MELSOFT OT WORKS VEISIONT	SW1DNC-GTWK3-EA	Multiple-licence*1	*CD-ROM	English version
FA Integrated Engineering Software MELSOFT iQ Works *3	SW1DNC-IQWK-E	Single license	*CD-ROM	English version
FA Integrated Engineering Software MELSOFT Q Works	SW1DND-IQWK-E	Single license	*DVD-ROM	English version
License key for GT SoftGOT1000*4	GT15-SGTKEY-U	For USB port		·
Personal computer remote operation function (Ethernet) license*5	GT16-PCRAKEY	1 license		
VNC [®] server function license ^{*5}	GT16-VNCSKEY (NEW)	1 license		
 *1 : The desired number of licenses (2 or more) can be purchased. For details, *2 : Multiple-license product and additional license product are also available. 	please contact your local sales offic or more details, please refer to the	e. MELSOFT iQ Works cat	talog (L(NA)08232).	

*2: The product and additional license product are also available. For more details, prease relet to the metcode in the metcode

Options

Product name	Model name		Specifications				cable I	-		
				GT16	GT15	GT14	_	GT11	Handy GOT	_
	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		-	-	-	-	-	-
Juoning In	GT15-90XLTT	Duokiight	For GT1595-XTB	-		-	-	-	-	-
	GT15-80SLTT		For GT1585V-STB /GT1585-STB	-		-	-	-	-	-
	GT15-70SLTT		For GT1575-STB *3	-		-	-	-	-	-
	GT15-70VLTT		For GT1575V-STB_/GT1575-VTB_/GT1575-STB_*4	-		-	-	-	-	-
	GT15-70VLTN		For GT1575-VNB /GT1572-VNB	-		-	-	-	-	-
	GT15-60VLTT		For GT1565-VTB	-		-	-	-	-	-
	GT15-60VLTN		For GT1562-VNB	-		-	-	-	-	-
	GT12-70VLTN		For GT1275-VNB	-	-	-		-	-	-
	GT12-60VLTN		For GT1265-VNB	-	-	-		-	-	-
	GT16-MESB		For MES interface function		-	-	-	-	-	-
	GT15-FNB	Optional function board	(No expansion memory)	_		-	- 1	-	-	- 1
	GT15-QFNB		(No expansion memory)	-	Ŏ	-	-	-	-	- 1
	GT15-QFNB16M	The required optional function	+ 16MB expansion memory	_	Ĭ	-	-	-	-	-
Optional function board	GT15-QFNB32M	board varies depending on the	+ 32MB expansion memory	_		_	_	_	_	<u> </u>
	GT15-QFNB32M GT15-QFNB48M	GOT main unit and function.	+ 48MB expansion memory			_				+
	GT15-MESB48M	For the details, see "Notes for		_		_				+ -
		use" (page 81).	+ 48MB expansion memory	_	-	_	_	• *5	•*9	-
T10 memory loader	GT11-50FNB	For GT1020/GT1020 /fee OD				_		-	- *9	
	GT10-LDR		pject data transfer) no power source required	_	-	_	-	_		
T10 memory board	GT10-50FMB	For GT105 /GT104 (for C								•
	GT16-90PSCB		Clear, 5 sheets	•	-	-	-	-	-	<u> </u>
	GT16-90PSGB	Protective sheet for 15" screen	Anti-glare, 5 sheets		-	-	-	-	-	
	GT16-90PSCW	(for GT16)	Clear (frame: white), 5 sheets	•	-	-	-	-	-	
	GT16-90PSGW	(lot at to)	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	-		-	-	-	-	- 1
	GT15-90PSGW	. ,	Anti-glare (frame: white), 5 sheets	-		-	-	-	-	- 1
	GT16-80PSCB		Clear, 5 sheets		_	-	-	-	-	- 1
-	GT16-80PSGB		Anti-glare, 5 sheets	ĕ	-	-	-	-	-	<u> </u>
	GT16-80PSCW	Protective sheet for 12.1" screen	Clear (frame: white), 5 sheets	Ŏ	-	-	-	-	-	<u> </u>
	GT16-80PSGW	(for GT16)	Anti-glare (frame: white), 5 sheets	ě	-	_	-	-	_	- 1
				•	_	_	-	-	-	-
	GT16-80PSCB-012		Clear (USB protective cover type), 5 sheets*14	-	-	_	_		_	
	GT15-80PSCB	Desta di un alca di ca do di cama a	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	-		-	-	-	-	-
	GT15-70PSCW	(for GT15)	Clear (frame: white), 5 sheets	-	Ĭ	-	-	-	-	-
Protective sheet	GT15-70PSGW	/	Anti-glare (frame: white), 5 sheets	-	ŏ	-	-	-	-	- 1
	GT11-70PSCB	Protective sheet for 10.4" screen (for GT12)	Clear, 5 sheets	_	-	-		-	-	- 1
	GT16-60PSCB		Clear, 5 sheets		-	_	-	-	-	<u> </u>
	GT16-60PSGB		Anti-glare, 5 sheets		-	-	-	-	-	-
	GT16-60PSCW	Protective sheet for 8.4" screen	Clear (frame: white), 5 sheets		-	_	_	_	_	-
		(for GT16)	Anti-glare (frame: white), 5 sheets	•	_	-	_	_	_	<u> </u>
	GT16-60PSGW GT16-60PSCB-012					_				
			Clear (USB protective cover type), 5 sheets*14			_	_		_	+-
	GT15-60PSCB	Destastive sheet for 0.4	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		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	Protoctive check for 5 7" correct	Anti-glare, 5 sheets		-	-	-	-	-	
	GT16-50PSCW	Protective sheet for 5.7" screen	Clear (frame: white), 5 sheets		-	-	-	-	-	
	GT16-50PSGW	(for GT16)	Anti-glare (frame: white), 5 sheets	Ŏ	-	-	-	-	-	- 1
	GT16-50PSCB-012		Clear (USB protective cover type), 5 sheets*14	Ŏ	-	-	-	-	-	- 1
	GT15-50PSCB		Clear, 5 sheets	_		-	-	-	-	- 1
	GT15-50PSGB	Protective sheet for 5.7" screen	Anti-glare, 5 sheets	_		_	- 1	-	-	<u>+</u> _
	GT15-50PSCW	(for GT15)	Clear (frame: white), 5 sheets	_		_	-	_	-	
	GT15-50PSGW		Anti-glare (frame: white), 5 sheets	_		_	_			+ -
										-
	GT14-50PSCB	Destantion should be 7	Clear, 5 sheets	-	-		-	-	-	
	GT14-50PSGB	Protective sheet for 5.7" screen	Anti-glare, 5 sheets	-	-		-	-	-	
	GT14-50PSCW NEW	(for GT14)	Clear (frame: white), 5 sheets	-	-		-	-	-	-
	GT14-50PSGW NEW		Anti-glare (frame: white), 5 sheets	-	-		-	-	-	
	GT11-50PSCB		Clear, 5 sheets	-	-	-	-		-	-
	GT11-50PSGB	Protective sheet for 5.7" screen	Anti-glare, 5 sheets	-	-	-	-		-	- 1
			Clear (frame: white), 5 sheets	_	-	-	_		_	-
	GT11-50PSCW	(IOFGIII)	Glear (frame, while), 5 sheets						1	

Product na	me	Model name			0.7.4			cable			OTIC		
			Drotostive sheet for		cifications		GT16	GT15	GT14	GT12	GT11	Handy GOT	GT10
		GT11H-50PSC GT10-50PSCB	Protective sneet for	5.7" screen (for GT11 Handy GOT)	Clear, 5 sheets Clear, 5 sheets		_	_	_	_	-	•	-
		GT10-50PSGB	Protective	neet for 5.7" screen	Anti-glare, 5 sheets		-	-	-	_	-	_	
		GT10-50PSCW	(for GT105		Clear (frame: white),	5 sheets	_	_	-	_	-	_	
		GT10-50PSGW		-1	Anti-glare (frame: wh		_	-	-	_	-	- 1	
		GT10-40PSCB			Clear, 5 sheets	, - 5.10010	-	-	-	-	-	-	•
		GT10-40PSGB	Protective sh	neet for 4.7" screen	Anti-glare, 5 sheets		-	-	-	-	-	- 1	•
		GT10-40PSCW	(for GT104		Clear (frame: white),	5 sheets	-	-	-	-	-	- 1	•
Protective sheet		GT10-40PSGW	1	-,	Anti-glare (frame: wh		-	-	-	-	-	- 1	•
		GT10-30PSCB			Clear, 5 sheets	,, = 5.10010	-	-	-	-	-	- 1	•
		GT10-30PSGB	Protective sh	neet for 4.5" screen	Anti-glare, 5 sheets		-	- 1	-	-	-	-	•
		GT10-30PSCW	(for GT1030)		Clear (frame: white),	5 sheets	-	-	-	-	-	-	•
		GT10-30PSGW	1	,	Anti-glare (frame: wh		-	- 1	-	_	- 1	-	•
		GT10-20PSCB			Clear, 5 sheets	, - 5.10010	_	-	-	-	-	-	•
		GT10-20PSGB	Protective sh	neet for 3.7" screen	Anti-glare, 5 sheets		-	- 1	-	_	- 1	-	•
		GT10-20PSCW	(for GT1020)		Clear (frame: white),	5 sheets	_	- 1	-	_	- 1	- 1	
		GT10-20PSGW		/	Anti-glare (frame: wh		_	_	_	_	-	-	
		GT16-UCOV	+		For 15"/12.1"/10.4"/8		-	-	-	_	-		
		GT16-50UCOV	Protectivo or	over for USB interface	For 5.7"			-	_	_			
ISB protoctive cour	Nr.	GT15-UCOV	-			A*	_	-	_	_	-	-	_
USB protective cover			on main unit		For 15"/12.1"/10.4"/8	.++	_	_		_	-	_	
			(for replacen	nem)	For 5.7"				•				
		GT11-50UCOV			For 5.7"		-		-	-		-	-
		GT05-90PCO		cover for 15" screen			•		-	-	-	-	-
		GT05-80PCO		cover for 12.1" screen			•	•	-	-	-	-	-
		GT05-70PCO		cover for 10.4" screen			•	•	-	•	-	-	-
		GT05-60PCO	-	cover for 8.4" screen				•	-		-	-	-
Dil resistant cover*7		GT16-50PCO		cover for 5.7" screen				-	-	-	-	-	-
		GT05-50PCO		cover for 5.7" screen			-			-		-	
		GT10-40PCO	Oil resistant	cover for 4.7" screen			-	-	-	-	-	-	
		GT10-30PCO	Oil resistant	cover for 4.5" screen			-	-	-	-	-	-	
		GT10-20PCO	Oil resistant	cover for 3.7" screen			-	-	-	-	-	-	•
Emorgonov atop quitch quard		GT16H-60ESCOV		ental operation prevention of em	ergency stop switch (for GT	16 Handy GOT)	-	-	-	-	-		_
Emergency stop swit	cn guard	GT11H-50ESCOV		ental operation prevention of em			-	-	- 1	-	- 1	•	-
		GT15-90STAND	Stand for 15				•	•	-	_	- 1	_	-
		GT15-80STAND	Stand for 12				•	•	-	_	- 1	- 1	-
Stand		GT15-70STAND	Stand for 12				•		_	•	_	_	_
		GT05-50STAND	Stand for 10						-	_		-	•
			128MB flash				-	-	-		-		-
		GT05-MEM-128MC				•		-	•		•	_	
		GT05-MEM-256MC	256MB flash				•			•		•	
		GT05-MEM-512MC	512MB flash				•		-			•	_
	CF card	GT05-MEM-1GC	1GB flash R				•	•	-	•	•	•	-
Memory card		GT05-MEM-2GC	2GB flash R					•	-		•	•	-
		GT05-MEM-4GC	4GB flash R				•	-	-	-	-	• *10	-
		GT05-MEM-8GC	8GB flash R					-	-	-	-	• *10	-
		GT05-MEM-16GC	16GB flash F	-				-	-	-	-	• *10	
	SD card	L1MEM-2GBSD	2GB SD mer				-	-		-	-	-	-
	3D caru	L1MEM-4GBSD	4GB SDHC			-	-		-	-	-	-	
Aemory card adapte	ər	GT05-MEM-ADPC	CF card→m	emory card (TYPE II) co	nversion adapter				-				-
		GT15-70ATT-98		A985GOT *		07:07			-		-	-	-
			Attachment for	A870GOT-SWS	A8GT-70GOT-TB	GT167							
		GT15-70ATT-87	10.4" type	A870GOT-TWS	A8GT-70GOT-SW	→GT157	•	•	-	•	_	-	-
				A8GT-70GOT-TW	A8GT-70GOT-SB	GT1275	1	1			1	1	
		GT15-60ATT-97		A97_GOT		1	•	•	-	•	- 1	-	-
		GT15-60ATT-96	1	A960GOT		1		•	-	ě	- 1	<u> </u>	-
			1	A870GOT-EWS	A77GOT-EL-S5	1	<u> </u>	<u> </u>			1	1	<u> </u>
Attachment		GT15-60ATT-87	Attachment for	A870GOT-EW3	A77GOT-EL-S3	GT166			_		_	_	_
		G110-00A11-07	8.4" type	A8GT-70GOT-EB	A77GOT-EL	→GT156							
			0.4 type	A77GOT-CL-S5	A77GOT-L-S5	GT1265						+	
		CT15 COATT 77		A77GOT-CL-S5 A77GOT-CL-S3			•		_		_	_	
		GT15-60ATT-77			A77GOT-L-S3				-		-	-	
				A77GOT-CL	A77GOT-L	OTIOSS							
		GT15-50ATT-95W	Attachment for	A956WGOT	F940WGOT	GT1655 GT155				-		-	-
		GT15-50ATT-85	5.7" type	A85 GOT		→ GT145	•	•	•	_	•	_	_
						GT115	-	-	-		-		· · ·
Battery		GT15-BAT		ckup of clock data and mai			*11		-	-	-	*13	-
Excluding the GT10	or later. or earlier. or later. 5 -QBDQ 20.	GT11-50BAT and GT115Q_BDA. n be used in the actual environmer r, the front USB interface and huma		SRAM use *12 : Can be us system log *13 : Can be us	pe data, time action set value sed only with the GT16 He GT1655. Application: Bai er area (for replacement) sed only with the GT1655. g data, SRAM user area (g data, SRAM user area g data, SRAM user area face USB interface canno	tery for backup o Application: Batt for replacement) indy. Application: for replacement)	ery for ba Battery f	ickup of c or backup	lock data, of clock	mainten data, mai	ance time intenance	e notificati e time noti	on data, fication data

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

Manual title	Catalog No.
GT Designer3 Version1 Screen Design Manual (Fundamentals)	SH-080866ENG
T 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
OT1000 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

Manual title	Catalog No.
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
GT14 User's Manual	JY997D44801C
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

	Product name	Model name	Cable	Third party products	Application	0.5		oplica			Handy
			length	*1		GT16	GT15	6 GT14	GT12	GT11	GOT
		GT15-QC06B	0.6m	-							
	QCPU extension cable	GT15-QC12B	1.2m		For connection between QCPU and GOT						
	GOT-to-GOT connection cable	GT15-QC30B	3m	0	For connection between GOT and GOT			-	-		-
Bus connection		GT15-QC50B	5m		For connection between GOT and GOT						
cable for		GT15-QC100B	10m	1							
QCPU (Q mode)		GT15-QC150BS	15m								
	Long-distance connection	GT15-QC200BS	20m	1	For long-distance (13.2m or more) connection between						
	cable for QCPU	GT15-QC250BS	25m		QCPU and GOT (A9GT-QCNB required)			_	_	•	_
	GOT-to-GOT long-distance				For long-distance connection between GOT and GOT		-			-	
	connection cable	GT15-QC300BS			For long-distance connection between GOT and GOT						
		GT15-QC350BS	35m								
Bus extension conn	lector box	A9GT-QCNB	-	-	Used for QCPU long-distance (13.2m or more) bus connection			-	-		-
		GT15-C12NB	1.2m		For connection between QnA/ACPU/motion controller CPU						
		GT15-C30NB	3m					-	-		-
		GT15-C50NB	5m	1	(A series, extension base) and GOT						
		GT15-AC06B	0.6m					-			
		GT15-AC12B	1.2m	-	For connection between QnA/ACPU/motion controller CPU						
	Large CPU							-	-		-
	extension cable	GT15-AC30B	3m	-	(A series, extension base) and A7GT-CNB						
		GT15-AC50B	5m								
		GT15-A370C12B-S1	1.2m		For connection between motion controller CPU			_	_	•	_
		GT15-A370C25B-S1	2.5m		(A series, main base) and GOT			-	-	•	_
		GT15-A370C12B	1.2m		For connection between motion controller CPU						
		GT15-A370C25B	2.5m	0	(A series, main base) and A7GT-CNB			-	-	•	-
								<u> </u>	-		
		GT15-A1SC07B	0.7m	-	For connection between QnAS/AnSCPU/motion controller	-	-			-	
		GT15-A1SC12B	1.2m		CPU (A series) and GOT		•	-	-	•	-
Bus connection		GT15-A1SC30B	3m								
cable for	Small CBL extension white	GT15-A1SC50B	5m	0	For connection between QnAS/AnSCPU and GOT	٠	•	-	-		-
QnA/ACPU/motion	Small CPU extension cable	GT15-A1SC05NB	0.45m	1							
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			-	-		-
		GT15-C100EXSS-1	10.6m		For long-distance connection between QnAS/AnSCPU/						
	Small CPU long-distance				motion controller CPU (A series) and GOT						
	connection cable	GT15-C200EXSS-1	20.6m	0	For long-distance connection between A7GT-CNB and GOT		•	-	-		-
		GT15-C300EXSS-1	30.6m		*Set of GT15-EXCNB and GT15-C_BS						
						<u> </u>		+			
		GT15-C07BS	0.7m	-							
	GOT-to-GOT	GT15-C12BS	1.2m	0	For connection between GOT and GOT			_	-	•	_
	connection cable	GT15-C30BS	3m								
		GT15-C50BS	5m								
		GT15-C100BS	10m								
	GOT-to-GOT long-distance	GT15-C200BS	20m		For connection between GOT and GOT		•	_	_		_
	connection cable			+							
		GT15-C300BS	30m	-		-	-	<u> </u>		-	
	A0J2HCPU connection cable	GT15-J2C10B	1m	0	For connection between power supply unit (A0J2-PW) for A0J2HCPU and GOT	•	•	-	-	•	-
Bus connector conv	version 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						
	A bus cable (two-pack)	GT15-AFC	_	0	bus cable for GOT1000		•	-	-		-
- Since Core Set IOF A	tous cable (two-pack)					-		+	-	-	
	cable	GT16-C02R4-9S	0.2m	0	For connection between RS-422/485 (connector) of GT16 and RS-422 cable (D-sub 9 pins)		-	-	-	-	-
RS-422 conversion		GT16-C02R4-25S	0.2m	0	For connection between RS-422/485 (connector) of GT16 and RS-422 cable (D-sub 25 pins)		-	-	- 1	-	-
RS-422 conversion						-					
RS-422 conversion		FA-LTBGTR4CBL05	0.5m		RS-485 terminal block conversion unit	-					
	lock conversion unit	FA-LTBGTR4CBL05 FA-LTBGTR4CBL10	0.5m 1m	0		•	_	_	_	_	_
RS-422 conversion RS-485 terminal bl	lock conversion unit	FA-LTBGTR4CBL10	1m	0	RS-485 terminal block conversion unit		-	-	-	-	-
	lock conversion unit	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20	1m 2m	0	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit		_	_	-	-	
	lock conversion unit	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P	1m 2m 3m	0	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU		_	_	_	-	-
		FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P	1m 2m 3m 10m	· ·	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT		-	-	-	-	
	QnA/A/FXCPU	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P	1m 2m 3m	- -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU	•	•		•	•	
		FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P	1m 2m 3m 10m	- -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between FA-CNV∭CBL and GOT	•	•		•	•	
	QnA/A/FXCPU	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P	1m 2m 3m 10m 20m	-	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between FA-CNV□CBL and GOT For connection between serial communication unit and GOT For connection between AJ65BT-G4-S3 and GOT	•	•		•	•	
	QnA/A/FXCPU direct connection cable	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT01-C300R4-25P	1m 2m 3m 10m 20m 30m 3m	- - -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between FA-CNV□CBL and GOT For connection between AJ65BT-G4-S3 and GOT For connection between QA/A/FXCPU (D-sub 25-pin	•	•		•	•	•*3
	QnA/A/FXCPU direct connection cable Computer link	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C30R4-25P GT10-C100R4-25P	1m 2m 3m 10m 20m 30m 3m 10m	-	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between FA-CNV_CBL and GOT For connection between AJ65BT-G4-S3 and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT	•	•		•	•	
	QnA/A/FXCPU direct connection cable Computer link	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C100R4-25P GT10-C200R4-25P	1m 2m 3m 10m 20m 30m 3m 10m 20m	- - -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between RA-CNV_CBL and GOT For connection between serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit	•	•		•	•	•*3
	QnA/A/FXCPU direct connection cable Computer link	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C30R4-25P GT01-C200R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C300R4-25P GT10-C300R4-25P	1m 2m 3m 10m 20m 30m 3m 10m 20m 30m	- - -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between FA-CNV_CBL and GOT For connection between AJ65BT-G4-S3 and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT	•	•		•	•	•*3
	QnA/A/FXCPU direct connection cable Computer link connection cable	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P	1m 2m 3m 20m 30m 3m 10m 20m 30m 3m	- - -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between FA-CNV[]CBL and GOT For connection between serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT	•	•		•	•	•*3
	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C300R4-25P GT01-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C100R4-25P GT10-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-6C	1m 2m 3m 10m 20m 30m 3m 10m 20m 30m 30m 30m	- - - - - - - -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between Serial communication unit and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connection) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT	•	•	•	•	•	•*3
	QnA/A/FXCPU direct connection cable Computer link connection cable	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P	1m 2m 3m 20m 30m 3m 10m 20m 30m 3m	- - -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between FA-CNV[]CBL and GOT For connection between serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT	•	•		- -	•	•*3
	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C300R4-25P GT01-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C100R4-25P GT10-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-6C	1m 2m 3m 10m 20m 30m 3m 10m 20m 30m 30m 30m	- - - - - - - -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between Serial communication unit and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connection) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT	•	•	•	- -	•	•*3
	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C30R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C	1m 2m 3m 10m 20m 30m 30m 30m 30m 30m 20m 30m	- - - - - - - -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between Serial communication unit and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connection) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT	•	•	•	- -	•	•*3
	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C	1m 2m 3m 10m 20m 30m 30m 30m 30m 30m 20m 30m 10m	- - - - - - - -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between Serial communication unit and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connection) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT	•	•	•	 	•	•*3
	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C300R4-6C GT09-C100R4-6C GT09-C300R4-6C GT09-C300R4-6C GT01-C10R4-8P GT01-C30R4-8P	1m 2m 3m 20m 30m 30m 30m 30m 30m 30m 30m 30m 30m 3	- - - - - - - -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between Serial communication unit and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connection) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT	• •*6 	•	•		•	•*3 •*3
	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-8C GT01-C10R4-8P GT01-C100R4-8P GT01-C100R4-8P	1m 2m 3m 10m 30m 30m 30m 30m 30m 10m 30m 10m 30m	- - - - - - - -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between FA-CNV_CBL and GOT For connection between serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit for connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between computer link unit and GOT	•	•	•	- - •	•	•*3 •*3
RS-485 terminal bl	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C GT01-C10R4-8P GT01-C300R4-8P GT01-C300R4-8P	1m 2m 3m 20m 30m 3m 20m 30m 3m 10m 20m 30m 3m 10m 20m	- - - - - - - -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between RA-CNV_CBL and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT	• •*6 	•	•		•	•*3 •*3
RS-485 terminal bl	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C30R4-6C GT09-C30R4-6C GT09-C30R4-6C GT09-C30R4-6C GT01-C10R4-8P GT01-C30R4-8P GT01-C30R4-8P GT01-C300R4-8P GT01-C300R4-8P	1m 2m 3m 20m 30m 3m 10m 30m 3m 10m 20m 30m 30m 30m 30m 30m 30m	- - - - - - - -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between RA-CNV_CBL and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between Serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT	• •*6 	•	•		•	•*3 •*3
RS-485 terminal bl	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C300R4-6C GT09-C100R4-8C GT09-C300R4-6C GT09-C300R4-8P GT01-C300R4-8P GT01-C300R4-8P GT01-C200R4-8P GT01-C200R4-8P GT01-C200R4-8P GT01-C200R4-8P GT01-C200R4-8P GT01-C200R4-8P	1m 2m 3m 20m 30m 30m 30m 30m 30m 30m 30m 10m 20m 30m 10m 20m 30m 11m	-	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between GNA/GCPUmotion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between computer link unit and GOT For connection between RYCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT	• •*6 	•	•		•	•*3 •*3
RS-485 terminal bl	OnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C30R4-25P GT01-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C GT01-C10R4-8P GT01-C300R4-8P GT01-C300R4-8P GT01-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C30R4-8P GT10-C30R4-8P	1m 2m 3m 10m 20m 30m 30m 30m 30m 30m 30m 10m 30m 10m 20m 30m 10m 30m 30m	-	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between RA-CNV_CBL and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between Serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT	• •*6 	•	•		•	•*3 •*3
RS-485 terminal bl	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C GT01-C10R4-8P GT01-C300R4-8P GT01-C300R4-8P GT01-C300R4-8P GT10-C300R4-8P GT10-C100R4-8P GT10-C100R4-8P GT10-C100R4-8P	1m 2m 3m 10m 20m 30m 3m 10m 20m 30m 3m 10m 20m 30m 11m 30m 11m 30m 11m	-	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between GNA/GCPUmotion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between computer link unit and GOT For connection between RYCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT	• •*6 	•	•		•	•*3 •*3
RS-485 terminal bl	OnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C300R4-8C GT09-C100R4-8C GT09-C100R4-8P GT01-C300R4-8P GT01-C100R4-8P GT01-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P	1m 2m 3m 20m 30m 3m 10m 20m 30m 30m 10m 20m 30m 11m 30m 10m 20m 30m	-	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between GNA/GCPUmotion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between computer link unit and GOT For connection between RYCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT	• •*6 	•	•		•	•*3 •*3
RS-485 terminal bl	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C GT01-C10R4-8P GT01-C300R4-8P GT01-C300R4-8P GT01-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C100R4-8P GT10-C100R4-8P	1m 2m 3m 10m 20m 30m 3m 10m 20m 30m 3m 10m 20m 30m 11m 30m 11m 30m 11m	-	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between RA-CNV_CBL and GOT For connection between serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between Seriel communication unit and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT	• •*6 	•	•		•	•*3 •*3
RS-485 terminal bl	OnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C300R4-8C GT09-C100R4-8C GT09-C100R4-8P GT01-C300R4-8P GT01-C100R4-8P GT01-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P	1m 2m 3m 20m 30m 3m 10m 20m 30m 30m 10m 20m 30m 11m 30m 10m 20m 30m	-	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between GNA/GCPUmotion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between computer link unit and GOT For connection between RYCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT	• •*6 	•	•		•	•*3 •*3
RS-485 terminal bl	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C GT01-C100R4-8P GT01-C300R4-8P GT01-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P	1m 2m 3m 20m 30m 30m 30m 30m 30m 30m 10m 20m 30m 11m 30m 10m 20m 30m 30m 30m	- -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between RA-CNV_CBL and GOT For connection between serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between Seriel communication unit and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT	• •*6 	•	•		•	•*3 •*3
RS-485 terminal bl	OnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C300R4-8C GT09-C100R4-8C GT09-C100R4-8P GT01-C300R4-8P GT01-C100R4-8P GT01-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P	1m 2m 3m 20m 30m 3m 10m 20m 30m 30m 10m 20m 30m 11m 30m 30m 11m 30m 20m	-	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPUmotion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between RA-CNV [CBL and GOT For connection between serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function	• •*6 	•	•		•	•*3 •*3
RS-485 terminal bl	OnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C GT09-C300R4-6C GT01-C100R4-8P GT01-C300R4-8P GT01-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P	1m 2m 3m 20m 30m 30m 30m 30m 30m 30m 10m 20m 30m 11m 30m 10m 20m 30m 30m 30m	- -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between Serial communication unit and GOT For connection between Serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between computer link unit and GOT For connection between serial communication unit (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT	• •*6 	•	•		•	•*3 •*3
RS-485 terminal bl	OnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C100R4-25P GT01-C200R4-25P GT01-C200R4-25P GT01-C200R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C300R4-25P GT09-C30R4-8C GT09-C30R4-8C GT09-C300R4-8C GT09-C300R4-8C GT01-C10R4-8P GT01-C300R4-8P GT01-C300R4-8P GT10-C300R4-8P	1m 2m 3m 10m 20m 30m 30m 30m 30m 30m 10m 20m 30m 10m 20m 30m 10m 20m 30m 11m 10m 20m 30m	- -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPUmotion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between RA-CNV [CBL and GOT For connection between serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function	• •*6 	•	•		•	•*3 •*3
RS-485 terminal bl	OnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT09-C30R4-6C GT09-C30R4-6C GT09-C300R4-6C GT09-C300R4-6C GT01-C300R4-8P GT10-C300R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C10R4-8P GT10-C10R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C10R4-8P GT1	1m 2m 3m 10m 20m 30m 3m 10m 30m 3m 10m 20m 30m 1m 30m 10m 20m 30m 11m 30m 10m 10m 20m 30m	- -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between Serial communication unit and GOT For connection between Serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between computer link unit and GOT For connection between serial communication unit (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT	• •*6 	•	•		•	•*3 •*3
RS-485 terminal bl	OnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT10-C200R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C30R4-6C GT09-C300R4-6C GT09-C300R4-6C GT01-C300R4-8P GT01-C300R4-8P GT01-C300R4-8P GT10-C100R4-8P GT10-C100R4-8P GT10-C300R4-8P GT10-C100R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C100R4-8P GT10-C300R4-8P GT10-C100R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C10R4-8P GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC </td <td>1m 2m 3m 20m 30m 3m 10m 20m 30m 3m 10m 20m 30m 1m 30m 1m 30m 1m 30m 1m 30m 1m 30m</td> <td></td> <td>RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between FACNV_CBL and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between serial communication unit and GOT For connection between serial communication unit and GOT For connection between SCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT *The unit cannot be used with the FX1NC, FX2NC, FX3UC-DIDSS, FX3G. For connection between FXCPU (MINI-DIN 8-pin connector)</td> <td>• •*6 </td> <td>•</td> <td>•</td> <td></td> <td>•</td> <td> \$1 <</td>	1m 2m 3m 20m 30m 3m 10m 20m 30m 3m 10m 20m 30m 1m 30m 1m 30m 1m 30m 1m 30m 1m 30m		RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between FACNV_CBL and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between serial communication unit and GOT For connection between serial communication unit and GOT For connection between SCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT *The unit cannot be used with the FX1NC, FX2NC, FX3UC-DIDSS, FX3G. For connection between FXCPU (MINI-DIN 8-pin connector)	• •*6 	•	•		•	 \$1 <
RS-485 terminal bl	OnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT09-C30R4-6C GT09-C30R4-6C GT01-C30R4-8P GT01-C30R4-8P GT01-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C10R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C10R4-8P GT10-C30R4-8P GT10-C10R4-8P GT10-C10R4-8P GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC	1m 2m 3m 10m 20m 30m 30m 30m 30m 30m 10m 20m 30m 10m 20m 30m 10m 10m 30m 10m 30m 10m 30m 10m 30m 10m 30m 10m 30m 10m 30m 10m 30m 10m 30m 10m 30m 10m 30m 30m 30m 30m 30m 30m 30m 3	- -	RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPUmotion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between RA-CNV_CBL and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connection between QnA/A/FXCPU (D-sub 25-pin connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) w=The unit cannot be used with the FX1NC, FX2NC, FX3UC-DIDSS, FX3G. For connection between FXCPU (MINI-DIN 8-pin connector) and GOT	• •*6 	•	•		•	•*3 •*3
RS-485 terminal bl	OnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT10-C200R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C30R4-6C GT09-C300R4-6C GT09-C300R4-6C GT01-C300R4-8P GT01-C300R4-8P GT01-C300R4-8P GT10-C100R4-8P GT10-C100R4-8P GT10-C300R4-8P GT10-C100R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C100R4-8P GT10-C300R4-8P GT10-C100R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C300R4-8P GT10-C10R4-8P GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC </td <td>1m 2m 3m 20m 30m 3m 10m 20m 30m 3m 10m 20m 30m 1m 30m 1m 30m 1m 30m 1m 30m 1m 30m</td> <td></td> <td>RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connection) and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connection) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between remunication unit and GOT For connection between serial communication function for connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication for connection between FXCPU communication for connection between FXCPU communication for connection between FXCPU communication function for connection between FXCPU communication function</td> <td>• •*6 </td> <td>•</td> <td>•</td> <td></td> <td>•</td> <td> \$1 <</td>	1m 2m 3m 20m 30m 3m 10m 20m 30m 3m 10m 20m 30m 1m 30m 1m 30m 1m 30m 1m 30m 1m 30m		RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connection) and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connection) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between remunication unit and GOT For connection between serial communication function for connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication for connection between FXCPU communication for connection between FXCPU communication for connection between FXCPU communication function for connection between FXCPU communication function	• •*6 	•	•		•	 \$1 <
RS-485 terminal bl	OnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT09-C30R4-6C GT09-C30R4-6C GT01-C30R4-8P GT01-C30R4-8P GT01-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C10R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C10R4-8P GT10-C30R4-8P GT10-C10R4-8P GT10-C10R4-8P GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC	1m 2m 3m 10m 20m 30m 30m 30m 30m 30m 10m 20m 30m 10m 20m 30m 10m 10m 30m 10m 30m 10m 30m 10m 30m 10m 30m 10m 30m 10m 30m 10m 30m 10m 30m 10m 30m 10m 30m 30m 30m 30m 30m 30m 30m 3		RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPUmotion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between RA-CNV_CBL and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connection between QnA/A/FXCPU (D-sub 25-pin connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) w=The unit cannot be used with the FX1NC, FX2NC, FX3UC-DIDSS, FX3G. For connection between FXCPU (MINI-DIN 8-pin connector) and GOT	• •*6 	•	•		•	 \$1 <
RS-485 terminal bl	OnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT09-C30R4-8C GT09-C30R4-8C GT09-C30R4-8C GT09-C30R4-8P GT01-C10R4-8P GT01-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C10R4-8P GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC G	1m 2m 3m 10m 20m 30m 3m 10m 20m 30m 1m 30m 10m 20m 30m 10m 20m 30m 11m 3m 10m 20m 30m 30m		RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPUmotion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between RA-CNV_CBL and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) between QnA/A/FXCPU (D-sub 25-pin connection between QnA/A/FXCPU (D-sub 25-pin connection between QnA/A/FXCPU (D-sub 25-pin connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT	• •*6 	•	•		•	 \$1 <
RS-485 terminal bl	OnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board connection cable Connection cable Connection cable Connection cable	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT09-C30R4-6C GT09-C30R4-6C GT09-C300R4-6C GT09-C300R4-6C GT01-C10R4-8P GT01-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C10R4-8P GT10-C10R4-8P GT10-C10R4-8P GT10-C10R4-8P GT10-C30R4-8P GT10-C10R4-8P GT10-C10R4-8P GT10-C10R4-8P GT10-C10R4-8P GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C200R4-8PC GT10-C200R4-8PC GT10-C200R4-8PC GT10-C200R4-8PC GT10-C10R4-8PC	1m 2m 3m 10m 20m 30m 3m 10m 20m 30m 1m 30m 10m 20m 30m 10m 20m 30m 10m 20m 30m 11m 3m 10m 20m		RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between QnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between Serial communication unit and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between serial communication unit (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication for connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication for connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For replacing a F930GOT unit with the GT1030 series unit	• •*6 	•	•		•	 \$1 <
	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board connection cable	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT09-C30R4-8C GT09-C30R4-8C GT09-C30R4-8C GT09-C30R4-8P GT01-C10R4-8P GT01-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C10R4-8P GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC G	1m 2m 3m 10m 20m 30m 3m 10m 20m 30m 1m 30m 10m 20m 30m 10m 20m 30m 11m 3m 10m 20m 30m 30m		RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between RA-CNV_CBL and GOT For connection between serial communication unit and GOT For connection between QnA/AFXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between SCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication for connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function for connection between FXCPU communication fun	 +6 +6 +6 -	•	•		•	 \$1 <
RS-485 terminal bl	OnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board connection cable Connection cable Connection cable Connection cable	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT09-C30R4-8C GT09-C30R4-8C GT09-C30R4-8C GT09-C30R4-8P GT01-C10R4-8P GT01-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C10R4-8P GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC G	1m 2m 3m 10m 20m 30m 3m 10m 20m 30m 1m 30m 10m 20m 30m 10m 20m 30m 11m 3m 10m 20m 30m 30m		RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPUmotion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between RA-CNV_CBL and GOT For connection between QnA/A/FXCPU (D-sub 25-pin connection between QnA/A/FXCPU (D-sub 25-pin connection between QnA/A/FXCPU (D-sub 25-pin connection between QnA/A/FXCPU (D-sub 25-pin connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For replacing a F930GOT unit with the GT1030 series unit Converts D-sub 9-pin connector loose wire (Europe terminal block) For connection between Q/LCPU and GOT/personal	• •*6 	•	•		•	 \$1 <
RS-485 terminal bl	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board connector conversion cable Connector conversion cable for F930GT1030 replacement	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT09-C30R4-8C GT09-C30R4-8C GT09-C30R4-8C GT09-C30R4-8P GT01-C10R4-8P GT01-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C30R4-8P GT10-C10R4-8P GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC GT10-C10R4-8PC G	1m 2m 3m 10m 20m 30m 3m 10m 20m 30m 1m 30m 10m 20m 30m 10m 20m 30m 11m 3m 10m 20m 30m 30m		RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between CnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between Serial communication unit and GOT For connection between Serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between real communication unit (AJ71QC24(N)-R4) and GOT For connection between real communication unit (MINI-DIN 8-pin connector) and GOT For connection between serial communication unit for connection between serial communication unit (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication for replacing a F330GOT unit with the GT1030 series unit Converts D-sub 9-pin connector base wire (Europe terminal block) For connection between QLCPU and GOT/personal computer (GT SoftGOT1000) (D-sub 9-pin)	 +6 +6 +6 -	•	•	•	•	 \$1 <
RS-485 terminal bl	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board connection cable FX communication function extension board connection cable Connector conversion cable Connector conversion cable for F30-+GT1030 replacement Q/LCPU direct	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT09-C30R4-25P GT09-C30R4-25P GT09-C30R4-25P GT09-C30R4-25P GT09-C30R4-25P GT09-C30R4-28P GT01-C30R4-28P GT01-C30R4-28P GT10-C30R4-28P GT10-C30R4-28P GT10-C30R4-28P GT10-C30R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C30R4-28P	1m 2m 3m 10m 20m 30m 30m 30m 30m 20m 30m 1m 30m 10m 20m 30m 1m 30m 10m 20m 30m 1m 30m 30m 20m 30m 30m 30m 30m 30m 30m 30m 3		RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between Serial communication unit and GOT For connection between QnA/AFXCPU (D-sub 25-pin connector) and GOT For connection between QnA/AFXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between serial communication unit and GOT For connection between serial communication unit and GOT For connection between SCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU distribution extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU and GOT/personal computer (GT SoftGOT indo) (D-sub 9-pin) For connection between promal computer (screen design software) For connection between promal computer (screen design software)	 +6 +6 +6 -	•	•	•	•	 \$1 <
RS-485 terminal bl	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board connection cable Connector conversion cable Connector conversion cable Connector conversion cable Connector conversion cable Q/LCPU direct connection cable	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT09-C30R4-25P GT09-C30R4-25P GT09-C30R4-25P GT09-C30R4-25P GT09-C30R4-25P GT09-C30R4-28P GT01-C30R4-28P GT01-C30R4-28P GT10-C30R4-28P GT10-C30R4-28P GT10-C30R4-28P GT10-C30R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C30R4-28P	1m 2m 3m 10m 20m 30m 30m 30m 30m 20m 30m 1m 30m 10m 20m 30m 1m 30m 10m 20m 30m 1m 30m 30m 20m 30m 30m 30m 30m 30m 30m 30m 3		RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between RS-420/MCBL and GOT For connection between serial communication unit and GOT For connection between a serial communication unit and GOT For connection between serial communication unit and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between recomputer link unit and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT #The unit cannot be used with the FXINC, FX2NC, FX3UC-DISS, FX3G. For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection	 +6 +6 +6 -	•	• • • • • •	•	•	• • • • • • • • • • • • • • • • •
RS-485 terminal bl	QnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board connection cable FX communication function extension board connection cable Connector conversion cable Connector conversion cable for F30-+GT1030 replacement Q/LCPU direct	FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C30R4-25P GT09-C30R4-25P GT09-C30R4-25P GT09-C30R4-25P GT09-C30R4-25P GT09-C30R4-25P GT09-C30R4-28P GT01-C30R4-28P GT01-C30R4-28P GT10-C30R4-28P GT10-C30R4-28P GT10-C30R4-28P GT10-C30R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C10R4-28P GT10-C30R4-28P	1m 2m 3m 10m 20m 30m 30m 30m 30m 20m 30m 1m 30m 10m 20m 30m 1m 30m 10m 20m 30m 1m 30m 30m 20m 30m 30m 30m 30m 30m 30m 30m 3		RS-485 terminal block conversion unit *With cable for connection between RS-422/485 (connector) of GT16 and RS-485 terminal block conversion unit For connection between OnA/ACPU/motion controller CPU (A series)/FXCPU (D-sub 25-pin connector) and GOT For connection between Serial communication unit and GOT For connection between QnA/AFXCPU (D-sub 25-pin connector) and GOT For connection between QnA/AFXCPU (D-sub 25-pin connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between serial communication unit and GOT For connection between serial communication unit and GOT For connection between SCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU distribution extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU distribution extension board (MINI-DIN 8-pin connector) and GOT For connection between FXCPU and GOT For connection between PICPU and GOT For connection be	 +6 +6 +6 -	•	• • • • • •	•	•	• • • • • • • • • • • • • • • • •

Cables

	Dreduct nome	Medelmemo	Cable	Third party	Application		ļ	Applic	able	mode	*2	
	Product name	Model name	length	products *1	Application	GT16	GT15	GT14	GT12	GT11	Handy GOT	GT1
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	
	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)	٠	•	•	•	•	•*3	•
	Computer link connection cable	GT09-C30R2-9P GT09-C30R2-25P	3m 3m	0	For connection between serial communication unit and GOTFor connection between computer link unit and GOT For connection between AJ65BT-R2N and GOT (GT09-C30R2-9P only)	•	•	•	•	•	•*3	
Connector convo	rsion box for Handy GOT	GT16H-CNB-42S	-	-	Converts Handy GOT connector to RJ-45 for terminal block, D-sub connector or Ethernet for each signal type	-	-	-	-	-	*7	-
Sonnector conve	Ision box for Handy GOT	GT11H-CNB-37S	-	-	Converts D-sub 37-pin connector to terminal block and D-sub 9-pin connector	-	-	-	-	-	•*	-
External connection cable		GT16H-C30-42P GT16H-C60-42P GT16H-C100-42P	3m 6m 10m	_	For connection between connector conversion box and Handy GOT	-	-	-	-	-	•*7	_
	FA device, power supply and operation switch connection cable	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	_
		GT11H-C30-37P GT11H-C60-37P GT11H-C100-37P	3m 6m 10m	-	For connection between FA device connection relay cable and GOT	-	-	-	-	-	•**	-
		GT11H-C30 GT11H-C60 GT11H-C100	3m 6m 10m	-	For connection between FA device, power supply and operation switches and GOT	-	-	-	-	_	•**	-
	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	-	-	-	-	_	•**	-
	RS-422, power supply	GT11H-C15R4-8P	1.5m	-	For connection between FXCPU and GOT For connection between power supply and operation switches and GOT	-	-	-	-	-	•*	-
FA device connection relay cable	and operation switch connection cable	GT11H-C15R4-25P	1.5m	-	For connection between A/QnACPU and GOT For connection between power supply and operation switches and GOT	-	-	-	-	-	•*	-
	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	-	-	-	_	-	•*	-
Barcode reader o	connection cable	GT10-C02H-6PT9P	0.2m	-	For connection between barcode reader (D-sub 9-pin, male) and GOT (MINI-DIN 6-pin, male) RS-232	-	-	-	-	-	-	•
	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 cabl	RS-232/USB conversion adapter for data transfer	GT15-C50VG GT10-RS2TUSB-5S	5m 	<u> </u>	For connection between external monitor, personal computer and vision sensor and GOT For connection between personal computer (USB) and GOT (RS-232) (Adapter and personal computer are connected with GT09-C30USB-5P.)	-	-	-	-	-	-	•
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	_	For connection between printer and GOT (printer unit)	•	•	-	-	_	-	-
Extension USB waterproof cable		GT14-CT0EXUSB-45	<u>1m</u> 1m		For extending the USB port of GOT to the control panel	_	-	-	_	-	_	-

**1: FA-LTBGTF#4CBL_ is developed by Mitsubishi Electric Engineering Company Limited and sold through your local sales office. The other products listed are developed by Mitsubishi Electric Engineering Company Limited and sold through your local sales office.
**2: The applicable connection configuration and cable vary depending on the GOT main unit. For more details, see the GOT1000 Series Handbook and the GOT1000 Series Connection Manual.
**3: Can be used noy with the GT105_ and GT104_______
**5: Can be used only with the GT105_ and GT104_______
**6: Can be used only with the GT105_ and GT102______
**6: Can be used only with the GT16 and GT16 main unit, an RS-422 conversion cable (GT16-C02R4-9S) is required.
**7: Can be used only with the GT16 Handy.

Cables for third party FA devices

	Dueductineme	Model name	Cable	Third party	COT composition docting tion		Ар	plica	ble m	odel	*2																				
	Product name	wodel name	length	products *1	GOT connection destination	GT16	GT15	GT14	GT12	GT11	Handy GOT	GT10																			
	Cable for OMRON PLC	GT09-C30R20101-9P	3m		PLC CPU: CPM2A/CQM1(H)/CS1/CJ1/CJ2H/CP1E/C200HX/C200HG/ C200HE/CV500/CV1000/CV2000/CVM1 RS-232C adapter: CPM1-CIF01/CPM2C-CIF01-V1 Cable: CPM2C-CN111/CQM1-CIF02 Serial communication unit/board: CQM1-SCB41/C200HW-COM02/ C200HW-COM05/C200HW-COM06/CS1W-SCB21(-V1)/CS1W-SCB41(-V1)/ CS1W-SCU21(-V1)/CJ1W-SCU21(-V1)/CJ1W-SCB41(-V1)/CP1W-CIE01							•																			
		GT09-C30R20102-25S	3m	1	Connection cable: CQM1-CIF01																										
		GT09-C30R20103-25P	3m	1	Base mount type host link unit: C500-LK201-V1/C200H-LK201-V1																										
	Cable for KEYENCE PLC	GT09-C30R21101-6P	3m]	PLC CPU: KV-700/1000/3000																										
		GT09-C30R21102-9S	3m	1	Multi-communication unit: KV-L20/KV-L20R/KV-L20V (port 1)																										
		GT09-C30R21103-3T	3m	1	Multi-communication unit: KV-L20/KV-L20R/KV-L20V (port 2)																										
	Cable for Sharp Manufacturing	GT09-C30R20601-15P	3m]	PLC CPU: JW-22CU/70CUH/100CUH/100CU																										
	Systems PLC	GT09-C30R20602-15P	3m		PLC CPU: JW-32CUH/33CUH/Z-512J																										
RS-232	Cables for JTEKT PLC	GT09-C30R21201-25P	3m		RS-232/RS-422 converter: TXU-2051																										
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		'		1	1 '	i I	i İ	i			ĺ					ĺ	i I	1		PLC CPU: T2N							
		GT09-C30R20401-15P	3m	1	PLC CPU: Large-size H series/H200 to 252 series/H series board type/EH-150 series Intelligent serial port module: COMM-H/COMM-2H																										
	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		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																										
	Cable for Panasonic Corporation	GT09-C30R20902-9P	3m	1	PLC CPU: FP2/FP2SH/FP3/FP5/FP10(S)/FP10SH/FP-M Computer communication unit: AFP2462/AFP3462/AFP5462							•																			
	PLC	GT09-C30R20903-9P	3m	1	PLC CPU: FP1-C24C/C40C							*4																			
		GT09-C30R20904-3C	3m	1	PLC CPU: FP1-C16CT/C32CT/FPOR																										

***: - consistent autore are developed by Millsubishi Electric System & Service Co., LLD., 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 : TBs-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.

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For Designers

For Initial Startup & For Maintenance Operations Personnel

GT10

iQ Platform

Process Control External Dimensions

List of Connectab Models, etc.

Cables for third party FA devices

Р	roduct n	ame	Model name	Cable	Third party products	GOT connection destination		_		ble m		*2 Handy	
				length	*1		GT16	GT15	GT14	GT12	GT11	Handy GOT	GT10
			GT09-C30R20201-9P	3m		PLC CPU: GL120/GL130/MP-920/MP-930/CP-9200(H)/PROGIC-8 (port 1) MEMOBUS module: JAMSC-IF60/JAMSC-IF61 Communication module: 217IF/CP-217IF (when connected to CN1)/ 217IF-01/218IF-01							
	Cable for YASKAWA	Electric PLC	GT09-C30R20202-15P	3m		PLC CPU: PROGIC-8 (port 2)							
	171010101071	Electric 1 Ec	GT09-C30R20203-9P	3m 2m		PLC CPU: CP-9300MS							*4
			GT09-C30R20204-14P	3m	-	PLC CPU: MP-940 MEMOBUS module: CP-217IF (when connected to CN2)							
RS-232			GT09-C30R20205-25P	3m		Yokogawa Electric personal computer module: LC01-0N/LC02-0N							
cable	Cable for		GT09-C30R20301-9P			CPU port/D-sub 9-pin conversion cable: KM10-0C/KM10-0S			•			*3	
		Electric PLC	GT09-C30R20302-9P GT09-C30R20305-9S	3m	-	Personal computer link module: F3LC01-1N/F3LC11-1N/F3LC11-1F/F3LC12-1F PLC CPU: NFCP100/NFJT100							
C	Cable for Ye	okogawa Electric		3m	1								_
t	temperature controller Cable for Allen-Bradley (Rockwell Automation, Inc.) PLC		GT09-C30R20304-9S	3m		Converter: ML2-							
			GT09-C30R20701-9S	3m		PLC CPU: SL500 series							
	Rockwell Aut	omation, Inc.) PLC		•	-								*4
	Siemens A	G PLC	GT09-C30R20801-9S	3m		HMI adapter							
			GT09-C30R40101-9P	3m	1	PLC CPU: CV500/CV1000/CV2000/CVM1							
			GT09-C100R40101-9P	10m	-	Serial communication unit: CJ1W-SCU41							
			GT09-C200R40101-9P GT09-C300R40101-9P	20m 30m	-	Serial communication board: CQM1-SCB41/CS1W-SCB41 Communication board: C200HW-COM03/COM06							
			GT09-C30R40102-9P	3m	1								
	Cable for		GT09-C100R40102-9P	10m]	Base mount type host link unit: C200H-LK202-V1/C500-LK201-V1							
0	OMRON P	LC	GT09-C200R40102-9P	20m	-								
			GT09-C300R40102-9P GT09-C30R40103-5T	30m 3m	-								*4
			GT09-C100R40103-5T	10m	1	Communication boards OP1W OF44/OP1W OF40/O HW OF54							
			GT09-C200R40103-5T	20m	-	Communication board: CP1W-CIF11/CP1W-CIF12/CJ1W-CIF11							
_			GT09-C300R40103-5T GT09-C30R41101-5T	30m	+								
	Cable for		GT09-C30R41101-51 GT09-C100R41101-5T	3m 10m	1								
	Cable for KEYENCE PLC		GT09-C200R41101-5T	20m	1	Multi-communication unit: KV-L20/KV-L20R/KV-L20V (port 2)							
			GT09-C300R41101-5T	30m]								
			GT09-C30R40601-15P GT09-C100R40601-15P	3m 10m	-								
			GT09-C200R40601-15P	20m	1	PLC CPU: JW-22CU/70CUH/100CUH/100CU							
			GT09-C300R40601-15P	30m	1								
(Cable for		GT09-C30R40602-15P	3m]								
	Sharp Man	ufacturing	GT09-C100R40602-15P GT09-C200R40602-15P	10m 20m	-	PLC CPU: JW-32CUH/33CUH/Z-512J							
5	Systems P	LC	GT09-C300R40602-15P	20m	1								
			GT09-C30R40603-6T	3m	1								
			GT09-C100R40603-6T	10m		Link unit: JW-21CM/JW-10CM/ZW-10CM							
			GT09-C200R40603-6T GT09-C300R40603-6T	20m 30m	-								
-			GT09-C30R41201-6C	3m									
	Cable for JTEKT PLC		GT09-C100R41201-6C	10m	1	PLC CPU: PC3J/PC3JL							
			GT09-C200R41201-6C	20m	0	Communication module: PC/CMP2-LINK							
-			GT09-C300R41201-6C GT09-C30R40501-15P	30m 3m	-								
			GT09-C100R40501-15P	10m									
			GT09-C200R40501-15P	20m	1	PLC CPU: T2/T3/T3H/model3000(S3)							
			GT09-C300R40501-15P	30m									_
	Cable for		GT09-C30R40502-6C GT09-C100R40502-6C	3m 10m	-								
	TOSHIBA I	PLC	GT09-C200R40502-6C	20m	1	PLC CPU: T2E/model2000(S2)							
RS-422			GT09-C300R40502-6C	30m	1		•					•	
cable			GT09-C30R40503-15P	3m 10m	-		*5		-			*3	
			GT09-C100R40503-15P GT09-C200R40503-15P	20m	1	PLC CPU: T2N							
			GT09-C300R40503-15P	30m									
(Cable for		GT09-C30R40401-7T	3m									
ł	Hitachi Ind		GT09-C100R40401-7T GT09-C200R40401-7T	10m 20m	-	Intelligent serial port module: COMM-H/COMM-2H							
E	Equipment	Systems PLC	GT09-C300R40401-7T	30m									
			GT09-C30R41301-9S	3m]								
	Cable for Hitachi PL(_	GT09-C100R41301-9S	10m	-	PLC CPU: LQP510							
1	- maoni FLU		GT09-C200R41301-9S GT09-C300R41301-9S	20m 30m	1	Communication module: LQE565/LQE165							
	Cable for 5	uii Electric EA	GT09-C30R41001-6T	3m	1								
		uji Electric FA ts & Systems	GT09-C100R41001-6T	10m		RS-232C/485 interface capsule: FFK120A-C10							
	PLC	e. e yotomo	GT09-C200R41001-6T GT09-C300R41001-6T	20m 30m	-	General interface module: NC1L-RS4/FFU120B							
-			GT09-C30R40201-9P	30m 3m	1								
			GT09-C100R40201-9P	10m	1	MEMOBUS module: JAMSC-120NOM27100/JAMSC-IF612							
	o		GT09-C200R40201-9P	20m		MEMOBOS Module. JAMISC-120NOMi27100/JAMISC-11-012							
	Cable for Yaskawa E	lectric PLC	GT09-C300R40201-9P GT09-C30R40202-14P	30m 3m	1								
			GT09-C100R40202-14P	10m	1								*4
			GT09-C200R40202-14P	20m	1	PLC CPU: MP940							
_			GT09-C300R40202-14P	30m	-								<u> </u>
			GT09-C30R40301-6T GT09-C100R40301-6T	3m 10m	1								
			GT09-C200R40301-6T	20m	1	Personal computer link module: F3LC11-2N							
		PLC	GT09-C300R40301-6T	30m]								
			GT09-C30R40302-6T	3m	-								
			GT09-C100R40302-6T GT09-C200R40302-6T	10m 20m	1	Personal computer link module: LC02-0N							
	Cable for		GT09-C300R40302-6T	30m	1								
	Yokogawa Electric		GT09-C30R40303-6T	3m]								_
	_1000110		GT09-C100R40303-6T	10m	-	Temperature controller: GREEN series							
		Temperature	GT09-C200R40303-6T GT09-C300R40303-6T	20m 30m	1								
		controller	GT09-C30R40303-6T	30m 3m	1								
		GT09-C100B40304-6T 10m											
			GT09-C200R40304-6T	20m		Temperature controller: UT2000 series							
			GT09-C300R40304-6T	30m	1	1		1	1	1			1

*2 : The applicable connection configuration and cable vary depending on the GOT main unit. For more details, see the GOT1000 Series Handbook and the GOT1000 Series Connection Manual *3 : RS-422 cables less than 10m and the RS-232 cable less than 3m can be used when the connector conversion box for the Handy GOT is used.

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

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

Notes for use

Backward compatibility

Project data

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

GOT900 series → GOT1000 series compatibility *

Using data from the GOT-A900 series

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

Using data from the GOT-F900 series

Project data for the GOT-F900 series can be used in the GOT1000 series. For the details, see "Replacement Guidance (for GOT1000 Series) - From GOT-F900/A950 Handy Series to GOT1000 Series" (JY997D39301). *Some data and functions cannot be used in the GOT1000 series.

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 memory card or a USB memory device depending on the application. For details, see "Function list" (page 70 to page 73) and "GT

Designer3 Version1 Screen Design Manual."

An optional function board or a memory 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, memory card (CF card, SD card), and USB memory selection <GT16/GT15/GT14/GT12/GT11>" (page 82 to page 83).

	Function			ed optional units and devices				_
		GT16	GT16 Handy	GT15	GT14	GT12	GT11*	⁶ GT
Memory extension		CF card	CF card	Optional function board: GT15-QFNB M or GT15-MESB48M CF card	SD card	-	-	-
Multi-channe	el function	Not necessary	Not necessary	Optional function board: GT15-QFNB(_M) or GT15-MESB48M	Not necessary	Not necessary	-	-
Aultimedia f	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	-	-	-	-
/ideo/RGB unction	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	it function	Sound output unit: GT15-SOUT	_	Sound output unit: GT15-SOUT	_	_	_	+
	sonal computer operation	RGB input unit: GT16M-R2 or Video/RGB input unit: GT16M-V4R1	_	RGB input unit: GT15V-75R1 or Video/RGB input unit: GT15V-75V4R1	_	-	-	
	ut/output function, anel function	External input/output unit: GT15-DIO or GT15-DIOR	-	External input/output unit: GT15-DIO or GT15-DIOR	-	-	-	1
File transfer function (FTP client)		USB memory device or CF card	USB memory or CF card	Ethernet communication unit: GT15-J71E-100 CF card	USB memory or SD card	-	-	
Gateway function		Not necessary	Not necessary	Ethernet communication unit: GT15-J71E71-100	Not	Not	_	+
MES interface function		Optional function board: GT16-MESB	-	Ethernet communication unit: GT15-J71E71-100 Optional function board: GT15-MESB48M	_	_	-	Γ
Document display function		CF card	CF card	Optional function board: GT15-QFNB(M) or GT15-MESB48M CF card	-	-	-	
Operation lo	g function	CF card	CF card	CF card	-	-	-	T
Backup/rest	oration function	USB memory device or CF card	USB memory or CF card	CF card	USB memory or SD card	CF card	-	
laintenance	e time notification function	Not necessary (equipped with battery as standard feature)	Not necessary (equipped with battery as standard feature)	Battery: GT15-BAT	_	-	-	
CNC data in	put/output function*3	USB memory device or CF card	-	CF card	-	-	-	
	itor function*4 Q/L/QnA ladder monitor	Not necessary	Not necessary	Optional function board: GT15-QFNB(⊟M) or GT15-MESB48M	_	-	-	
SFC monito	r 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	-	-	-	
adder edito	or function*5	CF card	CF card	Optional function board: GT15-QFNB M or GT15-MESB48M CF card	-	-	-	
Report funct	ion	Printer unit: GT15-PRN (when PictBridge-compatible printer is used) CF card	_	Printer unit: GT15-PRN (when PictBridge-compatible printer is used) CF card	_	_	_	
lard conv	Saving files on memory card	CF card	CF card	CF card	SD card*7	CF card	-	
Hard copy unction	Printing by printer (serial)	Not necessary	_	Not necessary	Not necessary	-	-	nec
	Printing by printer (PictBridge)	Printer unit: GT15-PRN	-	Printer unit: GT15-PRN	_	_	_	

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 /GT145 /GT115 /GT105 have the same panel dimensions, respectively. Therefore, it is not necessary to change the mounting hole size.
- Although the A95 differs in panel cut dimensions from the GT1655, GT155, GT115 -Q BDQ and GT115 -Q BDA, the GOT900 series model can be replaced with any of the GOT1000 series ones without changing the mounting hole size.

· Eunction that cannot be used on the model

GT10

Л

iQ Platfo B



List of Connec Models, etc

Optional function board, memory card (CF card, SD card), and USB memory selection <GT16/GT15/GT14/GT12/GT11>

When using the GT16

Necessary optional function board when using optional functions
 The following optional functions

The following optional function board is need	The following optional function board is necessary when daing optional functions						
Function	Necessary optional function board						
MES interface function	GT16-MESB						
Optional function other than the above	Not necessary						
(Refer to P.84 [Table A])	Not necessary						

Storage memory (ROM) and operation memory (RAM)

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

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

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



*: Differs depending on the GOT main unit model.

Data types, capacities, and CF card selection

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

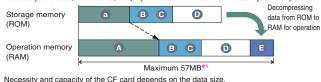
Data type	Data capacity
Extended function OS and optional function OS stored in ROM	Capacity of "GT16(ROM)" in [Table A] on page 84
A Extended function OS and optional function OS decompressed in RAM	Capacity of "GT16(RAM)" in [Table A] on page 84
B Communication driver	Check with [Table B] on page 84.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

As for the extended function OS and optional function OS, when decompressing the compressed data (3) in the storage memory (ROM) to the operation memory (RAM), the data size becomes larger as shown in (A).

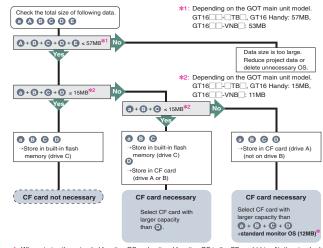
The buffering area () is an area for storing resource data for the functions such as logging and advanced alarms. It uses the operation memory (RAM). The data size differs depending on the setting.

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

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



Determine the necessity and capacity of the CF card depends on the data size.



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

CF card and USB memory capacities

The CF card and USB memory capacities are as follows. FAT16 format: max. 2GB, FAT32 format: max. 32GB.

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

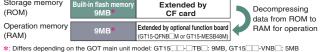
When using the GT15

Necessary optional function board when using optional functions
 The following optional function board is necessary when using optional functions

,							
Functi	on	Necessary optional function board					
MES interface function		GT15-MESB48M					
SFC monitor function Motion SFC monitor function		GT15-QFNB M or GT15-MESB48M					
Multi-channel function Document display function MELSEC-Q/L/QnA ladder moni	tor function	GT15-QFNB (□M) or GT15-MESB48M					
Optional function other than the above	GT15 function version D or later	Built in the GOT main unit (It is necessary to install the standard monitor OS on the GOT by using GT Designer2 Version 2.55H or later).					
(Refer to P.84 [Table A])	GT15 function version C or earlier	GT15 (- Q) FNB (M) or GT15-MESB48M					

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)."



Data types, capacities, and selection of CF card and

optional function board

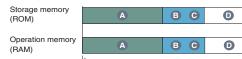
The data types and capacities are as shown in the table below

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

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 depending on the setting.

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

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



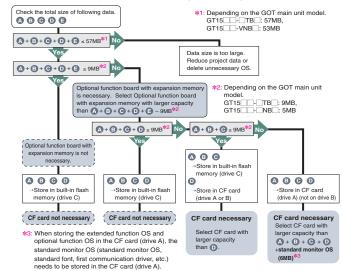
Maximum 57MB*1

Decompressing

data from ROM to

RAM for operation

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 GT14

Necessary optional function board when using optional functions No optional function board is required when using the optional functions or extended functions. Some functions, however, may require a SD card due to OS installation. See below for details.

Storage memory (ROM) and operation memory (RAM)

The GOT operates by decompressing the OS and project data, which is stored in the storage memory (ROM), into the operation memory (RAM). Since the GT14 compresses some data before storing it in the storage memory (ROM), the data size becomes larger when decompressed in the operation memory (RAM).

The GT14 has a built-in flash memory (9MB for project data, 5MB for optional functions) for storage memory (ROM) as a standard feature. The SD card expands the memory capacity if the OS and project data exceeds 5MB.

The GT14 has a 20MB operation memory (RAM) as a standard feature. The operation memory is not extendable.

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

Storage memory (ROM)	Built-in flash memory (for project data) 9MB	Built-in flash memory (for extended functions, optional functions) 5MB	Extended by SD card		Decompressing data from ROM
Operation memory (RAM)	User memory (for project data) 9MB	(for extended function	memory ons, optional functions) DMB	-	to RAM for operation

Data types, capacities, and SD card selection

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

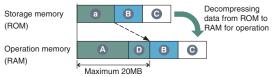
Data type	Data capacity
Extended function OS and optional function OS stored in ROM	Capacity of "GT14(ROM)" in [Table A] on page 84
A Extended function OS and optional function OS decompressed in RAM	Capacity of "GT14(RAM)" in [Table A] on page 84
B Communication driver	Check with [Table B] on page 84.
C Project data	Check with screen design software
D Buffering area	Check with 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).

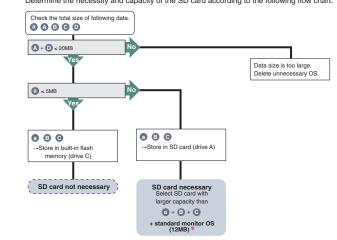
The buffering area () is an area for storing resource data for the functions such as logging and advanced alarms. It uses the operation memory (RAM). The data size differs depending on the setting.

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 D). (The storage memory (ROM) is not used.)

If the size of data decompressed on the operation memory (RAM) exceeds 20MB, it is necessary to reduce, for instance, the project data size or delete unnecessary OS components.



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



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

SD card and USB memory capacities

The SD card and USB memory capacities are as follows FAT16 format: max. 2GB, FAT32 format: max. 32GB.

When using the GT11

Necessary optional function board when using optional functions					
The following optional function board is necessary when using the optional functions in [Table A] in page 84.					
GOT type	Necessary optional function board				
GT115-Q_BDQ, GT115-Q_BDA, GT1155-QTBD, GT115-Q_BD (hardware version C or later), GT115_HS-Q_BD (hardware version B or later)	Built in the GOT main unit				
GT11 other than the above	GT11-50FNB				

When using the GT12

Necessary optional function board when using optional functions
 No optional function board is required when using the optional functions or extended functions.
 Some functions, however, may require a CF card due to OS installation.
 See below for details.

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

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

optional function OS, and communication drivers. The GT12 has a 12MB operation memory (RAM) as a standard feature. The operation memory is not extendable.

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

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

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

■ Data types, capacities, and CF card selection The data types and capacities are as shown in the table below.

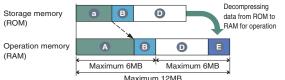
Data type	Data capacity					
Extended function OS and optional function OS stored in ROM	Capacity of "GT12(ROM)" in [Table A] on page 84					
A Extended function OS and optional function OS decompressed in RAM	Capacity of "GT12(RAM)" in [Table A] on page 84					
B Communication driver	Check with [Table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

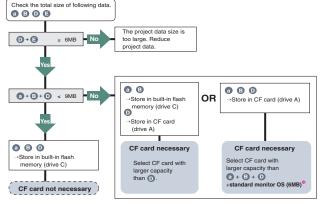
Up to 6MB of the operation memory (RAM) can be used for the total of the data (3) and the data (3). The buffering area (3) is an area for storing resource data for the functions such as logging

and advanced alarms. It uses the operation memory (RAM). The data size differs depending on the setting.

When the file save mode is specified in the screen design software, the accumulated resource data is stored in the designated storage (drive A). (The storage memory (ROM) is not used.) Up to 6MB of the operation memory (RAM) can be used for the total of the project data **1** and the buffering area **1**. 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

CF card capacities

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

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List

t of Connect Models, etc.

Notes for use

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

				Jser are	a size i	to be <u>u</u>	sed (KE	3)
		Function	GT16/0	GT12*13	0745	GT	14	0744
			BAM	ROM	GT15	BAM	ROM	GT11
-	Barcode	*13	84	50	84	83	83	*1
	RFID*1		166	50	166	166	166	*1
	L	nonitor*13	692	450	746	691	691	*1
	Report		235	150	235	None	None	None
		PictBridge)	1104	552	1104	None	None	None
	Printer (serial)			80	200	200	200	None
	<u>``</u>	ame conversion library*12 *14	200 800	400	800	800	800	None
	<u> </u>	Stroke font support function	400	300	400	1300	400	None
		Stroke basic font (Japanese)	2160	2160	2160	2160	2160	None
	Stroke	Stroke basic font (Japanese) (with Hang		3175	3175	3175	3175	None
		Stroke basic font (Chinese: Simplified)	1474	1474	1474	1474	1474	None
		Stroke basic font (Chinese: Simplified) (with Han		2016	2016	2016	2016	None
	Video dis		480	298				
Extended functions	RGB disp	olay			512	None	None	None
ncti	Multimed		1074	292	None	None	None	None
1 ful		personal computer operation (Ethernet		860	None	None	None	None
ded	Remote pers computer	VIGCONTIGED	480	292	512	None	None	None
ten	operation (se		,	50	84	None	None	None
Щ	VNC [®] se		8192 766	512	None	None	None	None
	Backup/restoration*12 *13			420	820	766	766	None
	Operator authentical	1 Operator authentication	730	460	784	None	None	None
	USB mo	use/keyboard function	200	80	None	200	200	None
	Audio output		200	100	200	None	None	None
	External	I/O, operation panel	100	70	100	None	None	None
	CNC dat	a CNC data input/output	383	210	437	None	None	None
	input/out	put GOT platform library	200	77	100	None	None	None
	Device data transfer		100	50	100	100	100	None
	MELSEC-L troubleshooting function			340	None	None	None	None
	SoftGOT-GOT link function			100	200	None	None	None
	Log view	er function	3882	1434	None	None	None	None
		sfer function (FTP client)	1300	300	1300	1300	1300	None
		ance time notification	*2	*2	*2	None	None	None
	Multi-cha		*2	*2	*2	*2	*2	None
		Standard font (Chinese: Simplified		1280	1280	1280	1280	None
		Standard font (Chinese: Traditiona		1920	1920	1920	1920	None
	Chinese	Standard font (Japanese)	1280	1280	1280	1280	1280	None
	region	Stroke font (Japanese)	1037	1037	1037	1036	1036	None
		Stroke font (Chinese: Simplified)	1248	1248	1248	1248	1248	None
		Stroke font (Chinese: Traditional)	1680	1680	1680	1680	1680	None
SL	Operatio		1221	384	1218	None	None	None
ction		nt display	3072	150	2048	None	None	None
Optional functions		nji conversion	None	None	1223	None	None	None
al f		nji conversion (enhanced version)	2774	1242	2774	None	None	None
tion		I data list display*3 *13	*2	*2	*2	*2	*2	None
0 D		I trend graph*3 *13	*2	*2	*2	*2	*2	None
	Logging		710	380	740	710	710	None
	Recipe*		100	70	100	100	100	*1
	Advance Object o		1187 360	310 180	1241 360	1024 360	1024 360	None None
	Object s		674	342	360 523	None	None	
	Ladder	MELSEC-A ladder monitor	674	342	523	None		None
	monitor	MELSEC-FX ladder monitor	4170	590	1082		None	None None
	A list editor	MELSEC-Q/L/QnA ladder monitor *13 MELSEC-A list editor	1024	590	1082	None 1024	None 1024	None *1
	L	r*13 MELSEC-FX list editor	1024	542	1058	1024	1024	*1
	<u> </u>	t unit monitor	770	390	384	1024	1024	None
			370	210	384	None None	None None	None
_	Network monitor			210	324	None	None	INOUNE

		User area size to be used (KB)						
		Function	GT16/GT12*13		GT15	GT14		GT11
				ROM	GIIJ	RAM	ROM	GIII
	Q motion mo	nitor	770	390	607	None	None	None
	Servo amplifi	er monitor	770	390	524	None	None	None
	CNC monitor		770	390	588	None	None	None
	SFC monitor *7	GOT platform library	200	77	100 *5	None	None	None
s		SFC monitor	2108	442	1373 *5	None	None	None
b		GOT function extension library	19381	4729	4729 *5	None	None	None
Optional functions	Motion SFC	GOT platform library	200	77	100 *11	None	None	None
12	monitor*10	Motion SFC monitor	12522	1240	2477 *11	None	None	None
ona	Ladder	GOT platform library	200	77	100 *6	None	None	None
b	editor *8	Ladder editor	8192	2567	5121 *6	None	None	None
0		GOT function extension library	19381	4729	4729 *6	None	None	None
		Gateway (server, client)	100	50	100	100	100	None
	Gateway	Gateway (mail)	100	50	100	100	100	None
		Gateway (FTP server)*13	84	50	64	84	84	None
	MES interfac	e	13461	1598	3196 <mark>*9</mark>	None	None	None
1 : Requires installation of the optional function OS and extended function OS, but does not use the user area.								

tion of the optional function OS and exten

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.
 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 QS and optional function QS. The total capacity of the me necessary depending on the GOT to be used.

<Table 1>

	GOT	Necessary setting	
	GT157	 Set boot source of OS to "A: standard CF card." 	
	GT157VN, GT1562-VN	· 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)."		

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

[Table B] Capacity of 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				
	JTEKT Corporation TOYOPUC-PC	160				
Third party PLC,	GE Fanuc Automation Corporation	180				
motion controller	Ethernet (Yaskawa Electric Corporation)	160				
	Ethernet (SIEMENS S7)	200				
Microcomputer	Microcomputer connection, Ethernet (microcomputer)	230				
Communication drivers other	r than above	150				

To use the multi-channel function <GT16/GT15/GT14/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
- (2) Bus connection or network connection *1 + Ethernet connection *3
 (3) Ethernet connection *3 + serial connection *2
- Bus connection or network connection *1 + Ethernet connection *3 + serial connection *2
- (5)Serial connection * 6 Ethernet connection *3
- * GT16 Handy can be connected only by methods (3) or (6).
- When using GT15:

()Bus connection, network connection *1, or Ethernet connection *3 + serial connection *2 2 Serial connection *

- When using GT14:
- 1)Ethernet connection *3 + serial connection *2 2)Serial connection *2

When using GT12:

- 1)Ethernet connection *3 + serial connection *2 2)Serial connection *2
- *1: The network connections include the following connection configurations.
- MELSECNET/H connection * MELSECNET/10 connection
 CC-Link IE Controller Network connection
 CC-Link IE Field Network connection CC-Link connection (ID)
- *2: The serial connections include the following connection configurations. CPU direct connection • Computer link connection • CC-Link connection (via G4)
 Microcomputer connection (serial) • Connection with third party PLCs (serial)
 Temperature controller connection • Inverter connection • Servo amplifier connect CNC connection (CPU direct connection)
 GOT multi-drop connection MODBUS®/BTU connection
 Bobot controller connection (serial)

- *3: The Ethernet connections include the following connection configurations.
- Ethernet connection in MODBUS[®]/TCP connection Third party PLC connection (Ethernet)
 Robot controller connection (Ethernet) CNC connection (Ethernet)
 Microcomputer connection (Ethernet)
- Maximum number of connectable channels, mountable

units and mounting stages

- (1) Number of connectable channels The number of connectable channels varies depending on the GOT model. See Table C on the following page.
- (2) Number of mountable units and mounting stages When the multi-channel function is used, add interfaces to the GOT using any of the following methods.
- 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 conr *: Up to two channels can be connected to the GT12.
- No communication units can be mounted on the GT12.

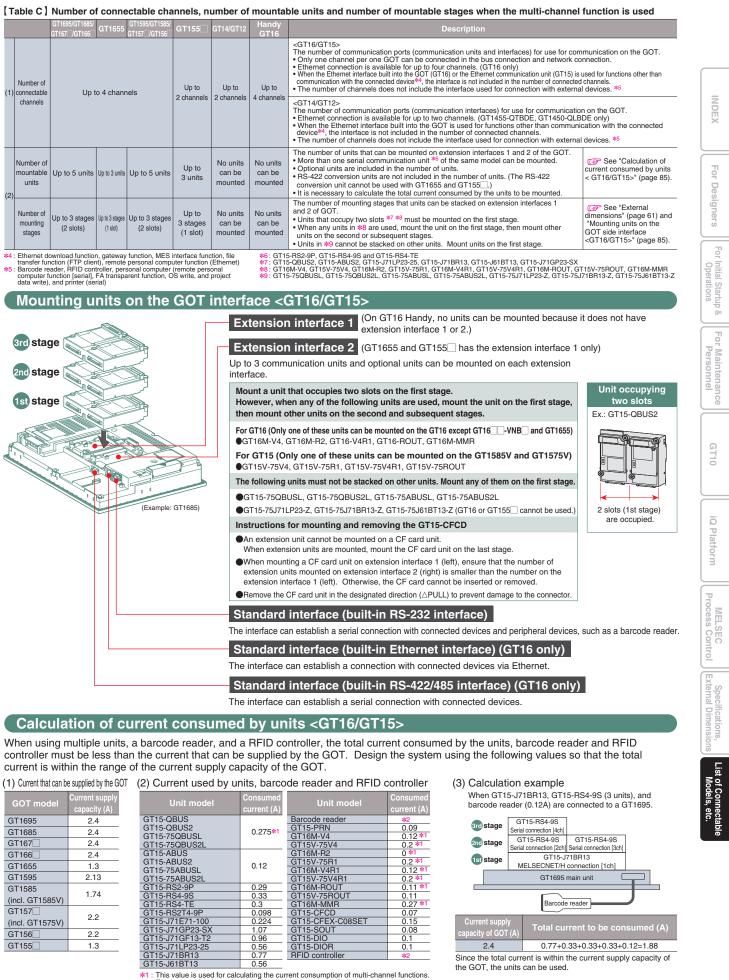
Optional function board

Not necessary when using the GT16, GT14, 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 and GT14, the communication driver is installed in the user area. For the GT15, communication drivers for the second and subsequent channels will be alled in the user area.
- For the GT12, the communication driver is installed in the system area.

		GT1695/GT1685/ GT167_/GT166_	GT1655	GT1595/GT1585/ GT157 /GT156	GT155	GT14/GT12	Handy GT16	
1)	Number of connectable	Up t	o 4 chanr	iels	Up to	Up to	Up to	<gt16 gt15=""> The number of c • Only one chan • Ethernet conne • When the Ethern communication w • The number of</gt16>
.,	channels				2 channels	2 channels	4 channels	<gt14 gt12=""> The number of c • Ethernet conne • When the Ethe device*4, the in • The number of</gt14>
2)	Number of mountable units	Up to 5 units	Up to 3 units	Up to 5 units	Up to 3 units	No units can be mounted	No units can be mounted	The number of u • More than one • Optional units a • RS-422 conver- conversion unit • It is necessary
_,	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 m and 2 of GOT. • Units that occu • When any units units on the sec • Units in * 9 car
	transfer fur		nt), remoté	function, MES i personal compu	uter function (*7 : GT15	-RS2-9P, GT15-RS -QBUS2, GT15-AB



current is within the range of the current supply capacity of the GOT.

T model	Current supply capacity (A)	Unit model
695	2.4	GT15-QBUS
685	2.4	GT15-QBUS2 GT15-75QBUSL
67	2.4	GT15-75QBUS2L
66	2.4	GT15-ABUS
655	1.3	GT15-ABUS2 GT15-75ABUSL
595	2.13	GT15-75ABUS2L
585 . GT1585V)	1.74	GT15-RS2-9P GT15-RS4-9S GT15-RS4-TE
57 . GT1575V)	2.2	GT15-RS2T4-9P GT15-J71E71-100
56	2.2	GT15-J71GP23-SX GT15-J71GF13-T2
55	1.3	GT15-J71LP23-25
		GT15-J71BR13

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

MELSOFT GT Works3 (English version) operating environment

Item	Description								
Personal computer	PC/AT compatible machine on which the following OS operates								
DS (English, Simplified Chinese, Traditional Chinese, Korean, German versions)	ficrosoft [®] Windows [®] 7 (64bit/32bit) (Enterprise, Ultimate, Professional, Home Premium, Starter) ficrosoft [®] Windows Vista [®] (32bit) (Enterprise, Ultimate, Business, Home Premium, Home Basic) ficrosoft [®] Windows [®] XP Service Pack2 or later (32bit) (Professional, Home Edition) ficrosoft [®] Windows [®] 2000 Professional Service Pack4								
CPU	1GHz or more recommended								
Required memory	Microsoft [®] Windows [®] 7, Microsoft [®] Windows Vista [®] : 1GB or more recommended Microsoft [®] Windows [®] XP, Microsoft [®] Windows [®] 2000: 512MB or more recommended								
Display	Resolution XGA (1024 x 768 dots) or more								
Available hard disk space	To install GT Designer3: 2GB or more recommended To run GT Designer3: 512MB or more recommended								
Display colors	High Color (16 bits) or more	ligh Color (16 bits) or more							
	Simulation on a PC requires the following software: •GX Works2 version 1.12N or later* ¹ or GX Simulator version 5.00A or later *1. * The applicable software version of GX Works2 or GX Simulator varies depending on the PLC CP								
	PLC CPU to be simulated	GX Simulator version	GX Works2 versio						
	QCPU (A mode), ACPU, motion controller CPU (A series)	5.00A or later	_						
	QnACPU								
	FX ₀ series, FX ₀ series, FX ₀ series,								
	FX1 series, FX1N series, FX1Nc series, FX1s series,	5.40E or later	1.24A or later						
		FX2 series, FX2c series, FX2N series, FX2Nc series							
	QCPU (Q mode) (except Q00J/Q00/Q01CPU)		1.12N or later						
Software	Q00JCPU, Q00CPU, Q01CPU	6.00A or later	1.12N of later						
Joitware	Q02PHCPU, Q06PHCPU	7.20W or later							
	Q12PHCPU, Q25PHCPU	6.10L or later	-						
	Q12PRHCPU, Q25PRHCPU	6.20W or later							
	FX3uc series, FX3u series*2	7.08J or later	1.24A or later						
	FX _{3G} series ^{*2}	7.22Y or later							
	FX3GC series*2	-	1.77F or later						
	Q00UJCPU, Q00UCPU, Q01UCPU, Q02UCPU, Q03UDCPU, Q04UDHCPU, Q06UDHCPU, Q10UDHCPU, Q13UDHCPU, Q20UDHCPU, Q26UDHCPU, Q03UDECPU, Q04UDEHCPU, Q06UDEHCPU, Q10UDEHCPU, Q13UDEHCPU, Q20UDEHCPU, Q26UDEHCPU, Q2	7.23Z or later	1.12N or later						
	LCPU	-	1.24A or later						
	Q50UDEHCPU, Q100UDEHCPU	-	1.30G or later						
Others	Mouse, keyboard, printer, CD-ROM drive (for installation only), sound function (sound card)*3, speaker	*3 used with the above OS	6						
pplicable GOT	GOT1000 series								
pplicable software version	GT Works3 Version 1.54G or later								

*2 : The GOT-A900 cannot be simulated.
*3 : May be required when the simulation function is used.

[Cautions]
 • The software installation and the GOT-A900 simulation require administrator authority.
 • Using GT Works3 aplication requires an account with higher privileges than the standard user in Windows[®] 7 and Windows Vista[®].
 • To use GT Works3 alongside another application in Windows[®] 7 and Windows Vista[®], and Amore Windows Vista[®], and Windows Vista[®], or Windows Vista[®], and Windows[®], and Win

GT SoftGOT1000 Version3 (English version) operating environment

Item	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) * ³
OS (English, Simplified Chinese, Traditional Chinese, Korean, German versions)	Microsoft [®] Windows [®] 7 (64bit/32bit) (Enterprise, Ultimate, Professional, Home Premium, Starter) Microsoft [®] Windows Vista [®] (32bit) (Enterprise, Ultimate, Business, Home Premium, Home Basic) Microsoft [®] Windows [®] XP Service Pack2 or later (32bit) (Professional, Home Edition, Embedded ³⁴⁴) Microsoft [®] Windows [®] 2000 Professional Service Pack4	
CPU	1GHz or more recommended	
Required memory	Microsoft® Windows® 7, Microsoft® Windows Vista®: 1GB or more recommended Microsoft® Windows® XP, Microsoft® Windows® 2000: 512MB or more recommended	
Display	Resolution VGA (640 x 480 dots) or more	
Available hard disk space <mark>*1</mark>	For installation: 2GB or more recommended For execution: 512MB or more recommended	
Display colors	High Color (16 bits) or more	
Hardware <mark>*</mark> 2	GT15-SGTKEY-U (License key (for USB port)) GT15-SGTKEY-P (License key (for parallel port))	GT15-SGTKEY-U (License key (for USB port))
Software	When creating or editing project data : GT Designer3 *5 When using with PX Developer : PX Developer Version 1.14Q or later (PX Developer Version 1.31H or later when using the security level change)	
Others	Mouse, keyboard, printer, CD-ROM drive (for installation only), sound function (sound card), speaker used with the above OS	
refer to the PX Developer 2 : The PC must be equipp The PC must be equipp 3 : For CONTEC PC CPU	PX Developer requires additional memory space. For free spi Version1 Operation Manual (Monitor Tool). Additional memor eed with a USB port to use the GT15-SGTKEY-U. ded with a parallel port (Centro/printer connector) to use t unit, refer to the manual for the PC CPU module. too BPC: 682 de is proincetuled.	y space is also required when using user-created application

4 : Use is possible only when PPC-852-226 is preinstalled.
 *5 : GT Designer3 and GT SoftGOT1000 must be installed from the same GT Works3 suite.

[Cautions] •The software installation and the GOT-A900 simulation require administrator authority.

•Using GT Works3 application requires an account with higher privileges than the standard user in Windows[®] 7 and Windows Vista[®]. •To use GT Works3 alongside another application in Windows[®] 7 and Windows Vista[®], use an administrator account to run it if an administrator account is used to run the other application. accout is used to run the other application. *The following functions are not supported in Windows[®] 7, Windows Vista[®], or Windows[®] XP. Running Applications in Windows[®] Compatibility Mode, Fast User Switching, Desktop Theme (Font Size) Change, Remote Desktop, DPI Setting other than 100%. *Windows XP Mode, Windows Touch features are not supported in Windows[®] 7.

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Specification 640 × 480, 800 × 600, 1024 × 768, Resolution 1280 × 1024, 1600 × 1200 Specifiable resolution (640 to 1920 × 480 (dots) to 1200) 65.536 colors Display colors 57MB Memory capacity Bus connection*2, CPU direct connection, Computer link connection. Connection CC-Link IE Controller Network connection, configuration* CC-Link IE Field Network connection. MELSECNET connection, Ethernet connection

: The required devices vary depending on the connection configuration : Connectable only when using a PC CPU unit.

Warranty

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.
 - 3 When 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
 - ⑧Any other failure found not to be the responsibility of Mitsubishi or that admitted not to be so by the user.

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

Onerous repair term after discontinuation of production

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

Overseas service

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

Exclusion of loss in opportunity and secondary loss from warranty liability

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

Changes in product specifications

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

Product application

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

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List of Connectable Models, etc.

Support

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

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OShanghai FA Center

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O Taiwan FA Center

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ISO9001 and ISO14001 certified.

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 comply with various standards and laws.

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

<Safety Standards>

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

<Radio Laws>

Mark	Law	Country
KC	Korea Radio Waves Act	Korea

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

<Shipping Standards>

Abbrev.	Certification Organization	Country
ABS	American Bureau of Shipping	United States
BV	Bureau Veritas	France
DNV	Det Norske Veritas	Norway
GL	Germanischer Lloyd	Germany
LR	Lloyd's Register	England
NK	NIPPON KAIJI KYOKAI	Japan
RINA	Registro Italiano Navale	Italy

MEMO

MEMO	MEMO
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Mitsubishi Graphic Operation Terminal

Precautions for Choosing the Products

This catalog explains the typical features and functions of the GOT1000 series HMI and does not provide restrictions and other information on usage and module combinations. When using the products, always read the user's manuals of the products.

Mitsubishi will not be held liable for damage caused by factors found not to be the cause of Mitsubishi; machine damage or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi products; and to other duties.

\Lambda For safe use

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

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