

Changes for the Better



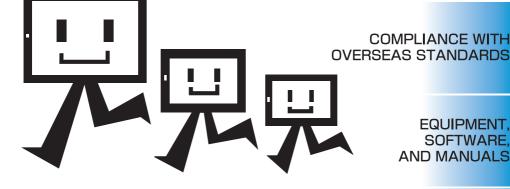
GOT1000 Series Handbook Ver. C

FUNCTION

SOFTWARE

GOT

CONNECTION CONFIGURATION





http://MitsubishiElectric.co.jp/melfansweb/english/



GLOSSARY



INTRODUCTION

GOT1000 Series Handbook describes the basic information about GOT1000 series of MITSUBISHI Graphic Operation Terminal (hereinafter abbreviated as GOT), the information required for the GOT installation, and others.

For more details, refer to the manuals shown in this handbook.

HOW TO USE THIS HANDBOOK

Be sure to use this handbook together with the following catalogs and manuals.

Catalog

The following catalog describes the information about new functions, the product lineup, the cost, and others.

A version of the catalog corresponds to this handbook L(NA)08054-E 0812(MDOC)

Manuals related to GOT1000 series

The manuals describe the detailed information for the GOT.

For details of the information shown in this handbook, refer to the related manuals of GOT1000 series.

The manuals related to GOT1000 series can be downloaded from the MITSUBISHI ELECTRIC FA NETWORK SERVICE website (http://wwwf2.mitsubishielectric.co.jp/english/ index.html).



MANUALS

For details of the connection configuration and software operation/installation, refer to the following manuals.

For details about GOT hardware

- GT16 User's Manual SH-080778ENG (1D7M88)
- GT15 User's Manual SH-080528ENG (1D7M23)
- GT11 User's Manual JY997D17501 (09R815)
- GT10 User's Manual JY997D24701 (09R819)
- Handy GOT User's Manual JY997D20101 (09R817)

For details about screen configurations, functions, and usage of GT SoftGOT1000

- GT SoftGOT1000 Version2 Operating Manual SH-080602ENG (1D7M48)
- For details about installation operation, basic operation of screen design, and data transfer operation of GT Designer2
 - GT Designer2 Version2 Basic Operation/Data Transfer Manual (For GOT1000 Series) SH-080529ENG (1D7M24)

For details about screen configurations, functions, and usage of GT Simulator2
 GT Simulator2 Version2 Operating Manual

SH-080546ENG (1D7M34)

For details about specifications and setting methods of object functions

 GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) SH-080530ENG (1D7M25)

For details about connection configurations and how to make cable

 GOT1000 Series Connection Manual SH-080532ENG (1D7M26)

For details about extended functions and option functions

- GOT1000 Series Extended/Option Functions Manual SH-080544ENG (1D7M32)
- For details about specifications, system configurations, and setting methods of gateway function
 - GOT1000 Series Gateway Functions Manual SH-080545ENG (1D7M33)
- For details about specifications, system configurations, and setting methods of MES interface function
 - GOT1000 Series MES Interface Function Manual SH-080654ENG (1D7M63)



NEWLY ADDED FUNCTIONS

The following shows newly added functions.

As of August 2008

Added new model

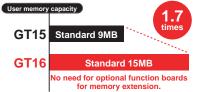
 GT16 models (GT1695M-XTBA, GT1695M-XTBD, GT1685M-STBA and GT1685M-STBD) are added.

GT16 User's Manual

● Two models of 5.7 type (GT1055-QSBD and GT1050-QBBD) are added to GT10.

Feature of GT16

- Greatly increased memory capacity! Requiring no optional function boards
 - Enables use of real parts without having to worry about the memory capacity The user memory (Built-in flash memory: ROM) is increased from the standard 9MB to 15MB. A optional function board is not necessary for memory extension.



- Useful functions are available while requiring no optional function boards The memory for operation (RAM) is increased to the standard 57MB.
 The memory up to 57MB can be used without an optional function board, so no optional function boards that were necessary when using a multi-channel function, a document display and a Q/QnA ladder monitor function are required.
- Equipped with USB host and USB devices
 - USB host (Type A)

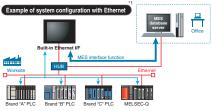
Hooking up a USB memory drive here enables storage of resource data such as operating systems, project data and alarm logs, as well as backup/restored data such as sequence programs. The data communication is simple and easy between the GOT main unit and a CF card.

 USB device (Mini-B) Connecting the USB device (Mini-B) to a personal computer enables the transfer of operating systems and project data without opening the panel. The FA transparent function enables modification of sequence programs.





- Various interfaces are available as standard features, including Ethernet, RS-422/485, and RS-232
 - A variety of built-in interfaces
 The built-in interfaces (Ethernet, RS-422/485 and RS-232) enable connection to up to four kinds of FA equipment simultaneously without installing an additional optional communication unit.
 - Ethernet helps extend systems
 The built-in Ethernet interface connects to a PLC CPU with a built-in Ethernet and a host system easily while requiring no optional communication unit.
 - Ethernet enables simultaneous monitoring of PLCs of different manufacturers The built-in Ethernet interface enables connection to up to four kinds of PLCs of different manufacturers.



*1: When connecting GT16 to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

All the models are compatible with multimedia and video/RGB units

- Compatible with recording and playing back high resolution motion images The Multimedia functions capable of recording and playing back smooth flow of motion images can visually check and monitor site conditions in an emergency and give instructions in the form of motion image manuals.
- The 15" type is also compatible with video/RGB Even when displaying motion images from four video cameras in four respective windows simultaneously on the screen, the GT16 displays natural, smooth, and large motion images without skipping image cells.

Featuring an analog touch panel

Layout flexibility allows to create desired pictures
 Free to lay out objects such as touch switches, enabling creation of desired screens.
 The clear display without grids makes it easy to recognize pictures and characters.

- Overlap window extension
 - Displaying up to 5 overlapped windows on the screen at one time. (Up to 2 for models other than the GT16)
 - More information appears simultaneously on the screen, improving flexibility in screen design.
- Batch self check function
 - Enables to easily check the GOT operation history on a utility screen, helping you to locate the cause of the problem.
 - Even if not set up in advance by the GT Designer2, the utility screen shows the data for the user to check. It is useful in an emergency.

GOT enhanced by new functions

- TrueType font is added (7 segments numerical display)(GT16, GT15, GT11)
 - The TrueType number fonts enable seven-segment display.
- Operability of GT Designer2 is improved (GT16, GT15, GT11)
 - Duplication of object
 - When "Duplicate" is selected from the context menu that is prompted by right click on the editor screen, copy and paste are done at one time, enabling to quickly create graphics and objects of the same configuration.

Guideline

• Simply lay out the graphics and objects along the guidelines, and you can align and position them easily and neatly.

Device list/batch device conversion

- Listing devices used in a script and batch conversion of device numbers are available, increasing editing efficiency.
- Reading out other project data the corresponds to the script, improving data sharing.

Define the width/height of objects and figures numerically

- Use the toolbars and property sheets to define the X and Y coordinates, width and height of objects and figures.
- You can easily fine-tune the sizes dot by dot, which is otherwise difficult with a mouse.

Expanded manufactures and models of controllers

GT16/GT15/GT11/GT10

Programmable controller (FX3G) is added.

F MITSUBISHI Programmable Controller in section 4.1

Third party programmable controller

LS INDUSTRIAL SYSTEMS programmable controllers (K300S, K200S, K120S and K80S) are added.^{*1}

CF LS INDUSTRIAL SYSTEMS programmable controller in section 4.3.18 *1: GT16 will soon be supported.

GT10

Third party programmable controller

SIEMENS programmable controllers (S7-300/400 series) are added.

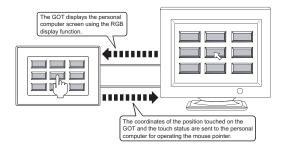
SIEMENS programmable controller in section 4.3.17

As of April 2008

GOT enhanced by new functions

Remote personal computer operation function

The function enables to operate the mouse pointer on a personal computer by touching the personal computer screen displayed on the GOT using the RGB display function.



Resource data send function (Supported by the MES interface function.)

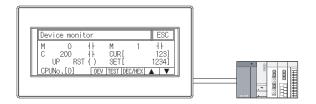
The resource data send function allows the GOT to send resource data collected in a GOT buffering area and a CF card to a database.

Device values for controllers, alarm data for the GOT, and others can be stored to the database without any communication programs.



Device monitor function (Supported by GT10.)

For a controller connected to the GOT, forcibly turning on or off devices of the controller and changing the set value or present value are available.



Computer link connection supports the connection to A series

Computer link connection supports the connection to A series for GT10.

Supporting the connection to CC-Link IE controller network

CC-Link IE controller network, which allows sending/receiving large size data at high speed connection, is now available.

Expanded manufactures and models of controllers

• GT15/GT11/GT10

Programmable controllers (Q02PHCPU^{*1}, Q06PHCPU^{*1}, Q03UDECPU, Q04UDEHCPU, Q06UDEHCPU, Q13UDEHCPU and Q26UDEHCPU) are added.

*1: Not supported by GT10.

F MITSUBISHI Programmable Controller in section 4.1

Third party programmable controller

OMRON programmable controller (CP1L) is added.

CF OMRON programmable controller in section 4.3.2

GT15/GT11

Third party programmable controller

KOYO EI programmable controllers (SU-5E, SU-6B, SU-5M, SU-6M, DL06, D2-250-1, D2-260 and PZ3) are added.

F KOYO EI programmable controller in section 4.3.4

GE FANUC programmable controllers (Series 90-70, Series 90-30 and VersaMax Micro) are added.

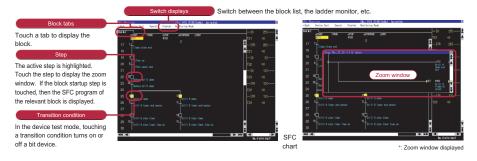
GE FANUC programmable controller in section 4.3.16

As of February 2008

GOT enhanced by new functions

SFC monitor function

The GOT can monitor a SFC program of a Q series programmable controller CPU with a SFC diagram, and users can save troubleshooting steps.



Supporting the device data transfer function

GT SoftGOT1000 supports the device data transfer function.

Expanded manufactures and models of controllers

GT15/GT11/GT10

Programmable controllers (Q13UDHCPU and Q26UDHCPU) are added.

MITSUBISHI Programmable Controller in section 4.1

Third party programmable controller

KEYENCE programmable controllers (KV-3000 and KV-5000) are added.

KEYENCE programmable controller in section 4.3.3

TOSHIBA MACHINE programmable controllers (TC3-01, TC3-02, TC6-00 and TC8-00) are added.

CF TOSHIBA MACHINE programmable controller in section 4.3.7 YASKAWA programmable controller (CP-312) is added.

YASKAWA programmable controller in section 4.3.13

GT15/GT11

Third party programmable controller

TOSHIBA programmable controller (model 2000 (S2T)) is added.

TOSHIBA programmable controller in section 4.3.6

GT10

Programmable controllers (Q02UCPU, Q03UDCPU, Q04UDHCPU and Q06UDHCPU) are added.

MITSUBISHI Programmable Controller in section 4.1

Expanded option devices

The memory loader for GT10, which allows writing and reading of various data, is added to option devices.

As of October 2007

Added new model

• The serial connection dedicated model (GT1155-QTBD) is added to GT11.

GT11 User's Manual

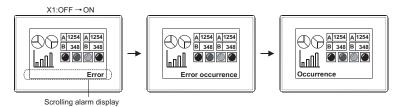
Supporting Windows Vista®

GT Designer2, GT Simulator2, and GT SoftGOT1000 are now compatible with Windows Vista®.

GOT enhanced by new functions

Scrolling alarm display function (GT11 and GT10)

The function enables user-created comments to scroll across the screen from right to left when an alarm occurs.



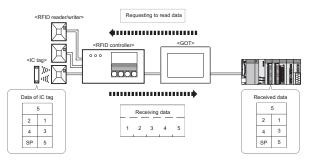
Starting up with CF card

Installing the extended function OS and option OS to the A drive (CF card) is now available.

Booting the GOT OS from the CF card (A drive) installed in the GOT is now available.

RFID connection

The function enables the GOT to write data received by a RFID reader/writer of a RFID controller connected to the GOT into devices.



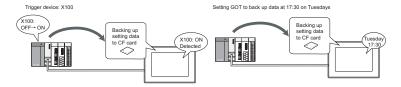
Device data transfer function

The function enables the GOT to read values of specified devices and write the values into the other devices at any timing or by trigger intervals.



Utilization of backup/restore function

The trigger backup enables the GOT to back up setting data for controllers automatically by setting the trigger device or the days and time.



Connection to MITSUBISHI industrial robots

The GOT now can be connected to CRnQ-700 and CRnD-700 robot controllers.

MODBUS®/TCP connection

MODBUS[®]/TCP connection is now available for connecting the GOT to Modicon Premium series and Modicon Quantum series of the SCHNEIDER programmable controller and STARDOM of the YOKOGAWA programmable controller.

Expanded manufactures and models of controllers

• GT15/GT11/GT10

The AJ65BT-R2N is added to a peripheral connection module for CC-Link connection (via G4).

CC-Link connection (via G4) in section 4.1.9

GT10

Inverter

Supporting the connection to FREQROL-500 series and FREQROL-700 series inverters

F Inverter connection in section 4.2.1

Supporting the connection to KEYENCE programmable controller

F KEYENCE programmable controller in section 4.3.3

Supporting the connection to MATSUSHITA programmable controller

[☐7] MATSUSHITA programmable controller in section 4.3.10 Supporting the connection to YASKAWA programmable controller

YASKAWA programmable controller in section 4.3.11

ABBREVIATIONS AND GENERIC TERMS

The following shows the abbreviations and generic terms used in this handbook.

GOT

Abbrev	Abbreviations and generic terms		Description
	GT SoftGO	T1000	Abbreviation for GT SoftGOT1000
	GT1695	GT1695M-X	Abbreviation of GT1695M-XTBA, GT1695M-XTBD
	GT1685	GT1685M-S	Abbreviation of GT1685M-STBA, GT1685M-STBD
	GT16 , GT16		Abbreviation of GT1695, GT1685
	GT1595	GT1595-X	Abbreviation for GT1595-XTBA and GT1595-XTBD
	GT1585	GT1585V-S	Abbreviation for GT1585V-STBA and GT1585V-STBD
		GT1585-S	Abbreviation for GT1585-STBA and GT1585-STBD
		GT1575V-S	Abbreviation for GT1575V-STBA and GT1575V-STBD
		GT1575-S	Abbreviation for GT1575-STBA and GT1575-STBD
	GT157	GT1575-V	Abbreviation for GT1575-VTBA and GT1575-VTBD
		GT1575-VN	Abbreviation for GT1575-VNBA and GT1575-VNBD
		GT1572-VN	Abbreviation for GT1572-VNBA and GT1572-VNBD
	07170	GT1565-V	Abbreviation for GT1565-VTBA and GT1565-VTBD
	GT156	GT1562-VN	Abbreviation for GT1562-VNBA and GT1562-VNBDn
		GT1555-V	Abbreviation for GT1555-VTBD
GOT1000	GT155	GT1555-Q	Abbreviation for GT1555-QTBD and GT1555-QSBD
Series		GT1550-Q	Abbreviation for GT1550-QLBD
	GT15, GT15		Abbreviation for GT1595, GT1585, GT157 , GT156 , and GT155
	GT115	GT1155-Q	Abbreviation for GT1155-QTBDQ, GT1155-QSBDQ, GT1155-QTBDA, GT1155-QSBDA, GT1155-QTBD, and GT1155-QSBD
		GT1150-Q	Abbreviation for GT1150-QLBDQ, GT1150-QLBDA, and GT1150-QLBD
	Handy	GT1155HS-Q	Abbreviation for GT1155HS-QSBD
	GOT	GT1150HS-Q	Abbreviation for GT1150HS-QLBD
	GT11 . , GT11		Abbreviation for GT115 and Handy GOT
	GT105	GT1055-Q	Abbreviation of GT1055-QSBD
		GT1050-Q	Abbreviation of GT1050-QBBD
	GT1030		Abbreviation for GT1030-LBD, GT1030-LBD2, GT1030-LBDW, GT1030-LBDW2, GT1030-LWD, GT1030-LWD2, GT1030-LWDW, and GT1030-LWDW2
	GT1020		Abbreviation for GT1020-LBD, GT1020-LBD2, GT1020-LBL, GT1020-LBDW, GT1020-LBDW2, GT1020-LBLW, GT1020-LWD, GT1020-LWD2, GT1020-LWL, GT1020-LWDW, GT1020-LWDW2, and GT1020-LWLW
	GT10□□, GT10		Abbreviation of GT105 , GT1030, GT1020
GOT900 Se	000 Series		Abbreviation for GOT-A900 series and GOT-F900 series
GOT800 Se	eries		Abbreviation for GOT-800 series

Others

Abbreviations and generic terms	Description
ALLEN-BRADLEY	Generic term for Allen-Bradley that is a brand name of products manufactured by Rockwell Automation, Inc.
CHINO	Abbreviation for CHINO CORPORATION
FUJI FA	Abbreviation for Fuji Electric FA Components & Systems Co., Ltd.
FUJI SYS	Abbreviation for Fuji Electric Systems Co., Ltd.
GE FANUC	Abbreviation for GE Fanuc Automation Corporation
HITACHI	Abbreviation for Hitachi, Ltd.
HITACHI IES	Abbreviation for Hitachi Industrial Equipment Systems Co., Ltd.
JTEKT	Abbreviation for JTEKT Corporation
KEYENCE	Abbreviation for KEYENCE CORPORATION
KOYO EI	Abbreviation for KOYO ELECTRONICS INDUSTRIES CO., LTD.
LSIS	Abbreviation for LS Industrial Systems Co., Ltd.
MATSUSHITA	Abbreviation for Matsushita Electric Works, Ltd.
OMRON	Abbreviation for OMRON Corporation
RKC	Abbreviation for RKC INSTRUMENT INC.
SCHNEIDER	Abbreviation for Schneider Electric SA
SHARP	Abbreviation for Sharp Corporation
SHINKO	Abbreviation for SHINKO TECHNOS CO., LTD.
SIEMENS	Abbreviation for Siemens AG
TOSHIBA	Abbreviation for TOSHIBA CORPORATION
TOSHIBA MACHINE	Abbreviation for TOSHIBA MACHINE CO., LTD.
YAMATAKE	Abbreviation for Yamatake Corporation
YASKAWA	Abbreviation for YASKAWA ELECTRIC CORPORATION
YOKOGAWA	Abbreviation for Yokogawa Electric Corporation
MELSECNET/H	Abbreviation for MELSECNET/H network system
MELSECNET/H module	Abbreviation for MELSECNET/H network module
MELSECNET/10	Abbreviation for MELSECNET/10 network system
MELSECNET/10 module	Abbreviation for MELSECNET/10 network module
PC CPU module	Abbreviation for PC CPU Unit manufactured by CONTEC CO., LTD.
GOT (Server)	Abbreviation for GOTs that use the server function
GOT (Client)	Abbreviation for GOTs that use the client function
Windows [©] font	Abbreviation for TrueType font and OpenType font available for Windows [©] (Differs from the True Type fonts settable with GT Designer2)
Intelligent function module	Generic term for the modules other than the programmable controller CPU, power supply module, and I/O module that are mounted on a base unit
MODBUS [©] /TCP	Generic term for the protocol designed to use MODBUS^{\odot} protocol messages on a TCP/ IP network

CONTENTS

INTRODUCTION.	. A-1
HOW TO USE THIS HANDBOOK	. A-1
MANUALS	. A-2
NEWLY ADDED FUNCTIONS	. A-3
ABBREVIATIONS AND GENERIC TERMS	A-12
CONTENTS	A-14

1 GOT

	Product Lineup.	
	Specification	
	Part Name	_
1.4	Installation	17
1.5	External Dimensions	18

1

21

2	SOFTWARE	
4	SOLIWARE	

2.1	Product Lineup.	. 22
2.2	Specifications (Operating Environment)	. 25

3 FUNCTION

FUNCTION	27
3.1 Functions	
3.2 Precautions for Use	30
3.3 Overview of Each Function	52

4 CONNECTION CONFIGURATION

CONFIGURATION	83
4.1 MITSUBISHI Programmable Controller	
4.1.1 Connection type	
4.1.2 Bus connection	
4.1.3 Details of bus connection.	
4.1.4 Direct CPU connection	
4.1.5 Computer link connection	132
4.1.6 MELSECNET/H connection	
4.1.7 MELSECNET/10 connection	
4.1.8 CC-Link IE controller network connection	152
4.1.9 CC-Link connection (intelligent device station)	154
4.1.10 CC-Link connection (via G4)	
4.1.11 Ethernet connection	
4.2 Other MITSUBISHI controllers	
4.2.1 Inverter connection	
4.2.2 Servo amplifier connection	
4.2.3 Robot controller connection	
4.2.4 CNC (MELDAS C6/C64) connection	
4.2.5 Multiple-GT11/GT10 connection	
4.3 Third Party Programmable Controller	
4.3.1 Connection type	
4.3.2 OMRON programmable controller	

4.3.3 KEYENCE programmable controller	191
4.3.4 KOYO El programmable controller	192
4.3.5 SHARP programmable controller	194
4.3.6 JTEKT programmable controller	
4.3.7 TOSHIBA programmable controller	
4.3.8 TOSHIBA MACHINE programmable controller	
4.3.9 HITACHI IES programmable controller.	
4.3.10HITACHI programmable controller	201
4.3.11FUJI FA programmable controller.	202
4.3.12 MATSUSHITA programmable controller	203
4.3.13 YASKAWA programmable controller	204
4.3.14 YOKOGAWA programmable controller	
4.3.15 ALLEN-BRADLEY programmable controller	209
4.3.16 GE FANUC programmable controller	
4.3.17 SIEMENS programmable controller.	
4.3.18 LS INDUSTRIAL SYSTEMS programmable controller	216
4.4 Microcomputer connection	218
4.5 MODBUS(R)/TCP connection	222
4.6 Temperature Controller.	
4.6.1 Connection type	
4.6.2 OMRON temperature controller	
4.6.3 SHINKO indicating controller	
4.6.4 CHINO controller	
4.6.5 FUJI SYS temperature controller	234
4.6.6 YAMATAKE temperature controller	
4.6.7 YOKOGAWA temperature controller	
4.6.8 RKC temperature controller	
4.7 Other Devices	242
4.7.1 Sound output	242
4.7.2 External I/O.	
4.7.3 Bar code reader connection	244
4.7.4 Video/RGB connection	
4.7.5 Multimedia connection	
4.7.6 Printer connection.	250
4.7.7 Remote personal computer operation connection	
4.7.8 RFID connection	
4.8 Precautions	254

5 COMPLIANCE WITH OVERSEAS STANDARDS

6 EQUIPMENT, SOFTWARE, AND MANUALS

7 GLOSSARY

255

261

1. GOT

This chapter describes the GOT overview.

1.1	Product Lineup2
1.2	Specification9
1.3	Part Name
1.4	Installation
1.5	External Dimensions18

1. GOT

1.1 Product Lineup

●GT16

With a variety of integrated functions, such as Ethernet and multimedia



Resolution: XGA 1024 × 768 Display color: 65536 colors

Multimedia, video/RGB model





Resolution: SVGA 800 × 600 Display color: 65536 colors

Multimedia, video/RGB model



●GT15

Wide range of use from network to stand alone



TFT (High intensity and wide angle view) GT1595-XTBA AC type GT1595-XTBD DC type

Resolution: XGA 1024 × 768 Display color: 65536 colors





Resolution: SVGA 800×600 Display color: 65536 colors Video/RGB compatible





Resolution: VGA 640 ×480 Display color: 256 colors





Resolution: SVGA 800×600 Display color: 65536 colors Video/RGB compatible





Resolution: SVGA 800×600 Display color: 65536 colors





Resolution: VGA 640×480 Display color: 16 colors





Resolution: SVGA 800×600 Display color: 65536 colors





Resolution: VGA 640×480 Display color: 65536 colors





1

GOT

2

SOFTWARE

3

FUNCTION

4

CONNECTION CONFIGURATION

5

COMPLIANCE WITH OVERSEAS STANDARDS

6

EQUIPMENT, SOFTWARE, AND MANUALS

7

GLOSSARY



GT1565-VTBD DC type

Resolution: VGA 640 × 480 Display color: 65536 colors





Resolution: VGA 640 × 480 Display color: 16 colors





Resolution: VGA 640×480 Display color: 65536 colors





Resolution: QVGA 320×240 Display color: 65536 colors





Resolution: QVGA 320×240 Display color: 4096 colors





Resolution: QVGA 320×240 Display color: Monochrome in 16-level



●GT11

Enhanced with basic functions for stand alone application

5.7 TFT type GT1155-0TBD DC type Connection*1 GT1155-0TBDA DC type Abus GT1155-0TBDA DC type Abus Connection*2 Resolution: QVGA 320×240

Display color: 256 colors



Resolution: QVGA 320×240 Display color: 256 colors



Resolution: QVGA 320×240 Display color: Monochrome in 16-level



type



5.7

type



Handy GOT/STN GT1155HS-QSBD DC type

Resolution: QVGA 320×240 Display color: 256 colors



Resolution: QVGA 320×240 Display color: Monochrome in 16-level

Handy GOT/STN

GT1150HS-QLBD DC type



*1: For QCPU (Q mode)/Motion controller CPU (Q series) connection

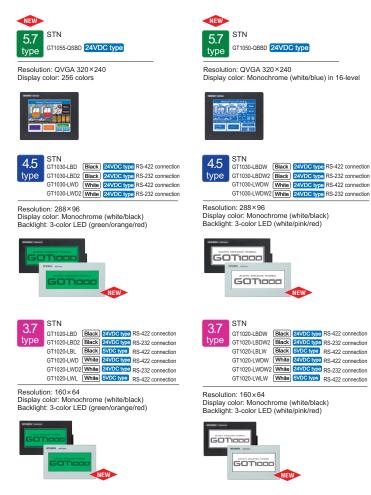
*2: For QnA/ACPU/Motion controller CPU (A series) connection

1

GOT

GT10

Including all the basic functions required for a HMI display



Use your personal computer as a GOT

GT SoftGOT1000 Version2 For GOT1000

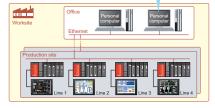
Screen data created by GT Designer2 Version2 can be used without conversion. GT SoftGOT1000 is an HMI software which offers the GOT1000 functions on personal computers and panel computers.

Remote monitoring over the factory LAN

- Conditions at the production sites can be monitored from a remote location.
- Multiple instances of GT SoftGOT1000 can run on a single personal computer. Reduce cost by minimizing



the system recovery time. Upon occurrence of problems, the status of on-site equipment can be quickly monitored from your office This reduces the time for an initial diagnosis.



Connection with MELSEC instrumentation

- the new process control CPUs (Q02PH and Q06PHCPU).
- Now compatible with GT SoftGOT1000 and PX Developer monitoring tools can be connected to easily establish an instrumentation monitoring system.

PX Developer face plate and other tools

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

GT SoftGOT1000 (English version) operating environment

Item	Description						
Item	With DOS/V personal computer	With PC CPU module					
Personal computer	PC/AT compatible PC on which Windows® 2000, Windows® XP, or Windows Vista® operates.	CONTEC PC CPU unit (PPC-852-212, PPC-852-217, PPC-852-226) ⁷					
OS	Microsoft® Windows® 2000 Professional Operating System Service Pack 4 or taker (English version) ²⁻¹⁴ Microsoft® Windows® VP Professional Operating System Service Pack 2 or taker (English version) ²⁻¹⁴ Microsoft® Windows® VP Home Edition Operating System (English version) ²⁻¹⁴ Microsoft® Windows® VE Embedded Operating System (English version) ²⁻¹⁴ Microsoft® Windows Visat® Utilimate Operating System (English version) ²⁻¹⁴ Microsoft® Windows Visat® Enterprise Operating System (English version) ²⁻¹⁴ Microsoft® Windows Visat® Enterprise Operating System (English version) ²⁻¹⁴ Microsoft® Windows Visat® Home Perenium Operating System (English version) ²⁻¹⁴ Microsoft® Windows Visat® Home Basic Operating System (English version) ²⁻¹⁴ Microsoft® Windows Visat® Home Basic Operating System (English version) ²⁻¹⁴ Microsoft® Windows Visat® Home Basic Operating System (English version) ²⁻¹⁴ Microsoft® Windows Visat® Home Basic Operating System (English version) ²⁻¹⁴						
CPU	Other than Microsoft [®] Windows Vista [®] : Pentium2 [®] 300MHz or higher Microsoft [®] Windows Vista [®] : 800MHz or higher (recommended: 1GHz or more)						
Required memory	Other than Microsoft [®] Windows Vista [®] Microsoft [®] Windows Vista [®] : 512MB or						
Free hard disk space"1	For installation (product only): 600MB	or more					
Disk drive	CD-ROM disk drive						
Display colors	65536 colors or more						
Display	Display usable on the above OS, which has a	a resolution of VGA (640 ' 480 dots) or higher					
Software	When creating or editing project data When using with PX Developer	: GT Designer2 ¹⁵ : PX Developer Version 1.13P or later GT Designer2 Version 2.45X or later					
Hardware ^{*6}	GT15-SGTKEY-U (License key (for USB port)) GT15-SGTKEY-P (License key (for parallel port))	GT15-SGTKEY-U (License key (for USB port))					
Other	Internet Explorer Ver. 5.0 or higher mu Mouse, keyboard, printer and CD-ROM						



Better linkage with other applications and more flexibility when creating screens

- Create a screen at a desired resolution depending on the applicable space on the screen. This function is useful when simultaneously displaying the GT SoftGOT1000 screen with another application software program on a personal computer display. (Screen size can be specified in the range of VGA to UXGA)
- Full-screen display: The whole monitoring screen such as XGA can be displayed in full-screen by hiding the title bar and the menu bar. Moreover, the screen size can be freely changed from other applications.
- Internal device interface functions: By using internal device interface functions, user-created applications can read/write data from/to the GOT internal devices. It is possible to link data to user applications such as a data logger in order to develop advanced systems that can run in cooperation with applications.

Development environment of user applications>

Microsoft® Visual C++.NET2003, Microsoft® Visual C++ (Version.6.0), Microsoft® Visual Basic.NET2003, Microsoft® Visual Basic (Version.6.0)

Startup of other applications: In full-screen mode, other applications can be started with touch switches on the monitor screen of the GT SoftGOT1000.



Clicking on buttons executes various operations such as starting up the 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

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.)

Specification

Item							
Resolution (dots)	640 ×480, 800 ×600, 1024 ×768, 1280 ×1024, 1600 ×1200 Specifiable resolution (640 to 1600 × 480 to 1200)						
Display colors	65536 colors						
Memory capacity	57MB						
Connection configuration ^{*10}	Bus connection ^{*11} , CPU direct connection, computer link connection, CC-Link IE controller network connection, MELSECNET connection, Ethernet connection						
space is also requir 2: Administrator suthori 13: Administrator suthori 14: The following function - Compatible Mode - Deskop Theme (F 15: GT Designe2 and G Winks2/GT Desgrad The PC must be equir The PC must be equir The PC must be equir to use the GT15-SG 7: For CONTEC PC CP 16: Use is possible only 19: 10: The required device	11. Use of Of Designed and PX Developer requires additional vacant memory space. To these space requires additional vacant memory space for these space requirements, infect to the Of Designed Developer Version 1 Operation Manual (Monitor Tool), Additional memory space is also required when using uncernated applications. 2. Administration automity is required to install and operate GT 56/GOT1000 3. Administration automity a required to install and operate GT 56/GOT1000 3. Administration automity a required to install and operate GT 56/GOT1000 3. Compatible Mode - Fact User Switching 0. Desktop Theme (Ford) Change - Rennote Desktop 1. Theme (Ford) Change - Rennote Desktop 1. The Cinuct be equipped with a parallel port (Centrolprinter connector) to use the GT SS/GTEV-9. 3. The CONTEC PC CPU unit, refer to the amailed for the PC CPU module. 3. Use a possible software for the amailed port (Destrolprinter 3. Less possible only when PPC 6-252 is perinstalled. 3. The required devices any depending on the connection configuration. 3. Concellable only when PPC 6-252 is perinstalled.						
	not operable on the GT SoftGOT1000. inctions list" (page 28, 29).						

1.1 Product Lineup

3LOSSARY

AND MANUAL EQUIPMENT SOFTWARE

GOT

2

SOFTWARE

3

FUNCTION

4

CONNECTION

5

COMPLIANCE WITH OVERSEAS STANDARDS

1.2 Specification

GT16

General specifications

Item		Specification						
Operating ambient Display		0°C to 50°C						
temperature*1	Other than display			0°C to	55°C			
Storage ambien	it temperature			-20°C	to 60°C			
Operating ambi	ent humidity			10 to 90%RH, r	no condensation			
Storage ambien	t humidity			10 to 90%RH, r	no condensation			
				Frequency	Acceleration	Half amplitude	Sweep count	
		Conforming to JIS B 3502	Under intermittent	5 to 9Hz	-	3.5mm	10 times in	
Vibration resistance		and	vibration	9 to 150Hz	9.8m/s ²	-	each of X, Y and Z	
			Under continuous	5 to 9Hz	-	1.75mm		
			vibration	9 to 150Hz	4.9m/s ²	-	directions	
Impact resistant	ce	Conforming to JIS B 3502 and IEC 61131-2 (147m/s ² , 3 times in each of X, Y and Z directions)						
Operating atmo	sphere			No corro	sive gas			
Operating altitud	de*2			2000m	or less			
Installation local	tion			In contr	ol panel			
Overvoltage cat	legory*3]] or lower						
Contamination I	evel*4			2 or	less			
Cooling method				Self-c	ooling			
Grounding		T	/pe D grounding (1	00Ω or less). 0	Connect to pane	I 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

- (s) from-wainty, MELSacEurce in communication tails (c) in 52-30 (12-32-3) or C115-31/1813), or CC-Link communication tail (C)115-318113), 22 : Do not operate or store the GOT unit in pressurated environments where the pressure exceeds the 60 elevation atmospheric pressure, as this could result in abnormal operation.

- resuming value are device a committeed as sume point detivitient. Category II applies to devices that are supplied with power from fixed equipment. The surge withstand voltage is 2500 / for devices with training up to 3300." *4 due to occasional condensation.

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

Performance specifications

		Specif	ication			
Item		GT1695M-XTBA GT1695M-XTBD	GT1685M-STBA GT1685M-STBD			
	Туре	TFT color LCD (high-brigh	tness, wide viewing angle)			
	Screen size	15"	12.1"			
	Resolution	XGA: 1024×768 [dots]	SVGA: 800×600 [dots]			
	Display size	304.1(W)×228.1(H)[mm]	246(W) ×184.5(H)[mm]			
	No. of displayed	16-dot standard font: 64 chars.x48 lines (2-byte)	16-dot standard font: 50 chars.x37 lines (2-byte)			
Display	characters	12-dot standard font: 85 chars.×64 lines (2-byte)	12-dot standard font: 66 chars × 50 lines (2-byte)			
*1	Display colors	65536	colors			
	View angle*2	Right/left: 75°, Up: 50°, Down: 60°	Right/left: 80°, Up: 60°, Down: 80°			
	Intensity	450 [cd/m ²]	470 [cd/m ²]			
	Intensity adjustment	8-step ad	ljustment			
		Approx. 52	000 hours			
	Life	(operating ambient	temperature: 25°C)			
		Cold-cathode fluorescent tube (replaceab	le), with backlight OFF detection function			
Backligh	t	Backlight off time and scr				
		Approx. 50,000) hours or more			
	Life*3		t operating ambient temperature of 25°C)			
	Туре	Analog res	sistive type			
Touch	Key size		ots] (per key)			
panel	No. of simultaneous touch points	Simultaneous touch pro				
	Life		perating force 0.98N or less)			
	Detection distance		m]			
Human	Detection range	Right/left/u				
sensor	Detection delay time	0 to 4				
	Detection temperature					
	Detection temperature	Temperature difference to be 4°C or more between human body and ambient air				
Memory	C drive	15MB built-in flash memory (for saving project data and OS)				
*5	Life (No. of writings)	100,000 times				
	Life (No. of Writings)	GT15-BAT type lithium battery				
Battery	D					
Dattery	Backed up data		ification data and system log data			
	Life		ambient temperature: 25°C)			
		Terrenierier erred: 445200/57/	2, 1ch			
		Transmission speed: 115200/576	500/38400/19200/9600/4800bps,			
	RS-232	Transmission speed: 115200/576 Connector shape:	300/38400/19200/9600/4800bps, D-sub 9-pin (male)			
	RS-232	Transmission speed: 115200/576 Connector shape: Application: Communicatio connection to pe	500/38400/19200/9600/4800bps, D-sub 9-pin (male) on with connected devices, irsonal computer			
	RS-232	Transmission speed: 115200/57 Connector shape: Application: Communicatio connection to pe (project data upload/download, OS	500/38400/19200/9600/4800bps, D-sub 9-pin (male) on with connected devices, risonal computer installation, FA transparent function)			
	RS-232	Transmission speed: 115200/576 Connector shape: Application: Communicatic connection to pe (project data upload/download, OS RS-422/	500/38400/19200/9600/4800bps, D-sub 9-pin (male) on with connected devices, resonal computer installation, FA transparent function) 485, 1ch			
		Transmission speed: 115200/57 Connector shape: Application: Communicatic connection to pe (project data upload/download, OS RS-422/ Transmission speed: 115200/57	300/38400/19200/9800/4800bps, D-sub 9-pin (male) n with connected devices, rsonal computer installation, FA transparent function) 485, 1ch 500/38400/19200/9600/4800bps			
	RS-232 RS-422/485	Transmission speed: 11520/57/ Connector shape: Application: Communicatic connection to pe (project data upload/download, OS RS-422/ Transmission speed: 11520/57/ Connector shape	500/38400/19200/9600/4800bps, D-sub 9-pin (male) on with connected devices, rsonal computer installation, FA transparent function) 485, 1ch 500/38400/19200/9600/4800bps : 14-pin (female)			
		Transmission speed: 11520/57/ Connector shape: Application: Communicatic connection to pe (project data upload/download, OS Transmission speed: 11520/57/ Connector shape Application: Communicati	500/38400/19200/9600/4800bps, D-sub 9-pin (male) n with connected devices, rsonal computer installation, FA transparent function) 485, 1ch 500/38400/19200/9600/4800bps :: 14-pin (female) n with connected devices			
		Transmission speed: 115200/57/ Connector shape: Application: Communicati connection to pe (project data upload/download. OS RS-422) Transmission speed: 115200/57 Connector shape Application: Communicati Data transfer system	500/38/00/1920/04800bps, D-sub 9-pin (male) on with connected devices, risonal computer installation, FA transparent function) 485, 1ch 500/38/400/19200/9600/4800bps i: 14-pin (female) on with connected devices : 10BASE-TX, 1ch			
		Transmission speed: 115200/57/ Connector shape: Application: Communicati connection to pe (project data upload/download, 05 Transmission speed: 115200/57 Connector shape Application: Communicati Data transfer system Connector shape. F:	300/38/00/1920/04800bps, D-suls 9-pin (male) nn with connected devices, rsonal computer installation, FA transparent function) 485, 1ch 600/38/40/19200/9600/4800bps 1: 14-pin (female) nn with connected devices n: v100BASE-TX, 1ch L-45 (modulur jack)			
Built-in	RS-422/485	Transmission speed: 115200/571 Connector shape: Application: Communication connection to pe (project data upload/download, 05 (project data upload/download, 05 RS-422/ Transmission speed: 115200/57 Application: Communication Data transfer system Connector shape: E Application: Communication with co- connector shape: E	50038400/19200960/4800bps, D-cub 9pin (mail) n with connected devices, ristallation, FA transparent function) 485, 1ch, 6003840/01/9200/9600/4800bps 1: 4Ppin (femails) n with connected devices 1: 100BASE-TX, 1ch 1J-26 (modular jack) neneted devices, gateway function, risonal computer			
Built-in interface	RS-422/485	Transmission speed: 115200/571 Connector shape: Application: Communication connection to pe (project data upload/download, 05 (project data upload/download, 05 RS-422/ Transmission speed: 115200/57 Application: Communication Data transfer system Connector shape: E Application: Communication with co- connector shape: E	300/38/00/1920/09600/4800bps, D-sub 9-pin (male) snoal computer installation, FA transparent function) 485, 1-th 500/38/400/1920/9600/4800bps : 1-4 pin (manabel) on with connected devices : 1-4 pin (manabel) on with connected devices : 1-100BASE-TX, 1-th L-H-5 (modular jack) nueted devices, gateway function,			
	RS-422/485	Transmission speed: 11520057/ Connector shape: Application: Communicatic connection tape: (project data uploaddownicad, OS Application: Communication Application: Communication Data transfer system Connector shape: Application: Communication with co connector shape: (project data uploaddownicad, OS USB (ful-speed 1) USB (ful-speed 1)	500/38/00/1920/0960/48/00bps, D-auß-Pain (main) m wiht connected devices, mainland, FA transparent function) 485, rch 100/03/8/0960/48/00bps 100/03/8/06/14/00/08/04/00/0bps 100/03/8/5/TX, rch 12-65 (mondular jack) nnected devices, gateway function, resonal computer installation, MES Interface function) 20/bps), host 1ch			
	RS-422/485	Transmission speed: 11520057 Connector shape: Application: Communicate Application: Communicate (roject data upbad/download, OS) Transmission speed: 11520057 Transmission speed: 11520057 Connector shape Application: Communication (project data upbad/download, OS (project data upbad/download, OS) Connector shape: Connector shape:	50038400/15200/960/4800bps, D-aib Bpin (main) in will connected devices, in will connected devices, in will connected devices in the statistical for the state of the state of the state of the state of the state of the state of the state of the state in the state of the state of the state in the state of the state of the state in the state of			
	RS-422/485 Ethernet	Transmission speed: 11520057/ Connector shape: Application: Communicate (project data uploaddowniad, OS (project data uploaddowniad, OS Application: Communicate Application: Communicate Application: Communicate (project data uploaddowniad, OS (project data uploaddowniad, OS (project data uploaddowniad, OS) (project data uploaddowniad, OS)	500/38/00/1920/0960/48/00bps, D-auß-pain (main) m wiht connected devices, issanal computer nataliation, FA transparent function) 485, rch 1000/38/01/96/014/80/0960/48/00bps in 0000-880/96/014/80/00 1000/38/5/TX, 1ch 12/65 (motular) in wiht connected devices in 1000ABSETX, 1ch 12/65 (motular) installation, MES Interface function) 78/bps), host 1ch aper: TYPE-A aper: TYPE-A amefir and storage			
	RS-422/485	Transmission speed: 11520057/ Connector shape: Application: Communication (project data upload/downioad, OS) (project data upload/downioad, OS) Transmission speed: 11520057. Connector shape: Application: Communication (project data upload/downioad, OS) (project	50038400/19200/9600/4800bps, Dealb Spin (main) in with connected devices, installation, FA transparent function) 485, 1ch solo32800/4800/4800bps I: 14-pin (femails) in with connected devices I: 1008ASE-TX, 1ch L-146 (modular) seaway function, innected devices, galeway function, innected devices, galeway function, installation, MSE interface function) 2Mbps), host (ch amfer and storage aps: TYPEA amfer and storage			
	RS-422/485 Ethernet	Transmission speed: 11520057/ Connector shape: Application: Communicate connection tape: (project data uploaddownload, OS Re4-222 Transmission speed: 11520057/ Connector shape: Application: Communication Data transfer system Application: Communication Commention tape (project data uploaddownload, OS USB (full-speed Connector shaped) (USB (full-speed 12 Connector shaped)	50038400/19200/9800/4800bps, D-sub-9pin (main) na with connected devices, insonal computer nataliation, FA transparent function) 485, tch 000/38400/1920/480040800bps (1 - tip-ni (fernal) on with connected devices on with connected devices in with connected devices nore (includencia, galeway function, resonal computer installation, MES Interface function) aper: TYPEA amafer and storage Mbps), device 1ch e: TYPE Min-B			
	RS-422/485 Ethernet	Transmission speed: 11520057/ Connector shape: Application: Communicate (project data upload/downioad. OS (project data upload/downioad. OS Connector shape Application: Communication Data transfer system Connector shape (project data upload/downioad. OS (project data upload/downioad. OS (project data upload/downioad. OS Data funster: Data tu UBB (full-speed 1 Application: Data tu Connector shape Application: Data tu	500/38/00/19200/9800/4800bps, Desite 9 prin (main) an with connected devices, installation, FA transprent function) 485, fch 500/38/00/192000/98004800bps t: 14-prin (female) netced devices, gateway function, rostal advices, the rostal advices of the restallation, MES Interface function) 200ps), ficat fch manfer and storage Maps), device 1ch ex: TYPE Min-18			
	RS-422/485 Ethernet	Transmission speed: 11520057/ Connector shape: Application: Communicate connection tape: (project data uploaddownidad, 05 Re4-22 Transmission speed: 11520057/ Connector shape: Application: Communication Data transfer system Application: Communication Market answer system (project data uploaddownidad, 05 USB (ful-speed 1 Connector sha Application: Cable speed (project data uploaddownidad, 05 USB (ful-speed 1 Connector sha Application: Commetor (project data uploaddownidad, 05)	500/38/00/1920/0960/48/00bps, D-aub 9-pin (main) navith connected devices, issonal computer nataliation, FA transparent function) 485, tch 000/38/00/1920/0960048000bps 1: H-pin (femail) 000/38/00/1920/0960048000bps 1: H-pin (femail) 000/38/00/1920/0960048000bps 1: H-pin (femail) 000/38/00/1920/0960048000bps 1: H-pin (femail) 000/38/00/1920/096004800 nore-life devices nore-life devices nore-life devices 1: Mobile A. Status 2000/38/00000000000000000000000000000000			
	RS-422/485 Ethernet	Transmission speed: 11520057/ Connector shape: Application: Communicate (project data upload/downioad, OS) (project data upload/downioad, OS) Connector shape Application: Communication Data transfer system Connector shape (project data upload/downioad, OS) UBB (full-speed) UBB (full-speed) UBB (full-speed) UBB (full-speed) UBB (full-speed) UBB (full-speed) UBB (full-speed) Connect shape Connect shape Connect shape Connect shape	500/38/00/1920/0960/48/00bps, D-cub 9-pin (mail) an with connected devices, installation, FA transprent function) 485, fdi 800/38/00/1920/0960048/00bps t: 14-pin (female) netced devices, gateway function, rostal addivices, table additional amafer and storage Mappi, device 1ch ex: TVPE Min-18 no personal computer rostallation, FA transparent function)			
	RS-422/485 Ethernet USB CF card	Transmission speed: 11520057/ Connector shape: Application: Communicate connection tape: (project data uploaddowniad, OS 186-4222 Transmission second 202057) Application: Communication Application: Communication Connector shape (project data uploaddowniad, OS USB (full-speed 1 Connector shape) (project data uploaddowniad, OS USB (full-speed 1 Connector shaped) (project data uploaddowniad, OS Connector shaped) (project data uploaddowniad, OS Connector shaped) (project data uploaddowniad, OS Connector shaped)	500/38/00/1920/0960/48/00bps, D-aub 9-pin (main) navith connected devices, issual computer nastalation, FA transparent function) 485, rch 000/38/00/0040/48/00bps 000/38/00/0040/48/00bps 000/004/0040/48/00bps 000/004/0040/48/00 1-0000A05-TX, fch Lodg (modular jack) neeked devices, gateway function, rsonal computer installation, MES interface function) 20/bps), host fch aper: TYPE An amefer and storage Mbps), device 1ch e: TYPE Min- amefer and storage to personal computer natelatation, FA transparent function) Connector shape: TYPE [
	RS-422/485 Ethernet USB CF card Optional function board	Transmission speed: 11520057/ Connector shape: Application: Communication (project data upload/downioad. OS) (project data upload/downioad. OS) Application: Communication Data transfer system Connector shape: Application: Communication with co connector shape (project data upload/downioad. OS) US Connector shape Application: Data ti US full-speed 1 Connector shape Application: Conta ti US full-speed 1 Connector shape Connector	500/38/00/19200/9800/4800bps, Desite 9 prin (main) an with connected devices, installation, FA transparent function) 485, 1ch storslaubic 72000/9800/4800bps t: 14-prin (female) neted devices, gateway function, restallation, MES Interface function) 240ps), host 1ch restallation, MES Interface function) 240ps), host 1ch marfer and storage Mipps), device 1ch e: TYPE Min-18 no to personal computer installation, FA transparent function) 200 neotor shares in board installation			
interface	RS-422/485 Ethernet USB CF card Optional function board Extension unit	Transmission speed: 11520057/ Connector shape: Application: Communicate connection tape: (project data uploaddownicad, OS Connector steps): Application: Communication Application: Communication Connector shape: Application: Communication Connector shape: (project data uploaddownicad, OS (project data uploaddownicad, OS USB (full-speed 12 Connector shape): (project data uploaddownicad, OS Connector shape): (project data uploaddownicad, OS Connector shape): (project data uploaddownicad, OS Connector shape): Connector shape): (project data uploaddownicad, OS Connector shape): (project data uploaddownicad, OS) Connector shape): (project data uploaddownicad, OS) (project da	500/38/00/19200/9800/4800bps, D-sub-9pin (mail) m with connected devices, issual computer natilation, FA transparent function) 485, rch 000/38/01/68/01400/08/04/00/0bps 000/38/01/68/0140 000/38/01/68/0140 000/38/01/68/0140 000/38/01/68/0140 000/38/01/68/0140 000/38/01/68/0140 000/38/01/68/0140 01/28/000/38/0140 01/28/01/28/0140 01/28/01/28/01/28/0140 01/28/01/28/0140 01/28/01/28/01/28/01/28/01/28/01 Connector shape: TVFE I data storage of startup ion board installation Titypional unit installation			
Buzzer c	RS-422/485 Ethernet USB CF card Optional function board Extension unit uutput	Transmission speed: 11520057/ Connector shape: Application: Communication (project data upload/downioad. OS (project data upload/downioad. OS Connector shape: Application: Communication Data transfer system Connector shape: Application: Communication with co connector shape: (project data upload/downioad. OS Connector shape: Application: Data to Oconnector shape: Connector shap	500/38/00/19200/9800/4800bps, Desite 9 prin (main) an with connected devices, installation, FA transparent function) 485, 1ch stollation, FA transparent function, 485, 1ch stollation, FA transparent function, 500/38/00/19200/9800/4800bps t: 1008ASE-TX, 1ch LJ-45 (modular jack) function, restand computer stransform, MES Interface function) 2007/2007/2007/2007/2007/2007/2007/2007			
Buzzer o Protectiv	RS-422485 Ethernet USB CF card Optional feedine hourd Extension unit Extension unit	Transmission speed: 11520057/ Connector shape: Application: Communication (project data upload/downioad. OS (project data upload/downioad. OS Connector shape: Application: Communication Data transfer system Connector shape: Application: Communication with co connector shape: (project data upload/downioad. OS Connector shape: Application: Data to Oconnector shape: Connector shap	500/38/00/19200/9800/4800bps, D-sub-9pin (mail) m with connected devices, issual computer natilation, FA transparent function) 485, rch 000/38/01/6mrable 00			
Buzzer o Protectiv External	RS-422/485 Elbernet USB CF card Qtional function load Extension unit utput e construction	Transmission speed: 11520057/ Connector shape: Application: Communication (project data upload/download, OS) (project data upload/download, OS) Connector shape Application: Communication Data transfer system Connector shape Application: Communication with co connector shape (project data upload/download, OS) UBS (full-speed) (project data upload/download, OS) Compart data upload/download, OS) Compart data upload/download, OS Compart fash akit, the, Application: Data transfer, 16th for optional fanda, 2ch for communication un Single tone, times JEM1030 Front: IP	50038400/15200/960/4800bps, D-sub 9pin (mail) an with connected devices, m with connected devices, storage of the storage of the storage storage of the storage of the storage storage of the storage of the storage in storage of the storage of the storage mater and atorage of the storage ander and storage of the storage mater and storage of the storage of the storage on board installation installation, FA transparent function; connector storage of the storage of the storage of the storage of the storage of the storage of the storage of the storage of the storage of the storage of the storage of the storage of the storage of the storage storage of the storage of the storage storage of the storage of the storage of the storage storage of the storage			
Buzzer o Protectiv External (without	RS-422/485 Ethernet USB CF card Gytonal function band Ethernison unit USB port covery	Transmission speed: 11520057/ Connector shape: Application: Communicate connection tape: (project data uploaddominad, OS Connector shape: 11520057) Connector shape: 11520057 Connector shape: 11520057	500/38/00/19200/9800/4800bps, D-sub-9pin (mail) m with connected devices, instant computer stantal computer stantal computer stantal computer stantal computer stantal computer stantal computer stantal computer installation, MES Interface function) 2Mpop), host computer installation, MES Interface function 2Mpop), host computer installation, Attainsparent function Connector shape: TYTE [] dias storage, oClarkup lone board installation interprint adjustable) 276 ^e In panel: IPZX 316(W) x 242(H) x52(D)(mm]			
Buzzer o Protectiv External (without Panel ou	RS-422485 Ethernet USB CF card Coronal functions board Extension unit Usput usput USB professions USB prof covert) (USB professions)	Transmission speed: 11520057/ Connector shape: Application: Communicate (project data upload/downioad. OS (project data upload/downioad. OS (project data upload/downioad. OS Application: Communication Data transfer system Connector shape (project data upload/downioad. OS (project data upload/downioad. OS Connector shape (project data upload/downioad. OS Connector shape Application: Data tu USB (ful-speed) Connector shape Application: Data tu Connector shape Application: Data tu Connector shape Competed statu SI (ful-speed) Competed statu SI (ful-speed) Competed statu SI (ful-speed) Competed SI Competed SI Compe	50038400/15200/9600/4800bps, D-cuB 9-pin (mail) an with connected devices, installation, FA transparent function) 485, 1ch stallation, FA transparent function, 485, 1ch using the state of the state of the state state of the state of the state of the state state of the state of the state of the state state of the state of the state of the state state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the s			
Buzzer c Protectiv External (without Weight (ex	RS-422/485 Ethernet USB CF card Cytonal function board Extension unit dimensions USB port covery it dimensions it dimensions it dimensions	Transmission speed: 11520057/ Connector shape: Application: Communicate connection tables (project data upload/downlead, OS Transmission speed: 1162-02/ Transmission speed: 1162-02/ Application: Communication Data transfer system Connector shape: Application: Communication (project data upload/download, OS USB (full-speed 1 Connector shape) (project data upload/download, OS Single tome (tone USB (full-speed 1 2ch for communication un Single tome (tone UEMT003 Front: IP) 397(W) x28(4)(H) x61(D)[mm] 383.5(W) x282.5(H)[mm]	50038400/15200/9600/4800bps, D-sub-9pin (mail) navith connected devices, installation, FAYansparent function) 485, 1ch (1990) 485, 1ch (1990) 184, 1ch (1990)			
Buzzer c Protectiv External (without Panel cu Weight (ex Applicable software	RS-422485 Ethernet USB CF card Coronal functions board Extension unit Usput usput USB professions USB prof covert) (USB professions)	Transmission speed: 11520057/ Connector shape: Application: Communicate connection tables (project data upload/downlead, OS Transmission speed: 1162-02/ Transmission speed: 1162-02/ Application: Communication Data transfer system Connector shape: Application: Communication (project data upload/download, OS USB (full-speed 1 Connector shape) (project data upload/download, OS Single tome (tone USB (full-speed 1 2ch for communication un Single tome (tone UEMT003 Front: IP) 397(W) x28(4)(H) x61(D)[mm] 383.5(W) x282.5(H)[mm]	50038400/15200/9600/4800bps, D-cuB 9-pin (main) an with connected devices, installation, FA transparent function) 485, 1ch stallation, FA transparent function, 485, 1ch using the state of the state of the state state of the state of the state of the state state of the state of the state of the state state of the state of the state of the state state of the state of the state of the state state of the state of the state of the state state of the state of the state of the state state of the state of the state of the state state of the state of the state of the state state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the sta			

	Specification						
Item	GT1695M-XTBA	GT1685M-STBA	GT1695M-XTBD	GT1685M-STBD			
Input power supply voltage	100 to 240VAC	C (+10%, -15%)	24VDC (+2	25%, -20%)			
Input frequency	50/60H	łz ±5%		-			
Input maximum apparent power	150VA (at max. load)	110VA (at max. load)	-				
Power consumption	64W or less	46W or less	60W or less	40W or less			
With backlight off	38W or less	32W or less	30W or less	26W or less			
Inrush current	26A o (4ms, at r	n less nax. load)	12A or less (75ms, at max. load)	11A or less (40ms, at max. load)			
Permissible instantaneous failure time	Within 20ms (10	00VAC or more)	Within 10ms				
Noise resistance	Noise voltage 1500V by noise simulator with no	/p-p, noise width 1µs pise frequency 25 to 60Hz	Noise voltage 500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz				
Withstand voltage		minute between minal and ground	500VDC for 1 minute between power supply terminal and ground				
Insulation resistance			nsulation resistance supply terminal and g				
Applicable wire size		0.75 to	2 [mm ²]				
Clamp terminal	Clamp terminal	s for M3 screw RAV	1.25-3, V2-S3.3, V2	-N3A, FV2-N3A			
Tightening torque (terminal block's terminal screws)		0.5 to 0	.8 [N·m]				

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

Power supply specifications

black dots to zero.
Flickering may occur depending on the display colors.
Note that the existence of trapid and black dots is as dandard chanceleristic of LCD screens, and I does not
21. C panes these characteristics of once reversal. Note that even within the indicated view angles, the screen display may not be clear enough depending on the display color.
32. Using the GCD screen availability (FP functions prevent screen burns) and activations the backlight life.
4. An analog resistive bouch display is used. When 2 points on the screen are touched imrufanceouxly, if a worther is located the mode of the 2 points the me and Nutritions. screen simultaneously.

screen simultaneously. 15: The memory is a ROM that permits occurriting of new data without hanging to data the a clining data. 15: The memory is a ROM that permits occurriting of new data without hanging to data the excit-sion of the row of the term of the ROM (and the row of the

6

5

GT15

General specifications

Ocherar a	Jeenneaue	113						
Item		Specification						
Operating ambient	Display		0°C to 50°C					
temperature*1	Other than display			0°C to	55°C			
Storage ambier	it temperature			-20°C	lo 60°C			
Operating ambi	ent humidity*2			10 to 90%RH, r	no condensation			
Storage ambier	t humidity*2			10 to 90%RH, r	no condensation			
				Frequency	Acceleration	Half amplitude	Sweep count	
		Conforming	Under intermittent	5 to 9Hz	-	3.5mm	10 times in	
Vibration resista	ance*3	to JIS B 3502 and IEC 61131-2	vibration	9 to 150Hz	9.8m/s ²	-	each of X,	
			Under continuous vibration	5 to 9Hz	-	1.75mm	Y and Z	
				9 to 150Hz	4.9m/s ²	-	directions	
Impact resistan	Ce	Conforming to JIS B 3502 and IEC 61131-2 (147m/s ² , 3 times in each of X, Y and Z directions						
Operating atmo	sphere			No corro	sive gas			
Operating altitu	de*4			2000m	or less			
Installation loca	tion			In contr	ol panel			
Overvoltage cat	legory*5	II or			rlower			
Contamination I	evel*6	2 or less						
Cooling method	1			Self-c	ooling			
Grounding		T	ype D grounding (1	100Ω or less). C	Connect to pane	l if unable to gro	und.	

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

Performance specifications

		Specification								
	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	TFI	color LCD (high-brigh	tness, wide viewing an	ngle)	TFT co	lor LCD	TFT color LCD (high-brightness, wide viewing angle)	TFT color LCD	
	Screen size	15"	12.1"		10	.4"		8.	4"	
	Resolution	XGA: 1024 ×768 [dots]	SVGA: 800	×600 [dots]			VGA: 640×480 [dots]			
	Display size	304.1(W)×228.1(H) [mm]	246(W)×184.5(H) [mm]		211(W) ×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:	16-dot standard font: 40 chars. ×30 lines (2-byte) 12-dot standard font: 53 chars. ×40 lines (2-byte)					
Display	Display colors		65536	colors		256 colors	16 colors	65536 colors	16 colors	
-1	View angle*6	Right/left: 75°, Up: 50°, Down: 60°	GT1585V Rightleft: 60°, Up: 40°, Down: 50° GT1585 Rightleft: 65°, Up: 45°, Down: 55°	Right/left/up/down: 85°	Right/left/up/down: 85°	Right/le Up: Down	30°,	Right/left: 65°, Up: 50°, Down: 60°	Right/left: 45°, Up: 20°, Down: 20°	
	Contrast adjustment					-				
	Intensity	450 [cd/m ²]	GT1585V: 350 [cd/m ²] GT1585: 400 [cd/m ²]	400 [cd/m ²]	380 [cd/m ²]	200 [0	cd/m²]	380 [cd/m ²]	150 [cd/m ²]	
	Intensity adjustment		8-step ad	ljustment		4-step ad	djustment	8-step adjustment	4-step adjustment	
	Life	Approx. 52,000 hours (operating ambient temperature: 25℃)	Approx. 50 (operating ambient				Approx. 41,000 hours ng ambient temperatur	a: 25°C)		
Backligh	it		Cold-cathode fluoresce	ent tube (replaceable),	with backlight OFF del	ection function. Back	ight off time and scree	n save time can be set		
	Life*2	Approx. 50,000) hours or more			Approx. 40,000) hours or more			
	LI16-*			(Time for display in	ntensity reaches 50% a	it operating ambient te	mperature of 25°C)			
	Туре	Analog resistive type			Matrix res	istive type				
	No. of touch keys	-	1900 keys/screen (3	8 lines×50 columns)	1200 keys/screen (30 lines ×40 columns)					
Touch panel	Key size						Min. 16×16 [dots] (per key)	3]		
	No. of simultaneous touch points	Simultaneous touch prohibited*3 (1 point only)	Max. 2 points							
	Life			1,000	0,000 times or more (op	perating force 0.98N or	less)			
	Detection distance	1	[m]				-			
Human	Detection range	Right/left/u	p/down: 70°				-			
sensor	Detection delay time	0 to 4					-			
	Detection temperature	Temperature diffe more between human	rence to be 4°C or body and ambient air				-			
Memory *4	C drive		9MB built-in f (for saving proje				flash memory ect data and OS)	9MB built-in flash memory (for saving project data and OS)	5MB built-in flash memory (for saving projectdata and OS)	
	Life (No. of writings)	100,000 times						· · · · · · · · · · · · · · · · · · ·		
					GT15-BAT type lithin					
Battery	Backed up data				ock data and maintena					
	Life				ox. 5 years (operating					
	RS-232	Application	Communication with c		ansmission speed: 115 Connector shape: nection to personal co	D-sub 9-pin (male)		stallation, FA transpare	ent function)	
Built-in interface	USB		Application: C	onnection to personal	USB (full-speed 12 Connector shap computer (project data	e: TYPE Mini-B	installation. FA transp	arent function)		
	CF card				nector shape: TYPEI,					
	Optional function board		22.110400			tion board installation	,			
	Extension unit			2ct	h for communication ur		tion			
Buzzer o	output				Single tone (tone	length adjustable)				
Protectiv	ve construction				JEM1030 Front: IP	67f*5 In panel: IP2X				
	dimensions USB port cover)	397(W)×296(H)×61(D) [mm]	316(W)×242(H)×52(D) [mm]		303(W)×214(F	H)×49(D) [mm]		241(W)×192(F	H)×52(D) [mm]	
Panel cu	ut 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. m	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	Screen design software				GT Designer2 Ver	sion 2.90U or later				
software packages	Simulation software				GT Simulator2 Ver	sion 2.90U or later				

Power supply specifications

				Specification						
ltem	GT1595-XTBA	GT1585V-STBA GT1585-STBA	GT1575V-STBA GT1575-STBA GT1575-VTBA GT1575-VNBA GT1572-VNBA GT1565-VTBA GT1562-VNBA	GT1595-XTBD	GT1585V-STBD GT1585-STBD	GT1575V-STBD GT1575-STBD GT1575-VTBD GT1575-VNBD GT1572-VNBD GT1565-VTBD GT1562-VNBD	GT1555-VTBD	GT1555-QTBD	GT1555-QSBD	GT1550-QLBD
Input power supply voltage	100 t	o 240VAC (+10%,	-15%)			2	4VDC (+25%, -20%	6)	-	
Input frequency		50/60Hz ±5%					-			
Input maximum apparent power	1	10VA (at max. load	d)				-			
Power consumption	56W or less	41W or less	39W or less	57W or less (2380mA/24VDC)	43W or less (1790mA/24VDC)	41W or less (1710mA/24VDC)	19W or less (790mA/24VDC)	18W or less (750mA/24VDC)	17W or less (710mA/24VDC)	15W or less (620mA/24VDC)
With backlight off	30W or less	28W or less	28W or less	32W or less (1330mA/24VDC)	30W or less (1250mA/24VDC)	30W or less (1250mA/24VDC)	14W or less (580mA/24VDC)	13W or less (540mA/24VDC)		
Inrush current	50A or less (4ms, at max. load)	45A or less (4ms, at max. load)	40A or less (4ms, at max. load)	100A or less (4ms, at max. load)	115A or less (1ms, at max. load)	115A or less (1ms, at max. load)	67A or less (1ms, at max. load)		60A or less (1ms, at max. load)
Permissible instantaneous failure time	Within	20ms (100VAC or	more)				Within 10ms			
Noise resistance		age 1500Vp-p, nois tor with noise frequ		Noise voltage 500Vp-p, noise width 1µs by noise simulator with noise frequency 25 to 60Hz						
Withstand voltage		500VAC for 1 minu wer supply terminal			500	IVDC for 1 minute b	etween power supp	oly terminal and gro	und	
Insulation resistance			10M Ω or highe	r with an insulation	resistance tester	500VDC between	power supply term	inal and ground)		
Applicable wire size						2 [mm ²]				
Clamp terminal				Clamp terminals	for M3 screw RAV	/1.25-3, V2-S3.3, V	2-N3A, FV2-N3A			
Tightening torque (terminal block's terminal screws)					0.5 to 0).8 [N·m]				

Performance specifications

. 0110	innanioo op	comoditionio						
	Item	GT1555-VTBD	Specif GT1555-QTBD	GT1555-QSBD	GT1550-QLBD			
		TFT col			STN monochrome			
	Туре	(high-brightness, w	vide viewing angle)	STN color LCD	(black/white) LCD			
	Screen size	5.7"						
	Resolution	VGA: 640 ×480 [dots]		QVGA: 320 × 240 [dots	5]			
	Display size		115(W)×8	6(H) [mm]				
Display	No. of displayed characters	16-dot standard font: 40 chars. ×30 lines (2-byte) 12-dot standard font: 53 chars. ×40 lines (2-byte)	40 chars. ×30 lines (2-byte) 16-dot standard font: 20 chars. × 1 2-dot standard font: 26 chars. × 2 35 chars. ×40 lines					
	Display colors	65536	colors	4096 colors	Monochrome 16 gray scal			
	View angle*6	Right/left: 80°, Up: 80°, Down: 70°	Right/left: 70°, Up: 70°, Down: 50°	Right/left: 55°, Up: 65°, Down: 70°	Right/left: 45°, Up: 20°, Down: 40°			
	Contrast adjustment	-	-	16-step	adjustment			
	Intensity	350 [cd/m ²]	400 [cd/m ²]	380 [cd/m ²]	220 [cd/m ²]			
	Intensity adjustment	opo [oum]	8-step ac		LEG [Gam]			
			Approx. 50					
	Life		(operating ambient	temperature: 25°C)				
Backligh	nt		cent tube (not replacea cklight off time and scr					
	Life*2		rox. 75,000 hours or m		Approx. 58,000 hours or more			
	Lind -	(Time for display in	tensity reaches 50% a	t operating ambient te	mperature of 25°C)			
	Туре		Matrix res	istive type				
	No. of touch	1200 keys/screen		300 keys/screen				
	keys	(30 lines ×40 columns)		(15 lines × 20 columns)			
Touch panel	Key size	Min. 16 ×16 [dots] (per key)						
7	No. of simultaneous touch points	Max. 2 points						
	Life	1,000,000 times or more (operating force 0.98N or less)						
	Detection distance							
	Detection range	-						
Human	Detection delay time							
sensor	Detection							
	temperature		-	-				
			9MB built-in f	laah mamaa .				
Memory *4	C drive		(for saving proje	ct data and OS)				
	Life (No. of writings)	100,000 times GT15-BAT type lithium battery (optional)						
Battery	Backed up data		ock data and maintena					
	Life	Approx. 5 years (operating ambient temperature: 25°C)						
	RS-232	RS-232, 1ch, Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (male)						
	R0-232	Application: Commu (project data	nication with connecter upload/download, OS	d devices, connection installation, FA transp	to personal computer arent function)			
Built-in		USB (full-speed 12Mbps), device 1ch, Connector shape: TYPE Mini-B						
Built-in interface	USB		Application: Connection	n to personal compute	r			
			upload/download, OS					
	CF card	App	mpact flash slot, 1ch, plication: Data transfer,	data storage, GOT st	artup			
	Optional function board			ion board installation				
	Extension unit	1ch for communication unit/optional unit installation						
Buzzero			Single tone (tone					
Protectia	ve construction		JEM1030 Front: IP	67f*5 In panel: IP2X				
	dimensions	167(W)×135(H)×60(D) [mm]						
External	USB port cover)							
External (without	USB port cover) ut dimensions		153(W) ×1	21(H) [mm]				
External (without Panel cu			153(W) ×1					
External (without Panel cu Weight	ut dimensions			21(H) [mm] [kg]				
External (without Panel cu Weight			1.1					

- 1: On LCD screens, bright dols (permanently it) and black dols (not to be lif) generally appear. Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black does to zero.
 Note in the the existence of high and black does is a stude does to zero.
 Variant of the software of the study if and black does is a stude does to zero.
 Variant of the software of the study of the study

1

GOT 2

SOFTWARE

3

7

6

GT11

General specifications

Iten	n	Specification						
Operating ambient Display		0°C to 50°C*5						
temperature	Other than display		0 C to 55 C (horiz	ontal installation)	, 0°C to 50°C (ver	tical installation)*		
Storage ambient	temperature			-20°C	to 60°C			
Operating ambier	nt humidity ^{*1}			10 to 90%RH, r	to condensation			
Storage ambient	humidity ^{*1}			10 to 90%RH, r	o condensation			
				Frequency	Acceleration	Half amplitude	Sweep count	
		Conforming	Under intermittent	5 to 9Hz	-	3.5mm	10 times in	
Vibration resistance		to JIS B 3502 and	vibration	9 to 150Hz	9.8m/s ²	-	each of X.	
			Under continuous	5 to 9Hz	-	1.75mm	Y and Z	
			vibration	9 to 150Hz	4.9m/s ²	-	directions	
Impact resistance	1	Conforming to JIS B 3502 and IEC 61131-2 (147m/s ² , 3 times in each of X, Y and Z directions)						
Operating atmosp	ohere	Free from oil mist, c	orrosive gases, flammable g	ases and excessive co	nductive dusts or direct	sun beams (The same	applies to unit storage	
Operating altitude	*2			2000m	or less			
Installation location	n	In control panel*6						
Overvoltage cate	gory ^{*3}	I or lower						
Contamination lev	vel*4	2 or less						
Cooling method				Self-c	ooling			
Grounding			Type D grounding (100Ω or less). Co	onnect to panel if	unable to ground.	•7	

- Water bulk temperature for STN display type must be 39°C or lower.
 Do not operate or store the GOT unit in pressuitized environments where the pressure exceeds the off melavation atmospheric pressure, as this could result in abnormal operation.
 Saturning that fle device is consolid at some point between the device is consolid at some point between Category 13 applies to devices that are supplied with power from fixed equipment. The surge withstand voltage is 2500° for devices with ratings up to 3300°.
 Index that index the fixed of foreign conductive matter in the operating environment of device. Containstation level 2 denotes worth artifying your club to coasisional condensation.
 Evaluation (STI SDHS
 The SVDC type requires no grounding.

Performance specifications

I CHOIN	lance speci	lications			Specie	fication					
	Item				Speci		07//55 07000	074455 00000			
	item	GT1155-QTBD	GT1155-QSBD	GT1150-QLBD	GT1155HS-QSBD	GT1150HS-QLBD	GT1155-QTBDQ GT1155-QTBDA	GT1155-QSBDQ GT1155-QSBDA	GT1150-QLBDQ GT1150-QLBDA		
	Туре	TFT color LCD	STN color LCD	STN monochrome (black/white) LCD	STN color LCD	STN monochrome (black/white) LCD	TFT color LCD	STN color LCD	STN monochrome (black/white) LCD		
	Screen size				5.						
	Resolution					×240 [dots]					
	Display size	115(W)×86(H) [mm] (in horizontal o	display mode)	115(W)×8	36(H) [mm]	115(W)×86(F	H) [mm] (in horizontal	display mode)		
	No. of displayed characters		16-dot standard font	: 20 chars. × 15 lines (lines (2-byte) (in hori	zontal display mode)					
	Display colors	256	colors	Monochrome (black/white) 16 gray scale	256 colors	Monochrome (black/white) 16 gray scale	256	colors	Monochrome (black/white 16 gray scale		
Display*1	View angle	Right/left: 70°, Up: 70°, Down: 50° (in horizontal display mode)	Rightleft: 50°; Up; 50°; Down: 60° (Hardware versions A and B) (In horizontal display mode) Rightleft: 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: 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°	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)		
	Contrast adjustment	-		16-step a	djustment		-	16-step a	djustment		
	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]	• 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]		
	Intensity adjustment					djustment					
	Life				50,000 hours (operati						
		Col	d-cathode fluorescent	tube (not replaceable), with backlight OFF of	letection function. Bar	klight off time and sci	een save time can be	set.		
Backlight		Approx. 75,00) hours or more	Approx. 54,000 hours or more	Approx. 75,000 hours or more	Approx. 54,000 hours or more	Approx. 75,000) hours or more	Approx. 54,000 hours or more		
	Life*2			(Time for display in	tensity reaches 50% a	t operating ambient te	mperature of 25°C)				
	Туре			(istive type					
	No. of touch keys			200 ko			olumns)				
	Key size		300 keys/screen (matrix consisting of 15 lines ×20 columns) Min. 16×16 (dots) (per key)								
Touch panel	No. of simultaneous										
	touch points		Max. 2 points								
		1,000,000 times or more (operating force 0.98N or less)									
	Life										
	C drive*3			3MB bi	uilt-in flash memory (fo		ind OS)				
Memory	Life (No. of writings)	100,000 times 512KB built-in SRAM (battery backup)									
	D drive										
						e lithium battery					
Battery	Backed up data				Clock data, alarm his	story and recipe data					
	Life			Appr	ox. 5 years (operating	ambient temperature:	25°C)				
	Bus			-			1ch for QnA/A	mode)/motion controlle CPU/motion controller tion: For bus connectio	CPU (A series)		
	RS-422	Connec	RS-422, 1ch, 115200/57600/38400/ tor shape: D-sub 9-pin ommunication with con	(female)		-	-				
Built-in interface	RS-422/232	Application: Communication with connected devices			Transmission 57600/38400/192 Connector shape: Rou	lect one when using.) speed: 115200/ 00/9600/4800bps, und type, 32-pin (male) on with connected devices	-				
Interrace	RS-232	Conne Application: Conne conr	RS-232, 1ch, 115200/57600/38400/ ctor shape: D-sub 9-pir ommunication with com section to personal com nload, OS installation, FA	n (male) nected devices, iputer	RS-232, 1ch, Transm 57600/38400/192 Connector shape: M Application: Connectio	ission speed: 115200/ 00/9600/4800bps, ini-DIN 9-pin (female) n to personal computer bload/download,	RS-232, 1ch, Transmission spead: 115200/67600/340/019200/9600/4800bps, Connector shape: D-aub 9-pin (male) Application: Connection to barcode reader/personal computer (project data upload/download, OS installation, FA transacaret function. etc.)				
	USB				USB (full-speed 12	Mbps), device 1ch					
					computer (project data						
	CF card		Co		Connector shape: TYP	E [Application: Data					
	Optional function board	(Embedded in main unit)		1ch for optional func	tion board installation			Embedded in main un	t)		
Buzzer outp						length adjustable)					
Protective of		JEM103	80 Front: IP67f In par	nel: IP2X	JEM1030	Front IP65f	JEM103	80 Front: IP67f In pa	nel: IP2X		
External dim (without USI		16	4(W) ×135(H) ×56(D) [r	nm]	176(W)×220(I	H) ×93(D) [mm]	16	7(W) ×135(H) ×65(D) [i	nm]		
Panel cut di			153(W)×121(H) [mm]			-		153(W) × 121(H) [mm]			
Weight	inorioriorio	0.7.0	kg] (excl. mounting brai		1.0 [ka] /ms	ain unit only)	0.01	kg] (excl. mounting bra	ckets)		
Applicable	Screen design software	0.7		,		sion 2.90U or later	0.8[-ou (mourning bid	/		
software packages	Simulation software										
раскадев	Simulation SURWare	GT Simulator2 Version 2.90U or later									

Power supply specifications

			Specification				
ltem	GT1155-GTBD GT1150-QLBD GT1155-QTBDQ GT1155-QSBDQ GT1155-QSBDQ GT1156-QSBDA GT1156-QSBDA GT1155-QSBDA				GT1150-QLBDQ GT1150-QLBDA		
Input power supply voltage		24VDC (+10%	-15%), ripple voltage of 20	00mV or less			
Input frequency			-				
Input maximum apparent power			-				
Power consumption	9.84W or less (410mA/24VDC)	9.36W or less (390mA/24VDC)	11.16W or less (465mA/24VDC)	9.72W or less (405mA/24VDC)	7.92W or less (330mA/24VDC)		
With backlight off	4.32W or less (1	80mA/24VDC)	5.04W or less (210mA/24VDC)				
Inrush current	15A or less (2m	s, at max. load)	26	26A or less (4ms, at max. load)			
Permissible instantaneous failure time	Within	5ms		Within 10ms			
Noise resistance	Noise voltage 1000V	p-p, noise width 1µs	Noise	voltage 500Vp-p, noise wie	ith 1µs		
NOISE RESISTANCE	by noise simulator with noi	se frequency 30 to 100Hz	by noise sim	by noise simulator with noise frequency 25 to 60Hz			
Withstand voltage		500VAC for 1 minut	e between power supply te	erminal and ground			
Insulation resistance	10MΩ or high	er with an insulation resist	ance tester (500VDC betw	een power supply terminal	and ground)		
Applicable wire size	e 0.75 to 2 [mm ²]*1						
Clamp terminal	Clamp terminals for M3 screw RAV1.25-3, V2-N3A, FV2-N3A ^{*1}						
Tightening torque (terminal block's terminal screws)	0.5 to 0.8 [N-m]*1						

*1 : Excluding GT115DHS

1

EQUIPMENT, SOFTWARE, AND MANUALS

GT10

General specifications

Iten	n	Specification							
Operating ambient Display		0 °C to 50 °C *5							
temperature	Other than display	0 C to 55 C (horizontal installation), 0 C to 50 C (vertical installation) ⁵							
Storage ambient I	emperature			-20°C	to 60°C				
Operating ambier	t humidity"1			10 to 90%RH, r	to condensation				
Storage ambient I	humidity ^{*1}			10 to 90%RH, r	no condensation				
				Frequency	Acceleration	Half amplitude	Sweep count		
		Conforming		5 to 9Hz	-	3.5mm	10 times in each of X, Y and Z		
Vibration resistan	се	to JIS B 3502 and		9 to 150Hz	9.8m/s ²	-			
			Under continuous	5 to 9Hz	-	1.75mm			
			vibration	9 to 150Hz	4.9m/s ²	-	directions		
Impact resistance		Conformi	ng to JIS B 3502 and	I IEC 61131-2 (14	7m/s², 3 times in	each of X, Y and	Z directions)		
Operating atmosp	here	Free from all mist, a	orrosive gases, flammable g	ases and excessive co	nductive dusts or direct	t sun beams (The same	applies to unit storage		
Operating altitude	*2	2000m or less							
Installation location	in	In control panel ¹⁸							
Overvoltage category*3				I or I	ower				
Contamination level ¹⁴ 2 or less									
Cooling method	cooling method Self-cooling								
Grounding Type D grounding (100Ω or less). Connect to panel if unable to ground. ⁷					*7				

- *1: Water bub isreparature for STN display type must be 39°C or lower.
 *2: On ord operating or sitter the GOT will in pressuitated environments pressure, as the study of the study of the study of the study of the pressure, as the study result is about a pressing as the study of the study of the public power distribution networks and toold system equipment.
 *1: Assuming that the division is connected at some point between a public power distribution networks and toold system equipment.
 *1: Assuming that the division is study and toold system equipment.
 *2: Assuming that the division is study and toold system equipment.
 *4: Indeet that indicates the ford of foreign conduction matter in the contamination types conductive the conductive and with many con-contamination types conductive the conductive and with memory conductivity may cound the to accessional condensation.
 *3: In the SVDC type requires no grounding.

Performance specifications<GT105□>

Power supply specifications<GT105□>

		Specif	ication				
	Item	GT1055-QSBD	GT1050-QBBD				
	Туре	STN color LCD	STN monochrome (blue/white) LCD				
	Screen size	5.	7*				
	Resolution	QVGA: 320×240 [dots]					
	Display size	115(W)×86(H) [mm] (in	horizontal display mode)				
	No. of displayed	16-dot standard font: 20	chars. x15 lines (2-byte),				
	characters	2-dot standard font: 26 chars.×20 lines (2-byte) (in horizontal display mode					
Display*1	Display colors	256 colors	Monochrome (blue/white) 16 gray scale				
Display	View angle	Right/left: 55°, Up: 65°, Down: 70° (in horizontal display mode)	Right/left: 45°, Up: 20°, Down: 40° (in horizontal display mode)				
	Contrast adjustment	16-step a	djustment				
	Intensity	380 [cd/m ²]	260 [cd/m ²]				
	Life*2		,000 hours t operating ambient temperature of 25°C) e one year				
Backlight			able) with backlight OFF detection function. een save time can be set.				
	Life	Approx. 75,000 hours or more	Approx. 54,000 hours or more				
	Life		ambient temperature of 25°C) Guarantee one year				
	Type		istive type				
	No. of touch keys		eys/screen				
Touch	Key size	Min. 16 ×16 [dots] (per key)					
panel	No. of simultaneous touch points	Max. 2 points					
	Life	1,000,000 times or more (operating force 0.98N or less)					
	User memory*3	Built-in flash ROM for saving project data (3 MB or less) and OS					
Memory	Life (No. of writings)		0 times				
		GT11-50BAT tvt	e lithium battery				
	Backed up data		story and recipe data				
Battery	Life	Approx. 5 years (operating	ambient temperature: 25°C) ear after date of manufacture				
	RS-422	RS-42 Transmission speed: 115200/57 Connector shape: [2, 1ch, 600/38400/19200/9600/4800bps D-sub 9-pin (female) unication with PLCs				
Built-in interface	RS-232	RS-232, 1ch, Transmission speed: 1152000/57800/38400/19200/9600/4800bps Connector shape: D-sub 9-pin (maile) Application: Communication with PLCs, connection with barcode readers, communication with personal computers (project data upoad/download, OS instatiation, transparent function)					
	USB	Connector shape: TY Application: Communicati	2Mbps), device 1ch PE Mini-B (receptacle) on with personal computer S installation, transparent function)				
	Memory board	For installing memory b	oard (GT10-50FMB) 1ch				
Buzzer ou		Single tone (tone ler	igth adjustable/none)				
Protective	e construction ^{*4}	Conforming to IP67f (JEM1030) (front panel)				
External	dimensions	164(W)×135 (H)×56 (D)[mm]				
Panel cut	dimensions	153(W)×1	21(H)[mm]				
Weight		0.7kg (excl. mo	unting brackets)				

Applications supporting the processing of the second secon

	Specif	ication				
Item	GT1055-QSBD	GT1050-QBBD				
Input power supply voltage	24VDC (+10%, -15%), ripp	le voltage of 200mV or less				
Input frequency		-				
Input maximum apparent power		-				
Power consumption	9.84W or less (410mA/24VDC)	9.36W or less (390mA/24VDC)				
With backlight off	With backlight off 4.32W or less (180mA/24VDC)					
Inrush current	15A or less	(26.4V) 2ms				
Permissible instantaneous failure time	Withi	n 5ms				
Noise resistance	Noise voltage 1000\	Noise voltage 1000Vp-p, noise width 1µs				
Noise resistance	by noise simulator with no	ise frequency 30 to 100Hz				
Withstand voltage	500VAC for 1 minute between p	ower supply terminal and ground				
Insulation resistance		500VDC between power supply terminal and ground)				
Applicable wire size	0.75 to 2	2 [mm ²]*1				
Clamp terminal	Clamp terminals for M3 screw I	RAV1.25-3, V2-N3A, FV2-N3A*1				
Tightening torque (terminal block's terminal screws) 0.5 to 0.8 [N·m] ^{*1}						
*1 : Excluding GT115	is					

Power supply specifications<GT1030, GT1020>

				Speci	fication			
		GT1030-LBD	GT1030-LBDW	GT1020-LBD	GT1020-LBDW	GT1020-LBL		
1	tem	GT1030-LWD	GT1030-LWDW	GT1020-LWD	GT1020-LWDW	GT1020-LWL		
		GT1030-LBD2	GT1030-LBDW2	GT1020-LBD2	GT1020-LBDW2	GT1020-LBLW		
		GT1030-LWD2	GT1030-LWDW2	GT1020-LWD2	GT1020-LWDW2	GT1020-LWLW		
Input nawa	r supply voltage	241/00	(+10%, -15%), ripp	lo voltago of 200g	a)/ or loss	5VDC (±5%), supplied from		
Input power	r supply voltage	24700	(+10%, -15%), hpp	le voltage of 200f	IV OF IESS	PLC communication cable		
Input frequ	Jency				-			
Input maximu	im apparent power				-			
Power con	nsumption	2.2W or less	(90mA/24VDC)	1.9W or less	(80mA/24VDC)	1.1W or less (220mA/5VDC)		
Wit	h backlight off	1.7W or less (70mA/24VDC)		1.2W or less	(50mA/24VDC)	0.6W or less (120mA/5VDC)		
Inrush cur	rent	18A or less (26.4DCV) 1ms		13A or less (26.4DCV) 1ms		-		
Permissible inst	antaneous failure time	Within 5ms –						
Noise resi	alaana	Noise voltage 1000Vp-p, noise width 1µs						
NOISE LESI	stance	by noise simulator with noise frequency 30 to 100Hz						
Withstand	voltage	500VAC for 1 minute between power supply terminal and ground –						
Inculation	resistance	10MΩ or higher with an insulation resistance tester –						
Insulation	resistance	(500VDC between power supply terminal and ground)						
A	Single-wire	0.14 to 1.5mm ² , AWG26 to AWG16 (single wire), 0.14 to 1.0mm ² , AWG26 to AWG16 (stranded wire)						
Applicable wire size	installation	0.25 to 0.5mm ² , AWG24 to AWG20 (bar terminal with insulation sleeve)						
WITE SIZE	Two-wire installation	0.14 to 0.5mm ² , AWG26 to AWG20 (single wire), 0.14 to 0.2mm ² , AWG26 to AWG24 (stranded wire)						
Clamp terr	minal	Al2.5-6BU, Al0.34-6TQ, Al0.5-6WH (made by Phoenix Contact)						
	torque (terminal ninal screws)	0.22 to 0.25 [N·m]						

Performance specifications<GT1030, GT1020>

					Specif	fication			
	ltem	GT1030-LBD GT1030-LWD	GT1030-LBDW GT1030-LWDW	GT1030-LBD2 GT1030-LWD2	GT1030-LBDW2 GT1030-LWDW2	GT1020-LBD GT1020-LWD GT1020-LBL GT1020-LWL	GT1020-LBDW GT1020-LWDW GT1020-LBLW GT1020-LBLW	GT1020-LBD2 GT1020-LWD2	GT1020-LBDW2 GT1020-LWDW2
	Туре				STN monochrome	(black/white) LCD			
	Screen size		4.	5"			3	.7"	
	Resolution		288×96 [dots] (in	horizontal mode)			160 ×64 [dots] (ir	n horizontal mode)	
Display*1	Display size	109.42(W) x35.98(H)[mm](in horizontal mode)					86.4(W) x 34.5(H)[mr	m](in horizontal mode)	
	No. of displayed characters		6 chars.×6 lines (1-byte) (8 chars.×8 lines (1-byte) (chars.×4 lines (1-byte) yte) (in horizontal mode)	
	Display colors				Monochrome	(black/white)			
	View angle			Right/l	eft: 30°, Up: 20°, Down:	30°(in horizontal display	mode)		
	Contrast adjustment				16-step a	djustment			
	Intensity	200 [cd/m ²] (in green)	300 [cd/m ²] (in white)	200 [cd/m2] (in green)	300 [cd/m ²] (in white)	200 [cd/m ²] (in green)	300 [cd/m2] (in white)	200 [cd/m ²] (in green)	300 [cd/m ²] (in white)
	Intensity adjustment		8-step ad					-	
	Life*2		Appro	x. 50,000 hours (Time	for display contrast rea	ches 20% at operating a	ambient 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) (replacement not needed)	(white, pink and red) (replacement not needed)	(green, orange and red) (replacement not needed)		(green, orange and red) (replacement not needed)		(green, orange and red) (replacement not needed)	(white, pink and red) (replacement not needed)
	Function	Status contro	ol (color, on/flashing/off)	is available and scree	n save time setting can	be set. PLC can contro	color and status of ba	cklight based on system	information.
	Туре		Matrix res	istive type			Analog re:	sistive type	
	No. of touch keys	Max. 50 keys/screen							
Touch	Key size		Min. 16×16 [d	lots] (per key)			Min. 2×2 [d	ots] (per key)	
panel	No. of simultaneous touch points		Max. 2	points		(If there is a switc		ssible e pressed keys, the swit	ch may function.)
	Life			1.00	0.000 times or more (o	perating force 0.98N or less)			
	User memory*3	Built-in fla	ash ROM for saving pro			Built-in flash ROM for saving project data (512KB or less), OS, alarm history and recipe data			
Memory	Life (No. of writings)				100,00	0 times			
			GT11-50BAT typ	e lithium battery		-			
Battery	Backed up data		Clock data, alarm his	tory and recipe data				-	
	Life	Approx. 5 years (operating a	ambient temperature: 25°C) (Suaranteed life: within one ye	ear after date of manufacture			-	
Built-in	For communication with PLC	RS-422, 1ch, Transm 57600/38400/192 Connector shape: Conne Application: Comm	00/9600/4800bps, acter terminal block, 9-pin	57600/38400/192 Connector shape: Connector	nission speed: 115200/ 00/9600/4800bps, acter terminal block, 9-pin nunication with PLC	RS-422, 1ch, Transm 57600/38400/192 Connector shape: Conne Application: Comm	00/9600/4800bps, cter terminal block, 9-pin	RS-232, 1ch, Transm 57600/38400/192 Connector shape: Conne Application: Comm	00/9600/4800bps, cter terminal block, 9-pin
interface	communication RS-232, 1ch, Transmission speed: 115 Connector shape: M			Connector shape: M	z 2500/57600/38400/19200/9600/4800bps lini DIN 6-pin (female) (data upload/townload, OS installation, transparent function)				
Buzzer ou	utput				Single tone (tone ler	ngth adjustable/none)			
Protective construction*4					Conforming to IP67f (JEM1030) (front panel)			
External of	dimensions		145(W) ×76(H)	×29.5(D)[mm]			113(W)×74(F	H) x27(D)[mm]	
Panel cut	dimensions		137(W) ×6	i6(H)[mm]			105(W)×	66(H)[mm]	
Weight			0.3kg (excl. mo	unting brackets)		GT1020-LED(W): 0.2kg (excl. mounting brackets) GT1020-LEL(W): 0.18kg (excl. mounting brackets)			
	software package				CT Desires 21/a	sion 2.90U or later			

Applicable software package

 Approaches semanter parcage |
 G1 Designer? Version 3:900 or later

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

 * To Ion LCD screens, Kright dots (permanently III) and black dots (not to be III) generally appear. Because the large number of display elements exist on an LCD screen, it is not possible to reduce appearance of the bright and black dots to zero.

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

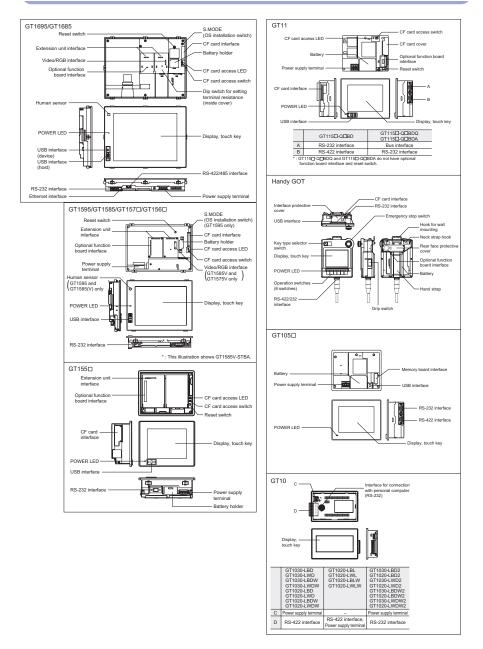
 2: Using the GOT permits existence of Input and black dots in a standard without having to delete the existing data.

 *1: The deen adjuarate protection in all users environments.

1

7

1.3 Part Name



1.4 Installation

Panel cut dimensions

•When GOT is installed (Unit: mm) A +2 *4 Type of GOT main unit Screen size В Α GT1695 15" 383.5 282.5 GT1595 12.1" 302 228 GT1585 Panel opening 289 200 *1 : Same dimensions as A985GOT(-V) 8.4" GT156E 227 176 *2 : Same dimensions as A975/970GOT(-B) *3 : Same dimensions as F940GOT GT155 5.7" GT115[] "3 153 121 *4 : For the GT1030 and GT1020, the tolerance is +1/0. 66 - For compatibility with GOT900 series 66 105 see "3.2 Precaution for Use"

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

Туре	A	В
GT15-CFEX-C08SET	94.0	33.0

Cautions when installing and uninstalling

GT15-CFEX-C08SET	94.0	33.0	Cal
			Fo

Thein isstalling the CF card extension unit on the control panel, make sure that the extension unit does not interfere with the extension unit bable or the CF card interface of the GOT. Place the CF card extension unit at a distance of 25mm or more from the GOT. or installation locations, see the GTIS User's Manual.

Product installation interval

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 radius of cable bending curvature when designing the installation.

.....

GT16/GT15								(Unit: r
Item		GT1695	GT1685	GT1595	GT1585	GT157	GT156	GT155🗆
GOT only						50 or more	50 or more	
When bus connection unit is i	nstalled		50 or more	(20 or more)		(31 or more)	(36 or more)	65 or more
When serial communication u		1	(310 mole) (36 0 mole)					
When RS-422 conversion uni	t is installed	50 or more	51 or more	50 or more	51 or more	68 or more	73 or more	-
When Ethernet communication	n unit is installed		-		50 or more	(20 or more)		50 or more (40 or more)
When CC-Link communicatio	n unit							50 or more
(GT15-J61BT13) is installed			5	0 or more (20 or more	Ð)			(32 or more
When CC-link IE controller ne				51) or more (20 or more)		
When MELSECNET/H comm		50 or more	50 or more	50 or more	50 or more	50 or more		
(coaxial) is installed		(20 or more)	(24 or more)	(20 or more)	(24 or more)	(38 or more)	50 or more	72 or more
When MELSECNET/H comm (optical) is installed	unication unit	((2 - 2		or more (20 or more			
					50 or more	50 or more		
When printer unit is installed					(31 or more)	(36 or more)	50 or more	
When multimedia unit is insta	led	50 or more (20 or more) -						
When video input unit	GT16M-V4	50 or more	(20 or more)			-		
is installed	GT15V-75V4		-		50 or more ((20 or more)*2 -		
When RGB input unit	GT16M-R2	50 or more	(20 or more)			-		
is installed	GT15V-75R1		-		50 or more (20 or more)*3	-	-
When video/RGB input unit	GT16M-V4R1	50 or more	(20 or more)			_		
is installed	GT15V-75V4R1		-		50 or more (20 or more)*3	-	_
When RGB output unit	GT16M-ROUT	50 or more	(20 or more)			_		
is installed	GT15V-75ROUT		-		50 or more (20 or more)*3	-	-
When CF card unit is installed								
When CF card extension unit	is installed	1				50 or more	50 or more	
When audio output unit is insl	alled	1	50 or more	(20 or more)		(31 or more)	(36 or more)	65 or more
When external input/output up	nit is installed							
				8) or more (20 or more	3)		
(When CF card is not used)				5) or more (20 or more	3)		
(When CF card is used)				50 or more		,		100 or more
) or more (20 or more	a)		
				10	0 or more (20 or mor	e)		
The distance varies depending	an iba anbia ia ba uni	ad Candataila anna	the strengt Mitrochie					

*1 : The distance varies depending on the cable to be used. For details, consult the closest Mitsubishi Electric System & Service office.

The values in the table are given for your reference

*2 : The distances required when the coaxial cable 3C-2V (JIS C 3501) is used.

*3 : The distance varies depending on the cable to be used. When the bending radius of the cable is larger than the indicated value, keep a space appropriate to the bending radius (Linit: mm)

•GT11

•GTTT	(Unit: mm)						
			(2			
GOT main unit	A, D	В	When CF card is not used	When CF card is used	E		
GT1155 GT1150	50 or more (20 or more)		50 or more*2 (20 or more)	100 or more	100 or more (20 or more)		
*1 : 50 or more (20 or more) in the case of vertical installation *2 : 80 or more (20 or more) in the case of vertical installation							

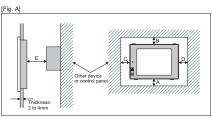
•CT10

GIIU					(Unit: mm)
GOT main unit	A	В	С	D	E
GT105	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
GT1020	(20 or more*1)	(20 or more)	(20 or more)		(20 or more*2)

1: 50 or more when an RS-232/USB conversion adapter is used.
2: 80 or more when a personal computer connection cable is used or when a personal computer RS-232 interface is used for conventigm multiple GOTs.
50 or more when an RS-232 interface is used for using an RS-232/USB conversion adapter.
51: 80 or more when using a USB cable or a memory band.

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.



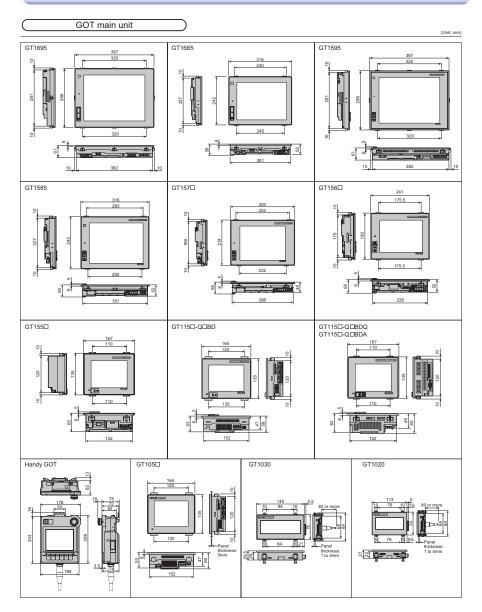
B^{+2*4}

1

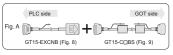
6

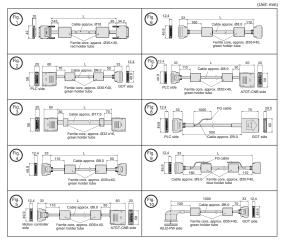
5

1.5 External Dimensions



Bus connection cables				
Cable model name	External dimensions			
GT15-QC□B	0.6, 1.2, 3, 5, 10m	Fig. 1		
GT15-QC□BS	15, 20, 25, 30, 35m	Fig. 1		
GT15-CDNB	1.2, 3, 5m	Fig. 2		
GT15-ACDB	0.6, 1.2, 3, 5m	Fig. 3		
GT15-A370CDB-S1	1.2, 2.5m	Fig. 4		
GT15-A370CDB	1.2, 2.5m	Fig. 5		
GT15-A1SCDB	0.7, 1.2, 3, 5m	Fig. 6		
GT15-A1SCDNB	0.45, 0.7, 3, 5m	Fig. 7		
GT15-CEXSS-1*1	10.6, 20.6, 30.6m	Figs. 8 & 9		
GT15-EXCNB	0.5m	Fig. 8		
GT15-CDBS	0.7, 1.2, 3, 5, 10, 20, 30m	Fig. 9		
GT15-J2C10B	1m	Fig. 10		



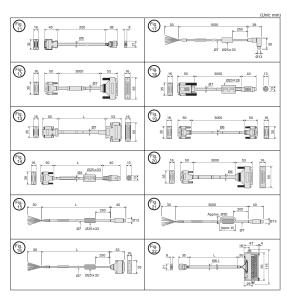


RS-422 cables				
Cable model name	Cable length	External dimensions		
GT16-C02R4-9S	0.2m	Fig. 11		
GT01-C30R4-25P	3m	Fig. 12		
GT01-CDR4-25P	10, 20, 30m	Fig. 13		
GT01-COR4-8P	1, 3, 10, 20, 30m	Fig. 14		
GT10-COR4-8P	1, 3, 10, 20, 30m	Fig. 15		
GT10-C□R4-25P	3, 10, 20, 30m	Fig. 16		
GT10-C10R4-8PL	1m	Fig. 17		

RS-232 cables				
Cable model name	Cable length	External dimensions		
GT01-C30R2-6P	3m	Fig. 18		
GT01-C30R2-9S	3m	Fig. 19		
GT01-C30R2-25P	3m	Fig. 20		
GT10-C30R2-6P	3m	Fig. 21		

\subset	RS-485	terminal	block	conversi	on unit
_					

(RS-485 terminal block conversion unit					
	Model name	Cable length	External dimensions			
Ĵ	FA-LTBGTR4CBLD	0.5, 1, 2m	Fig. 22			



1

GOT

2

SOFTWARE

CONNECTION **A** FUNCTION

(Communication units/optional units
•Cc	mmunication units/bus extension connector boxes

Product name			Model name	External dimensions	
Standard model		bus connection unit for	1ch	GT15-QBUS	Fig. 1
	QCPU (Q mode)/m	otion controller CPU (Q Series)	2ch	GT15-QBUS2	Fig. 2
-		of bus connection unit for	1ch	GT15-ABUS	Fig. 1
Bus connection	QnA/ACPU/motic	on controller CPU (A Series)	2ch	GT15-ABUS2	Fig. 2
unit	Thin model of bus		1ch	GT15-75QBUSL	Fig. 3
unin	QCPU (Q mode)/m	otion controller CPU (Q Series)	2ch	GT15-75QBUS2L	Fig. 3
	Thin model of bu	s connection unit for	1ch	GT15-75ABUSL	Fig. 3
	QnA/ACPU/motic	on controller CPU (A Series)	2ch	GT15-75ABUS2L	Fig. 3
	RS-232 serial o (D-sub 9-pin (n	serial communication unit 9-pin (male))		GT15-RS2-9P	Fig. 4
Serial communication unit	RS-422/485 serial communication unit (D-sub 9-pin (female))		GT15-RS4-9S	Fig. 4	
	RS-422/485 serial communication unit (terminal block)			GT15-RS4-TE	Fig. 5
RS-422	RS-232-→RS-	422 conversion unit (9-pir	n)	GT15-RS2T4-9P	Fig. 6
conversion unit	RS-232-+RS-	422 conversion unit (25-p	vin)	GT15-RS2T4-25P	Fig. 6
Bus exten	sion connector b	ox		A9GT-QCNB	Fig. 7
Bus conne	ector conversion	box		A7GT-CNB	Fig. 8
MELSECN	IET/H	Optical loop unit		GT15-J71LP23-25	Fig. 9
communic	communication unit Coaxial bus unit			GT15-J71BR13	Fig. 10
CC-Link IE	controller netw	ork communication unit		GT15-J71GP23-SX	Fig. 11
CC-Link co	mmunication unit	Intelligent device station	unit	GT15-J61BT13	Fig. 12
Ethernet c	ommunication u	nit		GT15-J71E71-100	Fig. 13

Optional units

Product name	Model name	External dimensions
Printer unit	GT15-PRN	Fig. 14
Multimedia unit	GT16M-MMR	Fig. 15
Video input unit	GT16M-V4	Fig. 16
video input unit	GT15V-75V4	Fig. 17
RGB input unit	GT16M-R2	Fig. 16
ROB input unit	GT15V-75R1	Fig. 17
1. 1909	GT16M-V4R1	Fig. 16
Video/RGB input unit	GT15V-75V4R1	Fig. 17
202	GT16M-ROUT	Fig. 18
RGB output unit	GT15V-75ROUT	Fig. 18
CF card unit	GT15-CFCD	Fig. 19
CF card extension unit	GT15-CFEX-C08SET	Fig. 20
Audio output unit	GT15-SOUT	Fig. 21
External input/output unit	GT15-DIOR	Fig. 22
External inputoutput unit	GT15-DIO	Fig. 22
Handy GOT connector conversion box	GT11H-CNB-37S	Fig. 23
		(Unit: mm

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

*2 : Dimensions A to D for each communication unit				
Model name	A	В	С	D
GT15-QBUS	2.5	12	31.5	-
GT15-QBUS2	2.5	11	29	33.5
GT15-ABUS	4.5	15	29.5	-
GT15-ABUS2	4.5	11	31	31

*3 : Dimension X when GOT is installed 1mm smaller when a CF card unit is moun

Eor GT16

Units other	than CC-Link I	E controller	network
commun	ication unit and	d multimedia	a unit
	1st	2nd	3rd
15"	19.5	41	62.5
12.1"	18	39.5	61.5

CC-Link IE controller network communication unit and multimedia unit				
1st 2nd 3rd				
15"	33.5	55	76.5	
12.1"	32	53	75	

For GT15
 Units other than CC-Link IE controlle

network communication unit						
	1st 2nd 3rd					
15", 10.4"	21	42.5	64.5			
12.1"	18	39.5	61.5			
8.4", 5.7"	23	44.5	66.5			
CC-Link IE controller						

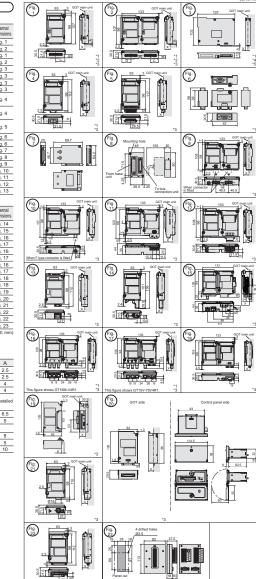
net	work commun	ication unit	
	1st	2nd	3rd
15", 10.4"	34.5	56	78
12.1"	31.5	53	75
8.4", 5.7"	36.5	58	80



4		Dimension	A	for	each
---	--	-----------	---	-----	------

communication unit	
Model name	Α
GT15-75QBUSL	2.5
GT15-75QBUS2L	2.5
GT15-75ABUSL	4
GT15-75ABUS2L	4

For GT16	sinstaneu
15"	6.5
12.1"	5
For GT15	
15", 10.4"	8
12.1"	5
8.4", 5.7"	10



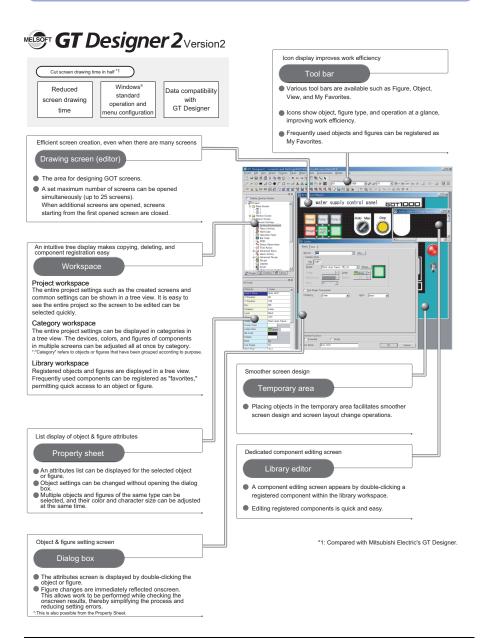
(Unit: mm

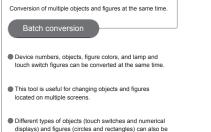
2. SOFTWARE

This chapter describes software required for using the GOT.

2.1	Product Lineup	2
2.2	Specifications (Operating Environment)25	5

2.1 Product Lineup



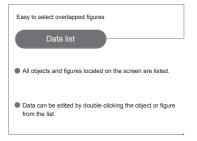


Attribute		olor C	Shape	C CH Nh		Eind Now
arnet -			Fuebe	N. OT NO.		<u>R</u> eplace
	Screen					Delete
C Ed						
C Sci	een Ranger From	1 😤 1	o: 32767 🚎	Base Screen	v	Cjear
C Ca	tegory: Switch		- 			
	ected Area					
	mmon Settings (The setting	r of ecrean is	evolutied.)			
	Device No of Objects	1	New Devic	e No.	Device	Point
1	Device No of Objects X0025		New Devic M100		Bit	Point 10
1 2						
		8			Bit	10
					Bit	10
					Bit	10
					Bit	10
					Bit	10
					Bit	10
					Bit	10



converted at simultaneously.









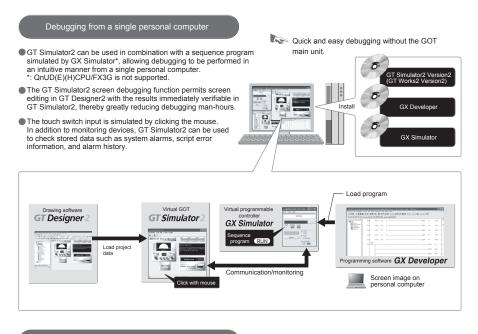
- Lists the character strings of the text assigned to figures and objects. < Character strings list (NEW) >
- Double-clicking on a selected result jumps to the relevant object.



2

MESOFT GT Simulator 2 Version2

GT Simulator2 helps designers debug projects by simulating GOT operations on a personal computer. (Included with GT Works2)



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

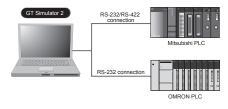
Debugging can be performed using a direct CPU connection between a personal computer (GT Simulator2) and a Mitsubishi or Omron PLC, without an actual GOT unit.

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

*: QnUD(E)(H)CPU/FX3G is not supported.

Powerful support of customer specifications, compatibility checks and document creation

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





2.2 Specifications (Operating Environment)

GT Designer2 (English version) operating environment

Item	Description		
Personal computer	PC/AT compatible machine on which Windows® operates		
os	Microsoft [®] Windows [®] B8 Operating System (English version) ⁺⁸ Microsoft [®] Windows [®] Millennium Edition Operating System (English version) ⁺⁴ Microsoft [®] Windowsh ^{T®} Workstation 4.0 Operating System Service Pack 3 or later (English version) ⁺⁴ Microsoft [®] Windowsh ^{T®} 2000 Professional Operating System Service Pack 4 or later (English version) ⁺⁴	Microseff Windows XP Protestional Operating System Service Pack 2 or later [English version] ^{224/37} . Microseff Windows Visate Verbene Editori Operating System Service Pack 2 or later [English version] ^{234/35} Microseff ^W Windows Visate [®] Enterprise Operating System (English version) ^{234/35} Microseff ^W Windows Visate [®] Enterprise Operating System (English version) ^{234/35} Microseff ^W Windows Visate [®] Home Premium Operating System (English version) ^{234/35} Microseff ^W Windows Visate [®] Home Premium Operating System (English version) ^{234/35} Microseff ^W Windows Visate [®] Home Premium Operating System (English version) ^{234/35}	
CPU	Pentium® 200MHz or higher	Microsoft® Windows® XP : Pentium II ® 300MHz or higher Microsoft® Windows Vista® : 800MHz or more (recommended: 1GHz or more)	
Required memory	64MB or more	Microsoft® Windows® XP : 128MB or more Microsoft® Windows Vista® : 512MB or more (recommended: 1GB or more)	
Free hard	For installation: 1.1GB or more *7		
disk space	For operation: 100MB or more		
Disk drive	CD-ROM disk drive		
Display colors	High color (16 bits) or more		
Display*6	Resolution 800×600 dots or more		
Other	Internet Explorer version 5.0 or later must be installed. Mouse, keyboard, printer and CD-ROM drive that can be used on the above OS		

To install of Designe2, administrator authority is required.
 To install of use of Designe2, administrator authority is required.
 To install of the other of Designe2, and instantiator authority is required.
 To use of Designe2 in account higher than the standard user is required.
 To use of Designe2 in account higher than the standard user is required.
 To low of Designe2 in account higher than the standard user is required.
 To low of Designe2 in coorporation with another application. If an administrator account is used to run the application then use an administrator account to run of Designer.
 Cherkatible date - Fast User Switching - Design Theme (Pont) Change - Remote Desitop

Compatible Node *1481 User Similaring * Deskup Interliet (f vin vinning * neurone uneuropy 55 Only the 32-140 OS is applicable 75 Only the 32-140 OS is applicable 75 To use the MES Interface function, the display must have a resolution of 1024 x 788 dots or more. 77 2600MB or more for Window[®] B(monitor) Edition and WindowNT[®]. 75 E00MB or more for Window[®] B(monitor) Edition and WindowNT[®]. 75 E00MB or more for Window[®] B(monitor) Edition and WindowNT[®].

GT Simulator2 (English version) operating environment

Item	Description		
ersonal computer			
)S	Microsoft [®] Windows [®] BB Operating System (English version) Microsoft [®] Windows [®] Millennium Edition Operating System (English version) Microsoft [®] Windows ^{MI} [®] 2000 Professional Operating System Service Pack 4 or later (English version) ² Microsoft [®] Windows [®] 2000 Professional Operating System Service Pack 4 or later (English version) ²	Microsoft Windows V2P Protestional Operating System Service Pack 2 or tate (English version) ^{24/27} Microsoft Windows Viste [®] Ultimate Operating System service Pack 2 or tate (English version) ^{24/27} Microsoft [®] Windows Viste [®] Ultimate Operating System (English version) ^{24/27} Microsoft [®] Windows Viste [®] Enterprise Operating System (English version) ^{24/27} Microsoft [®] Windows Viste [®] Home Premium Operating System (English version) ^{24/27} Microsoft [®] Windows Viste [®] Home Bencium State (English version) ^{24/27} Microsoft [®] Windows Viste [®] Home Bencium State (English version) ^{24/27} Microsoft [®] Windows Viste [®] Home Basic Operating System (English version) ^{24/27}	
PU	Pentium® 200MHz or higher	Microsoft® Windows® XP : Pentium II ® 300MHz or higher Microsoft® Windows Vista® : 800MHz or more (recommended: 1GHz or more)	
Required memory	64MB or more	Microsoft® Windows® XP : 128MB or more Microsoft® Windows Vista® : 512MB or more (recommended: 1GB or more)	
ree hard isk space*1	For installation (product only) : 700MB or more For operation (product + manual) : 950MB or more For operation : 200MB or more		
isk drive	CD-ROM disk drive		
isplay colors	For GT16 simulator: 65536 colors For GT15 simulator: 65536 colors For GT11 simulator: 2556 colors		
Display	Resolution 800×600 dots or more (to use full-screen display function: resolution	1024×768 dots or more)	
For creation/editing of project data	GT Designer2*7		
	GX Simulator version 5 or later*8 The GX Simulator software versions for simulating PLC CPUs are as follows.		
	PLC CPU to be simulated	Software version	
	QCPU (A mode), ACPU, motion controller CPU (A series)	Version 5A or later	
For use of GX	QCPU (Q mode) (excl. Q00J, Q00 and Q01CPU), QnACPU, FXCPU	Version 5E or later	
For use of GX Simulator	Q00JCPU, Q00CPU, Q01CPU	Version 6.00A or later	
	Q02PHCPU, Q06PHCPU	Version 7.20W or later	
	Q12PHCPU, Q25PHCPU Q12PRHCPU, Q25PRHCPU	Version 6.10L or later	
	Q12PRHCPU, Q25PRHCPU EXauc series	Version 6.20W or later	
	FX3UC series	Version 7.08J or later	

1 To use GT Designer2, GX Developer and GX Simulator, additional free space is required.
 1 To natel GT Simulator2, administrator authorfly is required.
 1 To natal and use GT Simulator2, administrator authorfly is required.
 1 The following functions are not supported.
 Compatible Mode - Fast Uses Statching - Desitota Theme (Fort) Change • Remote Desitop
 5: Use GT Designer2 in the GT Works2 containing GT Simulator2.
 (Si Use GT Simulator2, GX Developer and GX Simulator of the same language version.
 7: Only the 32-bit OS is applicable.

2

1

-	

3. FUNCTION

This chapter describes available functions for the GOT.

3.1	Functions
3.2	Precautions for Use
3.3	Overview of Each Function

3. FUNCTION

3.1 Functions

Functions for each model

_						-					
_			01	1al *2	ŝ	•:	Available	∆ : Partia		ole -: No	t available
Category		Function *1	Optional function board *2	Extended/optional function OS installation *2	Other necessary devices	Details page	GT16	GT15	Model GT11	GT10	GT SoftGOT 1000
	Clock func	tion			(Battery)	P.52	•	٠	•	∆*13	•
S	Printer			Required	Printer unit	P.72, 73	•	•	-	-	•
Hardware specifications	Video inpu	t		Required	Video/	P.52	•	∆*4	-	-	-
dwe	RGB inpu	t/RGB output		Required	RGB unit		•	∆*4	-	-	-
Spe	Multimedi	a function			Multimedia unit,	P.53	•	-	-	-	-
	Do eldiabit e	hutoff detection function			CF card	P.54	•	•		-	-
						P.54	•	-	-		<u> </u>
Main unit functions	Start from	CF card	Required (GT15 only)		CF card	-	•	•	-	-	-
ncti	FA transpa	rent function					•	•	• *6	•	-
it fu			Required			P.55	•	*11	-	-	-
n	Multi-chanr	nel function	(GT15 only)				Max. 4ch	Max. 4ch			
Mair	Gateway fu			Required	(CF card)	P.56	٠	•	-	-	-
~		ace function	Required	Required	(CF card)	P.57	•	•	-	-	-
	Base scree						•	•	•	•	•
		se window display				P.58	•	•	•	•	•
		ndow display					•	•	•	•	•
	Dialog wind						•	•	•	-	•
		BMP display					•	•	•	•	•
	Figure	JPEG display DXF data					•	•	•	-	•
	drawing	IGES display								•	•
	Standard font							•	•	_	-
	(Standard)	(Japanese, Japanese (supporting Europe), Simplified Chinese, Simplified					•	•	•	^{*12}	•
	Standard	Chinese (supporting Europe)) Simplified Chinese		Required		P.59	•	•			•
	font	Traditional Chinese		Required			-		_	_	
	(Option)	Japanese		Required					_	-	
	HQ font			rtequireu						•	
	TrueType font						•	•		•	•
	TrueType font (7 segments)						•	•	٠	-	•
	Windows® font						•	•	٠	•	•
	Stroke standard font (Extended)			Required			•	•	-	-	•
	Stroke font (Option)			Required			•	•	-	-	•
		perimposition (layers)					٠	٠	٠	-	•
	Screen sv					P 60	•	٠	٠	•	•
		o. switching					٠	٠	-	-	•
-		switching function					•	•	٠	•	•
Screen design	Password					P.61	•	٠	•	۰	٠
p u	System in	cation settings					•	•	٠	•	•
ree	Startup lo					P.62		•	•	•	-
š		registration								•	
	Parts regi					P.63		•	•		
		ation function				1.05		•	•		
	Offset fun							•	•		•
	Security	Security level authentication				P.64	•	•	•	•	•
	function	Operator authentication		Required			•	•	_	-	•
	Lamp disp						•	٠	•	•	•
	Touch swi	itch				P.65	•	٠	•	•	٠
		display/input				F.05	٠	•	٠	•	•
	Data list d						•	٠	•	-	•
	ASCII dis					P.66	•	٠	•	•	•
	Clock disp						•	•	•	•	•
	Comment				(CE	P.67	•	•	•	•	•
		alarm observation/display			(CF card)		•	•	-	-	•
	Alarm list				(CE eest)	P.68	•	•	•	∆*7	•
		tory display larm display			(CF card)		•	•	•	•	•
	Parts disp				(CF card)		-	•	•	•	-
	Parts mov				(CF card) (CF card)	P.69					
	Panel met				(0. 0810)					•	
	Level disp						•	•	•	-	•
	Trend gra						•	•	•	•	•
		trend graph ^{*5}		*5	(CF card)	P.70			-	-	
	ristorical	uenu grapn -		Required	(or card)		•	•	-	-	•

: Available	
-------------	--

			00 *2	nal *2	*3				Model		
Category		Function *1	Optional function board *2	Extended/optiona function OS installation *2	Other necessary devices	Details page	GT16	GT15	GT11	GT10	GT SoftGO 1000
	Line graph					P.70	•	•	•	•	•
	Bar graph					F.70	٠	•	•	•	•
	Statistics gr	raph					٠	٠	٠	•	٠
	Scatter gra	ph				P.71	•	•	•	_	•
	Status obse	ervation function					•	•	•	•	•
	Advanced r	ecipe function		Required	(CF card)		•	•	-	-	•
	Recipe fund	ction		Required	(CF card)		•	•	•	•	•
	Time action	function				P.72	٠	•	•	•	•
	Report fund	tion		Required	Printer unit					_	
	report func			Required	CF card		•	•	-	-	•
	Hard copy	Saving files in CF card			CF card	P.73	-				-
	function	Printing with printer		Required	Printer unit	1.75	٠	•	-	-	•
	Bar code fu	inction		Required		P.74	٠	•	∆*10	-	-
Screen design	Remote Pe	rsonal computer function		Required	Video/RGB input unit	P.75	•	•	-	-	-
an c	RFID functi	on		Required		P.74	•	•	•	-	-
Scree	Sound outp	Sound output function		Required	Sound output unit	P.75	٠	•	-	-	٠
	External I/O function			Required	External I/O unit	P.73	•	•	-	-	-
	Operation panel function			Required	External I/O unit		•	•	-	-	٠
	Set overlay screen function					P.75	•	•	•	•	•
	Operation log function			Required	CF card		•	•	-	-	•
	Document display function		Required (GT15 only)	Required	CF card	P.76	•	•	-	-	•
	Logging fur	nction		Required	(CF card)		٠	•	-	-	•
	Script	Project script				P.77	٠	•	٠	-	•
	function	Screen script					٠	٠	•	-	٠
	Tunction	Object script		Required			•	•	-	-	•
	Device data	a transfer function		Required			•	•	-	-	-
	System mo	nitor function		Required			•	•	•	-	-
	Device mor	nitor function		Required		P.78	-	-	-	•	-
	MELSEC-A	list editor function		Required			٠	•	∆*14	-	-
	MELSEC-F	X list editor function		Required			٠	•	∆*15	∆*16	-
su	Ladder mor	nitor function	Required (GT15 only)	Required	(CF card)	P.79	٠	∆"9	-	-	-
ctio	Intelligent n	nodule monitor function		Required			•	∆*9	_	_	-
Ĵ,		onitor function		Required			•	•	-	-	-
nce	<u> </u>	ifier monitor function		Required		P.80	•	•	-	-	-
ena		onitor function		Required			•	•	-	-	- 1
Maintenance functions	CNC monite					P.81	•	∆*8		-	_
	SFC monito		Required (GT15 only)	Required		P.82	•	•	-	-	-
	CNC data I	/O function	(2	Required	CF card/ USB memory ¹⁷		•	∆ *8	-	-	-
	Backup/res	tore function		Required	CF card/ USB memory ¹⁷	P.81	•	•	-	-	-
	L	e report function			Battery	P.82					

 Maintenance report function
 Battery
 P.8.2
 •••
 -•

 1:
 Encetion function
 Battery
 P.8.2
 •••
 <t

1

2

COMPLIANCE WITH OVERSEAS STANDARDS 6 EQUIPMENT, SOFTWARE, AND MANUALS

29

3.2 Precautions for Use

Selecting option function board and CF card

(1) When using option functions or extended functions

The extended function OS or option OS and the option function board are required for using each function.

For installing the extended function OS or option OS on the GOT, make sure that the user area of the specified drive has enough free space for the OS memory space shown on the next page. For details of data transfer, refer to the following table.

GT Designer2 Basic Operation/Data Transfer Manual

(Section 8.1.2 Drive capacity required for data transfer)

The following shows the option function boards applicable to each GOT.

GOT	Option function board
GT16	GT16-MESB
GT15	GT15-FNB, GT15-QFNB, GT15-QFNB16M, GT15-QFNB32M, GT15-QFNB48M, GT15-MESB48M
GT11	GT11-50FNB
GT10	Not required

An option function board (GT15-FNB or GT11-50FNB) is built in the following GOT.

GOT	Model	Description		
GT16	All models	For using the MES Interface function, the option function board is required.		
GT15 ^{*1}	All models			
	GT1155-QTBDQ, GT1155-QTBDA, GT1155-QSBDQ, GT1155-QSBDA, GT1150-QLBDQ, GT1150-QLBDA	Function version D or later		
GT11	GT1155-QTBD	Hardware Version A or later		
	GT1155HS-QSBD, GT1150HS-QLBD	Hardware Version B or later		
	GT1155-QSBD, GT1150-QLBD	Hardware Version C or later		

*1: For enabling the option function board built in the GOT, the latest standard monitor OS must be installed on the GOT.

For the OS version, refer to the following table.

CF App5. List of Functions Added by GT Designer2 Version Upgrade (For GOT1000 Series)

Option functions operated with the GT15-FNB or GT11-50FNB can be used without installing an additional option function board.

For using functions operated with the GT16-MESB, GT15-QFNB(\square M), or GT15-MESB48M, and for adding more memory to the GT15, install an applicable option function board. For the necessary option function board for each option function, refer to the following manual.

An additional option function board can be installed on the GOT with a built-in option function board. (An option function board, which is not applicable to GOT, cannot be installed. (An option function board for the GT11 cannot be installed on the GT15.))

For how to check the function version or hardware version, refer to the following manuals.

GT15 User's Manual GT11 User's Manual

HANDY GOT USER'S MANUAL

For GT16

(a) Extended function OS

: Required (Either one) ×: Unusable

				,
		OS memory spa	ace (user area) ^{*1}	Option function board
Function name	Extended function OS name	a Built-in flash memory (ROM)	A User memory (RAM)	GT16-MESB
Bar code	Bar code	84KB	84KB	Not required
RFID	RFID	166KB	166KB	Not required
System monitor	System monitor	746KB	746KB	Not required
Report	Report	150KB	235KB	Not required
Printer	Printer	522KB	1104KB	Not required
	Stroke Font Support Data	400 KB	400 KB	Not required
	Stroke Standard Font(JPN)	2160KB	2160KB	Not required
Stroke font ^{*2}	Stroke Standard Font(JPN)(supporting Hangul)	3175KB	3175KB	Not required
	Stroke Standard Font(China GB)	1474KB	1474KB	Not required
	Stroke Standard Font (China GB)(supporting Hangul)	2016KB	2016KB	Not required
Video display RGB display	Video/RGB	292KB	474KB	Not required
Multimedia	Multimedia	292KB	1074KB	Not required
Remote personal computer	Video/RGB	292KB	474KB	Not required
operation	PC Remote Operation	50KB	84KB	Not required
Backup/restore	Backup/Restore	420KB	766KB	Not required
Operator Authentication	Operator authentication	460KB	730KB	Not required
Sound Output	Sound Output	100KB	200KB	Not required
External I/O / Operation Panel	External I/O / Operation Panel	70KB	100KB	Not required
CNC data I/O	CNC Data I/O	210KB	383KB	Not required
	GOT Platform Library			Not required
Device data transfer	Device Data Transfer	50KB	100KB	Not required

*1 The OS memory space differs between the built-in flash memory (ROM) and the user memory (RAM). When writing data, including the OS, communication drivers, and project data, from the built-in flash memory (ROM) to the user memory (RAM), the OS memory space increases. Make sure that the total data size does not exceed the user memory (RAM) capacity.

*2 For using fonts, install option fonts if necessary. For how to use fonts and the setting method, refer to the following manual.

GT Designer2 Version Screen Design Manual (2.3 Specifications of Applicable Characters)

2

SOFTWARE

3

FUNCTION

4

CONNECTION CONFIGURATION

5

COMPLIANCE WITH OVERSEAS STANDARDS

6

EQUIPMENT, SOFTWARE, AND MANUALS

7

GLOSSARY

(b) Option OS

: Required (Either one) ×: Unusable

			: Required	d (Either one) ×: Unusat
		OS memory spa	Option function board	
Function name	Option OS name	b Built-in flash memory (ROM)	B User memory (RAM)	GT16-MESB
Maintenance timing setting	Not required	-	-	Not required
Multi-channel	Not required	-	-	Not required
	Standard Font (China GB)	1280KB	1280KB	Not required
	Standard Font (China Big5)	1920KB	1920KB	Not required
	Standard Font (Japanese)	1280KB	1280KB	Not required
KANJI regions	Stroke Font (JPN)	1037KB	1037KB	Not required
	Stroke Font (China GB5)	1248KB	1248KB	Not required
	Stroke Font (China Big5)	1680KB	1680KB	Not required
0 <i>i i i</i>	Operation Log	384KB	1221KB	Not required
Operation log	Device name converter	400KB	800KB	Not required
Document display	Document Display	150KB	3072KB	Not required
Kana-kanji conversion (enhanced version)	KANA KANJI(JPN) (Enhanced Version)	1242KB	2774KB	Not required
Historical Trend Graph	Not required	-	-	Not required
Logging	Logging	380KB	710KB	Not required
Recipe	Recipe	70KB	100KB	Not required
Advanced Recipe	Advanced Recipe	310KB	1187KB	Not required
Object Script	Object Script	180KB	360KB	Not required
	Ladder monitor for MELSEC-A	342KB	674KB	Not required
Ladder monitor	Ladder monitor for MELSEC-FX	342KB	674KB	Not required
	Ladder monitor for MELSEC-Q/QnA	590KB	4170KB	Not required
A list editor	List editor for MELSEC-A	542KB	1024KB	Not required
FX list editor	List editor for MELSEC-FX	542KB	1024KB	Not required
Intelligent module monitor	Intelligent module monitor	390KB	770KB	Not required
Network monitor	Network monitor	210KB	370KB	Not required
Q motion monitor	Q motion monitor	390KB	770KB	Not required
Servo amplifier monitor	Servo amplifier monitor	390KB	770KB	Not required
CNC monitor	CNC monitor	390KB	770KB	Not required
	GOT Platform Library	77KB	200KB	Not required
SFC monitor	SFC monitor	608KB	1940KB	Not required
	GOT Function Expansion Library	4728KB	19381KB	Not required
	Gateway (Server, Client)	50KB	100KB	Not required
Gateway	Gateway (Mail)	50KB	100KB	Not required
	Gateway (FTP)	50KB	84KB	Not required
MES interface	MES Interface	1598KB	13461KB	0

*1 The OS memory space differs between the built-in flash memory (ROM) and the user memory (RAM). When writing data, including the OS, communication drivers, and project data, from the built-in flash memory (ROM) to the user memory (RAM), the OS memory space increases. Make sure that the total data size does not exceed the user memory (RAM) capacity.

For GT15

(a) Extended function OS

: Required (Either one) ×: Unusable

			-		,	
		A	Option function board			
Function name	Extended function OS	OS memory		GT15-QFNB		
r anotor name		space	GT15-FNB	GT15-QFNB M	GT15-MESB48M	
		(user area)				
Bar code	Bar code	84KB		Not required		
RFID	RFID	166KB		Not required		
System monitor	System monitor	746KB		Not required		
Report	Report	235KB		Not required		
Printer	Printer	1104KB		Not required		
	Stroke Font Support Data	400 KB		Not required		
	Stroke Standard Font(JPN)	2160KB		Not required		
	Stroke Standard	3175KB		Not required		
Stroke font*3	Font(JPN)(supporting Hangul)	STISKE	Horrequired			
Stroke lont	Stroke Standard Font(China	1474KB	Not required			
	GB)					
	Stroke Standard Font(China	2016KB	Not required			
	GB)(supporting Hangul)	201010				
Video display*2	Video/RGB	512KB	Not required			
RGB display ^{*2}	VIACONTOD	012100		Notrequired		
Remote personal computer	Video/RGB	512KB		Not required		
operation*2	PC Remote Operation	84KB		Not required		
Backup/restore	Backup/Restore	820KB		Not required		
Operator Authentication	Operator authentication	784KB		Not required		
Sound Output	Sound Output	200KB		Not required		
External I/O / Operation Panel	External I/O / Operation Panel	100KB		Not required		
CNC data I/O ^{*1}	CNC Data I/O	437KB	Not required			
CINC data I/O	GOT Platform Library	100KB	Not required			
Device data transfer	Device Data Transfer	100KB		Not required		

*1 Applicable to the GT1595-X, GT1585V-S, GT1585-S, GT1575V-S, and GT1575-S only.

*2 Applicable to the GT1585V-S and GT1575V-S only.

*3 For using fonts, install option fonts if necessary.

For how to use fonts and the setting method, refer to the following manual.

GT Designer2 Version Screen Design Manual (2.3 Specifications of Applicable Characters)

2

SOFTWARE

CONNECTION **A** FUNCTION

(b) Option OS

○: Required (Either one) ×: Unusable

		B		Option function board			
Function name	Option OS name	OS memory space (user area)	GT15-FNB	GT15-QFNB GT15-QFNB M	GT15-MESB48M		
Maintenance timing setting	Not required	-	0	0	0		
Multi-channel	Multi-channel Not required		×	0	0		
	Standard Font (China GB)	1280KB	0	0	0		
	Standard Font (China Big5)	1920KB	0	0	0		
	Standard Font (Japanese)	1280KB	0	0	0		
KANJI Tegions	Stroke Font (JPN)	1037KB	0	0	0		
	Stroke Font (China GB5)	1248KB	0	0	0		
	Ince timing setting Not required Not required Not required Not required Not required Standard Font (China GB) Standard Font (China GB) Standard Font (Japanese) Stroke Font (JPN) Stroke Font (JPN) Stroke Font (China Big5) Stroke Font (China Big5) Operation Log Device name converter Intent display canji conversion KANA KANJI(JPN) atarji conversion Atarji conversion KANA KANJI(JPN) atarji conversion KANA KANJI(JPN) atarji conversion Atarji conversion KANA KANJI(JPN) atarji conversion KANA KANJI(JPN) atarji conversion Atarji	1680KB	0	0	0		
	Operation Log	1218KB	0	0	0		
Operation log Device name converter		800KB	0	0	0		
Document display	Document Display	2048KB	×	0	0		
Kana-kanji conversion	KANA KANJI(JPN)	1223KB	0	0	0		
Kana-kanji conversion KANA KANJI(JPN)		2774KB	0	0	0		
Historical Trend Graph	Not required	-	0	0	0		
Logging	Logging	740KB	0	0	0		
Recipe	Recipe	100KB	0	0	0		
Advanced Recipe	Advanced Recipe	1241KB	0	0	0		
Object Script	Object Script	360KB	0	0	0		
	Ladder monitor for MELSEC-A	523KB	0	0	0		
Ladder monitor*2		592KB	0	0	0		
		1082KB	×	0	0		
A list editor	List editor for MELSEC-A	1058KB	0	0	0		
FX list editor	List editor for MELSEC-FX	1058KB	0	0	0		
Intelligent module monitor*2	Intelligent module monitor	384KB	0	0	0		
Network monitor	Network monitor	324KB	0	0	0		
Q motion monitor	Q motion monitor	607KB	0	0	0		
Servo amplifier monitor	Servo amplifier monitor	524KB	0	0	0		
CNC monitor ^{*1}	CNC monitor	588KB	0	0	0		
	GOT Platform Library	100KB		Not required	i .		
SFC monitor*2*4		1373KB	×	0	0		
SFC monitor ^{-2*4} GOT Function Expansion Library 47		4728KB	×	0	0		
	Gateway (Server, Client)	100KB	0	0	0		
Gateway	Gateway (Mail)	100KB	0	0	0		
	Gateway (FTP)	64KB	0	0	0		
MES interface ^{*3}	MES Interface	3196KB	×	×	0		

*1 Applicable to the GT1595-X, GT1585V-S, GT1585-S, GT1575V-S, and GT1575-S only.

*2 Inapplicable to the GT1555-Q and GT1550-Q.

*3 A capacity of 8218KB in the add-on memory (48MB) of the GT15-MESB48M is used for the MES interface function operation. *4 For using the SFC monitor function, a capacity of 6201KB or more is required in the user area of the specified drive for installing the extended function OS and option OS. (For using the GOT with the built-in flash memory of 5MB, set the OS boot drive to [A: Standard CF Card].) For operating GOT Function Expansion Library (option OS), a capacity of 8192KB is required in the user area

To operating GOT Function Expansion Euroral (option GS), a capacity of o 192A B is required in the user area of the GOT memory. (A total memory capacity of 14393KB is required for using the SFC monitor function.) Therefore, the following settings are required depending on the GOT to be used.

GOT	Required setting		
GT1575-VN, GT1572-VN, GT1562-VN	Setting the OS boot drive to [A: Standard CF Card] Memory expansion (Installing an option function board with add-on memory)		
Other than the above	Memory expansion (Installing an option function board with add-on memory)		

For setting the OS boot drive, refer to the following.

GT Designer2 Version Basic Operation/Data Transfer Manual (Chapter 8 TRANSFERRING DATA)

For GT11

○: Required ×: Disabled

Function name		Extended function OS/Option OS	OS capacity	Option function board	
		Extended function OS/Option OS	(User area)	GT11-50FNB	
	Bar code	Bar code		Not required	
Extended function	RFID	RFID		Not required	
laneaon	System monitor	System monitor		Not required	
	Recipe	Recipe	0KB	0	
Optional function	A list editor ^{*1}	MELSEC-A list editor		0	
	FX list editor*2	MELSEC-FX list editor		0	

*1 Not available for GT1155-QTBDQ, GT1155-QSBDQ and GT1150-QLBDQ.

*2 Not available for GT1155-QTBDQ, GT1155-QTBDA, GT1155-QSBDQ, GT1155-QSBDA, GT1150-QLBDQ and GT1150-QLBDA.

For GT10

Function name		Extended function OS/Option OS	OS capacity (User area)	Option function board
	Bar code	Not required	-	Not required
Optional function	Recipe	Not required	-	Not required
Iuncuon	FX list editor *1	Not required	-	Not required

*1 Inapplicable to the GT1030 and GT1020.

2

SOFTWARE

3

FUNCTION

CONNECTION CONFIGURATION

5

COMPLIANCE WITH OVERSEAS STANDARDS

6

EQUIPMENT, SOFTWARE, AND MANUALS

7

GLOSSARY

For GT SoftGOT1000

 \bigcirc : Required \times : Disabled

	Function name	Extended function OS/Option OS	OS capacity (User area)	Option function board
	Report	Not required	-	Not required
	Printer	Not required	-	Not required
	Stroke font	Not required	-	Not required
Extended function	Operator authentication	Not required	-	Not required
Turicuori	Sound output	Not required	-	Not required
	External I/O/operation panel*1	Not required	-	Not required
	Device data transfer	Not required	-	Not required
	Kanji region	Not required	-	Not required
	Operation log	Not required	-	Not required
	Document display	Not required	-	Not required
Optional	Historical trend graph	Not required	-	Not required
function	Logging	Not required	-	Not required
	Recipe	Not required	-	Not required
	Advanced recipe	Not required	-	Not required
	Object script	Not required	-	Not required

*1 With the keyboard input function, operations equivalent to the ones with the operation panel function are available.

EQUIPMENT, SOFTWARE, AND MANUAL

(2)	Selecting by user area	size	(drive space	required for	data transfer)
-----	------------------------	------	--------------	--------------	----------------

The GOT operates by expanding the OS or Project data stored in the built-in flash memory (ROM) to the user memory (RAM).

For the GT16, since a part of the data is compressed to be stored in the built-in flash memory (ROM), the data size becomes larger when it is expanded to the user memory (RAM). Boot OS, Standard monitor OS, Communication driver, Extended function OS, Option OS, Special data, Project data and other data resides on the system area and user area of the drive specified by the GOT.

Regarding Boot OS, Standard monitor OS and first communication driver on the GT15 that reside on the system area of the C drive, it is not necessary to check the data capacity before installation.

However, when the GT16 or GT15 is used, for extended function OS, option function, communication driver (the second or later communication driver for the GT15) and project data that reside on the user area, data will not be transferred if there is insufficient space on the target drive.

When performing data transfer (OS installation, project data download), confirm the amount of space available on the specified drive's user area and the amount of data to be transferred.

	Transfer destination	User area size		Remarks	
	Drive C (C: Built-in Flash memory)	15MB		The total memory size of Extended function OS, Option OS, Special data, and Communication driver must be	
	Drive A (A: Standard CF Card)	Check the CF Card capacity.		smaller than the user area capacity. Download (store) the Project data to Drive A (A: Standard CF Card) or Drive B (B: Extended Memory Card) if user	
ст 16	Drive B (B: Extended Memory	Check the CF Card capacity	1	area does not have enough space for Project data, Extended function OS, Option OS, Special data,	
	Drive E (E: USB memory)	Check the USB memory capacity.		Communication driver, and buffering. (Refer to 3.2. Point)	
	Drive C (C: Built-in Flash memory)	GT1595-X, GT1585V-S GT1585-S, GT1575V-S GT1575-V, GT1565-V GT1555-V GT1555-Q, GT1550-Q GT1575-VN, GT1575-VN, GT1572-VN	9МВ 5МВ	The total size of the extended function OS, option OS, special data, and second communication driver or later must be within the user area size. An option function board with add-on memory is	
GT 15	Drive A (A: Standard CF Card)	GT1562-VN Check the memory size of CF card.		necessary if user area does not have enough space for Project data, Extended function OS, Option OS, Specia data, Communication driver, and buffering.	
	Drive B (B: Extended Memory Card)	Check the memory size of C	F card.	(Refer to 3.2. Point)	
С ст 11	Drive C (C: Built-in Flash memory)	ЗМВ		The project data size is up to 3MB.	
	Drive C (C: Built-in Flash memory)	GT105	ЗМВ	The project data size is a maximum of 3MB.	
С бт 10	Drive C (C: Built-in Flash memory)	GT1030	1.5MB	The project data size is up to 1.5MB.	
	Drive C (C: Built-in Flash memory)	GT1020 512Ki		The project data size is up to 512KB.	

User area size

Each type of data is grouped and shown as (a), (b), (A),

Apply the corresponding size when calculating the data size with the following expressions or flow charts.

Data type (GT16)	Data typ
a Extended function OS stored in the ROM	A Extended function OS
b Option OS stored in the ROM	B Option OS
Extended function OS expanded to the RAM	C Second or later comm
B Option OS expanded to the RAM	D Special data
C Communication driver	Project data
D Special data	Buffering area
E Project data	
F Buffering area	
	-

e (GT15)

unication driver

a , A Data size of extended functions

For the data size of the extended function OS, refer to section 3.2 (1).

(b), **(B)** Data size of optional functions

For the data size of the option OS, refer to section 3.2 (1).

C Communication driver data size

For GT16

1

		User area capacity
	Bus (Q)	180KB
	A/QnA/Q CPU, QJ71C24	180KB
	MELSEC-FX	180KB
_	MELSECNET/H	200KB
	CC-Link IE Controller Network	200KB
ст 16	JTEKT TOYOPUC-PC	160KB
	Ethernet (YASKAWA)	160KB
	Computer	230KB
	Communication driver other than the above	150KB

For GT15

Communication drivers use 150 KB each.

Buffering area size (data size)

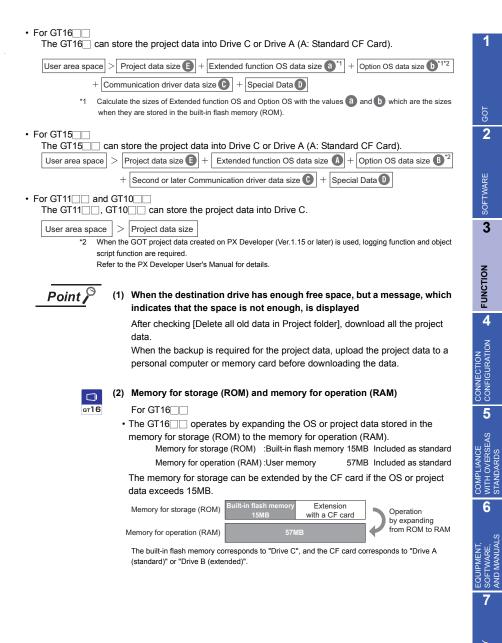
For the buffering area size, refer to the settings for the advanced alarm. Refer to the following manual for the data size of the buffering area size. GT Designer2 Version Screen Design Manual

(a) Newly transferring data to the GOT

Check whether the following expression is satisfied or not.

Refer to the following section for the project data size.

- GT Designer2 Version Basic Operation/Data Transfer Manual
 - 8.1.2 3 Checking the project data size to be downloaded in this section



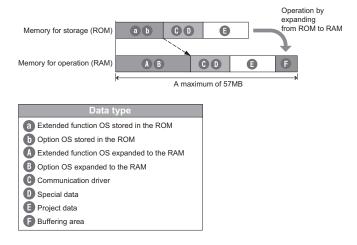
• The memory for operation (RAM) cannot be extended. If the amount of data expanded to the memory for operation (RAM) exceeds 57MB, data must be resized by reducing the project data or deleting the unnecessary OS.

For the extended function OS and option OS, the compressed data (2) and (5) are stored in the memory for storage (ROM) and the data size becomes larger as shown by (1) and (3) when they are expanded to the memory for operation (RAM).

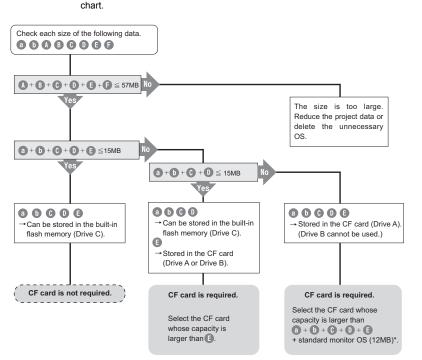
The buffering area () is an area for storing the resource data such as logging or advanced alarm and uses the memory for operation (RAM). The data size varies depending of the setting.

The stored resource data is stored to the specified storage destination (Drive A or Drive B) when saving to a file is specified by GT Designer2. (The memory for storage (ROM) is not used.)

If the amount of data expanded to the memory for operation (RAM) exceeds 57MB, data must be resized by deleting the project data or unnecessary OS.



• Whether the CF card is required or not and the required capacity of CF card vary depending on the data size. Select whether to use the CF card and its capacity using the following flow



* : When the extended function OS and option OS are stored in the CF card (Drive A), the standard monitor OS (standard monitor OS, basic font, etc.) must be stored also in the CF card (Drive A).

2

SOFTWARE

3

CONNECTION **A** FUNCTION

COMPLIANCE WITH OVERSEAS STANDARDS

6

EQUIPMENT, SOFTWARE, AND MANUALS For GT15

 The GT15 operates by expanding the OS or project data stored in the memory for storage (ROM) to the memory for operation (RAM).

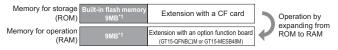
Memory for storage (ROM): Built-in flash memory 9MB or 5MB^{*1} Included as standard

 Memory for operation (RAM):
 9MB or 5MB*1
 Included as standard

 *1:
 Varies depending on the GOT main unit model.GT15____TB_::
 9MB

 GT15____VNB_::
 5MB

The memories can be extended by the CF card and expansion memoryattached option function board (GT15-QFNB_M or GT15-MESB48M) if the OS or project data exceeds 9MB or 5MB.

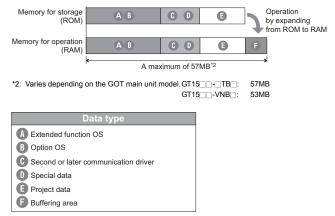


The built-in flash memory corresponds to "Drive C", and the CF card corresponds to "Drive A (standard)" or "Drive B (extended)".

 The memory for operation (RAM) can be extended up to 57MB² with the option function board.

If the amount of data expanded to the memory for operation (RAM) exceeds 57MB^{*2}, data must be resized by deleting the project data or unnecessary OS.

The buffering area () is an area for storing the resource data such as logging or advanced alarm and uses the memory for operation (RAM). The data size varies depending of the setting. The stored resource data is stored to the specified storage destination (Drive A or Drive B) when saving to a file is specified by GT Designer2. (The memory for storage (ROM) is not used.)

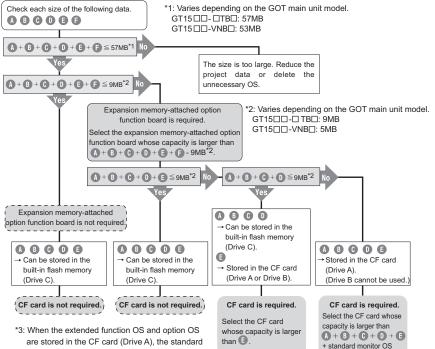




GT15

 Whether the expansion memory-attached option function board or CF card is required or not and the required capacity of expansion memory-attached option function board or CF card vary depending on the data size.
 Select whether to use the expansion memory-attached option function board or

CF card and their capacity using the following flow chart.



are stored in the CF card (Drive A), the standard monitor OS (standard monitor OS, basic font, first communication driver, etc.) must be stored also in the CF card (Drive A). 2

SOFTWARE

3

FUNCTION

4

CONNECTION CONFIGURATION

5

EQUIPMENT, SOFTWARE, AND MANUALS

(6MB)*3.



Limit to write OS

(1) When the drive of the Standard OS in the Boot Drive is C drive

Even when the option function board with add-on memory is mounted to the GOT, the total volume of the Communication driver (the second or later one for the GT15___), Extended function OS, and Option OS cannot exceed the user area capacity in the C drive.

(2) When the drive of the Standard OS in the Boot Drive is C drive

For GT16 :: Since the memory for operation (RAM) is included as standard, the total volume of the Communication driver, Extended function OS, Option OS, project data, special data, and etc. can be up to the max. total memory capacity.

Max. RAM capacity

Transfer destination	Target models	Max. capacity
С ст 16	GT1695M-X, GT1685M-S	57MB

Refer to the following manual for details about the capacities of the memory for operation (RAM). $\Box = \overline{\mathcal{F}}$ GT16 User's Manual

For GT15 : When the option function board with add-on memory is mounted to the GOT, the total volume of the second or later Communication driver, Extended function OS, Option OS, project data, special data, and etc. can be up to the max. total memory capacity of the option function board with add-on memory.

Max. total capacity when using the expansion memory-attached option function board

Transfer destination	Target model	Max. total capacity
	GT1595-X, GT1585V-S, GT1585-S, GT1575V-S GT1575-V, GT1565-V, GT1555-V, GT1555-Q, GT1550-Q	57MB
ст15	GT1575-VN, GT1572-VN, GT1562-VN	53MB

Refer to the following manual for details about the types and capacities of the option function boards with add-on memory.

GT15 User's Manual

3

2

5

GLOSSARY

Project data

- (1) Compatibility when changing from GT Designer to GT Designer2 * The project data created with GT Designer is available for GT Designer2.
- (2) Compatibility when changing GOT900 series to GOT1000 series *
 - Using data of GOT-A900 series in GOT1000 series The project data for GOT900 series is available for GOT1000 series. · Using data of GOT-F900 series in GOT1000 series
 - The project data for GOT-F900 series is available for GOT1000 series. For details, refer to "Project Data Conversion Summary (JY997D17601A)". *: Some data and functions are not available.

Cable

- For the details of using the GOT900 series bus connection cables, RS-422 cables and RS-232 cables with the GOT1000 series, see TECHNICAL BULLETIN No.GOT-A-0009.
- The bus connection cables, RS-422 cables and RS-232 cables for the GOT1000 series cannot be used for the GOT900 series.

Panel cutting dimension

- (1) Compatibility when changing GOT900 series to GOT1000 series
 - The panel cutting dimension is the same between A985GOT(-V) and GT1585, between A975/ 970GOT(-B) and GT157, and F940GOT and GT155, GT115. Changing the mounting hole is not required.
 - The panel cutting dimension is different between A95 and GT155 //GT115 -Q BDQ or GT115 -Q BDA. However, the GOTs can be exchanged without changing the mounting hole.

When using multi-channel function with GT16 or GT15

The multi-channel function monitors multiple FA devices with mounting multiple communication units on a GOT or using the standard interface.

Available combinations of connection types

(1) GT16

For GT16, the combinations of the bus or network connection, the Ethernet connection, and the serial connection are available as shown in the following table.

Bus / network connection	Ethernet connection	Serial connection
Bus connection	 Ethernet connection 	 Direct CPU connection
MELSECNET/H connection (programmable controller to programmable controller network)	Third party programmable controller connection (Ethernet connection)	Computer link connection
 MELSECNET/10 connection (programmable controller to programmable controller network) 	MODBUS [®] /TCP connection	CC-Link connection (via G4)
CC-Link IE controller network connection	Robot controller connection	 Third party programmable controller connection (serial connection)
CC-Link connection (intelligent device station)	 CNC connection (Ethernet connection) 	Microcomputer connection
CNC connection (MELSECNET/10 connection		 Temperature controller
(programmable controller to programmable controller		connection
network), CC-Link connection (intelligent device		 Inverter connection
station))		 Servo amplifier connection
		 CNC connection (serial
		connection)

The following shows the applicable combinations of connection types, the number of channels, and restricted functions.

			: A I	owed	
ltem	Allowable combination of connection types	GOT to be used	Functions that are restricted by the connection type ^{*1}		
item	Allowable combination of connection types	GT1695	FA transpar	ent function	
		GT1685	RS-232	USB	
(a)	 Bus / network connection: 1 channel 	Max, 4 channels	.*2	0	
(a)	 Serial connection: 1 to 3 channels 	Wax. 4 channels	*²	0	
(b)	Bus / network connection: 1 channel	Max, 4 channels	^{*2}	0	
(b)	Ethernet connection: 1 to 3 channels	Wax. 4 channels		0	
(C)	Ethernet connection: 1 to 3 channels	Max, 4 channels	_* 2		
(0)	 Serial connection: 1 to 3 channels 	Max. 4 Chamleis		0	
	Bus / network connection: 1 channel				
(d)	 Ethernet connection: 1 to 2 channels 	Max. 4 channels	* ²	0	
	Serial connection: 1 to 2 channels				
(e)	Serial connection: 4 channels	Max. 4 channels	^{*2}	0	
(f)	Ethernet connection: 4 channels	Max. 4 channels	^{*2}	0	

*1 When the functions below are used, the connectable number of channels may be restricted depending on the combination of the functions to be used.

 Bar code function RFID function

- · Remote personal computer operation function Report function
 Hard copy(For printer output)
 - Video/RGB display

- RGB output
- External I/O/ Operation panel
- Sound output

• Multimedia function • Functions with the CF card unit or CF card extension unit The video/RGB display, the RGB output, and the multimedia function cannot be used together. The CF card unit and the CF card extension unit cannot be used at the same time.

The barcode function, the RFID function, and the remote personal computer operation function can not be used together.

For details, refer to the following.

F Mounting units on the GOT side interface <GT16/GT15>

*2 With the barcode function, the RFID function, or the remote personal computer operation function, the FA transparent function via the RS-232 connection is not available.

(2) GT15

For GT15, the combinations of the bus, network, or Ethernet connection and the serial connection are available as shown in the following table.

Bus / network / Ethernet connection	Serial of	connection
Bus connection	Direct CPU connection	 Computer link connection
MELSECNET/H connection (programmable controller to programmable controller network)	CC-Link connection (via G4)	Third party programmable controller connection (serial connection)
 MELSECNET/10 connection (programmable controller to programmable controller network) 	Microcomputer connection	Temperature controller connection
CC-Link IE controller network connection	 Inverter connection 	 Servo amplifier connection
 CC-Link connection (intelligent device station) 	CNC connection (serial connection)	ion)
Ethernet connection		
Third party programmable controller connection (Ethernet connection)		
MODBUS [©] /TCP connection		
Robot controller connection		
CNC connection (MELSECNET/10 connection (programmable		
controller to programmable controller network), CC-Link connection		
(intelligent device station), Ethernet connection)		

The number of channels and the functions that can be used differ depending on the GOT to be used. The table below shows the allowable combinations of connection types, the number of channels and restricted functions.

		GOT to be used		Functions that are restricted by the connection type*1*2	
		GT1595		FA transpar	ent function
Item	Allowable combination of connection types	GT1585		RS-232	
		GT157	GT155		USB
		GT156			
(a)	Bus / network / Ethernet connection: 1 channel	Max. 4	Max. 2	*3	
(a)	Serial connection: 1 to 3 channels	channels	channels	△*3	0
(b)	Serial connection: 4 channels	Max. 4	Max. 2	^{*3}	~
		channels	channels	~ ~	

- *1 When the functions below are used, the connectable number of channels may be restricted depending on the combination of the functions to be used.
 - Bar code function
 • RFID function
 • Remote personal computer operation function
 - Report function
 Hard copy(For printer output)
- Video/RGB display
 Sound output
- RGB output
 External I/O/ Operation panel
- Functions with the CF card unit or CF card extension unit
- Ethernet download
 Gateway function
 MES interface function
- Video/RGB display and RGB output cannot be used at the same time.
- The CF card unit and the CF card extension unit cannot be used at the same time.
- The barcode function, the RFID function, and the remote personal computer operation function can not be used together.

For details, refer to the following.

- F Mounting units on the GOT side interface <GT16/GT15>
- *2 When any of the connection methods below is used, Ethernet connection cannot be used although Ethernet download, gateway function and MES interface function can be used.
 - Bus connection
 MELSECTNET/H connection
 MELSECNET/10 connection
 - CC-Link IE controller network connection
 CC-Link connection
 - MODBUS[®] /TCP connection
- *3 With the barcode function, the RFID function, or the remote personal computer operation function, the FA transparent function via the RS-232 connection is not available.

2

SOFTWARE

3

FUNCTION

○: Allowed △: Restricted

6

Number of connectable channels/mountable units/mountable stages

(1) Number of connectable channels

The number of connectable channels differs according to the GOT model. Refer to the following table.

(2) Number of mountable units/mountable stages

The following describes how to add the interface on a GOT for using the multi-channel function.

- (a) Mount a communication unit on the extension interface. In addition, when adding communication unit on the second stage and third stage, mount a communication unit on the already mounted unit.
- (b) Mount a communication unit on the extension interface, and use the unit and the standard interface. The numbers of mountable units and mountable stages differ according to the GOT model. Refer to the following table.
 - *: Communication units, option units, and GOT functions have restrictions depending on the system configurations.

		GT1695 GT1685	GT1595 GT1585 GT157 GT156	GT155🗆	Description
	Max. number of				GT16: Indicates the maximum number of the communication ports (communication units and standard interfaces) that a GOT can communicate. • In bus connection and network connection, only 1 channel can be set for one GOT. • For the Ethernet connection, up to 4 channels can be set. • connection is not included in the court of the number of channels. • When the standard interface is used for connecting :20 peripheral devices, the interface is not included in the number of channels. • @Refer to "Calculation of current consumed by units <gt16 15="">*.</gt16>
(1)	connectable channels	4	2	CT15: Indicates the maximum number of the communication ports (communication units and standard interfaces) that a GOT an communication and each commented to one GOT for the bus connection and network connection respectively. • When the Ethernet communication unit is used for functions ⁴ other than communications with controllers, the unit the not included in the number of channels. • number of channels. • number of channels. • Calculation of current consumed by units <gt16 15-*.<="" td=""></gt16>	
	Max.number of mountable units			3	Indicates the maximum number of units that can be mounted on the extension interfaces 1 and 2 of a GOT. • Only for the serial communication unit?, multiple units can be mounted. • The RA-22 conversion unit is not included in the number of units. • The RA-22 conversion unit is not included in the number of units. • Calculate the current consumed by a unit to be mounted. © Refer to "Calculation of current consumed by units <gt16 15*".<="" td=""></gt16>
(2)	Max. number of mountable stages 3 (2 slots) 3 (1 slot)		3 (1 slot)	Indicates the maximum number of stages for the extension interfaces 1 and 2 of a GOT. • Units* that accupice's closis must be mounted at the first stage. • However, when using units shown m ⁵ mount the units at the first stage and mount the other units at the second stage or later: • Units shown in* cannot be mounted on any units. Mount the units at the first stage. ©? Refer to 'External Dimensions' in section 1.5 and 'Mounting units on the GOT side interface <gt16 15="">*.</gt16>	

*1: Ethernet download, gateway function, MES interface function

*2: Bar code function, RFID function, remote personal computer operation function, FA transparent function, OS installation, project data download

*3: GT15-RS2-9P, GT15-RS4-9S, GT15-RS4-TE

*4: GT15-QBUS2, GT15-ABUS2, GT15-J71LP23-25, GT15-J71BR13, GT15-J61BT13, GT15-J71GP23-SX

*5: GT16M-V4, GT15V-75V4, GT16M-R2, GT15V-75R1, GT16M-V4R1, GT15V-75V4R1, GT16M-ROUT, GT15V-75ROUT, GT16M-MMR *6: GT15-750BUSL GT15-750BUS2L, GT15-75ABUSL GT15-75ABUS2L, GT15-75J71LP23-Z, GT15-75J71BR13-Z, GT15-75J61BT13-Z

Communication driver

The communication driver must be installed for each connection type to be used. For GT16, the communication driver is installed to the user area.

For GT15, the second or later communication driver is installed to the user area.

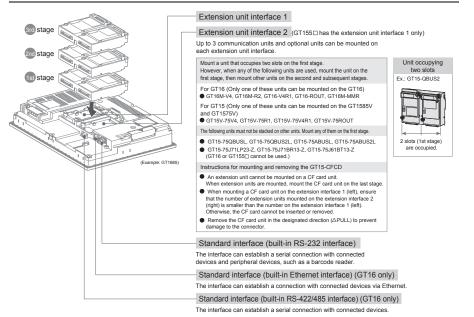
Option function board

When using GT16, it is not required.

When using GT15, the option function board is required.

Use an option function board of the GT15-QFNB (
M) or GT15-MESB48M. The GT15-FNB is not available

Mounting units on the GOT side interface <GT16/GT15>



Calculation of current consumed by units <GT16/15>

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

Unit model

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

Unit model

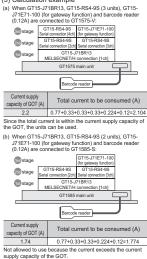
GOT model	Current supply capacity (A)	
GT1695	2.4	
GT1685	2.4	
GT1595	2.13	
GT1585	1.74	
(incl. GT1585V)	1.74	
GT1570	22	
(incl. GT1575V)	2.2	
GT156	2.2	
GT1550	1.3	

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

*1 . This value is used for calculating the current consumption of multi-channel functions For the specifications of each unit, see the manual supplied with each unit. *2 : When using a barcode reader or a RFID controller to which the power is supplied

from the sandard interface, add the current to be used by the barcode reader and RFID controller at 5VDC. (Maximum less than 0.3A)

(3) Calculation example





3

4

6

(1) License key

A license key is required for using GT SoftGOT1000. The license key includes the following two types.

Model	Description
GT15-SGTKEY-U	For connecting to USB port
GT15-SGTKEY-P *1	For connecting to parallel port

*1: Not available with the PC CPU module that has no parallel port. Use the GT15-SGTKEY-U.

(a) How to use license key

Be sure to connect a license key to the target device before monitoring with GT SoftGOT1000.

When monitoring is started without the license key, GT SoftGOT1000 automatically ends in approximately two hours.

Do not remove the license key during monitoring.

When the license key is removed during monitoring, GT SoftGOT1000 automatically ends.

(b) Before connecting license key

The OS recognizes a license key as a controller. Therefore, install the system driver (device driver) as in the case of the other controllers. The license key is accessed via the system driver. When the system driver is not installed, the license key cannot be accessed.

(c) Applicable target of license keys The GT15-SGTKEY-U and GT15-SGTKEY-P are dedicated to GT SoftGOT1000. The license keys are not applicable to GT SoftGOT2.

(2) When connecting GT15-SGTKEY-U

(a) Precautions for installing or uninstalling system driver

Remove the GT15-SGTKEY-U before installing or uninstalling the system driver. When installing the system driver with the GT15-SGTKEY-U connected, the installation of USB may fails.

When the installation fails, uninstall the system driver with the GT15-SGTKEY-U removed, and then install the system driver again.

1

5

6

EQUIPMENT, SOFTWARE, AND MANUAL

(3) When connecting GT15-SGTKEY-P

(a) Available port for GT15-SGTKEY-P

The GT15-SGTKEY-P can be used with the parallel port mounted on a personal computer by default.

The GT15-SGTKEY-P is not applicable to parallel ports extended or connected via a converter.

(b) When using GT15-SGTKEY-P with other devices

The following devices cannot be used at the same port as that for the GT15-SGTKEY-P.

- SCSI interface for parallel port
- Floppy disk drive, hard disk drive, CD-ROM or ZIP drive connected to parallel port
- Devices with data transfer methods that the specifications are out of the standard specification for the communication method via a parallel port (Interlink network, Centronics printer interface, and others)
- (c) Precautions for connecting GT15-SGTKEY-P Connect the GT15-SGTKEY-P between the printer switching device and a personal computer.

(4) When using system driver

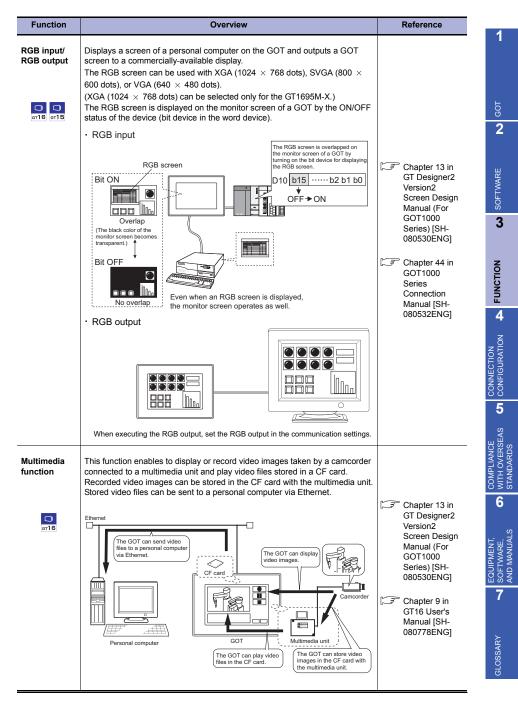
Use a system driver included in GT Works2 Version2/GT Designer2 Version2 of Ver 2.25B or later.

For using a system driver of Ver 2.25B or earlier, though the GT15-SGTKEY-P can be used, the GT15-SGTKEY-U cannot be used.

3.3 Overview of Each Function

Hardware specifications

Function	Overview	Reference
Clock function	Manages the clock data of a GOT. The clock data can be selected as a standard for adjusting the time. Broadcast Adjusts the time of the programmable controller CPU clock data to the clock data of the GOT. Adjust Adjust the time of the GOT clock data to the clock data of a programmable controller CPU.	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG] Chapter 9 in GT16 User's Manual [SH- 080578ENG] Chapter 12 in GT15 User's Manual [SH- 080528ENG] Chapter 12 in GT11 User's Manual [JY997D17501] Chapter 13 in GT10 User's Manual [JY997D24701] Chapter 43 in Handy GOT User's Manual [JY997D20101]
Video input	Displays the image taken with a camcorder on a video window. The video window operates independently of other screens. While opening the video window, base screens can be switched. Camcorder (Channel No.1) Camcorder (Channel No.2) Camcorder (Channel No.3) Camcorder (Channel No.4) Video window 4 Video window 2 Video window 2	Chapter 13 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG] Chapter 44 in GOT1000 Series Connection Manual [SH- 080532ENG]



Function	Overview	Reference
Backlight shutoff detection function		Chapter 9 in GT16 User's Manual [SH- 080778ENG]
0 0 0 016 015 011	Detects the backlight shutoff of a LCD and indicates the backlight shutoff with the POWER LED on the GOT front face.	Chapter 19 in GT15 User's Manual [SH- 080528ENG]
	Litin Blinks in orangegreen Litin orange	Chapter 17 in GT11 User's Manual [JY997D17501]
	Normal Backlight shutoff detected Screen saving * Cannot be used for GT1030 and GT1020.	Chapter 18 in GT10 User's Manual [JY997D24701]
		Chapter 50 in Handy GOT User's Manual [JY997D20101]

Main unit functions

Function	Overview	Reference
FA transparent function	Enables a personal computer to read, write, and monitor a sequence program of the MITSUBISHI programmable controller via a GOT connected to the programmable controller and the personal computer. The software version applicable to the FA transparent function differs depending on the software.	Chapter 50 in GOT1000 Series Connection Manual [SH- 080532ENG] Chapter 39 in Handy GOT User's Manual [JY997D20101]
Multi-channel function	Monitors up to four controllers (four channels), including a programmable controller CPU, a temperature controller, and an inverter, on one GOT with multiple communication drivers installed. For specifications and precautions of the multi-channel function, refer to "Precautions for Use" in section 3.2.	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG] Chapter 49 in GOT1000 Series Connection Manual [SH- 080532ENG]

2 00 2

SOFTWARE

CONNECTION **A** FUNCTION

COMPLIANCE WITH OVERSEAS STANDARDS

6

EQUIPMENT, SOFTWARE, AND MANUALS

7

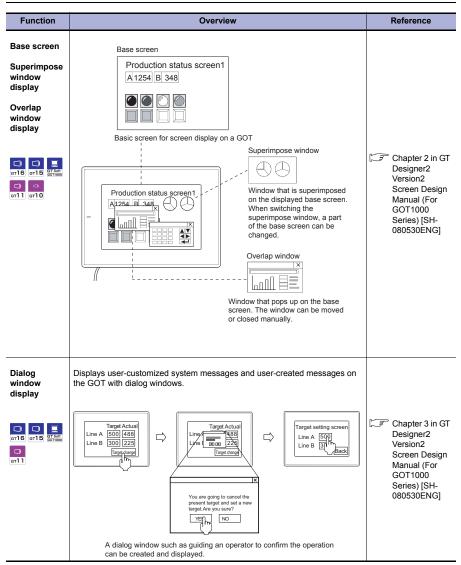
GLOSSARY

Function		Overview	Reference
Gateway function	computer, and sends alarms or	manufacturers on one GOT or personal ccurred on the GOT by e-mail. nonitoring and remote maintenance of a	
c16 c15	Cation MITSUBISH programmable controller is standard	Server Server	Chapter 15 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG] Chapter 52 in GOT1000 Series Connection Manual [SH- 080532ENG] GOT1000 Series Gateway Functions
	Third party programmable controller connection Microcomputer connection	Serial connection ¹⁴ Ethemet connection MODBUS [®] /TCP connection	Manual [SH- 080545ENG]
	Temperature controller connection Robot controller connection *6	*4	
	Robot controller connection "b	Direct CPU connection	
		Direct CPU connection MELSECNET/10 connection (programmable controller to *1 programmable controller network)	
	CNC connection *7	CC-Link connection (intelligent device station) *2	
	14 Miles	Ethernet connection	
		IET/10 connection, use the MELSECNET/H communication communication unit is not available.	
	*2: When using the CC-Link co	onnection, use the CC-Link communication unit	
	(GT15-J61BT13). The CC *3: The GT16 is applicable to 1	-Link communication unit (GT15-75J61BR13-Z) is not available. the CC-I ink (ID) Ver 2 only	
	*4: When connecting a GOT to	controllers below, the server/client function is not available.	
	JTEKT programmable cor *5: Including connection to the	ntroller · SHINKO indicating controller motion controller CPU (Q series and A series), CNC C70, and CRnQ-700	
	*6: Available only for the CRnI	D-700.	
	For the CRnQ-700, refer to *7: Available only for the MELI	the above Mitsubishi programmable controller connection. DAS C6/C64.	
		the above Mitsubishi programmable controller connection.	

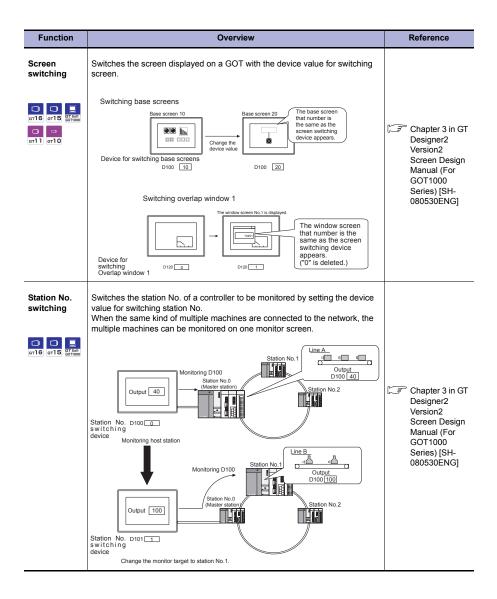
Function	Overview	Reference
MES interface function	Sends the SQL text from the GOT to the database in the server computer connected via the Ethernet connection, and writes device values of the GOT to the database or reads database values to set the values for the GOT device.	GT Designer2
C C 6716 6715	When the GOT communicates directly with the server computer, the gateway equipment for communications is not required. The function enables reducing the maintenance cost and improving reliability.	Screen Design Manual (For GOT1000
	Server (Database)	Series) [SH- 080530ENG]
		Chapter 53 in GOT1000 Series Connection
	SQL Communication gateway	Manual [SH- 080532ENG]
	Communication gateway equipment is not required.	GOT1000 Series MES
	GOT	Interface Function Manual [SH- 080654ENG]
	Controller	

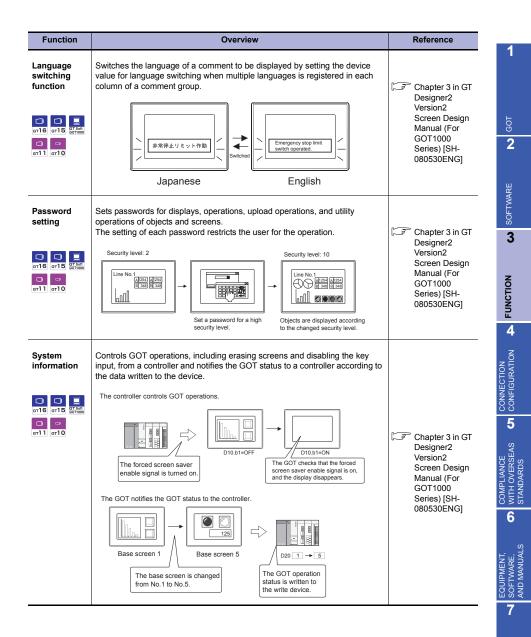
CONNECTION CONFIGURATION

Screen design

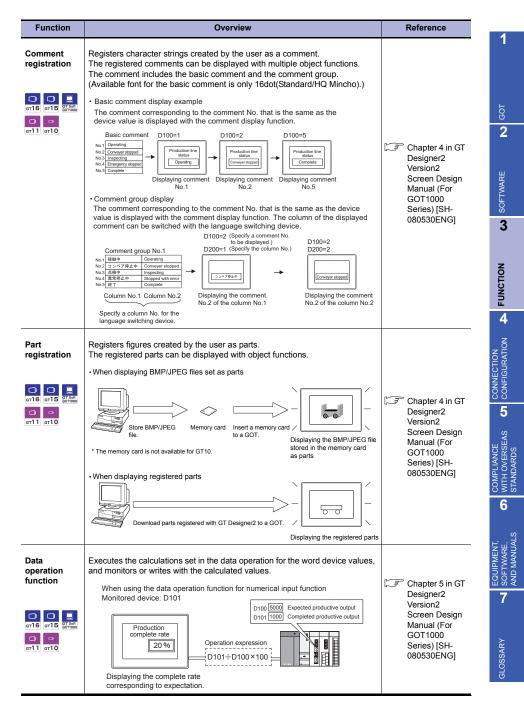


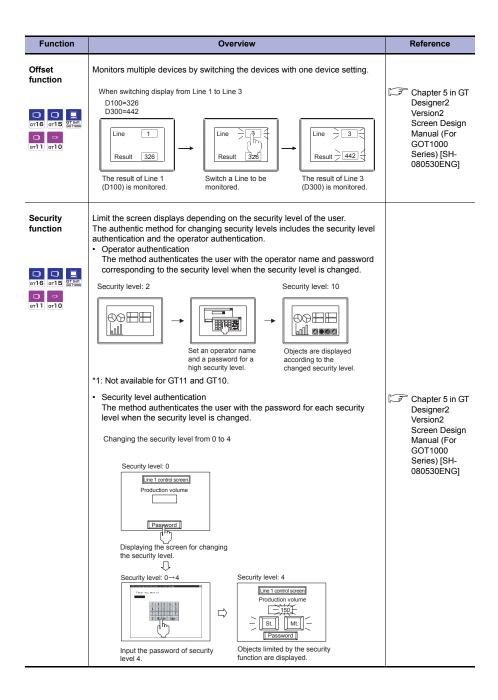
Function	Overview	Reference	
Figure drawing or16 or15 prime or11 or10	Displays figures drawn by the user, characters, and the BMP, DXF, and IGES format data imported with the drawing software on the GOT. (JPEG is available only for GT16, GT15 and GT SoftGOT1000. IGES is available only for GT16, GT15, GT SoftGOT1000, and GT11.) BMP, JPEG and other files Figure Character	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	1 100 2
Font	Displays a wide variety of fonts, including the standard font compatible with Unicode 2.1 and the fonts available for Windows [©] . Standard font Standard (Gothic) 16dot Standard (Gothic) 16dot Standard (Hincho) HO font		SOFTWARE
anı anı	1280t H0 Mincho 1280t H0 Gethic 1660t H0 Mincho 1660t H0 Gethic TrueType font TrueType Mincho True Type Gothic TrueType font Numerical Gothic 7-Segment 12345 12345 12345 12345 Windowsfont Windowsfont Stroke fort*3 Stroke fort GT1020. *2: Not available for GT10. *3: Not available for GT11 and GT10.	Carl Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	CONNECTION FUNCTION C
Kanji region	Some Chinese characters look different even with synonyms depending on the region where Chinese characters are used (Japanese kanji, simplified Chinese or traditional Chinese). With the function, Chinese characters in each region can be displayed. (For GT11, Japanese kanji and simplified Chinese can be displayed by installing an applicable standard font. Traditional Chinese cannot be displayed.) Japanese Simplified Chinese - Simplified Chinese - Gothic Chinese - Gothic	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	9 WITH OVERSEAS G CONF STANDARDS
Object super- imposition (layers) or16 or15 press or17 press or11	Superimposes two types of sheets (layers) and displays the sheets as one screen. Objects can be superimposed with layers.	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	GLOSSARY L EQUIPMENT. AND MANUALS



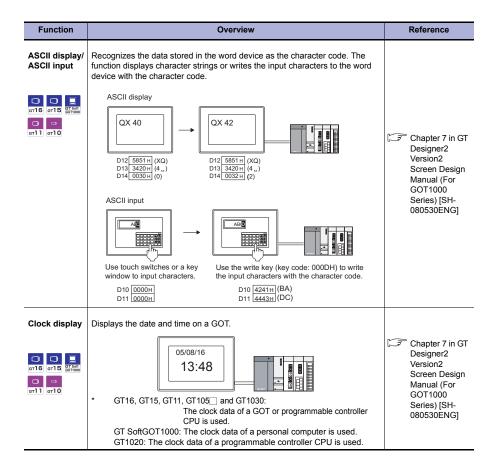


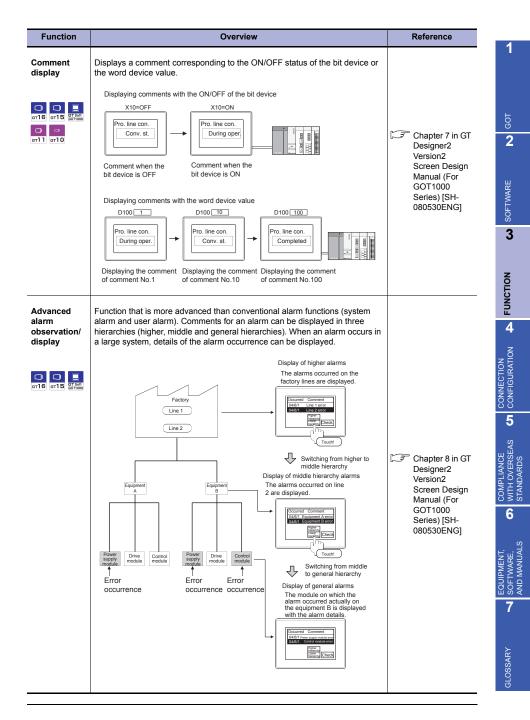
Function	Overview	Reference
Communication settings	Sets the connection type and the communication interface for communications between the GOT and a controller. Extension interface Standard interface Communication interface setting (Example with the multi-channel function) Bus connection Bus connection Communication driver setting Programmable controller CPU	 Chapter 3 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG] Chapter 10 in GT16 User's Manual [SH- 080778ENG] Chapter 10 in GT15 User's Manual [SH- 080528ENG] Chapter 10 in GT11 User's Manual [JY997D17501] Chapter 11 in GT10 User's Manual [JY997D24701]
Startup logo	Changes the logo displayed when starting the GOT to any BMP screens.	Chapter 3 in GT Designer2 Version2
c16 cr15 Cristi cr16 cr15 Cristi cr10 cr10	Original The set BMP screen is displayed.	Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]

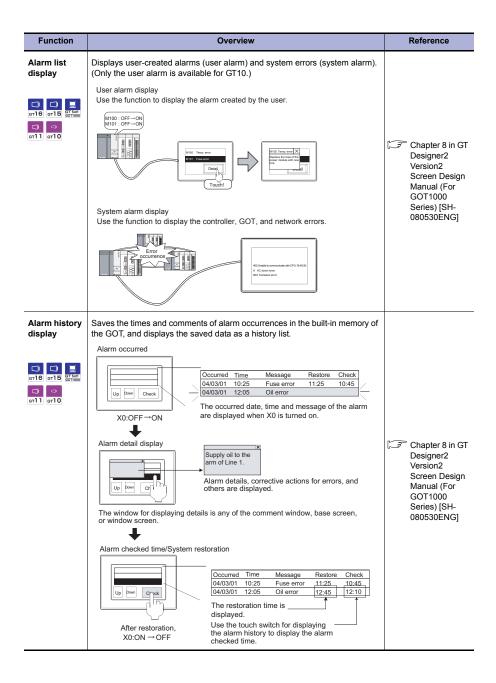


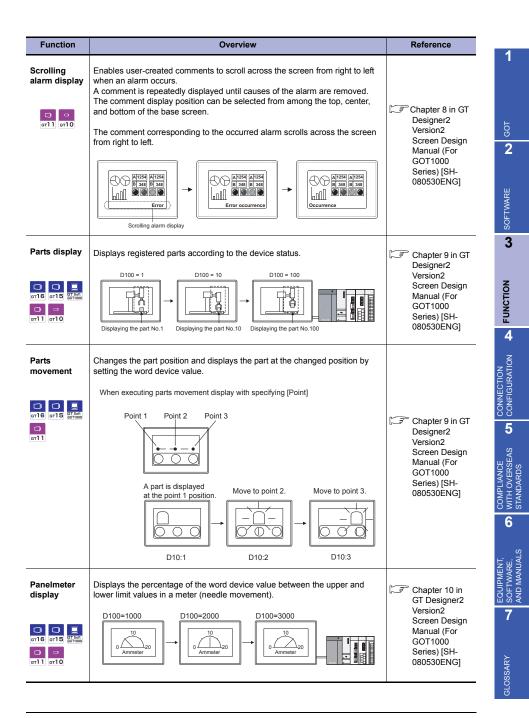


Function	Overview	Reference
Lamp display	Changes lamp colors according to the ON/OFF status of the bit device or the word device value. Bit lamp $\begin{array}{c} X10=ON \\ \hline \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	Chapter 6 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
Touch switch	Turns bit devices on or off and switches the GOT screens with touching the screen. $\qquad \qquad $	Chapter 6 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
Numerical display/ Numerical input	Displays the data stored in devices of a controller as numeric values on a GOT or writes any values from a GOT to devices of a controller. Numerical display D100 349 D100 722 D100=722 Numerical input Use touch switches or a key window to input a value.	Chapter 7 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
Data list	Displays multiple word device values in a list. The line number and ruled lines of a list are automatically displayed.	Chapter 7 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]







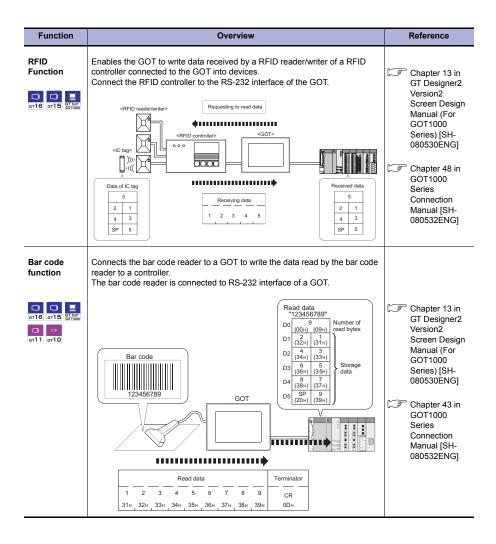


Function	Overview	Reference
Level display	Fills a range equivalent to the percentage of the word device value between the upper and lower limit values. $D100=0 \qquad D100=50 \qquad D100=100 \qquad D100=100=100 \qquad D100=100=100=100 \qquad D100=100=100=100=100=100=100=100=100=100$	Chapter 10 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
Trend graph	Continuously collects word device data and displays the collected data in a trend graph. D10=200 D11=100 The data is displayed to the end of the graph display range in order. D10=150 D11=100 The data is collected continuously when the following graph is displayed by scrolling.	Chapter 10 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
Historical trend graph	Displays the device data collected with the logging function in a trend graph in time sequence.	Chapter 10 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
Line graph	Collects multiple word device data in block and displays the collected data in a line graph. $ \begin{array}{c} \hline 100 \\ 11 \\ 11 \\ 100 \\ 11 \\ 150 \\ 12 \\ 200 \\ 12 \\ 200 \\ 12 \\ 200 \\ 11 \\ 100 \\ 12 \\ 250 \\ 13 \\ 150 \\ \end{array} $	Chapter 10 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
Bar graph	Collects word device data and displays the collected data in a bar graph.	Chapter 10 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]

Function	Overview	Reference	
Statistics graph	Displays the data ratio of collected multiple word devices to the total data in a statistics pie/bar graph. Statistics pie graph Statistics pie graph Image: statistic pie/bar graph	Chapter 10 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	2 GOT GOT 3
Scatter graph	Displays two word device values as points on an x-y coordinate system on a		FUNCTION SG
orli	graph. X device: D100 Y device: D200 (300,200) (200,100) (200,100) (200,100) (200,100)	Chapter 10 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	CONNECTION CONFIGURATION
Status observation function	Turns a device on/off and writes a device value when the specified conditions are met. Condition (X10: ON) satisfied Write U100: $O \rightarrow 100$	Chapter 11 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	ENT. COMPLIANCE ARE, O WITH OVERSEAS C NUALS STANDARDS

Function	Overview	Reference
Advanced recipe function	Function that is more advanced than the recipe function The available number of recipe settings, device points or records is increased. In addition, the advanced recipe setting and the record are combined to create flexible recipe data. When changing only one of materials Cookie Large Small Four around amount Four 100 (Flour) :100 D10 (Flour) :100 D11 (Buter) :50 - 25 D12 (Sagn) : 80 D12 (Sagn) : 80	Chapter 12 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
Recipe function	Stores data (device values) such as blend and processing conditions of materials in a GOT and writes/reads the required data from/to the GOT to/from a programmable controller. Change the amounts of used materials depending on the product to be made. Change the amounts of used materials depending on the product to be made. Cookie Flour: 100 Butter: 50 Sugar: 80 Cable Cable Butter: 65 Sugar: 90 Egg. 40	Chapter 12 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
Time action function	Turns the bit device on/off, writes the value to the word device or performs other operations at the set day or time. The function is enabled with the day or time of the GOT. The set device is turned on on Monday morning and turned off on Friday evening. On Monday morning OFF ON M10 is turned off. M10 is turned off.	Chapter 11 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
Report function	Collects the data of the production management and status, and then prints the collected data. The following data can be printed with the function. • Word device value • Comment corresponding to the device status Image: Comment corresponding to the device status Image: Comment corresponding to the device status Image: Comment corresponding to the device status Image: Comment corresponding to the device value (Comment corresponding Word device value to the device status) Image: Comment corresponding Word device value (Comment corresponding Word device value) • The following communication units cannot be mounted on the printer unit. • Bus connection unit (thinned type): GT15-750BUS(2)L, GT15-75ABUS(2)L • MELSECNET/10 communication unit: GT15-750/TLP23-Z, GT15-75J71BR13-Z • CC-Link communication unit: GT15-750/BT13-Z	Chapter 13 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG] Chapter 44 in GOT1000 Series Connection Manual [SH- 080532ENG]

Function	Overview	Reference	
Hard copy function	Prints the monitor screen currently displayed on the GOT with a printer or saves the monitor screen currently displayed on the GOT to a memory card in the BMP/JPG file format. The BMP/JPEG files saved in the memory card can be used for various documents on a personal computer.	Chapter 13 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG] Chapter 44 in GOT1000 Series Connection Manual [SH- 080532ENG]	C COT COT COT COT COT COT COT COT COT CO
External I/O function	Executes external inputs and external outputs (lamp and relay) with the external I/O unit. When using the external I/O function, the setting of GT Designer2 is not required.	Chapter 13 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG] Chapter 42 in GOT1000 Series Connection Manual [SH- 080532ENG]	COMPLIANCE CONNECTION A FUNCTION WITH OVERSEAS G CONFIGURATION STANDARDS
Operation panel function *	With the external I/O unit, input operations, including the touch input, numerical input, and screen switching, can be operated with an operation panel. When using the operation panel function, the operation panel must be set with GT Designer2.	Chapter 13 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	DSSARY L EQUIPMENT, SOFTWARE, 9



Function	Overview	Reference	
Remote personal computer operation function	The function enables to operate the mouse pointer on a personal computer by touching the personal computer screen displayed on the GOT using the RGB display function.	C Province Chapter 13 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	2 SOFTWARE COT
Sound output function	Outputs sounds with speakers connected to the GOT. The sound output is applicable to the following functions. • Touch switch function • Status observation function • Time action function For using the sound output function with the GOT, register sound files. • OPF-ON-OPF-OPF-ON-OPF-	Chapter 13 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG] Chapter 41 in GOT1000 Series Connection Manual [SH- 080532ENG]	CONNECTION FUNCTION
Set overlay screen function	Calls other base screens or window screens to place on a basic screen and displays the called screens as one screen. When setting the same objects on multiple screens, the memory capacity can be saved. Production status Screen1 Production status Screen2 Production status Screen2 Basic screen (Base screen 2) Basic screen 2) Create the screen for touch switches and call the created screen on each screen.	Chapter 15 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	L EQUIPMENT. 9 COMPLANCE SOFTWARE. 9 WITH OVERSEAS AND MANUALS STANDARDS

Function	Overview	Reference
Document display function	Enables displaying documents created with applications, including Microsoft [®] Word and Microsoft [®] Excel, on the GOT. Documents, including specifications and manuals, can be displayed on the GOT. Therefore, documents can be used on a screen for troubleshooting, and documents for operations can be displayed during monitoring.	Chapter 15 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
Operation log function	Saves GOT operation data by the user in a memory card as a history. When troubles occur at production sites, the operation history can be used to identify the cause of the troubles. The saved operation history can be checked by the following methods. • Display the operation history as a CSV file or Unicode text file and display the saved operation history on a personal computer. • Switch the screen to the base screen 10. • Date Screen Details Before After • Date Screen Details Before A	Chapter 15 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]

Function	Overview	Reference	
Logging function	Collects and stores device values of a controller at an arbitrary timing or intervals. The collected data can be displayed as a historical trend graph. The collected data is also displayed on a personal computer with saving the data as a CSV file or Unicode text file.	Chapter 11 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	2 GOT GOT
Device data transfer function	Enables the GOT to read values of specified devices and write the values into the other devices at any timing or by trigger intervals.	Chapter 11 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	CONNECTION FUNCTION
Script function	Controls a more complex GOT display with creating GOT's original program (script). Controlling the GOT display with the script function drastically reduces the load on the system side (controllers) display. Example) Setting the interlock function to touch switches Image: Setting the interlock function is not available for GT11.	Chapter 16 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	L EQUIPMENT. OMPLIANCE SOMPLIANCE SOFTWARE, D WITH OVERSEAS C AND MANUALS STANDARDS

Maintenance functions

Function	Overview	Reference
System monitor function	Monitors and tests devices of a programmable controller CPU and the buffer memory of an intelligent function module with a dedicated screen. Preparing a debugging screen is not required for checking devices.	Chapter 14 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
		Chapter 2 in GOT1000 Series Extended/ Option Functions Manual[SH- 080544ENG]
Device monitor function	For a controller connected to the GOT, forcibly turning on or off devices of the controller and changing the set value or present value are available.	Chapter 14 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
MELSEC-A list editor function	Edits the sequence program of the ACPU in list format. Programs can be easily changed on GOT at worksites.	[JY997D24701] [JY997D24701] Chapter 14 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG] [JY Chapter 4 in GOT1000
		Series Extended/ Option Functions Manual[SH- 080544ENG]

Function	Overview	Reference	
MELSEC-FX list editor function	Edits the sequence program of the FXCPU in list format. Programs can be easily changed on GOT at worksites.	Chapter 14 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	сот L
UTU UTU somee	* Cannot be used for GT1030 and GT1020.	Chapter 5 in GOT1000 Series Extended/ Option Functions Manual[SH- 080544ENG]	SOFTWARE
Ladder monitor function	Monitors the sequence program of a programmable controller CPU in the ladder format with a dedicated screen. With the ladder monitor function, the cause of errors can be investigated on the GOT.	[→ F Chapter 14 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	FUNCTION
		Chapter 3 in GOT1000 Series Extended/ Option Functions Manual[SH- 080544ENG]	CONNECTION CONFIGURATION
Intelligent module monitor function	Monitors the buffer memory of an intelligent function module and changes the data with a dedicated screen. The signal status of I/O modules can also be monitored.	Chapter 14 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	COMPLIANCE WITH OVERSEAS 5 STANDARDS
or16 or15		Chapter 6 in GOT1000 Series Extended/ Option Functions Manual[SH- 080544ENG]	 L EQUIPMENT, SOFTWARE, AND MANUALS

Function	Overview	Reference
Q motion monitor function	Sets the servo monitoring and parameter of a motion controller CPU (Q series) with a dedicated screen.	Chapter 14 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
		Chapter 8 in GOT1000 Series Extended/ Option Functions Manual[SH- 080544ENG]
Servo amplifier monitor function	Enables various monitor functions, parameter changes, test operations, and others for a servo amplifier with a dedicated screen.	Chapter 14 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
or16 or15		Chapter 9 in GOT1000 Series Extended/ Option Functions Manual[SH- 080544ENG]
Network monitor function	Monitors the network status of CC-Link IE CONTROLLER NETWORK, MELSECNET/H, MELSECNET/10, MELSECNET(II), and MELSECNET/B with a dedicated screen.	Chapter 14 in GT Designer2 Version2 Screen Design Manual (For GOT1000
cr16 or15		Series) [SH- 080530ENG] Chapter 7 in GOT1000 Series Extended/ Option Functions Manual[SH- 080544ENG]

CNC monitor function	Monitors the position display, alarm diagnosis, tool offset parameter, program data, and others equivalent to those for the MELDAS dedicated display with a dedicated screen.	Chapter 14 in GT Designer2 Version2	1
		Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]	GOT
		Chapter 10 in GOT1000 Series Extended/ Option Functions Manual[SH- 080544ENG]	Software
Backup/ restore function	Saves (backs up) the setting data, including a sequence program, parameters, setting values, for a controller connected to the GOT to a memory card installed in the GOT, and restores the saved data to the controller if required. The system can be backed up/restored without a personal computer. Back up the setting data of a controller.	Chapter 14 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH-	FUNCTION
	CF card/ USB memory USB memory Restore the saved setting data of the controller.	080530ENG] Chapter 11 in GOT1000 Series Extended/ Option Functions Manual [SH- 080544ENG]	CONFIGURATION
CNC data I/O function	Copies or deletes machining programs, parameters and others on the CNC connected to a GOT.	GT Designer2 Version2 Screen Design Manual [SH-080509] Chapter 14	COMPLIANCE WITH OVERSEAS
0718) 0715	Copy and deletion of CNC data * The USB memory is only supported by GT16.	GOT1000 Series Extended/ Option Functions Manual [SH-080541] Chapter #	EQUIPMENT, SOFTWARE, 9

Function	Overview	Reference
SFC monitor function	The GOT can monitor and display SFC programs of the PLC CPU in the SFC diagram format (MELSAP3 or MELSAP-L format) with a dedicated screen.With the SFC monitor function, investigating the causes of errors in PLC systems is available with the GOT.	Chapter 14 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) [SH- 080530ENG]
		Chapter 13 in GOT1000 Series Extended/ Option Functions Manual [SH- 080544ENG]
Maintenance report function	Automatically counts the backlight energization time (number of times for holding down the touch key and writing to the built-in flash memory), the maintenance time can be indicated in two stages.	Chapter 9 in GT16 User's Manual [SH- 080778ENG] GT15 User's Manual [SH- 080528ENG]

4. CONNECTION CONFIGURATION

The GOT1000 series can connect to various FA devices including the MITSUBISHI programmable controller.

Select a device to be connected to the GOT.

4.1	MITSUBISHI Programmable Controller 84
4.2	Other MITSUBISHI controllers
4.3	Third Party Programmable Controller
4.4	Microcomputer connection
4.5	MODBUS(R)/TCP connection
4.6	Temperature Controller
4.7	Other Devices
4.8	Precautions

4. CONNECTION CONFIGURATION

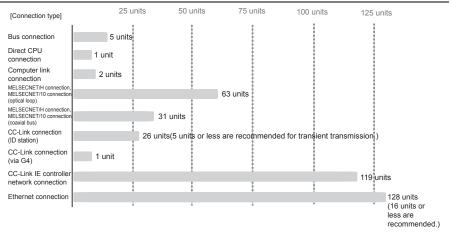
4.1 MITSUBISHI Programmable Controller

4.1.1 Connection type

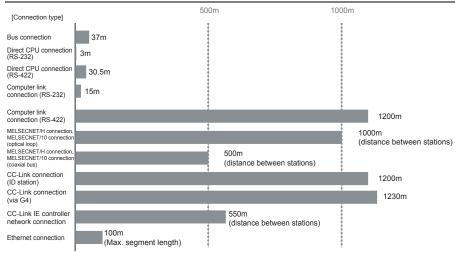
Feature of each connection type

Connection type	Feature
Bus connection	Enables the quick response with touch switches equivalent to that with push buttons.
Direct CPU connection	Enables connecting to the MELSEC-Q/QnA/A/FX series at the lowest cost.
Computer link connection	Enables easily connecting the GOT to a programmable controller with the serial communication.
MELSECNET/H, MELSECNET/10 connections (programmable controller to programmable controller network)	Enables using multiple GOTs as remote control terminals.
CC-Link IE controller network connection	Enables sending/receiving large size data at high speed connection.
CC-Link connection (ID)	Enables connecting the GOT as an intelligent device station in a CC-Link system.
CC-Link connection (via G4)	Enables connecting the GOT to a CC-Link system via the AJ65BT-G4-S3 or AJ65BT-R2N.
Ethernet connection	Enables the remote maintenance from offices at production sites with connecting the GOT to the Ethernet system.

Max. number of connectable GOTs for connecting to QCPU



Max. installation distance between GOT and QCPU



1

2

5

EQUIPMENT, SOFTWARE, AND MANUALS

Connectable models

				(GT16/0 Conne						GT SoftGOT1000 Connection type								GT10 Connection type			
Series	Model	an3			Conne	scuon	nork *1		G4)		.6			E	710	1		3		Col		
		Bus connection ¹³	Direct CPU connection	Computer link	MBLSEC NET/H*1	MELSEC NET/1011	CC-Link IE controller netw	CC-LINK (ID)*	OC-Link (via G4)	Bhernet *1	Bus connection	Direct CPU connection	Computer link	MELSEC NET	MELSEC NET	CC-Link E controller network	OC-Link (ID)	CC-Link (via G4)	Ethermet	Direct CPU connection	Computer Ink	CC-Link (via G4)
MELSEC-Q series	Q00JCPU Q00CPU Q01CPU Q02CPU Q02HCPU Q02PHCPU	0	0	0	0	0	0	0	0	0	× 0 *2	USB	0	0	0	0	×	×	0	0	0	0
(Q mode)	Q06PHCPU Q12PHCPU Q25PHCPU											00								×	×	×
Redundant system (main base unit)	Q12PRHCPU Q25PRHCPU	×	0	×	0	0	0	0	0	0	×		×	0	0	0	×	×	0			
Redundant system (extension base unit)	Q12PRHCPU Q25PRHCPU	×	×	0	×	×	×	0	0	0	×	××	0	×	×	×	×	×	0			
	Q02UCPU Q03UDCPU Q04UDHCPU Q06UDHCPU Q13UDHCPU Q26UDHCPU	0	0	0	0	0	0	0	0	0	×	00	0	0	0	0	×	×	0	0	0	0
	Q03UDECPU Q04UDEHCPU Q06UDEHCPU Q13UDEHCPU Q26UDEHCPU	0	×	0	0	0	0	0	0	0	×	0 ×	0	0	0	0	×	×	0	×	0	
MELSECNET/H remote I/O station	QJ72LP25-25 QJ72LP25G QJ72BR15	×	0	0	×	×	×	×	×	0	×	× c	×	×	×	×	×	×	×	×	×	×
MELSEC-QS series MELSEC-Q	QS001CPU Q02CPU-A	×	×	×	0	0	0	×	×	0	×	0 ×	×	0	0	0	×	×	0	×	×	×
series (A mode)	Q02HCPU-A Q06HCPU-A	×	0	0	×	0	×	0	×	0	×	×	0	×	0	×	×	×	0	0	0	
MELSEC-QnA series (QnACPU type) MELSEC-QnA series (QnASCPU type)	Q2ACPU Q2ACPU-S1 Q3ACPU Q4ACPU Q4ARCPU Q4ARCPU Q2ASCPU Q2ASCPU- Q2ASCPU-S1 Q2ASCPU-S1 Q2ASCPU-S1 Q2ASCPU-S1	0	0	0	×	0	×	0	×	0	×	0	0	×	0	×	×	×	0	0 × 0	0 × 0	
	A2UCPU A2UCPU-S1 A3UCPU					0																
MELSEC-A series (AnCPU type)	AULOPU AAUCPU A2ACPU A2ACPU21 A2ACPU21 A2ACPU21 A2ACPU21 A2ACPU21 A2ACPU21 A2ACPU21 A3ACPU21	0	0	0	×	x	×	0	×	0	×	0	0	×	0	×	×	×	0	0	0	×

**: Available only for GT15.
 **: Available only for GT15.
 GT15.GT1150-QEBDQ, and GT1150-QEBDA.

Connectable models

					GT16/0	GT15/	GT11						G	T Soft	GOT1	000				(GT10	
					Conne	ection	type						C	onnect	tion ty	5				Conn	ection t	/pe
Series	Model	Bus comedion ¹³	Direct CPU connection	Computer link	MELSEC NETH*1	MELSEC NET/10*1	CC-Link IE cartraller netwark*	OCUINK (ID)*1	OC-Link (Na G4)	Ethernet *1	Bus connection	Direct CPU connection	Computer link	MELSEC NETH	MELSEC NET/10	CC-Link IE controller network *	OC-Link (ID)	CC-Link (via G4)	Ethernet	Direct CPU connection	Computer link	OC-Link (via G4)
	A2USCPU A2USCPU-S1					0																
MELSEC-A series (AnSCPU type)	A2USHCPU-S1 A1SCPU A1SCPUC24-R2 A1SHCPU A2SCPU-S1 A2SCPU-S1 A2SHCPU-S1 A1SJCPU-S3 A1SJHCPU	0	0	0	×	×	×	0	×	0	×	0	0	×	×	×	×	×	0	0	0	
	A0J2HCPU A0J2HCPUP21 A0J2HCPUR21 A0J2HCPU-DC24	0	0	0		×		0	×	0			0	×	×		×	×	0			
MELSEC-A series	A2CCPU A2CCPUP21 A2CCPUP21	×	0	×	×	×	×	×	×	×	×	0	×	×	×	×	×	×	×	0	×	
	A2CCPUR21 A2CCPUC24 A2CCPUC24-PRF	×	0	0		×		×	×	×			0	×	×		×	×	×			
	A2CUPUC24-PRF A2CJCPU-S3	×	0	×	1	×	-	×	×	×			×	×	×		×	×	×			
	A1FXCPU	×	Ō	×	1	×	1	×	×	×	1		×	×	×	1	×	×	×			
Motion controller CPU (Q series)	Q172CPU Q173CPU Q172CPUN Q173CPUN Q173CPUN Q172HCPU Q173HCPU	0	0	0	0	0	×	0	0	0	×	×	×	×	×	×	×	×	×	×	×	
. ,	Q172DCPU Q173DCPU	0	0	0	0	0	0	0	0	0	×	×	×	×	×	×	×	×	×	×	×	
Motion controller CPU (A series) (Large-sized type	A273UCPU A273UHCPU A273UHCPU-S3 A373UCPU A373UCPU-S3	0	0	0	×	0	×	0	×	0	×	× O ×	× 0 ×	×	× 0 ×	×	×	×	× 0 ×	×	×	×
	A171SCPU A171SCPU-S3 A171SCPU-S3N											×	×		×				×			
Motion controller CPU (A series) (Small-sized type	A171SHCPU A171SHCPUN A172SHCPU A172SHCPUN	0	0	0	×	×	×	0	×	0	×	0	0	×	0	×	×	×	0	×	×	
	A173UHCPU A173UHCPU-S1					0																
MELSEC-FX series	FX0S FX0N FX1S FX1N FX1NC FX2NC FX2NC FX3G FX3U FX3U FX3UC	×	0	×	×	×	×	×	×	×	×	0	×	×	×	×	×	×	×	0	×	
CNC C70	Q173NCCPU	0	0	0	0	0	0	0	0	0	×	0	0	0	0	0	×	×	0	×	×	×
Robot	CRnQ-700	0	0	0	0	0	0	0	0	0	×	0	0	0	0	0	×	×	0	×	×	×
controller	CRnD-700	×	×	×	×	×	×	×	×	0	×	×	×	×	×	×	×	×	0	×	×	×

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)

1

COT GOT

SOFTWARE

CONNECTION CONFIGURATION **A** FUNCTION

5

COMPLIANCE WITH OVERSEAS STANDARDS

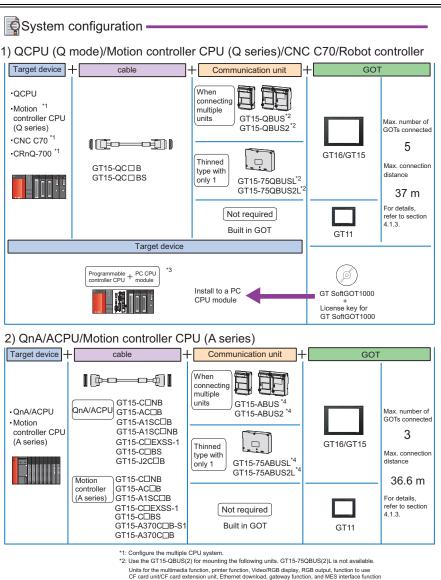
6

EQUIPMENT, SOFTWARE, AND MANUALS

7

GLOSSARY

4.1.2 Bus connection



CF card unityCF card extension unit, Emernet download, gateway function, and MES interface function For GT16, however, Ethernet download, gateway function, and MES interface function are available using the Ethernet interface.

*3: Connect the PC CPU module to a programmable controller CPU on the same main base unit *4: Use the GT15-ABUS(2) for mounting the following units. GT15-75ABUS(2) Lis not available. Units for the multimedia function, printer function, Video/RGB display, RGB output, function to use

Units for the multimedia function, printer function, Video/RGB display, RGB output, function to use CF card unit/CF card extension unit, Ethernet download, gateway function, and MES interface function

For GT16, however, Ethernet download, gateway function, and MES interface function are available using the Ethernet interface. The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD

Precautions

Other precautions

- For the cable configuration of GT15-C EXSS-1, refer to "External Dimensions" in section 1.5.
- Use the GT15-QBUS(2) or GT15-ABUS(2) for mounting units for the multimedia function, printer function, Video/RGB display, RGB output, Ethernet download, gateway function, and MES interface function, CF card unit, and CF card extension unit.

The GT15-75QBUS(2)L and GT15-75ABUS(2)L are not available. For GT16, however, Ethernet download, gateway function, and MES interface function are available using

- the Ethernet interface.
- When connecting multiple GOTs, the GOT1000 series, GOT-A900 series, GOT800 series and A77GOT cannot be connected together.
- For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU). Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later.
- When connecting to Q00JCPU of MELSEC-Q series (Q mode) When using the bus extension connector box, mount it on the extension base unit. (The bus extension connector box cannot be mounted on the main base unit.)
- When connecting to Q4ARCPU of MELSEC-QnA series (QnACPU type) For the redundant Q4ARCPU system, connect the GOT to redundant extension base unit A68RB (version B or later) at the last stage via the bus connection.
- When connecting to A1SJCPU, A1SJCPU-S3, and A1SJHCPU of MELSEC-A series (AnSCPU type) When using the extension base unit, the bus connection is disabled.
- When connecting to motion controller CPU (Q series) For Q172CPU or Q173CPU Use the motion controller CPU with the following production numbers. Q172CPU with K****** or later. Q173CPU with J****** or later
 - For Q172 or Q173CPU For using the SV13, SV22, and SV43, use a motion controller with the following OS installed. SW6RN-SV13Q : 00E or later. SW6RN-SV22Q : 00E or later. SW6RN-SV43Q : 00B or later
 - For Q172CPUN or Q173CPUN For using the SV13, SV22, and SV43, use a motion controller with the following OS installed. SW6RN-SV13Q : 00H or later, SW6RN-SV22Q : 00H or later, SW6RN-SV43Q : 00B or later
- When connecting to motion controller CPU (A series) (small-sized type) When using the extension base unit, use the A168B.
- For other precautions for the bus connection, refer to "Details of bus connection" in section 4.1.3.

Related Manuals

- · For details of system configuration and connection cable
- · For precautions and restrictions
- · For outlined procedure and checking of bus connection
- · For controllers that can be monitored by GOT and accessible range

Chapter 2 in GOT1000 Series Connection Manual (SH-080532ENG)

Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

5

GLOSSARY

GOT connection conditions System configuration Number of Mounting distance Connection distance GOTs between main base 13.2m unit and first GOT **0m** 37m connected GOT 1 Main base Cable 1 Max. 13.2m 1 GOT1 Main hase Extension base unit 0 Cable 1 Max. 37m *3 GOT 1 diary GOT 2~4 Extension Main base less Cable 1 Cable 2 Cable 3 Max. 13.2m Max. 37m 2 to 5 Cable 1 GOT 1 **⊺2~4** 2~5 0 Cable 2 Cable 3 Max. 37m

When connecting to QCPU (Q mode)/motion controller CPU (Q series)

*1: When the extension base unit is used, the extension cable length (between the base units) is included.

For the cable between the main base unit and extension base unit, refer to Mitsubishi Programmable Logic Controller MELSEC-Q (Catalog) (L(NA)-08033E).

*2: When the first GOT is installed 13.2m or more away from the main base unit, the bus extension connector box is required.

Without the extension base unit : Mount the bus extension connector box to the main base unit.

With the extension base unit : Mount the bus extension connector box to the last stage of the extension base unit.

(The bus extension connector box cannot be mounted to the main base unit when a GOT is connected to Q00JCPU.Mount the bus extension connector box to the extension base unit.) *3: Select a cable to keep the total cable length between the main base unit of a programmable controller and a terminal GOT within 37m.

*4: Indication of cable model (example) "GT15-QC□B 06:0.6m"→GT15-QC06B

*5: There are the following restrictions depending on the total cable length when three or more GOTs are connected.

Use the same power supplies of a programmable controller and all GOTs and turn on or off all the power supplies simultaneously. O : Unrestricted ∆ : Restricted

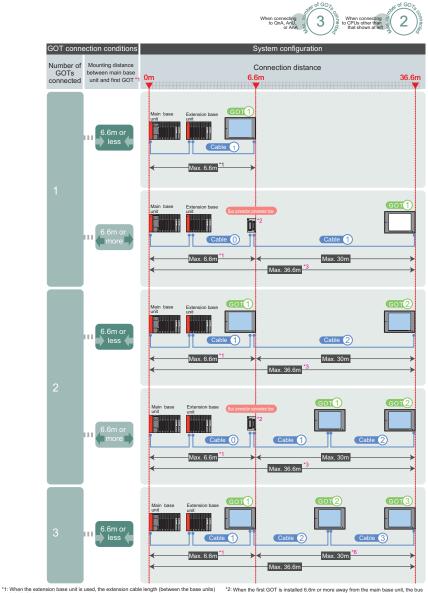
Number of GOTs connected	Total cable length			
	15m or less	20m or less	25m or less	37m or less
2 or less	0	0	0	0
3	0	0	0	Δ
4	0	0	Δ	Δ
5	0	Δ	Δ	Δ

*6: Use the GT15-QBUS(2) for mounting the following units. GT15-75QBUS(2)L is not available.

- Units for the multimedia function, Video/RGB display, RGB output, Inter output, Elbented download, gateway function, MES interface function, CF card unit, and CF card extension unit For GT16, however, Elbernet download, gateway function, and MES interface function are available using the Elbernet interface.

Bus extension onnector box				Cable 2	4	24		GOT GOT	ª 2 ∻5)]
	GT15-QC[]B 06 : 0.6m 12 : 1.2m 30 : 3m 50 : 5m 100: 10m	GOT main unit 15" GT1695 15" GT1695 12.1" GT1685 12.1" GT1685 10.4" GT157 8.4" GT156 5.7" GT156 5.7" GT155 5.7" GT155	6 Bus connection unit GT15-750BUSL GT15-750BUS2 GT15-QBUS GT15-QBUS2		GOT main unit	*6 Bus connection unit		GOT main unit	⁷⁶ Bus connection unit
A9GT-QCNB	GT15-QCLB 06 : 0.6m 12 : 1.2m 30 : 3m 50 : 5m 100: 10m GT15-QCLBS 150 : 15m 200 : 20m 250 : 25m 300 : 30m 350 : 35m	15" GT1695 15" GT1595 12.1" GT1585 12.1" GT1585 10.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155 Connection)	GT15-75QBUSL GT15-75QBUS2L GT15-QBUS GT15-QBUS2 GT15-QBUS2						
	GT15-QCIIB 06 : 0.6m 12 : 1.2m 30 : 3m 50 : 5m 100: 10m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT157 8.4" GT156 5.7" GT155	GT15-750BUS2L GT15-QBUS2	GT15-QC[]B 06 : 0.6m 12 : 1.2m 30 : 3m 50 : 5m 100: 10m GT15-QC]BS 150 : 15m 200 : 20m 250 : 25m 300 : 30m 350 : 35m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT157 8.4" GT156 5.7" GT155	GT15-75QBUS2L GT15-QBUS2	GT15-QC[]B 06 : 0.6m 12 : 1.2m 30 : 3m 50 : 5m 100: 10m GT15-QC]]BS 150 : 15m 200 : 20m 250 : 25m 300 : 30m 350 : 35m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT157 8.4" GT157 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT150 (dedicated connection)	GT15-750BUSL GT15-750BUS2 GT15-0BUS GT15-0BUS2
A9GT-QCNB	GT15-QCUB 06 : 0.6m 12 : 1.2m 30 : 3m 50 : 5m 100: 10m GT15-QCUBS 150 : 15m 200 : 20m 250 : 25m 300 : 30m 350 : 35m	15°GT1695 15°GT1595 12.1°GT1595 12.1°GT1685 12.1°GT1585 10.4°GT157 8.4°GT156 5.7°GT155	GT15-75QBUS2L GT15-QBUS2	GT15-QCB 06 : 0.6m 12 : 1.2m 30 : 3m 50 : 5m 100: 10m GT15-QCBS 150 : 15m 200 : 20m	15"GT1695 15"GT1595 12.1"GT1685 12.1"GT1685 10.4"GT157 8.4"GT156 5.7"GT155	GT15-75QBUS2L GT15-QBUS2	GT15-QCUB 06 : 0.6m 12 : 1.2m 30 : 3m 50 : 5m 100: 10m GT15-QCUBS 150 : 15m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT1697	GT15-750BUSL GT15-750BUS2L GT15-0BUS GT15-0BUS2 GT15-0BUS2

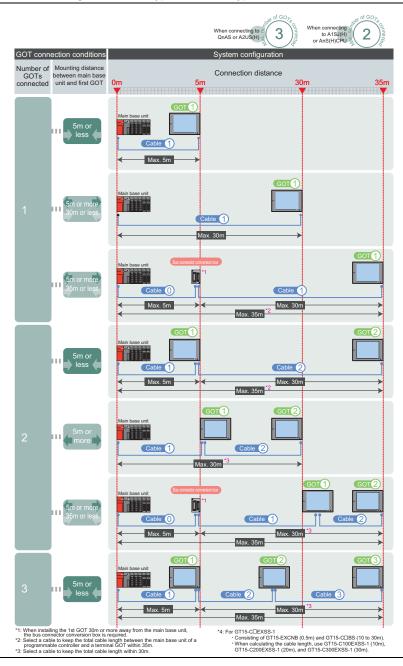
When connecting to QnACPU type or AnCPU type



For the cable between the main base unit and extension base unit, refer to Mitsubishi Programmable Logic Controller MELSEC-Q (Catalog) (L(NA)-08033E). *2: When the first GOT is installed 6.6m or more away from the main base unit, the bus connector conversion box is required.
*3: Select a cable to keep the total cable length between the main base unit of a programmable controller and a terminal GOT within 36.6m.

Cable 0	Bus connector	Cable	1	1	Cable 2	G	от 2	Cable 3	G	от 3	
]*5 ·		D(]*	·]		·[GOT
		GT15-CCINB 12 : 1.2m 30 : 3m 50 : 5m	GOT main unit 15"GT1695 15"GT1595 12.1"GT1885 12.1"GT1885 10.4"GT157 8.4"GT156 5.7"GT155 5.7"GT155 5.7"GT155 5.7"GT155 6dedicated to bis connection	Bus connection unit GT15-75ABUSL GT15-75ABUS2L GT15-ABUS2 GT15-ABUS2 GT15-ABUS2		GOT main unit	Bus connection unit		GOT main unit	Bus connection unit	2 SOFTWARE
GT15-ACLIB 06 : 0.6m 12 : 1.2m 30 : 3m 50 : 5m	A7GT-CNB	GT15-CE EXSS-1 *4 100 : 10m 200 : 20m 300 : 30m	15"GT1695 15"GT1595 12.1"GT1685 12.1"GT1685 10.4"GT157C 8.4"GT157C 5.7"GT1515C 5.7"GT1515C 5.7"GT112"* 604Gated connection	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS GT15-ABUS2							FUNCTION 4
		GT15-C⊡NB 12 : 1.2m 30 : 3m 50 : 5m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT157 8.4" GT156 5.7" GT155	GT15-75ABUS2L GT15-ABUS2	GT15-CLIBS 07:0.7m 12:1.2m 30:3m 50:5m 100:10m 200:20m 300:30m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT157 8.4" GT156 5.7" GT156 5.7" GT155 5.7" GT150 8.4" GT150 5.7" GT150 5.7" GT150 5.7" GT160 5.7" G	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS GT15-ABUS2				CONNECTION CONFIGURATION
GT15-ACIDB 06 : 0.6m 12 : 1.2m 30 : 3m 50 : 5m	A7GT-CNB	GT15-CC EXSS-1 *4 100:10m 200:20m	15" GT1895 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT1570 8.4" GT1560 5.7" GT1550	GT15-75ABUS2L GT15-ABUS2	GT15-CCB8 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15"GT1695 15"GT1595 12.1"GT1685 12.1"GT1685 10.4"GT157 8.4"GT156 5.7"GT155 5.7"GT155 (dedicated (bag connection)	GT15-75ABUSL GT15-75ABUSS GT15-ABUS GT15-ABUS2				9 WITH OVERSEAS STANDARDS
		GT15-C⊡NB 12 : 1.2m 30 : 3m 50 : 5m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT157 8.4" GT156 5.7" GT155	GT15-75ABUS2L GT15-ABUS2	GT15-CEBS 07:0.7m 12:12m 30:3m 50:5m 100:10m 200:20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT1570 8.4" GT1560 5.7" GT1550	GT15-75ABUS2L GT15-ABUS2	GT15-C⊡BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT157 8.4" GT157 5.7" GT155 5.7" GT155 5.7" GT155 (dedicated (dedicated connection)	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2	EQUIPMENT, SOFTWARE, AND MANUALS
When calculating GT15-C300EX Connect conner	T15-EXCNB (ng the cable le SS-1 (30m). ctors as shown M1" \rightarrow Progra M2" \rightarrow GOT able model (e T15-AC06B	ngth, use GT15-C n below. Immable controlle example) "GT15-	-AC□B	GT15-C200EXSS-1	(20m), and	available. Units for the n Ethernet down CF card exter For GT16, ho are available	nultimedia functio nload, gateway fu ision unit wever, Ethernet d using the Etherne	Inting the following n, Video/RGB disple Inction, MES interfac ownload, gateway fri interface. required for GT115[y, RGB output, prin e function, CF card unction, and MES in	ter output, unit, and tterface function	GLOSSARY

When connecting to QnASCPU type or AnSCPU type without the extension base unit

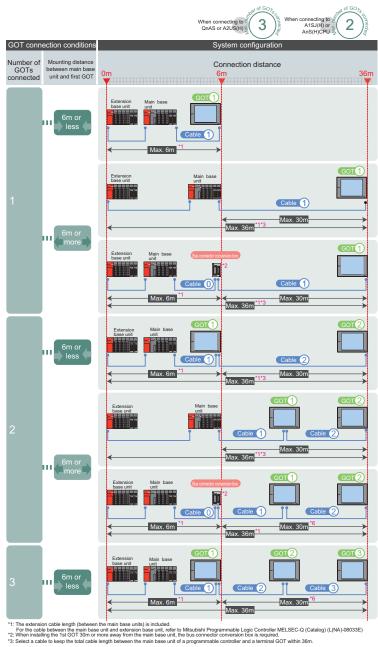


	Bus conne conversion	ctor box *1	() () () () () () () () () () () () () (от 1	Cable	GOT main unit	2	Cable 3	GOT main unit	⊺ 3]	201 2
		GT15-A1SCEB 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m	15" GT1695 15" GT1595 12.1" GT1585 12.1" GT1585 10.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT150 5.7" GT150 1150	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS GT15-ABUS2			bus connection unit				SOFTWARE
		GT15-C□ EXSS-1 *4 100 : 10m 200 : 20m 300 : 30m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT157 8.4" GT156 5.7" GT156 5.7" GT155 5.7" GT155 5.7" GT155 0 bus connection)	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2							3
GT15-A1SC⊟ NB 05:0.45m 07:0.7m 30:3m 50:5m	A7GT-CNB	GT15-CD EXSS-1 *4 100 : 10m 200 : 20m 300 : 30m	15" GT1695 15" GT1595 12.1" GT1885 12.1" GT1885 10.4" GT156 5.7" GT156 5.7" GT155 5.7" G	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2							RATION F FUNCTION
		GT15-A1SC⊡B 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m	15"GT1695 15"GT1595 12.1"GT1685 12.1"GT1585 10.4"GT157 8.4"GT156 5.7"GT155		GT15-CEBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m 300 : 30m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT156 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2				connection configuration
		GT15-C□ EXSS-1 *4 100 : 10m 200 : 20m	15"GT1695 15"GT1595 12.1"GT1685 12.1"GT1585 10.4"GT157 8.4"GT156 5.7"GT155		GT15-C⊟BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2				 COMPLIANCE WITH OVERSEAS STANDARDS
GT15-A1SC⊡ NB 05 : 0.45m 07 : 0.7m 30 : 3m 50 : 5m	A7GT-CNB	GT15-C⊟ EXSS-1 +4 100 : 10m 200 : 20m	15"GT1695 15"GT1595 12.1"GT1685 12.1"GT1585 10.4"GT157 8.4"GT156 5.7"GT155		GT15-CEBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2				EQUIPMENT, SOFTWARE, AND MANUALS
		GT15-A1SC⊡B 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m	15"GT1695 15"GT1595 12.1"GT1685 12.1"GT1585 10.4"GT157 8.4"GT156 5.7"GT155		GT15-C[]BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15"GT1695 15"GT1595 12.1"GT1685 12.1"GT1585 10.4"GT157 8.4"GT156 5.7"GT155	GT15-75ABUS2L GT15-ABUS2	GT15-CEBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT157 8.4" GT157 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT15C	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2	GLOSSARY 2
*6: Use the G Units for ti	T15-ABUS(2) he multimedia	for mounting the function, Video/F	15-A1SC⊡NB 05:0 following units. GT RGB display, RGB gateway function, a	15-75ABUS(2)L is output, printer outp	not available. ut, Ethernet dow	rnload, gateway func ilable using the Ethe	tion, MES interface rnet interface.	(dedicated to the	ction unit is not req the bus connection).		CIO

4.1 MITSUBISHI Programmable Controller 4.1.3 Details of bus connection

1

When connecting to QnASCPU type or AnSCPU type with the extension base unit



GT15-A1SCD NB D5:0.45m 00:5m HTT S0:5m HTTT S0:5m HTTT S0:5m HTTT S0:5m HTTT S0:5m HTTT S0:5m HTTTT S0:5m HTTTTS S0:5m HTTTTS S0:5m HTTTS S0:5m HTTTS S0:5m HTTTS S0:5m HTTTS S0:5m HTTTS S0:5m HTTTS S0 HTTTS S0 HTTTS S0 HTTTS S0 HTTTS S0 HTTTS S0 HTTTS S0 HTTTS S0 HTTTS S0 HTTTS S0 HTTT	SOT main unit Bis Cancelon unit SOT main unit Bis Cancelon unit 15° GT1956 GT15-75ABUSL 15° GT1957 GT1858 2.1° GT1868 GT15-75ABUS2 12° GT1850 GT15-76ABUS2 5.7° GT1501 GT15-76ABUS2 5.7° GT1505 GT15-78ABUS2 15° GT1595 GT15-78ABUS2 15° GT1595 GT15-78ABUS2 2.1° GT1865 GT15-78ABUS2 15° GT1595 GT15-8AUS2 2.1° GT1865 GT15-ABUS2 3.7° GT1502 S.7° GT1502 5.7° GT1950 GT15-ABUS2 5.7° GT1950 S.7° GT1502 5.7° GT1950 GT15-ABUS2 5.7° GT1950 GT15-ABUS2 5.7° GT1950 GT15-ABUS2 15° GT1959 GT15-75ABUS2 15° GT1955 GT15-804US2 15° GT1955 GT15-75ABUS2 15° GT1955 GT15-804US2 15° GT1955 GT15-804US2	GT15-CDBS 07:07m	GOT main unit	Bus connection unit		GOT main unit	Bus connection unt
ArGI-CMB EXSS.1 - 4 50:045m 50:05m 50:5m ArGI-CMB EXSS.1 - 4 100:10m 12 200:20m 12 200:20m 60:55m 60:55m 12:12m 50:55m 12:12m 100:10m 12 100:10m 12	15" GT1595 GT15-7ABUS2 2.1" GT1685 GT15-7ABUS2 2.1" GT1685 GT15-ABUS2 2.1" GT1585 GT15-ABUS2 0.4" GT1570 S4" GT1560 5.7" GT1950 S7" GT1950 5.7" GT1950 GT15-7ABUS2 15" GT1695 GT15-7ABUS2 15" GT1695 GT15-7ABUS2	07 : 0.7m					
07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 12	15" GT1595 GT15-ABUS2	07 : 0.7m		CT16 76ADUSI			
8	2.1" GT1585 0.4" GT157D 8.4" GT156D 5.7" GT155D	12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m 300 : 30m	15° GT1595 12.1° GT1685 12.1° GT1685 10.4° GT157 8.4° GT156 5.7° GT155 5.7° GT155 5.7° GT155 5.7° GT155 5.7° GT155	GT15-75ABUS2L GT15-ABUS GT15-ABUS2			
NB EXSE1 *4 55:0.45m 100:10m 12 30:3m 200:20m 12 50:5m 100 100 100 100 100 100 100 100 100 100	15" GT1695 GT15-75ABUS2L 15" GT1595 GT15-ABUS2 2.1" GT1685 2.1" 0.4" GT1570 8.4" 6.7" GT1550 5.7"	GT15-C⊟BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1570 8.4" GT1560 5.7" GT1550 5.7" GT1550 5.7" GT1550	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2			
07:0.7m 12:1.2m 30:3m 50:5m 12 50:102 10 8 8	15" GT1695 GT15-75ABUS2L 15" GT1595 GT15-ABUS2 2.1" GT1685 GT15-70 4" GT157 A4" 8.4" GT1560 GT1560	GT15-CEBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT1570 8.4" GT1560 5.7" GT1550	GT15-75ABUS2L GT15-ABUS2	GT15-CEBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT157□ 8.4" GT156□ 5.7" GT155□ 5.7" GT155□	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2

1

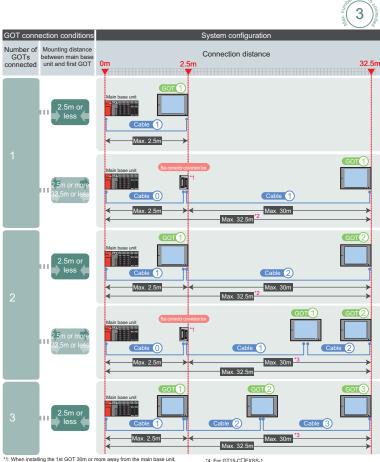
7

*5: Indication of cable model (example) "GT15-A1SCIDN 05:0.45m"→GT15-A1SC05N *6: Select a cable to keep the total cable length within 30m.

available using the Ethernet interface. *8: The bus connection unit is not required for GT115 (dedicated to the bus connection).

4.1 MITSUBISHI Programmable Controller 4.1.3 Details of bus connection

When connecting to motion controller CPU (A273UCPU, A273UHCPU(-S3)), A373UCPU(-S3)) without the extension base unit



When installing the fact Of a both of index away not net main base unit, the bus connector conversion box is required.
 Select a cable to keep the total cable length between the main base unit of a programmable controller and a terminal GOT within 32.5m.
 Select a cable to keep the total cable length within 30m.

*4: For GT15-CCIEXSS-1 · Consisting of GT15-EXCNB (0.5m) and GT15-CCIBS (10 to 30m). · When calculating the cable length, use GT15-C100EXSS-1 (10m), GT15-C200EXSS-1 (20m), and GT15-C300EXSS-1 (30m).

	Bus conne conversion 5		1 GOT main unit 15° GT1695 15° GT1695 12.1° GT1695 12.1° GT1695 12.4° GT157 12.4° GT157 5.7° GT1650 5.7° GT1550 5.7° GT1550 5.7° GT1550 5.7° GT1550 5.7° GT1550	Bus connection unt GT15-75ABUSL GT15-ABUSS GT15-ABUSS GT15-ABUSS2		GOT main unit	2 Bus connection unt	Cable 3	GC GOT main unit	T 3 Bus connection unit
GT15-A1SC⊡ NB 05 : 0.45m 07 : 0.7m 30 : 3m 50 : 5m	A7GT-CNB	GT15-CD EXSS-1 *4 100 : 10m 200 : 20m 300 : 30m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2						
		GT15-A1SC[]B 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m	15"GT1695 15"GT1595 12.1"GT1685 12.1"GT1585 10.4"GT1570 8.4"GT1560 5.7"GT1550	GT15-75ABUS2L GT15-ABUS2	GT15-CEBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m 300 : 30m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2			
GT15-A1SC⊟ NB 05 : 0.45m 07 : 0.7m 30 : 3m 50 : 5m	A7GT-CNB	GT15-CD EXSS-1 *4 100 : 10m 200 : 20m	15"GT1695 15"GT1595 12.1"GT1685 12.1"GT1585 10.4"GT1570 8.4"GT1560 5.7"GT1550	GT15-75ABUS2L GT15-ABUS2	GT15-C⊟BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT156 5.7" GT156 5.7" GT155 5.7" G	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2			
		GT15-A1SCCB 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m	15"GT1695 15"GT1595 12.1"GT1685 12.1"GT1685 10.4"GT1570 8.4"GT1560 5.7"GT1550	GT15-75ABUS2L GT15-ABUS2	GT15-CEBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15"GT1695 15"GT1595 12.1"GT1685 12.1"GT1685 10.4"GT157 8.4"GT156 5.7"GT155	GT15-75ABUS2L GT15-ABUS2	GT15-CEBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT15C	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2

⁺⁵: Indication of cable model (example) ⁺GT15-A1SCLINB 05: 0.45m⁺ - GT15-A1SC05NB
⁺⁷: The bus connection unit is not required for GT115□
⁺⁶: Use the GT15-ABU/32 / for mounting the following units: GT15-75ABU/32 / is not available.
⁺⁷: The bus connection unit is not required for GT115□
⁺⁶ Use the GT15-ABU/32 / for mounting the following units: GT15-75ABU/32 / is not available.
⁺⁷: The bus connection unit is not required for GT115□
⁺⁶ Use the GT15-ABU/32 / for mounting the following units: GT15-75ABU/32 / is not available.
⁺⁷: The bus connection unit is not required for GT115□
⁺⁶ (dedicated to the bus connection).
⁺⁶ Use the GT16, however, Ethernet download, gateway function, and MES interface function are available using the Ethernet interface.
⁺⁶

1

COT GOT

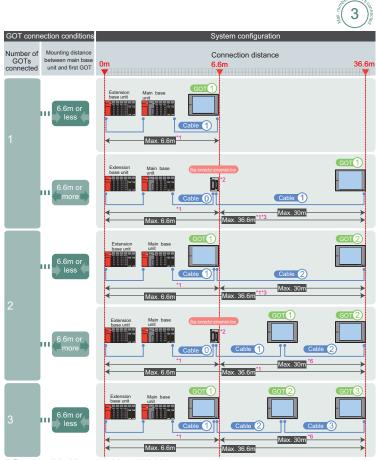
SOFTWARE

CONNECTION CONFIGURATION & FUNCTION

5

COMPLIANCE WITH OVERSEAS STANDARDS

When connecting to motion controller CPU (A273UCPU, A273UHCPU(-S3)), A373UCPU(-S3)) with the extension base unit



The extension cable length (between the main base units) is included. For the cable between the main base unit and extension base unit, refer to Mtsubishi Programmable Logic Controller MELSEC-Q (Catalog) (L(NA)-08033E)
 When installing the 1st GOT 30m or more away form the main base unit, the bus controller conversion box is required.
 Select a cable to keep the total cable length between the main base unit of a programmable controller and a terminal GOT within 36m.

Cable	Bus come conversion 5		1 GOT main unit 15° GT1695 15° GT1595 12.1° GT1595 12.1° GT1585 12.1° GT1585 12.1° GT1585 12.4° GT1560 5.7° GT1510 5.7° GT1550 5.7° GT1550 5.7° GT1550	OT 1 Bus connection unit GT15-75ABUS2 GT15-76ABUS2 GT15-7ABUS2 GT15-ABUS2		GOT main unit	2 Bus connection unt	Cable 3	GOT main unit	T 3
GT15-A1SC□ NB 05 : 0.45m 07 : 0.7m 30 : 3m 50 : 5m	A7GT-CNB	GT15-C EXSS-1 *4 100 : 10m 200 : 20m 300 : 30m	15" GT1695 15" GT1595 12.1" GT1585 12.1" GT1585 10.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2						
		GT15-A1SC[]B 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT157□ 8.4" GT155□ 5.7" GT155□	GT15-75ABUS2L GT15-ABUS2	GT15-CCBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m 300 : 30m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT157 8.4" GT156 5.7" GT155 5.7" GT152 5.7" GT152 5.7" GT152	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2			
GT15-A1SC⊟ NB 05 : 0.45m 07 : 0.7m 30 : 3m 50 : 5m	A7GT-CNB	GT15-C⊟ EXSS-1 *4 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1570 8.4" GT1560 5.7" GT1550	GT15-75ABUS2L GT15-ABUS2	GT15-CEBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT157 8.4" GT157 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT15C	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2			
		GT15-A1SCIB 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1570 8.4" GT1560 5.7" GT1550	GT15-75ABUS2L GT15-ABUS2	GT15-CEBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT157□ 8.4" GT155□ 5.7" GT155□	GT15-75ABUS2L GT15-ABUS2	GT15-CCEBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT155 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2

Ye For GT15-CIEXS-1
 Consisting of GT15-KXONB (0.5m) and GT15-CIEBS (10 to 30m).
 When calculating the cable length, use GT15-C100EXS5-1 (10m),
 GT15-C200EXS5-1 (20m), and GT15-C300EXS5-1 (30m).
 '5: Indication of cable model (example) "GT15-ATSC1BN 80:54.5m"—GT15-ATSC05NB
 '6: Select a cable to keep the total cable length within 30m.

17: Use face T15-ABUS(2) for mounting the following units, G715-75ABUS(2), Lis not available, Use it for imaging information Version RCB and participation and an analysis of the analysis

2

SOFTWARE

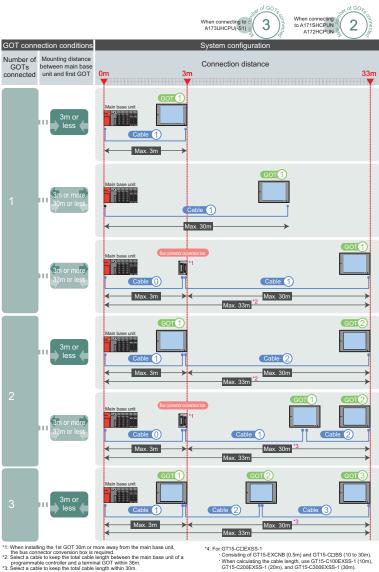
3

5 COMPLIANCE WITH OVERSEAS STANDARDS

CONNECTION CONFIGURATION **A** FUNCTION

7

When connecting to motion controller CPU (A171SHCPUN, A172HCPUN, A173UHCPU(-S1)) without the extension base unit



*4: For GT15-C_EXSS-1 · Consisting of GT15-EXCNB (0.5m) and GT15-C_BS (10 to 30m). When calculating the cable length, use GT15-C100EXSS-1 (10m), GT15-C200EXSS-1 (20m), and GT15-C300EXSS-1 (30m).

	conversion	tor box *1	() () ()		Cable 2) GOT *5 .	2	Cable 3	GO	⊺ <u>3</u>
		GT15-A1SC□B 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m	GOT main unit 15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155 0008 0008 0008 0008 0008 0008 0008 0	Bus connection unit GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2		GOT main unit	*6 Bus connection unit		GOT main unit	*6 Bus connection unit
		GT15-CD EXSS-1 *4 100 : 10m 200 : 20m 300 : 30m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT1585 10.4" GT156 5.7" GT155 5.7"	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2						
GT15-A1SC⊡ NB 05 : 0.45m 07 : 0.7m 30 : 3m 50 : 5m	A7GT-CNB	GT15-CD EXSS-1 *4 100 : 10m 200 : 20m 300 : 30m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2						
		GT15-A1SC[]B 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m		GT15-75ABUS2L GT15-ABUS2	GT15-CIIBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m 300 : 30m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT156 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 5.7" GT155	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2 GT15-ABUS2			
GT15-A1SC⊟ NB 05 : 0.45m 07 : 0.7m 30 : 3m 50 : 5m	A7GT-CNB	GT15-CD EXSS-1 *4 100 : 10m 200 : 20m	15"GT1695 15"GT1595 12.1"GT1685 12.1"GT1585 10.4"GT1570 8.4"GT1560 5.7"GT1550	GT15-75ABUS2L GT15-ABUS2	GT15-C⊟BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT1585 5.7" GT155 5.7"	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2			
		GT15-A1SC□B 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m	15"GT1695 15"GT1595 12.1"GT1685 12.1"GT1585 10.4"GT1570 8.4"GT1560 5.7"GT1550	GT15-75ABUS2L GT15-ABUS2	GT15-CEIBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15"GT1695 15"GT1595 12.1"GT1685 12.1"GT1685 10.4"GT157 8.4"GT156 5.7"GT155	GT15-75ABUS2L GT15-ABUS2	GT15-CCBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 connection)	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2

 *5: Indication of cable model (example) *GT15-A1SCIDNB 05:0.45m*-rGT15-A1SC05NB
 *7: The bus connection unit is not required for GT115□

 *6: Use the GT15-ABUS(2) for mounting the following units: GT15-7ABUS(2) Lis not available.
 Units for the multimedia function, Video/RGB display, RGB output, printer output, Ethernet download, gateway function, MES Interface function, GF card unit, and CF card extension unit

 *7: The bus connection unit is not required for GT115_T5ABUS(2).
 *6: Use the GT15_ABUS(2) for mounting the following units: GT15_7ABUS(2).

 Units for the multimedia function, Video/RGB display, RGB output, printer output, Ethernet download, gateway function, MES Interface function, GF card unit, and CF card extension unit

 *For GT16, how/molad, gateway function are available using the Ethernet Interface.

1

COT GOT

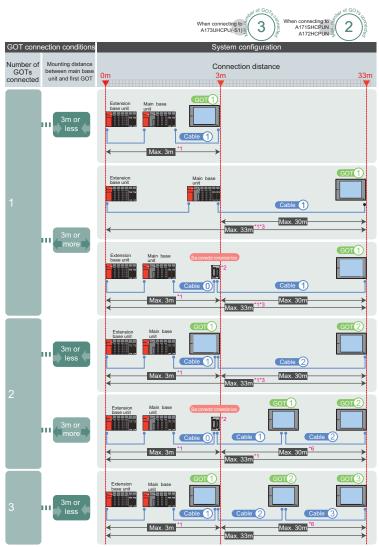
SOFTWARE

CONNECTION CONFIGURATION & FUNCTION

5

7

When connecting to motion controller CPU (A171SHCPUN, A172HCPUN, A173UHCPU(-S1)) with the extension base unit



*1: The extension cable length (between the main base units) is included. For the cable between the main base unit and extension base unit, refer to Mtsubishi Programmable Logic Controller MELSEC-Q (Catalog) (L(NA)-08033E) *2: When installing the 1st GOT 30m or more away form the main base unit, the bus connector conversion box is required. *3: Select a cable to keep the total cable length between the main base unit of a programmable controller and a terminal GOT within 36m.

	Bus conner conversion			or 1	Cable 2	GOT	2	Cable 3	Go	· 3
		GT15-A1SC⊡B 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m	GOT main unit 15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT157 8.4" GT157 5.7" GT155 5.7" GT155	*7 Bus connection unit GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2		GOT main unit	Bus connection unit		GOT main unit	Bus connection unit
		GT15-C D EXSS-1 *4 100 : 10m 200 : 20m 300 : 30m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1685 10.4" GT157 8.4" GT156 5.7" GT155 5.7" GT155 5.7" GT155 connection)	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2						
GT15-A1SCD NB 05:0.45m 07:0.7m 30:3m 50:5m	A7GT-CNB	GT15-C D EXSS-1 *4 100 : 10m 200 : 20m 300 : 30m	15" GT1695 15" GT1595 12.1" GT1585 12.1" GT157 8.4" GT156 5.7" GT155 5.7" GT1513*8 connection)	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2						
		GT15-A1SCEB 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m	15" GT1695 15" GT1595 12.1" GT1685 12.4" GT1570 8.4" GT1560 5.7" GT1550	GT15-75ABUS2L GT15-ABUS2	GT15-C[]BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m 300 : 30m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1575 10.4" GT1575 8.4" GT1555 5.7" GT152" 5.7" GT152" 5.7" GT152" 5.7" GT152"	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2			
GT15-A1SC⊡ NB 05 : 0.45m 07 : 0.7m 30 : 3m 50 : 5m	A7GT-CNB	GT15-C⊟ EXSS-1 *4 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT157 8.4" GT156 5.7" GT155	GT15-75ABUS2L GT15-ABUS2	GT15-CEBS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT157□ 8.4" GT156□ 5.7" GT155□ 5.7" GT15D*s connection)	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2			
		GT15-A1SCEB 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT1570 8.4" GT1550 5.7" GT1550	GT15-75ABUS2L GT15-ABUS2	GT15-C□BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT1585 10.4" GT1570 8.4" GT1560 5.7" GT1550	GT15-75ABUS2L GT15-ABUS2	GT15-C⊡BS 07 : 0.7m 12 : 1.2m 30 : 3m 50 : 5m 100 : 10m 200 : 20m	15" GT1695 15" GT1595 12.1" GT1685 12.1" GT157□ 8.4" GT156□ 5.7" GT155□ 5.7" GT155□ 5.7" GT150□	GT15-75ABUSL GT15-75ABUS2L GT15-ABUS GT15-ABUS2

Ye For GT15-CIEXSS-1
 Consisting of GT15-EXCN8 (0.5m) and GT15-CIEBS (10 to 30m).
 When calcularing the cable length, use GT15-C100EXSS-1 (10m),
 GT15-C200EXSS-1 (20m),
 St Indication of cable model (example) "GT15-ATSC10B 05.045m"—GT15-ATSC05NB
 Select a cable to keep the total cable length within 30m.

17: Use the QT1548U5021 for mounting the following units. GT15-7248U5021L is not available. Units for the multimedia function. VelocyRG8 depuis, RG8 acquire, printer outpoit. Ethernel download, gateway function, MES interface function, CF card unit, and CF card extension unit For GT16, however, Ethernet download, gateway function, and MES interface function are available using the Ethernet Interface.
8: The bus connection unit is not required for GT115C](dedicated to the bus connection).

1

2

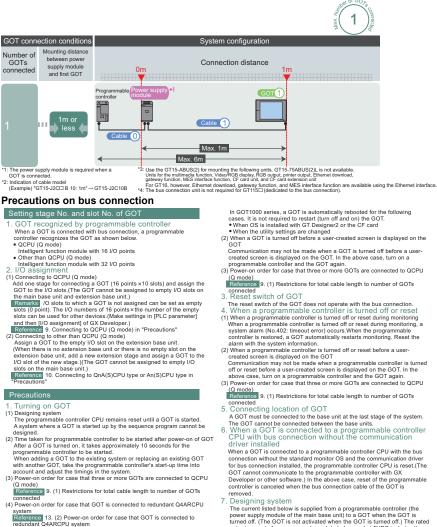
SOFTWARE

3

CONNECTION CONFIGURATION **A** FUNCTION

5

When connecting to A0J2HCPU



(5) Power-on order for case other than (3) and (4) The GOT can be started up first and the programmable controller can also

be started up first. (There is no specific order in which the both devices are turned on.)) Note,

however, that operation is as follows when the GOT is turned on before the programmable controller: When a GOT is turned on while the programmable controlled is off, a system alarm (No.402: timeout error) occurs.When the programmable

controller is turned on, the GOT automatically restarts monitoring. Reset the alarm with the system information. 2. When a GOT is turned off or restarted (turned off and

- then on)
- (1) Precautions for restarting (turning off and then on) a GOT Do not restart (turn off and then on) a GOT while the programmable controller is turned on Be sure to turn off the programmable controller before restarting (turning off and then on) a GOT

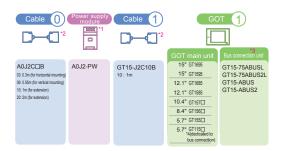
Remarks Operation that automatically reboots GOT1000 series

The current issue below is supplied from a programmable controller (the power supply module of the main base unit) to a GOT when the GOT is turned off. (The GOT is not activated when the GOT is turned off.) The rated output current of a power supply module to be used at 5VDC includes the currents consumed by a module mounted on the main base unit at 5VDC and consumed by a GOT. Design a system to keep the total of the currents below the rated output current.

Target CPU	Number of GOTs connected	Total current consumption
	5	2200mA
	4	1760mA
Connecting to QCPU	3	1320mA
(Q mode)	2	880mA
	1	440mA
	3	360mA
Connecting to CPU other	2	240mA
than QCPU (Q mode)	1	120mA

8. When the I/O signals of a GOT are assigned

The I/O signals assigned to a programmable controller are used on a GOT system. Do not use the I/O signals in a sequence program. Otherwise, functions of the GOT cannot be guaranteed.



9. Connecting to QCPU (Q mode) (1) Restrictions for total cable length to number of GOTs connected

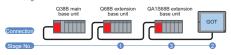
There are the following restrictions when three or more GOTs are connected.

Number of GOTs	e length			
connected	15m or less	15 to 20m or less	20 to 25m or less	25 to 37m or less
1	0	0	0	0
2	0	0	0	0
3	0	0	0	Δ
4	0	0	Δ	Δ
5	0	Δ	Δ	Δ

There are no restrictions. Use the same power supplies of a programmable controller and all GOTs and turn on or off all the power supplies simultaneously. O : There a ∆ : Use the

(2) When using Q00JCPU

- The bus extension connector box can be connected only to the extension base unit. (The bus extension connector box cannot be mounted on the main base unit.) (3) When using Q00J, Q00, Q01 or Q02UCPU
- When the GOT is connected to the Q002CPU with the bus connection, the number of extension stages including the GOT must be two or less. When the GOT is connected to the Q00CPU, Q01CPU or Q02UCPU with the bus
- connection, the number of extension stages including the GOT must be four or less. (4) When using QA1S6□B extension base unit
 - Though the GOT is physically connected behind all the extension base units, assign the GOT to the stage right behind the QDB extension base unit in the extension stage number setting. Assign the QA1S6 DB extension base unit as a stage next to the GOT.



10. Connecting to QnA(S)CPU type or An(S)CPU type (1) Connecting to QnA(S)CPU type or An(S)CPU type

- A GOT can be connected to an extension connector on only one side of the main base unit.(GOTs cannot be connected simultaneously to the extension connectors on bothsides.)
- (2) When using Q4A(R)CPU, Q3ACPU, AEICPU or A4UCPU At least one empty slot for an I/O module is required in a programmable controller system.
- (3) When using A0J2HCPU
- Assign the GOT to the I/O slots 0 to 3 of the first extension stage (4) When using CPUs other than CPUs of (2) and (3)
- Even if the maximum number of stages are used with no empty I/O slots, when there is a free space of 32 I/O points or more, a GOT can be connected with the following communication interface setting

Target CPU	Max. stage No.	Communication	n interface setting	
Target CPU	max. stage No.	Stage No.	Slot No.	
A1 CPU/A2USCPU(-S1)	1	2	0	
A2CCPU/Q2ACPU	3	4	0	
A3 CPU/A4 CPU	7			
Q3ACPU/Q4ACPU	7	Disabled		
A0J2HCPU	1	1		

11. Connecting multiple GOTs

System including different GOT series The GOT1000 series cannot be used with different GOT series in a system.

(2) Restrictions on number of GOTs connected

There are restrictions on the number of GOTs connected depending on the target CPU and the number of intelligent function modules mounted.

		Number of connectable GOTs	Total number of connectable GOTs and intelligent function modules *1
QCPU (Q mode)	Motion controller CPU (Q series)	5	5 GOTs and 6 intelligent function modules *2
QCPU (A mode)		Not connectable	6 in total
QnACPU		3	6 in total
	AnUCPU, AnACPU, A2US(H)CPU	3	2 in total
	AnNCPU, AnS(H)CPU, A1SJ(H)CPU	2	2 in total
ACPU	A0J2HCPU	1	-
	A1FXCPU	Not connectable	6 in total
	A273UCPU, A273UHCPU(-S3),	3	
Motion controller	A373UCPU(-S3), A173UHCPU(-S1)		2 in total
CPU(A series)	A171SHCPUN, A172SHCPUN	2	

1: The following shows the models of connectable intelligent function modules. AD51(S3), AD51H(S), AD51FD(S3), AD57G(S3), AJ71C21(S1), AJ71C22(S1), AJ71C23, AJ71C24(S3)S8/S8), AJ71C24, AJ71E71(-S3), AJ71E71N-B2/B5/T/B5T, AJ71E71N3-T, AJ61BT11 (only for the intelligent mode), A1SJ71C24(-R2/PRF/R4), A1SJ71UC24(-R2/PRF/R4), A1SJ71E71-B2/B5(-S3), A1SJ71E71N-B2/B5/T/B5T, A1SJ71E71N3-T, A1SD51S, ATS/618711 (only for the intelligent mode) *2: A1SD51S is the only intelligent function module that can be connected to a QCPU (Q mode)

12. When using programmable controller CPU in direct mode When the I/O control mode of the programmable controller CPU is the direct mode, and if the first GOT is connected to the main or extension base unit with a 5m extension cable (GT15-AC50B, GT15-A1SC50NB), the input X of the empty I/O slot cannot be used.

No restrictions apply when the I/O control mode is the refresh mode. On programmable controller CPUs whose I/O control mode can be selected. by a switch, set the I/O control mode to the refresh mode before use.

- emarks Examples of using input X of an empty I/O slot When input X is assigned on the MELSECNET/10 network
- · When input X of an empty I/O slot is turned on or off by the computer link module
- When input X of an empty I/O slot is turned on or off by the touch switch function (Bit SET/RST/Alternate/Momentary) of a GOT

13. Connecting to redundant Q4ARCPU system

 Connecting to redundant Q4ARCPU system with bus connection Connect a GOT to the last redundant extension base unit (A68RB) of the redundant Q4ARCPU system.

- For the redundant extension base units, use version B or later. The version can be confirmed in the DATE field of the rating plate. Remarks Precautions for redundant Q4ARCPU system configurations The GOT does not operate normally in the following system configurations
 - When the GOT is connected to the bus switching module (A6RAF) on the redundant main base unit (A32RB/A33RB) with the bus connection When the GOT is connected to the version A redundant extension
- base unit (A68RB) with the bus connection (2) Power-on order for GOT and redundant Q4ARCPU system
- Turn on the GOT and Q4ARCPU redundant system in the following order. 1) Turn on the GOT.
- 2) After the monitor screen is displayed on the GOT, turn on the redundant Q4ARCPU system.A timeout error is displayed on the system alarm. Reset the alarm with the system information.

4.1 MITSUBISHI Programmable Controller 4.1.3 Details of bus connection

COMPLIANCE WITH OVERSEAS STANDARDS

6

EQUIPMENT, SOFTWARE, AND MANUALS

7

S

4.1.4 Direct CPU connection

System configuration 1) RS-232 Target device Cable GOT Communication unit Not required Built in GOT RS-232 E GT16/GT15 Max. number of RS-232 GT15-RS2-9P GOTs connected 1. ji 1 GT01-C□R2-6P Not required 30:3m Built in GOT GT11 Max. connection QCPU distance Not required Motion controller 3 m Built in GOT GT105 CPU (Q series)*1 CNC C70 *2 *3 RS-232 CRnQ-700 *2 *3 Not required MELSECNET/H Built in GOT GT1030/GT1020 remote I/O station*2 GT10-C□R2-6P 30:3m Max. number of Relay External connection GOTs connected Not required 1 GT11H-C□R2-6P Max. connection GT11H-C -37P Built in GOT distance 15:1.5m 30:3m Handy GOT (A cable exceeding 1.5m 6 m should be created by the user Max. number of Not required personal compute Built in personal connected computer 1 or 2^{*5} DOS/V personal GT SoftGOT1000 omputer) License key for Max. connection RS-232 Commercially-available GT SoftGOT1000 distance D-sub 9-pin RS-232 board 3 m GOT GT01-C□R2-6P 30·3m Max number of Programmable PC CPU •4 controller CPU + module personal computers connected 1 or 2^{*5} GT SoftGOT1000 Max. connection License key for distand GT SoftGOT1000 3 m

QCPU/Motion controller CPU (Q series)/CNC C70/Robot controller

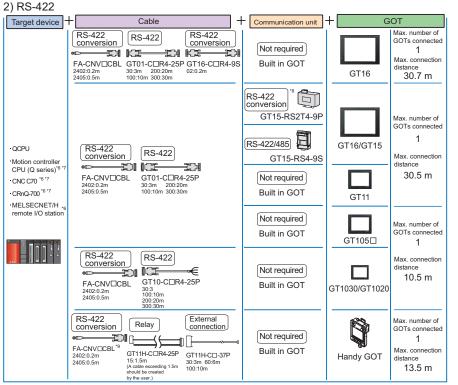
*1: Available only for GT16, GT15, GT11, and Handy GOT.

*2: Available only for GT16, GT15, GT11, Handy GOT, and GT SoftGOT

*3: Configure the multiple CPU system.

*4: Connect the PC CPU module to a programmable controller CPU on any of the other main base units.

*5: For using RS-232 and USB connections at the same time



*6: Available only for GT16, GT15, GT11, and Handy GOT.

*7: Configure the multiple CPU system.

*8: Use GT15-RS4-9S for using GT155

*9: The FA-CNV CCBL is Recommended Product.

Purchase the cable from MITSUBISHI ELECTRIC ENGINEEERING CO., LTD.

*10: The USB communication cable is Recommended Product. Purchase the cable from

ELECOM CO., LTD, ARVEL CORP or LOAS CO., LTD. *11: For using RS-232 and USB connections at the same time

*12: Connect the PC CPU module to a programmable controller CPU on any of the other main base units.

2

3

CONNECTION FUNCTION

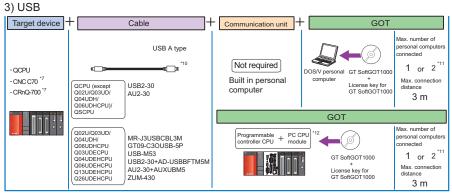
5

COMPLIANCE WITH OVERSEAS STANDARDS

6

EQUIPMENT, SOFTWARE, AND MANUALS

GLOSSARY



*6: Available only for GT16, GT15, GT11, and Handy GOT.

- *7: Configure the multiple CPU system.
- *8: Use GT15-RS4-9S for using GT155D.
- *9: The FA-CNV CBL is Recommended Product.
- Purchase the cable from MITSUBISHI ELECTRIC ENGINEEERING CO., LTD.
- *10: The USB communication cable is Recommended Product. Purchase the cable from
- ELECOM CO., LTD, ARVEL CORP or LOAS CO., LTD. *11: For using RS-232 and USB connections at the same time
- *12: Connect the PC CPU module to a programmable controller CPU on any of the other main base units.

The GOT model to be used differs depending on the connection type.

Series		Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)

3

2

5

Precautions

Other precautions

- For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later.
- When connecting to motion controller CPU (Q series)
 - For Q172CPU or Q173CPU
 - (1) Use the motion controller CPU with the following production numbers. Q172CPU with K****** or later, Q173CPU with J****** or later
 - (2) For using the SV13, SV22, and SV43, use a motion controller with the following OS installed. SW6RN-SV13Q : 00E or later, SW6RN-SV22Q : 00E or later, SW6RN-SV43Q : 00B or later

 For Q172CPUN or Q173CPUN For using the SV13, SV22, and SV43, use a motion controller with the following OS installed. SW6RN-SV13Q : 00H or later, SW6RN-SV22Q : 00H or later, SW6RN-SV43Q : 00B or later

When connecting GT16, GT15, GT11, and Handy GOT to motion controller CPU (Q series), CNC C70, or CRnQ-700

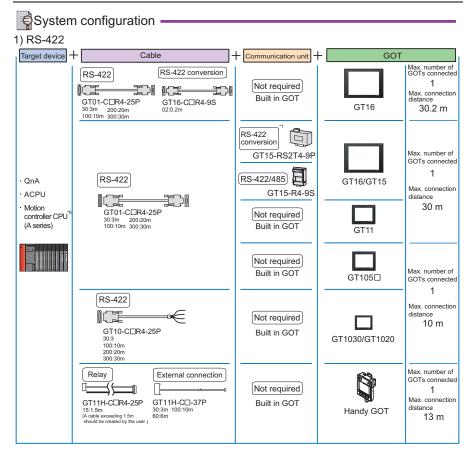
Connect the GOT to motion controller CPU (Q series), CNC C70, or CRnQ-700 via the RS-232 interface of the QCPU in the multiple CPU system.

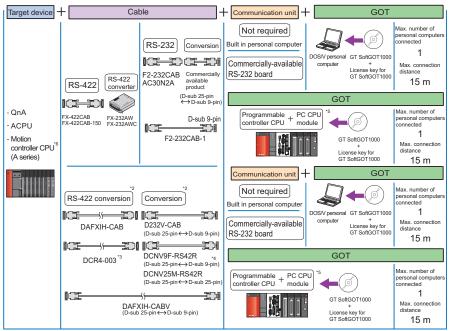
When connecting GT SoftGOT1000 to CNC C70 or CRnQ-700 Connect GT SoftGOT1000 to CNC C70 or CRnQ-700 via the RS-232 or USB interfaces of the QCPU in the multiple CPU system.

Related Manuals

 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of direct 		Chapter 3 in GOT1000 Series Connection Manual (SH- 080532ENG)
CPU connection • For controllers that can be monitored by GOT and accessible range		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT		Chapter 10 in Handy GOT User's Manual (JY997D20101)
For connection method with GT SoftGOT1000		Chapter 2 in GT SoftGOT1000 Version2 Operating Manual (SH-080602ENG)
 For controllers that can be monitored by GT SoftGOT1000 and accessible range 		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
* For restrictions and precautions on controllers of	connecte	d to a GOT, refer to the manual for each controller.

QnA/ACPU/Motion controller CPU (A series)





*1: Use the GT15-R4-9S for GT155

*2: Recommended Product.Purchase the cable from Diatrend Corporation.

*3: Keep the cable length of DCR4-003 (D-sub 25-pin↔D-sub 25-pin)

below 3m.

*4: When using DCNV9F-RS42R, be sure to ground the FG terminal of a programmable controller system.

- *5: Connect the PC CPU module to another programmable controller. *6: Available only for GT16, GT15, GT11, Handy GOT, and
- GT SoftGOT1000

The GOT model to be used differs depending on the connection type.

Series		Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
GT10	GT105	RS-232 or RS-422 connections	GT105Q_BD
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2
	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)

2

SOFTWARE

3

CONNECTION CONFIGURATION **A** FUNCTION

5

COMPLIANCE WITH OVERSEAS STANDARDS

Precautions

Precautions on system

- When connecting the motion controller (A series) to GT SoftGOT1000, simultaneous connection with other MELSOFT products (such as GX Developer) is not allowed.
- The motion controller (A series) cannot be connected to the remote I/O station.

Other precautions

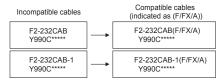
When monitoring MELSEC-A series (AnCPU type)^{*1}, MELSEC-A series (AnSCPU type)^{*2}, or MELSEC-A series^{*3}, data can be written to only CPUs with the following software version or later. The earlier software version is not available.

- · AnNCPU (S1): Version L or later for the one with link, version H or later for the one without link
- · A2SCPU: Version H or later
- · A0J2HCPU (With/without link): Version E or later
- A0J2HCPU-DC24: Version B or later
- A2CCPU: Version H or later
- *1: When connecting to A1NCPU, A1NCPUP21, A1NCPUR21, A2NCPU, A2NCPUP21, A2NCPUR21, CA2NCPU-S1, A2NCPUP21-S1, A2NCPUR21-S1, A3NCPU, or A3NCPUP21
- *2: When connecting to A2SCPU or A2SCPU-S1
- *3: When connecting to A0J2HCPU, A0J2HCPUP21, A0J2HCPUR21, A0J2HCPU-DC24, or A2CCPU

• When connecting or disconnecting converter/cable for GT SoftGOT1000

- When connecting or disconnecting converter/cable that receives 5VDC power When connecting or disconnecting the converter/cable that receives 5VDC power from a programmable controller, power off the programmable controller and start working.
- When connecting or disconnecting converter/cable that does not receive 5VDC power When connecting or disconnecting peripheral devices and the cables that do not receive 5VDC power from a programmable controller (receives the power from an external power supply), follow the procedure as below.
 - 1) Be sure to use an earth band or touch a grounded metal object before working to discharge the static electricity from the cables, human body, and others.
 - 2) Power off the personal computer.
 - 3) Power off the converter. When the converter/cable have an FG terminal, ground it.
 - Connect/disconnect the converter/cable between the personal computer and programmable controller.
 - 5) Power on the converter.
 - 6) Power on the personal computer.
 - 7) Start up the software package.
- Use a RS-232 cable (F2-232CAB or F2-232CAB-1) applicable to the QnACPU or ACPU (For GT SoftGOT1000).

For distinguishing cables applicable to the QnACPU and ACPU, check the indication of the model label on the cable. (Inapplicable cables are not available.)



Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of direct CPU connection 		Chapter 3 in GOT1000 Series Connection Manual (SH- 080532ENG)
 For controllers that can be monitored by GOT and accessible range 		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT		Chapter 10 in Handy GOT User's Manual (JY997D20101)
For connection method with GT SoftGOT1000		Chapter 2 in GT SoftGOT1000 Version2 Operating Manual (SH-080602ENG)
 For controllers that can be monitored by GT SoftGOT1000 and accessible range 	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

1

COT GOT

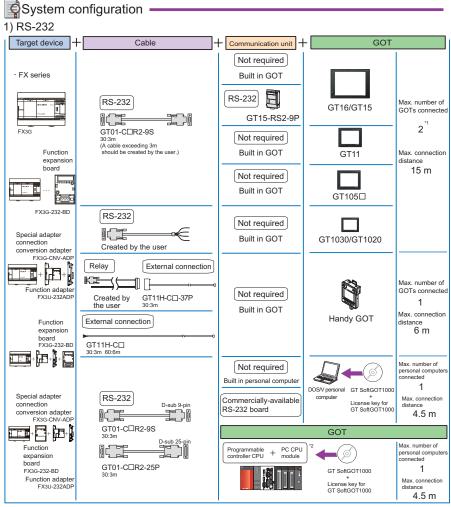
SOFTWARE

CONNECTION CONFIGURATION **A** FUNCTION

5

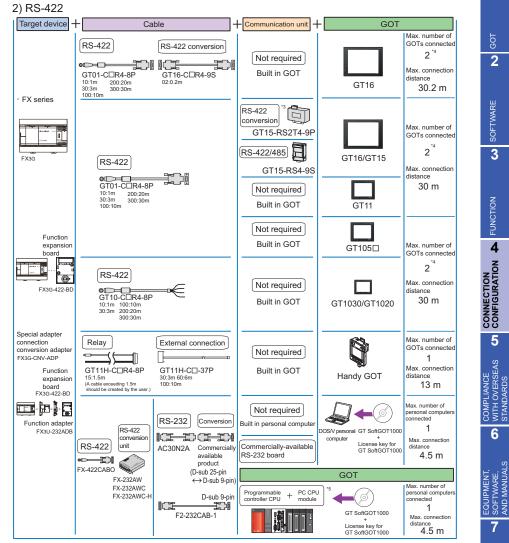
COMPLIANCE WITH OVERSEAS STANDARDS

FX series (FX3G)



*1: When using the function expansion board (FX3G-232-BD) or the function adapter (FX3U-232ADP)

*2: Connect the PC CPU module to another programmable controller.



- *3: Use GT15-RS4-9S for using GT155
- *4: When using the CPU port (RS-422) and function expansion board (FX3G-422-BD)
- *5: Connect the PC CPU module to another programmable controller.

2

SOFTWARE

3

5

The GOT model to be used differs depending on the connection type.

Series		Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)

Precautions

Precautions on system

The function expansion boards and function adapters that can be connected to the GOT are the FX3G-232-BD, FX3G-422-BD, and FX3U-232ADP only.

Precautions on setup

When connecting or disconnecting converter/cable for GT SoftGOT1000

- · When connecting or disconnecting converter/cable that receives 5VDC power When connecting or disconnecting the converter/cable that receives 5VDC power from a programmable controller, power off the programmable controller and start working.
- When connecting or disconnecting converter/cable that does not receive 5VDC power When connecting or disconnecting peripheral devices and the cables that do not receive 5VDC power from a programmable controller (receives the power from an external power supply), follow the procedure as below.
 - 1) Be sure to use an earth band or touch a grounded metal object before working to discharge the static electricity from the cables, human body, and others.
 - 2) Power off the personal computer.
 - 3) Power off the converter. When the converter/cable have an FG terminal, ground it.
 - 4) Connect/disconnect the converter/cable between the personal computer and programmable controller.
 - 5) Power on the converter.
 - 6) Power on the personal computer.
 - 7) Start up the software package.

Related Manuals -

· For details of system configuration and connection cable

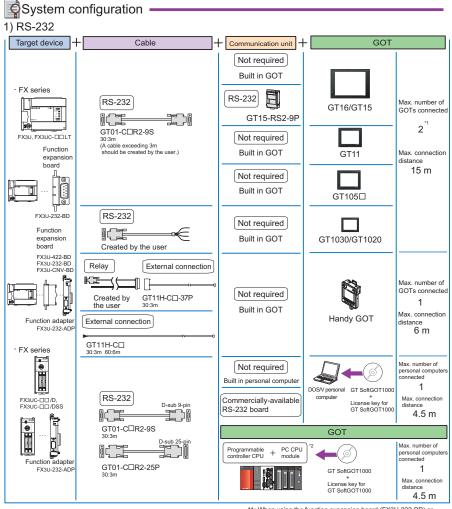
 For precautions and restrictions For outlined procedure and checking of direct CPU connection 		Chapter 3 in GOT1000 Series Connection Manual (SH- 080532ENG)
 For controllers that can be monitored by GOT and accessible range 		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT		Chapter 10 in Handy GOT User's Manual (JY997D20101)
For connection method with GT SoftGOT1000	\triangleright	Chapter 2 in GT SoftGOT1000 Version2 Operating Manual (SH-080602ENG)
 For controllers that can be monitored by GT SoftGOT1000 and accessible range 	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
* For restrictions and precautions on controllers of	connecte	ed to a GOT, refer to the manual for each controller.

Μ	E	Μ	ο

_
GOT
2
_
SOFTWARE
sor
_ ວ
EUNCTION 4
4
CONNECTION CONNECTION
- 5
ANCE ERSEA
COMPLIANCE WITH OVERSEAS
6
_
EQUIPMENT, SOFTWARE,
EQUI
- 7
GLOSSARY
0

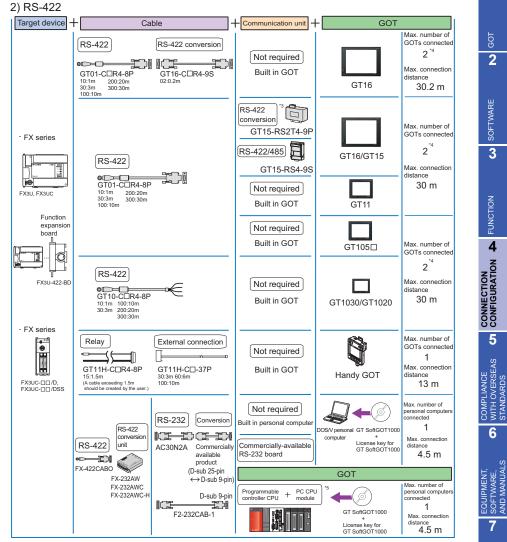
1

FX series (FX3U, FX3UC)



*1: When using the function expansion board (FX3U-232-BD) or the function adapter (FX3U-232ADP)

*2: Connect the PC CPU module to another programmable controller.



- *3: Use GT15-RS4-9S for using GT155
- *4: When using the CPU port (RS-422) and function expansion board (FX3U-422-BD)

*5: Connect the PC CPU module to another programmable controller.

7

2

SOFTWARE

3

5

The GOT model to be used differs depending on the connection type.

Series		Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)

Precautions

Precautions on system

 The function expansion boards and function adapters that can be connected to the GOT are the FX3U-232-BD, FX3U-422-BD, and FX3U-232ADP only.

Precautions on setup

- When connecting or disconnecting converter/cable for GT SoftGOT1000
 - When connecting or disconnecting converter/cable that receives 5VDC power When connecting or disconnecting the converter/cable that receives 5VDC power from a programmable controller, power off the programmable controller and start working.
 - When connecting or disconnecting converter/cable that does not receive 5VDC power When connecting or disconnecting peripheral devices and the cables that do not receive 5VDC power from a programmable controller (receives the power from an external power supply), follow the procedure as below.
 - 1) Be sure to use an earth band or touch a grounded metal object before working to discharge the static electricity from the cables, human body, and others.
 - 2) Power off the personal computer.
 - 3) Power off the converter. When the converter/cable have an FG terminal, ground it.
 - Connect/disconnect the converter/cable between the personal computer and programmable controller.
 - 5) Power on the converter.
 - 6) Power on the personal computer.
 - 7) Start up the software package.

Other precautions

- When a keyword is registered for the FXCPU (FX3U/FX3UC series), the GOT may not monitor the CPU. Execute the I/O check again. When the I/O check result is normal, check the keyword registration of the CPU.
- When connecting the FX-232AWC-H to the FX3UCCPU, the transmission speed of 600, 19200, 38400, 57600, or 115200bps can be used.

When connecting the FX-232AWC or FX-232AW to the FX3UCCPU, the transmission speed of 9600 or 19200bps can be used.

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of direct CPU connection 		Chapter 3 in GOT1000 Series Connection Manual (SH- 080532ENG)
For controllers that can be monitored by GOT and accessible range	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT		Chapter 10 in Handy GOT User's Manual (JY997D20101)
For connection method with GT SoftGOT1000		Chapter 2 in GT SoftGOT1000 Version2 Operating Manual (SH-080602ENG)
For controllers that can be monitored by GT SoftGOT1000 and accessible range	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

GLOSSARY

1

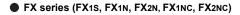
COT GOT

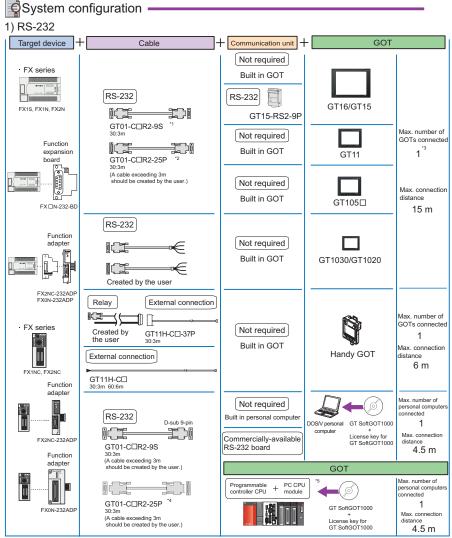
SOFTWARE

CONNECTION CONFIGURATION & FUNCTION

5

COMPLIANCE WITH OVERSEAS STANDARDS



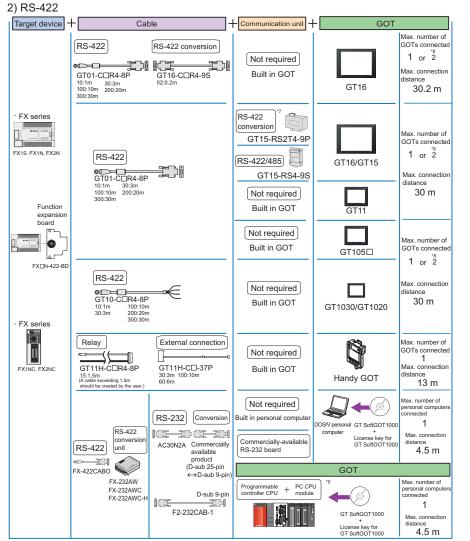


*1: FX1S, FX1N, FX2N ------ When using the function expansion board (FXIN-232-BD) or thefunction adapter (FX2NC-232ADP)

*2: When using the function adapter (FX0N-232ADP)

*3: When using the function expansion board indicated in *1 or *2 or the function adapter *3: When using the function expansion board indicated in *1 or *2 or the function adapter *4: When using the FXDN-232ADP, connect the D-sub 3-pin cable to the PC. When using the FXCIN-232-BD and FXZNC-232ADP, connect the D-sub 25-pin cable to the PC.

*5: Connect the PC CPU module to another programmable controller.



*7: Use GT15-RS4-9S for using GT155 .

2

SOFTWARE

CONNECTION FUNCTION

COMPLIANCE WITH OVERSEAS **G** STANDARDS

7

The GOT model to be used differs depending on the connection type.

Series		Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)

Precautions

Precautions on setup

- When connecting or disconnecting converter/cable for GT SoftGOT1000
 - When connecting or disconnecting converter/cable that receives 5VDC power When connecting or disconnecting the converter/cable that receives 5VDC power from a programmable controller, power off the programmable controller and start working.
 - When connecting or disconnecting converter/cable that does not receive 5VDC power When connecting or disconnecting peripheral devices and the cables that do not receive 5VDC power from a programmable controller (receives the power from an external power supply), follow the procedure as below.
 - Be sure to use an earth band or touch a grounded metal object before working to discharge the static electricity from the cables, human body, and others.
 - 2) Power off the personal computer.
 - 3) Power off the converter. When the converter/cable have an FG terminal, ground it.
 - Connect/disconnect the converter/cable between the personal computer and programmable controller.
 - 5) Power on the converter.
 - 6) Power on the personal computer.
 - 7) Start up the software package.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of direct CPU connection
- For controllers that can be monitored by GOT and accessible range
- For connection method with Handy GOT
- for connection method with handy con
- For connection method with GT SoftGOT100
- For controllers that can be monitored by GT SoftGOT1000 and accessible range

 \triangleright

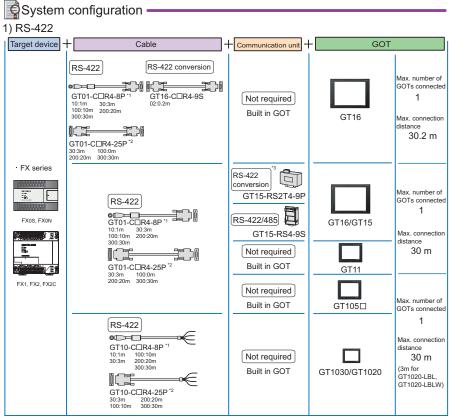
Chapter 3 in GOT1000 Series Connection Manual (SH-080532ENG)

be monitored by GOT and		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
l with Handy GOT	\triangleright	Chapter 10 in Handy GOT User's Manual (JY997D20101)
I with GT SoftGOT1000	\triangleright	Chapter 2 in GT SoftGOT1000 Version2 Operating Manual (SH-080602ENG)
n be monitored by GT essible range	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

Μ	E	Μ	ο

BOT
201
S OFTWARE
SOFT
3
 7
 FUNCTION
 2 4
 NOL
 CONNECTION CONFIGURATION
 CONN
 5
 COMPLIANCE WITH OVERSEAS STANDARDS
 PLIANC H OVER
 COM WITH STAN
 6
 INT, RE, IUALS
 EQUIPMENT, SOFTWARE, AND MANUALS
 ш й Ұ 7
 SARY
 GLOSSARY

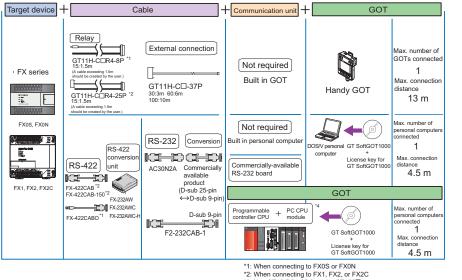


*1: When connecting to FX0S or FX0N

*2: When connecting to FX1, FX2, or FX2C

*3: Use GT15-RS4-9S for usingGT155□.

*4: Connect the PC CPU module to another programmable controller.



- *3: Use GT15-RS4-9S for usingGT155
- *4: Connect the PC CPU module to another programmable controller.

The GOT model to be used differs depending on the connection type.

Series Connection type		Connection type	GOT model to be used		
		RS-232 or RS-422 connections	GT115Q_BD		
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA		
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD		
	GT105	RS-232 or RS-422 connections	GT105Q_BD		
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2		
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,		
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW		
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)		

7

2

SOFTWARE

CONNECTION CONFIGURATION **A** FUNCTION

5

COMPLIANCE WITH OVERSEAS STANDARDS

Precautions

Other precautions

- When connecting or disconnecting converter/cable for GT SoftGOT1000
 - When connecting or disconnecting converter/cable that receives 5VDC power When connecting or disconnecting the converter/cable that receives 5VDC power from a programmable controller, power off the programmable controller and start working.
 - When connecting or disconnecting converter/cable that does not receive 5VDC power When connecting or disconnecting peripheral devices and the cables that do not receive 5VDC power from a programmable controller (receives the power from an external power supply), follow the procedure as below.
 - Be sure to use an earth band or touch a grounded metal object before working to discharge the static electricity from the cables, human body, and others.
 - 2) Power off the personal computer.
 - 3) Power off the converter. When the converter/cable have an FG terminal, ground it.
 - Connect/disconnect the converter/cable between the personal computer and programmable controller.
 - 5) Power on the converter.
 - 6) Power on the personal computer.
 - 7) Start up the software package.

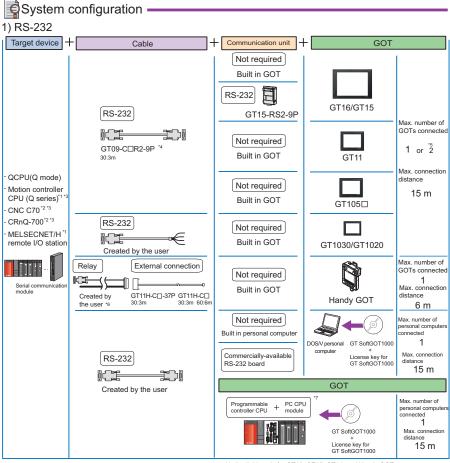
Related Manuals

- For details of system configuration and connection cable
- Chapter 3 in GOT1000 Series Connection Manual (SH-· For precautions and restrictions 080532ENG) · For outlined procedure and checking of direct CPU connection Chapter 2 in GT Designer2 Version2 Screen Design · For controllers that can be monitored by GOT and Manual (For GOT1000 Series) (SH-080530ENG) accessible range Chapter 10 in Handy GOT User's Manual · For connection method with Handy GOT (JY997D20101) Chapter 2 in GT SoftGOT1000 Version2 Operating For connection method with GT SoftGOT1000 >Manual (SH-080602ENG) · For controllers that can be monitored by GT Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG) SoftGOT1000 and accessible range
- * For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

 GOT
то 2
 ш
WARI
SOFTWARE
 3
7
FUNCTION
FUN
4
CONNECTION CONFIGURATION
 URAT
5
 COMPLIANCE WITH OVERSEAS STANDARDS
ANCE
STA STA
 6
လု
EQUIPMENT, SOFTWARE, AND MANUALS
 A S E
7
 ARY
 GLOSSARY
5

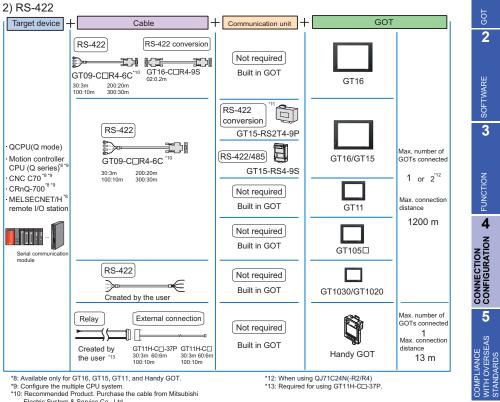
4.1.5 Computer link connection

QCPU (Q mode)/Motion controller CPU (Q series)/CNC C70/Robot controller



*1: Available only for GT16, GT15, GT11, and Handy GOT.

- *2: Available only for GT16, GT15, GT11, Handy GOT, and GT SoftGOT1000 *3: Configure the multiple CPU system.
- *4: Recommended Product. Purchase the cable from Mitsubishi Electric System & Service Co., Ltd.
- *5: When using QJ71C24N(-R2/R4)
- *6: Required for using GT11H-CD-37P.
- *7 Connect the PC CPU module to another programmable controller.



*8: Available only for GT16, GT15, GT11, and Handy GOT.

*9: Configure the multiple CPU system.

*10: Recommended Product. Purchase the cable from Mitsubishi

Electric System & Service Co., Ltd.

*11: Use GT15-RS4-9S for using GT155 .

*12: When using QJ71C24N(-R2/R4)

*13: Required for using GT11H-CD-37P.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)

3LOSSARY

7

2

SOFTWARE

3

5

6

SOFTWARE, AND MANUALS

Available module

Serial communication module/Computer link module ^{*14}				
Model	CH1	CH2		
QJ71C24*15	RS-232	RS-422/485		
QJ71C24-R2 ^{*15}	RS-232	RS-232		
QJ71C24N	RS-232	RS-422/485		
QJ71C24N-R2	RS-232	RS-232		
QJ71C24N-R4*16	RS-422/485	RS-422/485		
QJ71CMO*17*18	Modular connector	RS-232		
QJ71CMON*17*18	Modular connector	RS-232		

*14 Communications via the RS-485 interface cannot be executed. A0J2-C214-S1 cannot be used.

*15 Either CH1 or CH2 can be used for the function version A. CH1 can be used with CH2 for the function version B or later.

*16 Not available for GT SoftGOT1000.

*17 Connectable only with CH2.

*18 Not available for GT10.

Precautions

Precautions on system

- Connecting the GOT directly to Basic model QCPU is recommended. The GOT is not applicable to the serial communication function for Basic model QCPU.
- Connect a terminating resistor (330 Ω, 1/4W (orange, orange, brown, □)) to the serial communication module/computer link module.

The GOT has a built-in terminating resistor.

Other precautions

 For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later.

When connecting to motion controller CPU (Q series)

For Q172CPU or Q173CPU

Use the motion controller CPU with the following production numbers.

Q172CPU with N******* or later, Q173CPU with M******* or later

For Q172CPU, Q173CPU, Q172CPUN, or Q173CPUN

For using the SV13, SV22, and SV43, use a motion controller with the following OS installed.

SW6RN-SV13Q : 00H or later, SW6RN-SV22Q : 00H or later, SW6RN-SV43Q : 00B or later

Selated Manuals

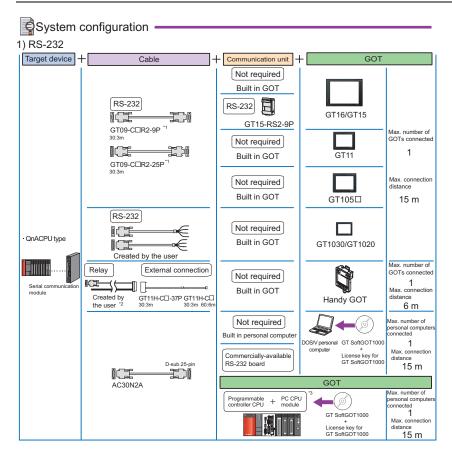
For details of system configuration and connection

 For precautions and restrictions For outlined procedure and checking of computer link connection 		Chapter 4 in GOT1000 Series Connection Manual (SH- 080532ENG)
For controllers that can be monitored by GOT and accessible range	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 10 in Handy GOT User's Manual (JY997D20101)
For connection method with GT SoftGOT1000	\triangleright	Chapter 2 in GT SoftGOT1000 Version2 Operating Manual (SH-080602ENG)
 For controllers that can be monitored by GT SoftGOT1000 and accessible range 	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
* For restrictions and precautions on controllers of	onnecte	d to a GOT, refer to the manual for each controller.

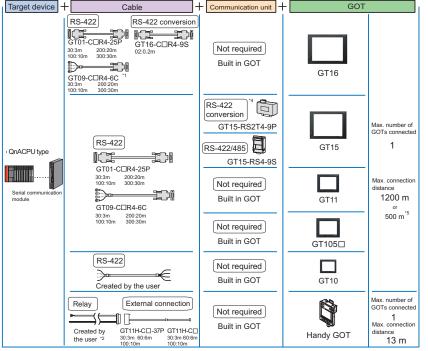
|--|

SOT
100 2
SOFTWARE
SOF
3
z
FUNCTION
4
ON ATION
CONNECTION CONFIGURATION
55 5
ANCE /ERSE∕ RDS
COMPLIANCE WITH OVERSEAS STANDARDS
6
LS I
EQUIPMENT, SOFTWARE, AND MANUALS
7
۲۲ ۲
GLOSSARY
0

QnACPU type



2) RS-422



*1: Recommended Product. Purchase the cable from Mitsubishi Electric System & Service Co., Ltd. *2: When using GT11H-C□-37P

*3: Connect the PC CPU module to another programmable controller.

*4: Use GT15-RS4-9S for using GT155 . *5: When using A1SJ71UC24

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)

2

SOFTWARE

3

CONNECTION CONFIGURATION **A** FUNCTION

5

Available module

Serial communication module/Computer link module'6				
Model	CH1	CH2		
AJ71QC24 ^{*7}	RS-232	RS-422/485		
AJ71QC24-R2 ^{*7}	RS-232	RS-232		
AJ71QC24-R4 ^{*7*8}	RS-422	RS-422/485		
AJ71QC24N*7	RS-232	RS-422/485		
AJ71QC24N-R2*7	RS-232	RS-232		
AJ71QC24N-R4*7*8	RS-422	RS-422/485		
A1SJ71QC24*7	RS-232	RS-422/485		
A1SJ71QC24-R2*7	RS-232	RS-232		
A1SJ71QC24N*7	RS-232	RS-422/485		
A1SJ71QC24N-R2 ^{*7}	RS-232	RS-232		
A1SJ71QC24N1 ^{*7}	RS-232	RS-422/485		
A1SJ71QC24N1-R2 ^{*7}	RS-232	RS-232		
AJ71UC24*7*9*10	RS-232	RS-422/485		
A1SJ71UC24-R2 ^{*9*10}	RS-232	-		
A1SJ71UC24-R4*9*10	RS-422/485	-		

*6 Communications via the RS-485 interface cannot be executed. A0J2-C214-S1 cannot be used. When the A series computer link module is used with the QnACPU, the devices that can be monitored are only devices with the same name as the devices in the device range of the AnACPU. Note that the following devices cannot be monitored.

- · Devices newly added to the QnACPU
- Latch relays (L) and step relays (S)

(For the QnACPU, the latch relay (L) and step relay (S) are different from the internal relay (M). However, the internal relay is accessed even if the latch relay or the step relay is specified.)

- · File register (R)
- *7 Either CH1 or CH2 can be used.
- *8 Not available for GT SoftGOT1000.
- *9 Not available for GT10.
- *10 The module operates in the device range of the AnACPU. (The R device is not available.)

Precautions

Precautions on system

Connect a terminating resistor (330Ω, 1/4W (orange, orange, brown, □)) to the serial communication module/computer link module. The GOT has a built-in terminating resistor.

Precautions on setup

When the A series computer link module is used with the QnACPU, the QnACPU cannot be monitored with GT SoftGOT1000.

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of computer link connection 		Chapter 4 in GOT1000 Series Connection Manual (SH- 080532ENG)
For controllers that can be monitored by GOT and accessible range		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 10 in Handy GOT User's Manual (JY997D20101)
For connection method with GT SoftGOT1000	\triangleright	Chapter 2 in GT SoftGOT1000 Version2 Operating Manual (SH-080602ENG)
For controllers that can be monitored by GT SoftGOT1000 and accessible range	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

1

COT GOT

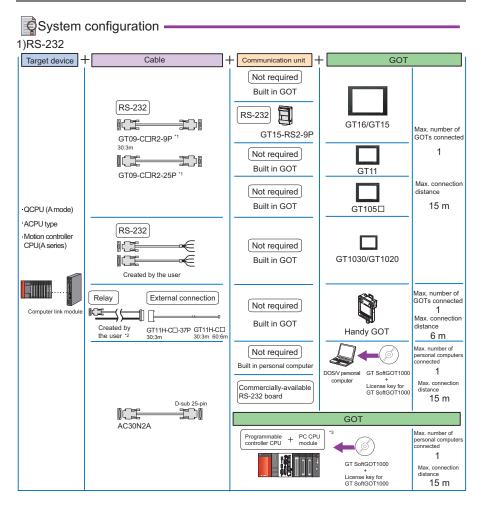
SOFTWARE

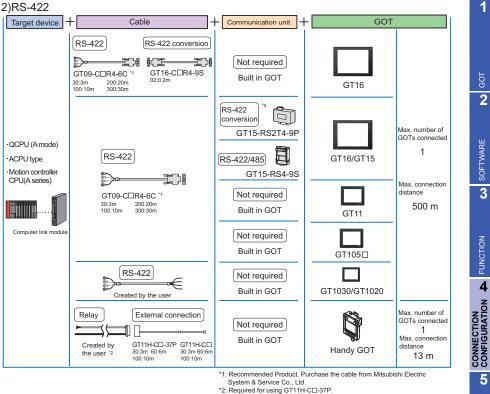
CONNECTION FUNCTION

5

COMPLIANCE WITH OVERSEAS STANDARDS







*3: Connect the PC CPU module to another programmable controller.

*4: Use GT15-RS4-9S for usingGT1550.

The GOT model to be used differs depending on the connection type.

Series Connection type		Connection type	GOT model to be used	
		RS-232 or RS-422 connections	GT115Q_BD	
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA	
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD	
	GT105	RS-232 or RS-422 connections	GT105Q_BD	
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2	
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,	
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW	
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)	

5

COMPLIANCE WITH OVERSEAS STANDARDS

6

2

SOFTWARE

3

Available module

CPU series	Serial communication module/Computer link module*5				
GPU series	Model	CH1	CH2		
MELSEC-Q series (A mode)	A1SJ71UC24-R2	RS-232	-		
MELSEC-Q series (A mode)	A1SJ71UC24-R4*8	RS-422/485	-		
	AJ71UC24*6*7	RS-232	RS-422/485		
	AJ71C24-S8*10	RS-232	RS-422		
	A1SJ71UC24-R2*7	RS-232	-		
MELSEC-A series Motion controller CPU	A1SJ71UC24-R4*7*8	RS-422/485	-		
(A series)	A1SJ71C24-R2*7*9	RS-232	-		
(A series)	A1SJ71C24-R4*7*8*9	RS-422/485	-		
	A1SCPUC24-R2*7	RS-232	-		
	A2CCPUC24*6	RS-232	RS-422/485		

*5 Communications via the RS-485 interface cannot be executed. A0J2-C214-S1 cannot be used.

*6 Either CH1 or CH2 can be used.

*7 When connecting to A1SHCPU, A2SCPU (S1), A2SHCPU (S1), A1SJHCPU, A0J2HCP, A171SHCPU (N), or A172SHCPU, use the computer link module with the software version U or later.

- *8 Not available for GT SoftGOT1000.
- *9 The module operates in the device range of the AnACPU. (The R device is not available.)
- *10 Available only for GT SoftGOT1000.

Precautions

Precautions on system

- Connect a terminating resistor (330Ω, 1/4W (orange, orange, brown, □)) to the serial communication module/computer link module.
 - The GOT has a built-in terminating resistor.
- The motion controller (A series) cannot be connected to the remote I/O station.

Precautions on setup

When connecting GT11 to A series computer link module When connecting the GT11 to the A series computer link module via the RS-232 communication, set the buffer memory for the module without checking the CD signal.

Related Manuals

 For details of system configuration and connection cable

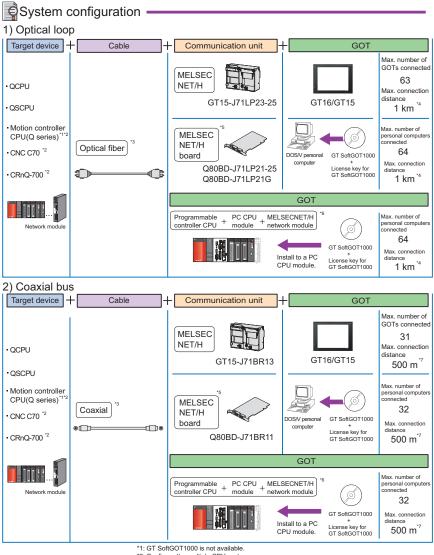
•	utions and restrictions ed procedure and checking of computer sction		Chapter 4 in GOT1000 Series Connection Manual (SH- 080532ENG)
 For contro accessible 	ollers that can be monitored by GOT and e range		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For conne	ection method with Handy GOT		Chapter 10 in Handy GOT User's Manual (JY997D20101)
For conne	ection method with GT SoftGOT1000		Chapter 2 in GT SoftGOT1000 Version2 Operating Manual (SH-080602ENG)
	ollers that can be monitored by GT 1000 and accessible range		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
* For re	etrictions and precautions on controllers of	onnecte	d to a COT, refer to the manual for each controller

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

|--|

SOT
100 2
SOFTWARE
SOF
3
z
EUNCTION
4
ON ATION
CONNECTION CONFIGURATION
55 5
ANCE /ERSE∕ RDS
COMPLIANCE WITH OVERSEAS STANDARDS
6
LS I
EQUIPMENT, SOFTWARE, AND MANUALS
7
۲۲ ۲
GLOSSARY
0

4.1.6 MELSECNET/H connection



*2: Configure the multiple CPU system.

- *3: For the cable type to be used, refer to the MELSECNET/H reference manual.
- *4: Distance between stations for using the QSI optical cable. The overall extension cable length and the length between stations differ depending on the cable type to be used and the total number of stations.For details, refer to the MELSECNET/H reference manual.
- *5: When connecting to the Q redundant system, use the version K or later for the MELSECNET/H board driver (SW0DNC-MNETH-B).
- *6: Connect the PC CPU module to another programmable controller,
- *7: Distance between stations for using the 5C-2V coaxial cable. The overall extension cable length and the length between stations differ depending on the cable type to be used and the total number of stations. For details, refer to the MELSECNET/H reference manual.

Available module

CPU series	CPI L sorios	MELSECNET/H module			
	Optical loop	Coaxial bus			
MELSEC-Q series (Q mode)"6		QJ71LP21 QJ71LP21-25 QJ71LP21S-25	QJ71BR11		

*8 Use the CPU and MELSECNET/H network module with the function version B or later.

1

5

COMPLIANCE WITH OVERSEAS STANDARDS



Precautions on system

Connectable network

A GOT is connected to the following network systems as a normal station.

- Optical loop system of MELSECNET/H network system (programmable controller to programmable controller network)
- Coaxial bus system of MELSECNET/H network system (programmable controller to programmable controller network)
- When using MELSECNET/H network module

When connecting the MELSECNET/H network module to MELSECNET/H network system, set the network type to the MELSECNET/H mode or the MELSECNET/H extended mode.

Creating network

For the network where a GOT is connected, create a MELSECNET/H network (programmable controller to programmable controller network).

The GOT cannot be connected to the following network.

- MELSECNET/H system (remote I/O network)
- Applicable range for monitoring

A GOT can only monitor a programmable controller on the network where the GOT is connected. Note that the routing parameter setting is required when monitoring the programmable controller CPU on the other network.

Network type setting

• When setting the network type, set all the network modules in the same network to the same network type.

- (The MELSECNET/H mode and MELSECNET/H extended mode cannot be set simultaneously.)
- For the MELSECNET/H connection with the redundant QCPU system, the network type cannot be set to [MNET/H EXT mode].
- When connecting to QCPU (Q mode) For MELSECNET/H network module and QCPU (Q mode), use the function version B or later.
- The motion controller (A series) cannot be connected to the remote I/O station.
- When using the QSCPU

The GOT can only read device data and sequence programs by the ladder monitor function in the QSCPU.

The GOT cannot write any data to the QSCPU.

Precautions on setup

- When changing the switch setting When changing the switch setting after installing the MELSECNET/H communication unit on the GOT, reset the GOT.
- Correctly solder the connector for the coaxial cable. Incomplete soldering causes malfunctions.

Other precautions

- For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later.
- In the redundant QCPU system, the MELSECNET/H extended mode is not available.
- When connecting to motion controller CPU (Q series)
 For Q172CPU or Q173CPU Use the motion controller CPU with the following production numbers. Q172CPU with N******* or later, Q173CPU with N******* or later
 - For Q172CPU, Q173CPU, Q172CPUN, or Q173CPUN For using the SV13, SV22, and SV43, use a motion controller with the following OS installed. SW6RN-SV13Q : 00H or later, SW6RN-SV22Q : 00H or later, SW6RN-SV43Q : 00B or later

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of MELSECNET/H connection 		Chapter 5 in GOT1000 Series Connection Manual (SH- 080532ENG)
For controllers that can be monitored by GOT and accessible range		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with GT SoftGOT1000		Chapter 2 in GT SoftGOT1000 Version2 Operating Manual (SH-080602ENG)
 For controllers that can be monitored by GT SoftGOT1000 and accessible range 	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

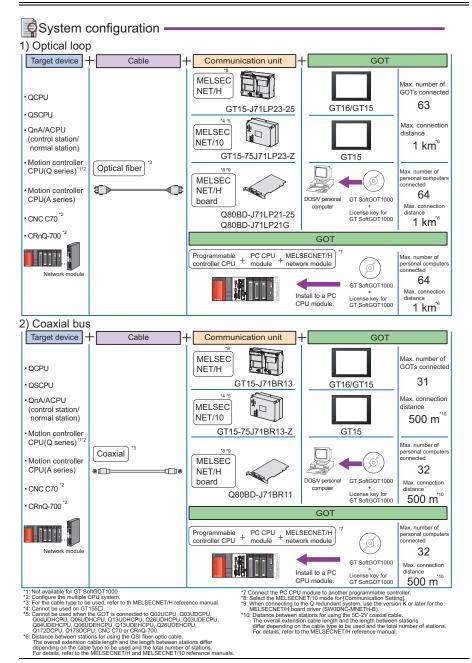
*

1

5

EQUIPMENT, SOFTWARE, AND MANUALS

4.1.7 MELSECNET/10 connection



Available module

CPU series	MELSECNET/H module (NET/10 mode), MELSECNET/10 module			
CF U Selles	Optical loop	Coaxial bus		
MELSEC-Q series (Q mode) ^{*11} MELSEC-QS series	QJ71LP21 QJ71LP21-25 QJ71LP21S-25	QJ71BR11		
MELSEC-QnA series	AJ71QLP21 AJ71QLP21S A1SJ71QLP21 A1SJ71QLP21 A1SJ71QLP21S	AJ71QBR11 A1SJ71QBR11		
MELSEC-Q series (A mode) MELSEC-A series Motion controller CPU (A series)	AJ71LP21 A1SJ71LP21	AJ71BR11 A1SJ71BR11		

*11 Use the CPU and MELSECNET/H network module with the function version B or later.

1

7

EQUIPMENT, SOFTWARE, AND MANUALS



Precautions on system

Connectable network

A GOT is connected to the following network systems as a normal station.

- Optical loop system of MELSECNET/10 network system (programmable controller to programmable controller network)
- Coaxial bus system of MELSECNET/10 network system (programmable controller to programmable controller network)
- When using MELSECNET/H network module

When connecting the MELSECNET/H network module to MELSECNET/10 network system, set the network type to the MELSECNET/10 mode.

Creating network

For the network where a GOT is connected, create a MELSECNET/H network system (programmable controller to programmable controller network) with the MELSECNET/10 mode or a MELSECNET/10 network system (programmable controller to programmable controller network).

The GOT cannot be connected to the following networks.

- MELSECNET/H network system (remote I/O network)
- MELSECNET/10 network system (remote I/O network)
- Applicable range for monitoring

A GOT can only monitor a programmable controller on the network where the GOT is connected. Note that the routing parameter setting is required when monitoring the programmable controller CPU on the other network.

The routing parameter cannot be set with the GT15-75J71LP23-Z and GT15-75J71BR13-Z. Use the GT15-J71LP23-25 or GT15-J71BR13 to set the routing parameter.

- When connecting to QCPU (Q mode) For MELSECNET/H network module and QCPU (Q mode), use the function version B or later.
- With the redundant QCPU system, the MELSECNET/H extended mode is not available.
- When using the QSCPU

The GOT can only read device data and sequence programs by the ladder monitor function in the QSCPU.

The GOT cannot write any data to the QSCPU.

Precautions on setup

- When changing the switch setting When changing the switch setting after installing the MELSECNET/H or MELSECNET/10 communication unit on the GOT, reset the GOT.
- Correctly solder the connector for the coaxial cable. Incomplete soldering causes malfunctions.

Other precautions

- For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later.
- The motion controller (A series) cannot be connected to the remote I/O station.
- When connecting to motion controller CPU (Q series)

 For Q172CPU or Q173CPU Use the motion controller CPU with the following production numbers. Q172CPU with N******* or later, Q173CPU with M****** or later
 For Q172CPU, Q173CPU, Q172CPUN, or Q173CPUN
 For using the SV13, SV22, and SV43, use a motion controller with the following OS installed.
 SW6RN-SV13Q: 00H or later, SW6RN-SV22Q: 00H or later, SW6RN-SV43Q: 00B or later

 Q172nDCPU, CNC C70, and CRnQ-700 only support MELSECNET/H (programmable controller to programmable controller network).

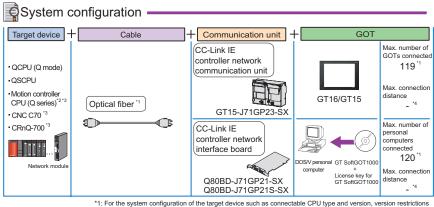
When connecting to MELSECNET/10 (programmable controller to programmable controller network), set MELSECNET/H (programmable controller to programmable controller network) to the MELSECNET/10 mode.

Related Manuals ———				
 For details of system configuration and connection cable 				
 For precautions and restrictions 	\geq	Chapter 6 in GOT1000 Series Connection Manual (SH- 080532ENG)		
 For outlined procedure and checking of MELSECNET/10 connection 	-	UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU		
 For controllers that can be monitored by GOT and accessible range 	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)		

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

1

ол 2



- *1: For the system configuration of the target device such as connectable CPU type and version, version restrictions of the CC-Link IE controller network module, cable, and the number of GOTs connected, refer to CC-Link IE Controller Network Reference Manual.
- *2: GT SoftGOT1000 is not available. *3: Configure the multiple CPU system.
- 4: The overall extension cable length and the length between stations differ depending on the cable type to be used and the total number of stations.
 - For details, refer to CC-Link IE Controller Network Reference Manual.

Available module

CPU series	CC-Link IE controller network module
MELSEC-Q series (Q mode)	QJ71GP21-SX
MELSEC-QS series	QJ71GP21S-SX

Precautions

Precautions on system

Applicable range for monitoring

A GOT can only monitor a programmable controller on the network where the GOT is connected. Note that the routing parameter setting is required when monitoring the programmable controller CPU on the other network.

• When using the QSCPU

The GOT can only read device data and sequence programs by the ladder monitor function in the QSCPU.

The GOT cannot write any data to the QSCPU.

Related Manuals				
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of CC-Link IE controller network connection 		Chapter 7 in GOT1000 Series Connection Manual (SH- 080532ENG)		
For controllers that can be monitored by GOT and accessible range		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)		
For connection method with GT SoftGOT1000	\triangleright	Chapter 2 in GT SoftGOT1000 Version2 Operating Manual (SH-080602ENG)		
 For controllers that can be monitored by GT SoftGOT1000 and accessible range 	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)		

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

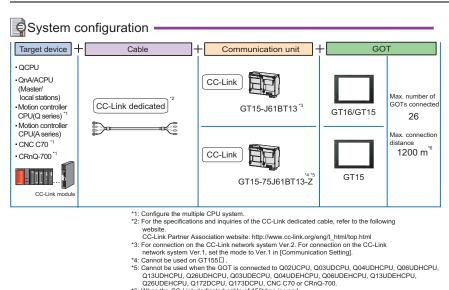
*

COT GOT

5

6

EQUIPMENT, SOFTWARE, AND MANUALS



4.1.9 CC-Link connection (intelligent device station)

*6: When the CC-Link dedicated cable of 156kbps is used The maximum overall extension cable length and the cable length between stations differ depending on the cable type to be used or others.

Available module

CPU series	CC-Link module
MELSEC-Q series (Q mode)	QJ61BT11 QJ61BT11N' ⁷
MELSEC-QnA series	AJ61QBT11 A1SJ61QBT11
MELSEC-Q series (A mode) MELSEC-A series Motion controller CPU (A series)	AJ61BT11 A1SJ61BT11

*7 Use the model applicable to the CC-Link network system Ver.2 or the CC-Link network system Ver.1 with Ver.2.



Precautions on system

- When using cyclic transmission
 - (1) I/O signals from/to master station

Do not turn on reserved output signals among output signals from the master station to a GOT (remote output: RY).

When the reserved output signals are turned on, the programmable controller system may malfunction

(2) Applicable range for monitoring

Applicable ranges for monitoring remote I/O (RX, RY) and remote register (RWr, RWw) differ depending on the master station mode of the CC-Link network system.

Mada of market station	Availability of monitoring	
Mode of master station	Information of CC-Link Ver.1 compatible station	Information of CC-Link Ver.2 compatible station
Remote network mode	0	_
Remote network ver.1 mode	0	_
Remote network ver.2 mode	0	O*1
Remote network additional mode	0	O*1

O : Monitoring enabled, — : Creating system disabled

*1 Available only for using GT15-J61BT13 type CC-Link communication unit.

When using transient transmission

(1) CC-Link module on target station

When using transient transmission to communicate with the following CC-Link modules, mount the CC-Link module with the function version B and the software version J or later on a programmable controller.

When communicating with the CC-Link module with the function version A and the software version I or earlier, only the cyclic transmission is available.

- AJ61BT11 A1SJ61BT11
- AJ61QBT11 A1SJ61QBT11
- (2) Accessible range for monitoring

A GOT can access a programmable controller CPU with the CC-Link module set as the master or local station. The GOT cannot access other networks via the CC-Link module.

Starting GOT with CC-Link connection (intelligent device station) When the CC-Link connection (intelligent device station) is used, the data link starts in about 10 minutes after starting the GOT.

Precautions on setup

When changing the switch setting after installing the GT15-75J65BT13-Z type CC-Link communication unit on a GOT, reset the GOT.

- Setting [Network parameters] of GX Developer
 - When [Mode] of the CC-Link module is set to [Remote net (Ver.2 mode)]. [Remote station points] can be set. The [Remote station points] setting is a setting for the remote I/O station. For a GOT, use the default value (32 points).
 - Set the station information setting to [Ver.1 Intelligent device station] when [Mode] of the CC-Link module is set to [Remote net (Ver.2 mode)] or [Remote net(Additional mode)].

5

Other precautions

- When connecting to motion controller CPU (Q series) For Q172CPU or Q173CPU
 - Use the motion controller CPU with the following production numbers. Q172CPU with N****** or later, Q173CPU with M****** or later
 - For Q172CPU, Q173CPU, Q172CPUN, or Q173CPUN For using the SV13, SV22, and SV43, use a motion controller with the following OS installed. SW6RN-SV13Q : 00H or later, SW6RN-SV22Q : 00H or later, SW6RN-SV43Q : 00B or later
- For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later.
- When an error related to the network occurs as the system alarm When an error related to the network occurs as the system alarm with the CC-Link connection (intelligent device station), the displayed system alarm cannot be erased even though the error factor is removed. Restart a GOT to erase the system alarm.

Related Manuals · For details of system configuration and connection cable Chapter 8 in GOT1000 Series Connection Manual (SH-· For precautions and restrictions >080532ENG) For outlined procedure and checking of CC-Link connection

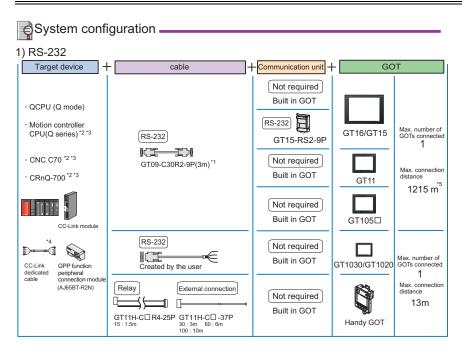
· For controllers that can be monitored by GOT and accessible range

Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)

>For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

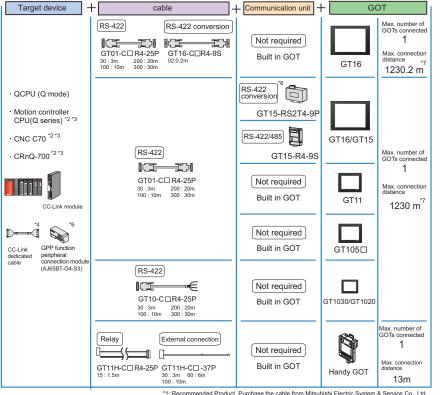
|--|

SOT .
109 2
S OFTWARE
SOF
ာ
N
FUNCTION
4
ION
CONNECTION CONFIGURATION
5 5
COMPLIANCE WITH OVERSEAS STANDARDS
COMPLI WITH O' STANDA
6
LS ALS
EQUIPMENT, SOFTWARE, AND MANUALS
 ARY
 GLOSSARY



4.1.10 CC-Link connection (via G4)

2) RS-422



*1: Recommended Product. Purchase the cable from Mitsubishi Electric System & Service Co., Ltd.

- *2: Configure the multiple CPU system.
- *3: Available only for GT16, GT15, GT11, and Handy GOT.
- *4: For the specifications and inquiries of the CC-Link dedicated cable, refer to the following website.
- CC-Link Partner Association website: http://www.cc-link.org/eng/t_html/top.html
- *5: When the CC-Link dedicated cable of 156Kbps (1200m) and the RS-232 cable (15m) are used.

*7: When the CC-Link dedicated cable of 156Kbps (1200m) and the RS-422 cable (30m) are used.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)

Available module*8

	CPU series	CC-Link module	GPP function peripheral connection module
$M = S = (C_1) series (C) mode)$		QJ61BT11 QJ61BT11N	AJ65BT-R2N AJ65BT-G4-S3
*8 GT11 and GT10 can monitor the master station only.			

2

SOFTWARE

3

CONNECTION CONFIGURATION **F**UNCTION

5

COMPLIANCE WITH OVERSEAS STANDARDS

6

SOFTWARE, AND MANUALS

7

GLOSSARY

Precautions

Precautions on system

AJ65BT-G4 cannot be connected to a GOT.

Precautions on setup

- Setting [Network parameters] of GX Developer
 - When [Mode] of the CC-Link module is set to [Remote net (Ver.2 mode)], [Remote station points] can be set. The [Remote station points] setting is a setting for the remote I/O station. For a GOT, use the default value (32 points).
 - Set the station information setting to [Ver.1 Intelligent device station] when [Mode] of the CC-Link module is set to [Remote net (Ver.2 mode)] or [Remote net(Additional mode)].

Other precautions

- When connecting to motion controller CPU (Q series)
 - For Q172CPU or Q173CPU Use the motion controller CPU with the following production numbers. Q172CPU with N****** or later, Q173CPU with M****** or later
 - For Q172CPU, Q173CPU, Q172CPUN, or Q173CPUN
 For using the SV13, SV22, and SV43, use a motion controller with the following OS installed.
 SW6RN-SV13Q
 : 00H or later, SW6RN-SV22Q
 : 00H or later, SW6RN-SV43Q
 : 00B or later
- For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later. For connecting the GOT to the Q17nDCPU, CNC C70, and CRnQ-700, set the system to the CC-Link network system Ver.2.

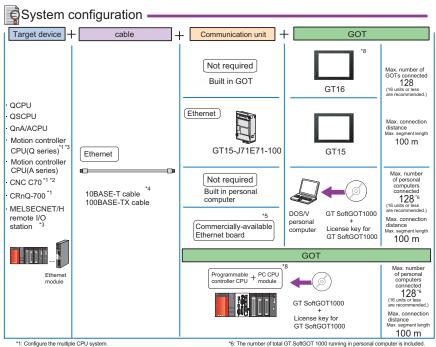
Related Manuals · For details of system configuration and connection cable Chapter 9 in GOT1000 Series Connection Manual (SH-· For precautions and restrictions >080532ENG) For outlined procedure and checking of CC-Link connection · For controllers that can be monitored by GOT and Chapter 2 in GT Designer2 Version2 Screen Design accessible range Manual (For GOT1000 Series) (SH-080530ENG) Chapter 10 in Handy GOT User's Manual · For connection method with Handy GOT \sum (JY997D20101)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

|--|

ŝoT
100 2
SOFTWARE
SOFI
3
z
FUNCTION
<u>4</u>
ON ATION
CONNECTION CONFIGURATION
5 ∽
ANCE ERSEA RDS
COMPLIANCE WITH OVERSEAS STANDARDS
<u>6</u>
LS L
EQUIPMENT, SOFTWARE, AND MANUALS
7
۲۲ ۲
GLOSSARY
G

4.1.11 Ethernet connection



*2: Connecting to Display I/F *3: GT SoftGOT1000 is not available.

4: Use a cable that supports an Ethernet module and Ethernet board/card to be used.
*5: For available Ethernet boards/cards, refer to the following page.

The number of total of solicity in two numbers in personal computer is includer.
 Connect the PC CPU module to another programmable controller.
 When connecting GT16 to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

Available module

CPU series		Ethernet module*9
MELSEC-Q series (Q mode) MELSEC-QS series	QJ71E71-100 QJ71E71-B5 QJ71E71-B2 QJ71E71	
MELSEC-QnA series	AJ71QE71N3-T AJ71QE71N-B5 AJ71QE71N-B2 AJ71QE71N-T AJ71QE71N-B5T AJ71QE71 AJ71QE71 AJ71QE71-B5	A1SJ71QE71N3-T A1SJ71QE71N-B5 A1SJ71QE71N-B2 A1SJ71QE71N-T A1SJ71QE71N-B5T A1SJ71QE71-B5 A1SJ71QE71-B5 A1SJ71QE71-B2
MELSEC-Q series (A mode) MELSEC-A series Motion controller CPU (A series)	AJ71E71N3-T AJ71E71N-B5 AJ71E71N-B2 AJ71E71N-T AJ71E71N-T AJ71E71N-B5T AJ71E71-S3	A1SJ71E71N3-T A1SJ71E71N-B5 A1SJ71E71N-B2 A1SJ71E71N-T A1SJ71E71N-B5T A1SJ71E71-B5-S3 A1SJ71E71-B2-S3

2

3

6

When the A series Ethernet module is used for the QnACPU, the devices that can be monitored are only devices *9 with the same name as the devices in the device range of the AnACPU.

Note that the following devices cannot be monitored.

- · Devices newly added to the QnACPU
- · Latch relays (L) and step relays (S) (For the QCPU/QnACPU, the latch relay (L) and step relay (S) are different from the internal relay (M). However, the internal relay is accessed even if the latch relay or the step relay is specified.)
- · File register (R)

Available Ethernet board/card for GT SoftGOT1000

Manufacturer	Model	Remark
3Com Corporation		Ethernet board/card
-	Ethernet board included in personal computer as standard	Ethernet board

Precautions

Precautions on system

The target device of an Ethernet cable differs depending on the Ethernet network system configuration to be used.

Connect the cable to the system devices, including Ethernet modules, hubs, and transceivers, according to the Ethernet network system to be used.

- Communication via network system A GOT cannot access a programmable controller on other network via a programmable controller (the network module, Ethernet module, and others) on the network where the GOT is connected.
- When connecting to the QnA(S)CPU type For the Ethernet module (QnA series) and programmable controller CPU (QnA/QnASCPU types), use the function version B or later.

When connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance.

- Use a switching hub.
- Use the high-speed 100BASE-TX (100Mbps).
- Reduce the GOT monitoring points.
- The motion controller (A series) cannot be connected to the remote I/O station.
- Applicable range for monitoring

A GOT can monitor a programmable controller on the network where the GOT is connected and on the other networks. The routing parameter setting is required when monitoring a programmable controller CPU on the other networks.

When using the QSCPU

The GOT can only read device data and sequence programs by the ladder monitor function in the QSCPU.

The GOT cannot write any data to the QSCPU.

Other precautions

- When connecting to motion controller CPU (Q series)
 - For Q172CPU or Q173CPU Use the motion controller CPU with the following production numbers. Q172CPU with N****** or later, Q173CPU with M****** or later
 - For Q172CPU, Q173CPU, Q172CPUN, or Q173CPUN For using the SV13, SV22, and SV43, use a motion controller with the following OS installed. SW6RN-SV13Q : 00H or later. SW6RN-SV22Q : 00H or later. SW6RN-SV43Q : 00B or later
- For connecting the GOT to the multiple CPU system (Q00CPU, Q01CPU, Q02CPU, Q02HCPU, Q06HCPU, Q12HCPU, and Q25HCPU), use CPUs with the function version B or later.
- When the A series Ethernet module is used for the QnACPU, the QnACPU cannot be monitored with GT SoftGOT1000

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of Ethernet connection 		Chapter 10 in GOT1000 Series Connection Manual (SH- 080532ENG)
 For controllers that can be monitored by GOT and accessible range 	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with GT SoftGOT1000		Chapter 2 in GT SoftGOT1000 Version2 Operating Manual (SH-080602ENG)
 For controllers that can be monitored by GT SoftGOT1000 and accessible range 	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)

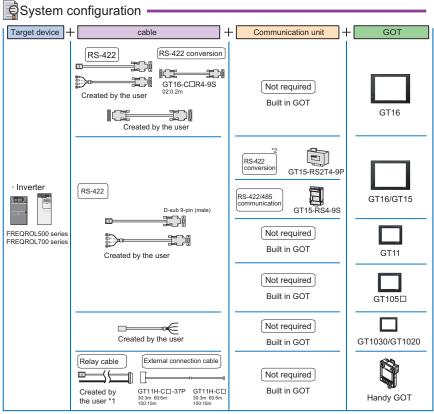
* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

Μ	E	Μ	ο

_
GOT
2
_
SOFTWARE
sor
_ ວ
EUNCTION 4
4
CONNECTION CONNECTION
- 5
ANCE ERSEA
COMPLIANCE WITH OVERSEAS
6
_
EQUIPMENT, SOFTWARE,
EQUI
- 7
GLOSSARY
0

4.2 Other MITSUBISHI controllers

4.2.1 Inverter connection



*1: When using GT11H-C□-37P *2: Use GT15-RS4-9S for using GT155□.

Connectable models

Model	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	×

The GOT model to be used differs depending on the connection type.

Series Connection type GOT model to be used		GOT model to be used			
		RS-232 or RS-422 connections	GT115Q_BD		
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA		
Handy GOT RS-232 or RS-422 connections		RS-232 or RS-422 connections	GT115 HS-Q BD		
GT105 RS-232 or RS-422 connections		RS-232 or RS-422 connections	GT105Q_BD		
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2		
GT10	GT10 GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,		
GT1020 F		RS-422 connection	GT1020-LBL/GT1020-LBLW		
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)		

Precautions

Precautions on system

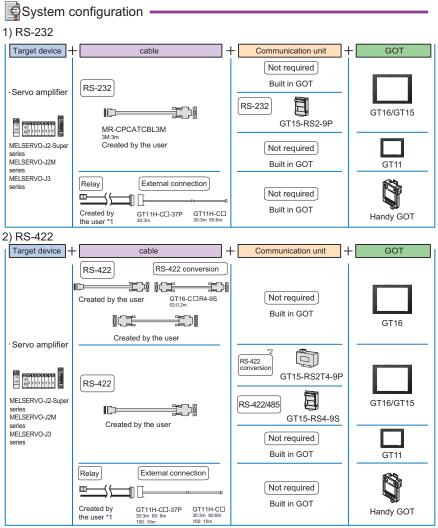
- Clock setting of GOT The inverter does not have the clock function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).
- Do not change various communication parameters of the inverter with a GOT. When the communication parameters of the inverter are changed, the GOT cannot communicate with the inverter.
- Be sure to use GD for the screen switching device and system information device.

Related Manuals —		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of inverter connection 		Chapter 37 in GOT1000 Series Connection Manual (SH-080532ENG)
For controllers that can be monitored by GOT and accessible range		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 35 in Handy GOT User's Manual (JY997D20101)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

2

4.2.2 Servo amplifier connection



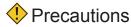
*1: When using GT11H-C□-37P *2 Use GT15-RS4-9S for using GT155□.

Connectable models

Model		RS-422	RS-232
MELSERVO-J3 series	MR-J3 🗆 A	0	0
WEEGERV0-00 Sches	MR-J3□T	0	0
MELSERVO-J2-Super series	MR-J2S-□A	0	0
WEEGERV0-02-Ouper series	MR-J2S- CP	0	0
MELSERVO-J2M series	MR-J2M-P8A	0	0
	MR-J2M DU	0	0

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD



Precautions on system

Clock setting of GOT

The servo amplifier does not have the clock function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

Other precautions

Test operation of servo amplifier with GOT

When communication between a GOT and a servo amplifier is aborted for 0.5[ms] or more during the test operation of the servo amplifier, the servo amplifier makes the servo motor decelerate and stop, and then the servo motor locks.

During the test operation of the servo amplifier, keep the communication between the GOT and servo amplifier executed with monitoring the servo amplifier status and others.

 \triangleright

>

>

(SH-080532ENG)

(JY997D20101)

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of servo amplifier connection
- For controllers that can be monitored by GOT and accessible range
- For connection method with Handy GOT
- * For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

2

5

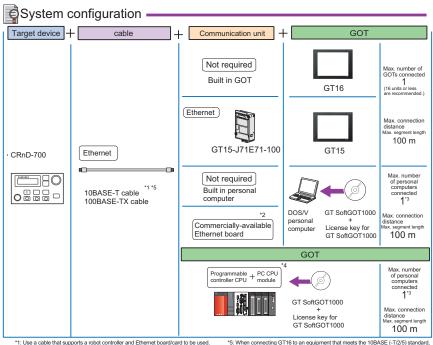
Chapter 38 in GOT1000 Series Connection Manual

Chapter 2 in GT Designer2 Version2 Screen Design

Manual (For GOT1000 Series) (SH-080530ENG)

Chapter 36 in Handy GOT User's Manual

4.2.3 Robot controller connection



To be a called either apporter to cards/cards, refer to the following page.
 *3: The number of total GT SoftGOT1000 running in personal computer is included.

*3: The number of total GT SoftGOT1000 running in personal computer is inclu *4: Connect the PC CPU module to another programmable controller. *5: When connecting GT16 to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

Available Ethernet board/card for GT SoftGOT1000

Manufacturer	Model	Remark
3Com Corporation	EthernetLink III LAN PC Card	Ethernet board/card
-	Ethernet board included in personal computer as standard	Ethernet board

Precautions

Precautions on system

The target device of an Ethernet cable differs depending on the Ethernet network system configuration to be used.

Connect the cable to the system devices, including robot controllers, and hubs, according to the Ethernet network system to be used.

- Communication via network system A GOT cannot access a programmable controller on other network via a programmable controller (the network module, Ethernet module, and others) on the network where the GOT is connected.
- When connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance.
 - Use a switching hub.
 - Use the high-speed 100BASE-TX (100Mbps).
 - · Reduce the GOT monitoring points.
- Applicable range for monitoring

A GOT can monitor a programmable controller on the network where the GOT is connected and on the other networks. The routing parameter setting is required when monitoring a programmable controller CPU on the other networks.

Related Manuals

- · For details of system configuration and connection cable
- · For precautions and restrictions For outlined procedure and checking of Robot

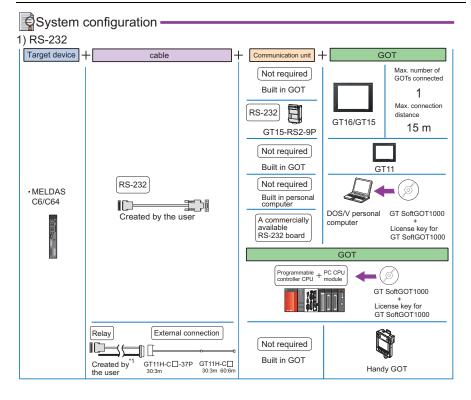
Chapter 39 in GOT1000 Series Connection Manual (SH-080532ENG)

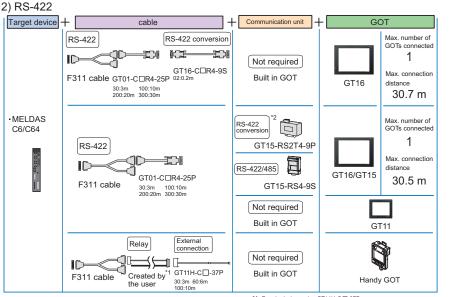
controller connection		
 For controllers that can be monitored by GOT and accessible range 	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with GT SoftGOT1000	\triangleright	Chapter 2 in GT SoftGOT1000 Version2 Operating Manual (SH-080602ENG)
 For controllers that can be monitored by GT SoftGOT1000 and accessible range 	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller,

4.2.4 CNC (MELDAS C6/C64) connection

Direct CPU connection





*1: Required when using GT11H-C -37P *2: Use GT15-RS4-9S for using GT155 .

Connectable models

		Connection type			
Series	Model	Direct CPU connection			
		GT16/GT15	GT11	GT SoftGOT1000	
MELDAS C6/C64	FCA C6	0	0	0	
WIELD/10 00/004	FCA C64	0	0	0	

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

7

1

2

SOFTWARE

3

CONNECTION CONFIGURATION **F**UNCTION

5

COMPLIANCE WITH OVERSEAS STANDARDS



Precautions on system

Version of MELDAS C6/C64 For MELDAS C6/C64, use the NC system software version D0 or later.

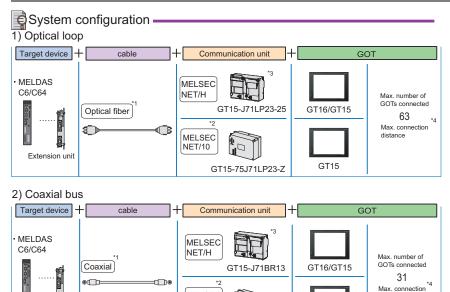
Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of CNC connection 		Chapter 40 in GOT1000 Series Connection Manual (SH-080532ENG)
For controllers that can be monitored by GOT and accessible range	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT		Chapter 37 in Handy GOT User's Manual (JY997D20101)
For connection method with GT SoftGOT1000	\triangleright	Chapter 2 in GT SoftGOT1000 Version2 Operating Manual (SH-080602ENG)
For controllers that can be monitored by GT SoftGOT1000 and accessible range		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

|--|

о 2
2
S OFTWARE
SOF
NO
4
CONNECTION P FUNCTION
5 ي
ANCE /ERSEA
COMPLIANCE WITH OVERSEAS STANDARDS
6
TR .
EQUIPMENT, SOFTWARE, AND MANUALS
7
RY
GLOSSARY
U

MELSECNET/10 connection



MELSEC

NET/10

Connectable models

Extension unit

		Connection type		
Series	Model	MELSECNET/10 connection		
		GT16/GT15	GT11	GT SoftGOT1000
MELDAS C6/C64	FCA C6	0	×	×
MEEDAO OO/OO4	FCA C64	0	×	×

GT15-75J71BR13-Z

*2: Cannot be used on GT155 .

MELDAS C6/C64 NETWORK MANUAL

distance

GT15

*3: Select the MELSECNET/10 mode in [Communication Settings].
*4: The overall distance and the distance between stations vary depending on the cable types to be used and the total number of stations. For details, refer to the following manuals.
MELDAS C6/C64 CONNECTION AND MAINTENANCE MANUAL

*1: For the cable type to be used, refer to th MELSECNET/H reference manual.

Available module for MELDAS C6/C64 connection

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

Precautions on system

Connectable network

A GOT is connected to the following network systems as a normal station.

- Optical loop system of MELSECNET/10 network system (programmable controller to programmable controller network)
- Coaxial bus system of MELSECNET/10 network system (programmable controller to programmable controller network)
- When using MELSECNET/H network module

When connecting the MELSECNET/H network module to MELSECNET/10 network system, set the network type to the MELSECNET/10 mode.

Creating network

For the network including a GOT, create a MELSECNET/H network system (programmable controller to programmable controller network) with the MELSECNET/10 mode or a MELSECNET/10 network system (programmable controller to programmable controller network).

The GOT cannot be connected to the following networks.

- MELSECNET/H network system (remote I/O network)
- MELSECNET/10 network system (remote I/O network)
- Applicable range for monitoring

A GOT can only monitor a programmable controller and CNC on the network where the GOT is connected. Note that the routing parameter setting is required when monitoring the programmable controller CPU and CNC on the other networks.

The routing parameter cannot be set with the GT15-75J71LP23-Z and GT15-75J71BR13-Z. Use the GT15-J71LP23-25 or GT15-J71BR13 to set the routing parameter.

Version of CNC

For MELDAS C6/C64, use the NC system software version D0 or later.

- Starting GOT with CNC connection (MELSECNET/10 connection) When the CNC connection (MELSECNET/10 connection) is used, the data link starts in about 10 minutes after starting the GOT.
- When an error related to the network occurs as the system alarm When an error related to the network occurs as the system alarm with CNC connection (MELSECNET/10 connection), the displayed system alarm cannot be erased even though the error factor is removed. Restart a GOT to erase the system alarm.

Precautions on setup

- When changing the switch setting When changing the switch setting after installing the MELSECNET/H or MELSECNET/10 communication unit on the GOT, reset the GOT.
- Correctly solder the connector for the coaxial cable. Incomplete soldering causes malfunctions.

Related Manuals

- · For details of system configuration and connection cable
- · For precautions and restrictions
- · For outlined procedure and checking of MELSECNET/10 connection
- · For controllers that can be monitored by GOT and accessible range



Chapter 40 in GOT1000 Series Connection Manual (SH-080532ENG)

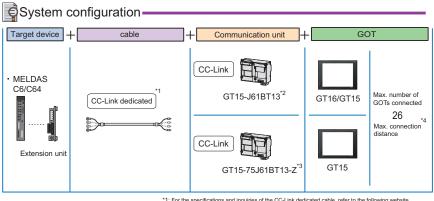
- Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
- For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

2

5

GLOSSARY





*1: For the specifications and inquiries of the CC-Link dedicated cable, refer to the following website.

1. For the specifications and informes of the Co-trink dedicated cash, there to the follow CC-Link Partner Association website: http://www.cc-Link.org/eng/t_html/top.html *2: For connection on the CC-Link network system Ver.2. For connection on the CC-Link network system Ver.1, set the mode to Ver.1 in [Communication Setting].

*3: Cannot be used on GT155 .

*4: The overall distance and the distance between stations vary depending on the cable types to be used and the total number of stations.

For details, refer to the following manuals. • MELDAS C6/C64 CONNECTION AND MAINTENANCE MANUAL

·MELDAS C6/C64 NETWORK MANUAL

Connectable models

		Connection type		
Series	Model	CC-Link (intelligent device station) connection		
		GT16/GT15	GT11	GT SoftGOT1000
MELDAS C6/C64	FCA C6	0	×	×
WILLDAG CO/CO4	FCA C64	0	×	×

Available module for MELDAS C6/C64 connection

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

2

6

AND MANUAL

3LOSSARY

Precautions

Precautions on system

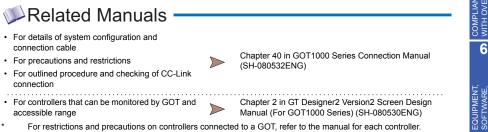
- When using cyclic transmission
 - (1) I/O signals from/to master station Do not turn on reserved output signals among output signals from the master station to a GOT (remote output: RY).
 - When the reserved output signals are turned on, MELDAS (C6/C64) may malfunction.
 - (2) CC-Link mode The CNC is not applicable to the CC-Link network system Ver.2.
- When using transient transmission
 - (1) Accessible range for monitoring
 - A GOT can access a programmable controller CPU with the CC-Link module set as the master or local station. The GOT cannot access other networks via the CC-Link module.
- Starting GOT with CC-Link connection (intelligent device station) When the CC-Link connection (intelligent device station) is used, the data link starts in about 10 minutes after starting the GOT.
- Version of MELDAS C6/C64 For MELDAS C6/C64, use the NC system software version D0 or later.

Precautions on setup

- When changing the switch setting after installing the GT15-75J61BT13-Z type CC-Link communication unit on a GOT, reset the GOT.
- Setting [Network parameters] of GX Developer
 - When [Mode] of the CC-Link module is set to [Remote net (Ver.2 mode)], [Remote station points] can be set. The [Remote station points] setting is a setting for the remote I/O station. For a GOT, use the default value (32 points).
 - · Set the station information setting to [Ver.1 Intelligent device station] when [Mode] of the CC-Link module is set to [Remote net (Ver.2 mode)] or [Remote net (Additional mode)].

Other precautions

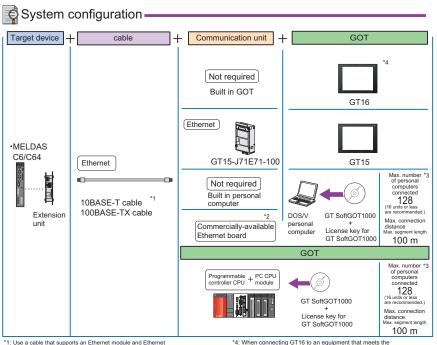
When an error related to the network occurs as the system alarm When an error related to the network occurs as the system alarm with the CC-Link connection (intelligent device station), the displayed system alarm cannot be erased even though the error factor is removed. Restart a GOT to erase the system alarm.



For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.2 Other MITSUBISHI controllers 4.2.4 CNC (MELDAS C6/C64) connection

Ethernet connection



*1: Use a cable that supports an Ethernet module and Ethernet

10 USE a Caute that supports all currently include and currently board/card to be used.
 *2: For available Ethernet boards/cards, refer to the following page.
 *3: The number of total GT SoftGOT 1000 running in personal computer is included.

Connectable models

		Connection type		
Series	Model	Ethernet connection		
		GT16/GT15	GT11	GT SoftGOT1000
MELDAS C6/C64	FCA C6	0	×	×
MEEDAG CO/CO4	FCA C64	0	×	×

10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

Available Ethernet board/card for GT SoftGOT1000

Manufacturer	Model	Remarks	
3Com Corporation	EthernetLink III LAN PC Card	Ethernet board/card	
Ethernet board included in persona computer as standard		Ethernet board	

Available module for MELDAS C6/C64 connection

Series	Ethernet module
MELDAS C6/C64	FCU6-EX875

Precautions

Precautions on system

The target device of an Ethernet cable differs depending on the Ethernet network system configuration to be used.

Connect the cable to the system devices, including Ethernet modules, hubs, and transceivers, according to the Ethernet network system to be used.

- Communication via network system A GOT cannot access a CNC on other network via a CNC (the network module. Ethernet module, and others) on the network where the GOT is connected.
- When connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance.
 - Use a switching hub.
 - Use the high-speed 100BASE-TX (100Mbps).
 - · Reduce the GOT monitoring points.
- Applicable range for monitoring

A GOT can only monitor a programmable controller on the network where the GOT is connected. Note that the routing parameter setting is required when monitoring the programmable controller CPU on the other network.

Version of MELDAS C6/C64 For MELDAS C6/C64, use the NC system software version D0 or later.

Precautions on setup

A GOT cannot access a MELDAS (C6/C64) on other network via a MELDAS (C6/C64) (the network module, Ethernet module, and others) on the network where the GOT is connected.

 \sum

 \sum

Connecting Ethernet cable

Keep a distance between the Ethernet cable and power line or electric power line, and run the Ethernet cable through ferrite cores (included) at positions close to control devices so that the Ethernet cable is not affected by noise.

(SH-080532ENG)

Manual (SH-080602ENG)

Related Manuals

- · For details of system configuration and connection cable
- · For precautions and restrictions
- · For outlined procedure and checking of CNC connection
- · For controllers that can be monitored by GOT and accessible range
- For connection method with GT SoftGOT1000
- · For controllers that can be monitored by GT SoftGOT1000 and accessible range
- For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

5

6

181

Chapter 40 in GOT1000 Series Connection Manual

Chapter 2 in GT Designer2 Version2 Screen Design

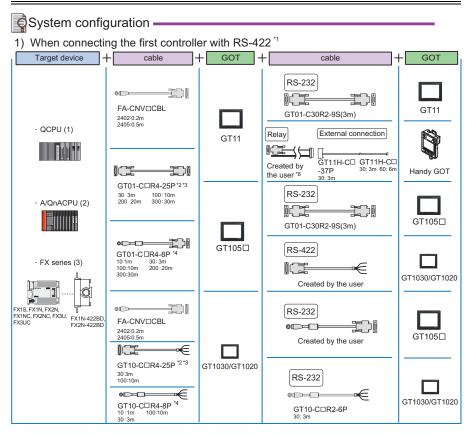
Manual (For GOT1000 Series) (SH-080530ENG)

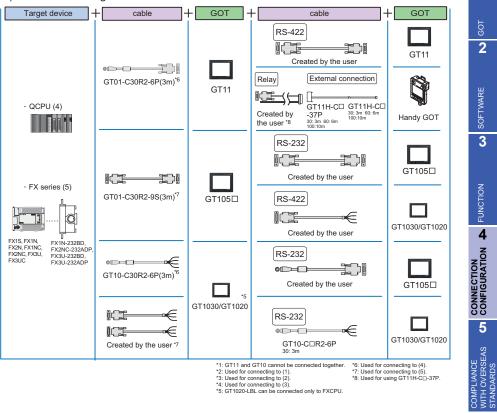
Chapter 2 in GT SoftGOT1000 Version2 Operating

Chapter 2 in GT Designer2 Version2 Screen Design

Manual (For GOT1000 Series) (SH-080530ENG)

4.2.5 Multiple-GT11/GT10 connection





2) When connecting the first controller with RS-232^{*1}

*6: Used for connecting to (4). *7: Used for connecting to (5). *8: Used for using GT11H-C□-37P.

*3: Used for connecting to (2). *4: Used for connecting to (3).

*5: GT1020-LBL can be connected only to FXCPU.

EQUIPMENT, SOFTWARE, AND MANUALS 7

6

The GOT model to be used differs depending on the connection type.

Series		Connection type	GOT model to be used		
		RS-232 or RS-422 connections	GT115Q_BD		
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA		
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD		
	GT105	RS-232 or RS-422 connections	GT105Q_BD		
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2		
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,		
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW		
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)		

Precautions

Precautions on system

- When connecting a GOT to the MITSUBISHI programmable controller with the following connection type, the multiple-GT11/GT10 connection function can be used.
 Direct CPU connection
- GOT communication timing

Adjust the communication timing as described below so that GOTs communicate with a controller (MITSUBISHI programmable controller) in number order (starting from the first connected GOT) after the GOTs are turned on.

When the communication is disabled, retry the communication. A communication error occurs when the time-out period passes.

(1) When turning on GOTs simultaneously

When it takes a long time to start communication of the second GOT, a communication error may occur.

For the time that the startup screen is displayed, set the longer time for the second GOT than the first GOT. (Example: First GOT (5 minutes)) \rightarrow Second GOT (10 minutes))

A GOT does not communicate with a controller during displaying the startup screen.

For adjusting the time of the startup screen, refer to GT11 User's Manual (JY997D17501C).

- (2) When turning on GOTs respectively When the first GOT is turned on sometime after the second GOT is turned on, the communication start of the second GOT delays. Therefore, a communication error may occur on the second GOT. Turn on a controller, the first GOT, and the second GOT, in that order.
- Using the function with FA transparent function

When connecting multiple GOTs, the FA transparent function cannot be used with connecting a personal computer to the RS-232 interface or USB interface of the GOT.

 Conditions for making GOTs stop monitoring in the system where multiple GOTs are connected In the system where multiple GOTs are connected, when the following operations are executed on the first GOT (close to the programmable controller), the first GOT stops monitoring, and the second GOT also stops monitoring.

When the first GOT restarts monitoring, the second GOT also restarts monitoring.

- (1) When the project data is downloaded/uploaded, or OS is installed with GT Designer2
- (2) When a GOT is set up
- When power-off of a programmable controller occurs in the system where multiple GOTs are connected When the power-off of a programmable controller occurs or when the communication between a programmable controller and the first GOT stops because of the communication cable disconnection and others, time-out wait occurs for the communication request from the second GOT to the first GOT. As a result, it takes a long time to restart communications between the programmable controller and the first GOT.

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of multiple- GT11/GT10 connection 		Chapter 51 in GOT1000 Series Connection Manual (SH-080532ENG)
 For controllers that can be monitored by GOT and accessible range 	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 38 in Handy GOT User's Manual (JY997D20101)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

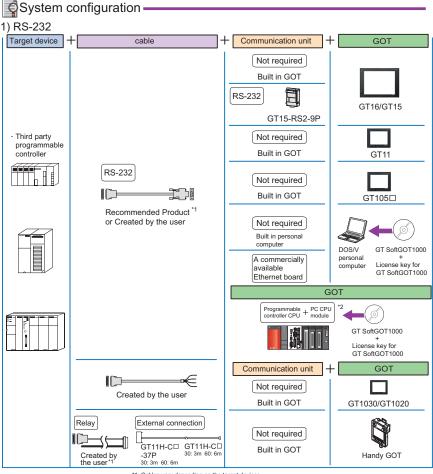
1

COT GOT

4.3 Third Party Programmable Controller

4.3.1 Connection type

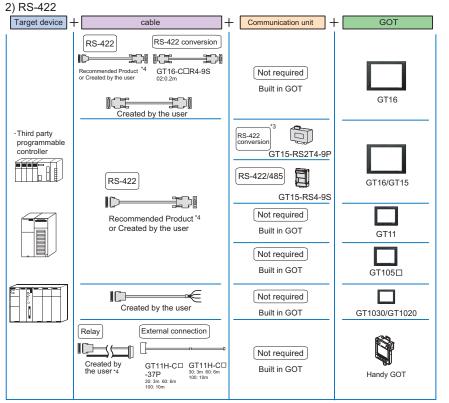
The following shows connection with a third party programmable controller. The available connection type and GOT differ according to the manufacturer. For details, refer to the section for each programmable controller.



*1: Cables vary depending on the target devices.

For details, refer to 6.EQUIPMENT, SOFTWARE, AND MANUALS and GOT1000 Series Connection Manual. *2: Used for using GT11H-C□-37P.

*3: Connect the PC CPU module to another programmable controller.



*4: Cables vary depending on the target devices. For details, refer to 6.EQUIPMENT, SOFTWARE, AND MANUALS and GOT1000 Series Connection Manual. *5: Use GT15-RS4-9S for using GT155 . *6: Used for using GT11H-C -37P.

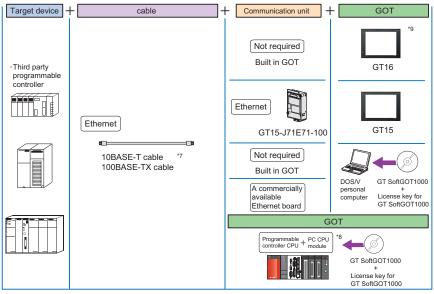
2

SOFTWARE

3

CONNECTION CONFIGURATION **A** FUNCTION

3) Ethernet



'7: Use a cable that supports an Ethernet module and Ethernet board/card to be used.
'8: Connect the PC CPU module to another programmable controller.
'9: When connecting GT16 to an equipment that meets the 10BASE (T7/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

4.3.2 OMRON programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

		G	T16/GT15/	(GT11/GT1	0	GT SoftGOT1000				
Series	Model		iter link ection	Direct			iter link ection		t CPU ection	
		RS-422	RS-232	RS-422	RS-232	RS-422	RS-232	RS-422	RS-232	
	CPM1A				×				×	
	CPM1				~				~	
SYSMAC CPM	CPM2A	×	0		0				0	
	CPM2C				×				×	
SYSMAC CQM1H	CQM1H									
	CJ1H	t			~			×	_	
SYSMAC CJ1	CJ1G	1			0		×		0	
	CJ1M			×						
SYSMAC CP1	CP1H	1		~	×	×			×	
	CP1L	_	0		×				×	
	C200HX	0			0				0	
SYSMAC α	C200HG	-			0				\cup	
	C200HE				×				×	
	CS1H	Ť								
SYSMAC CS1	CS1G	1								
	CS1D	1								
	CV500				0				_	
SYSMAC CVM1/CV	CV1000			0					0	
	CV2000	×	×	0						
	CVM1	1								
	CQM1				O*1					
	C200HS			1	1	1				
-	C200H		0	×	×					
	C1000H	0			×				×	
	C2000H									

*1 CQM1-CPU11 does not have the RS-232 interface and cannot connect to a GOT.

The GOT model to be used differs depending on the connection type.

Series Connection type GOT model to be used		GOT model to be used		
RS-232 or RS-422 connections		RS-232 or RS-422 connections	GT115Q_BD	
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA	
Handy GOT RS-232 or RS-422 connections		RS-232 or RS-422 connections	GT115_HS-Q_BD	
	GT105 RS-232 or RS-422 connections		GT105Q_BD	
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2	
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,	
GT1020		RS-422 connection	GT1020-LBL/GT1020-LBLW	
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)	

1

2

Available unit for computer link connection

Unit	RS-422	RS-232
Host link unit/ Communication unit/ Communication board	C200H-LK202-V1 C500-LK201-V1 CQM1-SCB41 CJ1W-SCU41 CJ1W-SCU21-V1+CP1W-EXT01 CS1W-SCB41 C200HW-COM03 C200HW-COM06 CP1W-CIF11	C200H-LK201-V1 C500-LK201-V1 CS1W-SCU21 CS1W-SCB21 CJ1W-SCU21-V1 CJ1W-SCU21-V1 CJ1W-SCU21-V1+CP1W-EXT01 CJ1W-SCU21-V1+CP1W-EXT01 CJ1W-SCU41 C200HW-COM05 C200HW-COM05 C200HW-COM06 CQM1-CIF01 CQM1-CIF01 CQM1-CIF01 CPM2-CIF01-V1 CP1W-CIF01

Precautions

Precautions on system

 When connecting a GOT to the OMRON programmable controller, set a terminating resistor for the programmable controller.
 The OOT have a birth in terminating resistor.

The GOT has a built-in terminating resistor.

- Small-sized programmable controller that cannot be connected CQM1-CPU11 does not have the RS-232C interface and cannot connect to a GOT.
- Connecting to C200HE Connect a GOT to the C200HE via a rack type host link unit or a communication board.
- For C200HE-CPU11, a communication board cannot be installed. Use a host link unit.

Precautions on setup

 Polar difference between GOT and OMRON product For signal names, poles A and B are reversed between a GOT and an OMRON product.

Related Manuals

Ear datails of overtain configuration and connection

 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking for OMRON programmable controller connection 		Chapter 11 in GOT1000 Series Connection Manual (SH-080532ENG)	
For controllers that can be monitored by GOT and accessible range		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)	
For connection method with Handy GOT		Chapter 11 in Handy GOT User's Manual (JY997D20101)	
For connection method with GT SoftGOT1000	\triangleright	Chapter 2 in GT SoftGOT1000 Version2 Operating Manual (SH-080602ENG)	
For controllers that can be monitored by GT SoftGOT1000 and accessible range For restrictions and precautions on controllers of		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG) d to a GOT, refer to the manual for each controller.	

4.3.3 KEYENCE programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1. **Connectable GOT**



Connectable models

Series	Computer lin	nk connection	Direct CPU connection		
Series	RS-422/485	RS-232	RS-422/485	RS-232	
KV-700		0		0	
KV-1000	0	0	×	0	
KV-3000	0	0	×	0	
KV-5000	0	0	×	×	

The GOT model to be used differs depending on the connection type.

Series Conner		Connection type	GOT model to be used
	RS-232 or RS-422 connection		GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105 RS-232 or RS-422 connections		GT105Q_BD
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)

Available unit for computer link connection

Unit	RS-422	RS-232
Multi-communication unit	KV-L20	KV-L20R KV-L20 KV-L20V

Precautions

Precautions on system

When connecting a GOT to the KEYENCE programmable controller, set terminating resistors for the programmable controller and a GOT.

Related Manuals

- · For details of system configuration and connection cable
- · For precautions and restrictions
- · For outlined procedure and checking for KEYENCE programmable controller connection
- · For controllers that can be monitored by GOT and accessible range
- · For connection method with Handy GOT



Chapter 12 in GOT1000 Series Connection Manual (SH-080532ENG)

Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)	
Chapter 12 in Handy GOT User's Manual (JY997D20101)	•••

>For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

>

3

5

6

4.3.4 KOYO El programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1. Connectable GOT



Connectable models

Opring	Model	Computer lin	k connection	Direct CPU connection		
Series	woder	RS-422	RS-232	RS-422	RS-232	
	SU-5E	0	0	0	0	
KOSTAC	SU-6B	0	0	0	0	
SU series	SU-5M	0	0	0	0	
	SU-6M	0	0	0	0	
PZ series	PZ3	×	×	0	0	
DirectLOGIC	D2-240	0	0	×	0	
205 series	D2-250-1	0	0	0	0	
200 30103	D2-260	0	0	0	0	
	D0-05AA	0	0	×	0	
	D0-05AD	0	0	×	0	
	D0-05AR	0	0	×	0	
DirectLOGIC	D0-05DA	0	0	×	0	
05 series	D0-05DD	0	0	×	0	
	D0-05DD-D	0	0	×	0	
	D0-05DR	0	0	×	0	
	D0-05DR-D	0	0	×	0	
	D0-06DD1	0	0	0	0	
	D0-06DD2	0	0	0	0	
	D0-06DR	0	0	0	0	
DirectLOGIC	D0-06DA	0	0	0	0	
06 series	D0-06AR	0	0	0	0	
	D0-06AA	0	0	0	0	
	D0-06DD1-D	0	0	0	0	
	D0-06DD2-D	0	0	0	0	
	D0-06DR-D	0	0	0	0	

The GOT model to be used differs depending on the connection type.

Series Connection type GOT model to be used		GOT model to be used	
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Available unit for computer link connection

Unit	RS-422	RS-232
	U-01DM	U-01DM
Data Communications module	D2-DCM	D2-DCM
	D0-DCM	D0-DCM

Precautions

Precautions on system

When connecting a GOT to the KOYO EI programmable controller, set a terminating resistor for the programmable controller. The GOT has a built-in terminating resistor.

Clock setting of GOT The GOT clock function is available only for the PLC with a calendar function. Note:Although the "time adjusting" and "time broadcast" functions can be selected on the GOT, the "time broadcast" function is not available.

Do not select the "time broadcast" function. If both of the functions are selected, not only the "time broadcast" function but also the "time adjusting" function will be disabled.

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking for KOYO EI programmable controller connection 		Chapter 12 in GOT1000 Series Connection Manual (SH-080532ENG)
For controllers that can be monitored by GOT and accessible range	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 12 in Handy GOT User's Manual

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

2

6

5

4.3.5 SHARP programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Computer lin	k connection	Direct CPU connection	
Series	RS-422	RS-232	RS-422	RS-232
JW-21CU				
JW-31CUH	0	×	×	×
JW-50CUH				
JW-22CU				•
JW-32CUH				
JW-33CUH	0		0	*1
JW-70CUH	0	×	0	1
JW-100CUH				
JW-100CU				
Z-512J	×	×	С	*1

*1 Either RS-422 or RS-232 interface can be selected.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD

Available unit for computer link connection

Unit	RS-422	RS-232
	JW-21CM	
Link unit	JW-10CM	-
	ZW-10CM	

Precautions

Precautions on system

- For connecting to a GOT, use a link unit applicable to the JW-31CUH, JW-32CUH, and JW-33CUH.
- When connecting a GOT to the SHARP programmable controller, set a terminating resistor for the programmable controller.
 The COT has a built is terminating resistor.

The GOT has a built-in terminating resistor.

Related Manuals •

For details of system configuration and connection cable

· For connection method with Handy GOT

- · For precautions and restrictions
- For outlined procedure and checking for SHARP
 programmable controller connection
- For controllers that can be monitored by GOT and accessible range



>

Chapter 14 in GOT1000 Series Connection Manual (SH-080532ENG)

Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
Chapter 14 in Handy GOT User's Manual (JY997D20101)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.3.6 JTEKT programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Sorios	Series Model		Computer link connection		Direct CPU connection	
Series			RS-422	RS-232	RS-422	RS-232
	PC3JG	TIC-6088	\sim	*1		O*1
	PC3JG	TIC-6125	0	0 '	×	0.
	PC3J	TIC-5339	0	O*1	0	∩*1
		TIC-5783				0.
TOYOPUC series	PC2J TH TH TH	THC-5070	0	○*1	×	
1010100 30103		THC-5169				O*1
		THC-5173				
		THC-2764		0.		
		THC-2994				×
		THC-5053				

*1 The RS-232/RS-422 converter (TXU-2051) is required.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Available unit for computer link connection

Unit	RS-422	RS-232
	THU-2755	
Link unit	THU-2927	-
	THU-5139	

6

EQUIPMENT, SOFTWARE, AND MANUALS

7

1

2

SOFTWARE

Precautions

Precautions on system

When the programmable controller is a terminating station, do not connect a terminating resistor. Set the GOT terminating resistor setting to off.

- System configuration Communication may not be correctly executed in a system that has the programmable controllers applicable to the PC3J extended function and those inapplicable to the function. The system must have programmable controllers applicable to the PC3J extended function only or those inapplicable to the function only.
- Clock setting of GOT The GOT clock setting is enabled only for the programmable controller corresponding to the station No. set for the host address.
- Other precautions
- Setting station No. of programmable controller Make sure that the programmable controller corresponding to the station No. set for the host address exists in the system configuration.

System alarm

The system alarm can be displayed only for the programmable controller set as the host address. When connecting a GOT to the programmable controller compatible with the PC3J extended function. only the system alarm of the program No.1 can be displayed.

Version of PC3J For PC3J, use the version 2.1 or later.

Related Manuals

- · For details of system configuration and connection cable
- For precautions and restrictions
- · For outlined procedure and checking for JTEKT programmable controller connection
- · For controllers that can be monitored by GOT and accessible range

· For connection method with Handy GOT



Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)

Chapter 17 in Handy GOT User's Manual (JY997D20101)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

>

>

4.3.7 TOSHIBA programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Model	Computer lin	k connection	Direct CPU connection	
Series	Widder	RS-422	RS-232	RS-422	RS-232
	T2(PU224)		×	0	×
	T2E	×		O*1	
PROSEC T series	T2N			O*1	
	Т3			0	×
	ТЗН			0	×
V series	model 3000(S3) model 2000(S2) model 2000(S2T)	×	×	0	×

*1 Either RS-422 or RS-232 interface can be selected.

The GOT model to be used differs depending on the connection type.

		Series	Connection type	GOT model to be used
			RS-232 or RS-422 connections	GT115Q_BD
1	GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
		Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD

Precautions

Precautions on system

When connecting a GOT to the TOSHIBA programmable controller, set a terminating resistor for the programmable controller.

>

>

The GOT has a built-in terminating resistor.

Related Manuals

- · For details of system configuration and connection cable
- · For precautions and restrictions
- · For outlined procedure and checking of TOSHIBA programmable controller connection
- · For controllers that can be monitored by GOT and accessible range
- · For connection method with Handy GOT

Chapter 16 in GOT1000 Series Connection Manual (SH-080532ENG)

- Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG) Chapter 15 in Handy GOT User's Manual (JY997D20101)
- >For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

2

SOFTWARE

3

CONNECTION CONFIGURATION A FUNCTION

4.3.8 TOSHIBA MACHINE programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Model	Computer link connection		Direct CPU connection	
Series		RS-422	RS-232	RS-422	RS-232
	TC3-01	×	×	×	0
	TC3-02	×	×	×	0
TCmini series	TC5-20	×	×	×	0
	TC6-00	×	×	×	0
	TC8-00	×	×	×	0

The GOT model to be used differs depending on the connection type.

Series		Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)

Related Manuals

- · For details of system configuration and connection cable
- · For precautions and restrictions
- · For outlined procedure and checking of TOSHIBA MACHINE programmable controller connection
- · For controllers that can be monitored by GOT and accessible range



Chapter 17 in GOT1000 Series Connection Manual (SH-080532ENG)

Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)

Chapter 16 in Handy GOT User's Manual (JY997D20101)

 \sum For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

>

>

4.3.9 HITACHI IES programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Model	Computer lin	k connection	Direct CPU connection	
Series	woder	RS-422	RS-232	RS-422	RS-232
	H-302(CPU2-03H)				
	H-702(CPU2-07H)				
	H-1002(CPU2-10H)				
Large-sized H	H-2002(CPU-20H)	_ *1	O *1		~
series	H-4010(CPU3-40H)	O*1	O*1	×	0
	H-300(CPU-03Ha)				
	H-700(CPU-07Ha)				
	H-2000(CPU-20Ha)				
	H-200(CPU-02H, CPE-02H)				
H-200 to 252	H-250(CPU21-02H)		×	×	
series	H-252(CPU22-02H)				~
Selles	H-252B(CPU22-02HB)	×			0
	H-252C(CPU22-02HC)				
	H-252C(CPE22-02HC)				
	H-20DR			×	0
	H-28DR]			
	H-40DR]			
H series board	H-64DR]			
type	H-20DT				
type	H-28DT	×	×		
	H-40DT				
	H-64DT]			
	HL-40DR				
	HL-64DR	1			
	EH-CPU104				0
EH-150 series	EH-CPU208		×	×	
LI 1-100 361163	EH-CPU308	×			
	EH-CPU316]			

*1 Either RS-422 or RS-232 interface can be selected.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

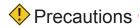
Available unit for computer link connection

Unit	RS-422	RS-232
Intelligent serial port module		COMM-H COMM-2H

1

5

COMPLIANCE WITH OVERSEAS STANDARDS



Precautions on system

When connecting a GOT to the intelligent serial port module, connect a terminating resistor to the intelligent serial port module. The GOT has a built-in terminating resistor.

>

Related Manuals

· For details of system configuration and connection cable

· For connection method with Handy GOT

- · For precautions and restrictions
- · For outlined procedure and checking for HITACHI IES programmable controller connection
- · For controllers that can be monitored by GOT and accessible range

Chapter 18 in GOT1000 Series Connection Manual (SH-080532ENG)

- Chapter 2 in GT Designer2 Version2 Screen Design \geq Manual (For GOT1000 Series) (SH-080530ENG) Chapter 18 in Handy GOT User's Manual (JY997D20101)
- >For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.3.10 HITACHI programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Model	Computer link co		Direct CPU	PU connection	
Series	WOUEI	RS-422	RS-232	RS-422	RS-232	
S10V	LQP510			0		
0101	LQP520	0	0 0	×	×	
	LQP800					
	LQP000					
S10mini	LQP010					
	LQP011					
	LQP120					

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Available unit for computer link connection

Unit	RS-422	RS-232
Communication module	LQE565 LQE165	LQE560 LQE060 LQE160

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of HITACHI programmable controller connection 		Chapter 19 in GOT1000 Series Connection Manual (SH-080532ENG)
For controllers that can be monitored by GOT and accessible range		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 19 in Handy GOT User's Manual (JY997D20101)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

CONNECTION CONFIGURATION A FUNCTION

5

COMPLIANCE WITH OVERSEAS STANDARDS

6

EQUIPMENT, SOFTWARE, AND MANUALS

7

GLOSSARY

4.3.11 FUJI FA programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series Model		Computer lin	Computer link connection		connection
Series	Woder	RS-422	RS-232	RS-422	RS-232
	F55				
MICREX-F	F70 F120S F140S	0	0	×	×
	F15_S				

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Available unit for computer link connection

Unit	RS-422	RS-232
RS-232C interface card	-	NV1L-RS2
RS-232C/485 interface capsule	FFK120A-C10	FFK120A-C10
General-purpose interface module	NC1L-RS4 FFU120B	NC1L-RS2 FFU120B

Related Manuals · For details of system configuration and connection cable Chapter 20 in GOT1000 Series Connection Manual · For precautions and restrictions >(SH-080532ENG) · For outlined procedure and checking of FUJI FA programmable controller connection · For controllers that can be monitored by GOT and Chapter 2 in GT Designer2 Version2 Screen Design >accessible range Manual (For GOT1000 Series) (SH-080530ENG) Chapter 20 in Handy GOT User's Manual · For connection method with Handy GOT >(JY997D20101)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.3.12 MATSUSHITA programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1. **Connectable GOT**



Connectable models

Series	Computer link connection		Direct CPU	connection
Series	RS-422	RS-232	RS-422	RS-232
FP0-C16CT				
FP0-C32CT				~
FP1-C24C	×	×	×	0
FP1-C40C				
FP2				
FP2SH				
FP3		~		0
FP5	×	0	×	0
FP10(S)				
FP10SH				
FP-M(C20TC)				
FP-M(C32TC)	×	×		
FP-Σ			×	0
FP-X	0	0		

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)

Available unit for computer link connection

Unit	RS-422	RS-232
Computer communication unit	AFPX-COM3	AFP2462 AFP3462 AFP5462 AFPX-COM1 AFPX-COM2 AFPX-COM4

Related Manuals

- · For details of system configuration and connection cable
- For precautions and restrictions
- · For outlined procedure and checking of MATSUSHITA programmable controller connection
- Fo ac
- Chapter 21 in GOT1000 Series Connection Manual (SH-080532ENG)

For controllers that can be monitored by GOT and accessible range	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 21 in Handy GOT User's Manual (JY997D20101)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

2

SOFTWARE

3

CONNECTION CONFIGURATION **P** FUNCTION

5

COMPLIANCE WITH OVERSEAS STANDARDS

6

EQUIPMENT, SOFTWARE, AND MANUALS

7

GLOSSARY

4.3.13 YASKAWA programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

		GT16/GT15/GT11/GT10 ^{*1}					GT SoftGOT1000				
Series	Computer link connection		Direct CPU connection		Ethernet	Computer link connection		Direct CPU connection		Ethernet	
	RS-422	RS-232	RS-422	RS-232		RS-422	RS-232	RS-422	RS-232		
GL120				\sim					\sim		
GL130		×		0			×		0		
GL60S	0		×		×						
GL60H		0		×			0		×	×	
GL70H										×	
CP-9200SH		0		×	0		0		×		
CP-9300MS	×	×	×		×		×				
MP920	0	0			0	×	0	×		0	
MP930				0					0		
MP940			0		×						
PROGIC-8	×	×			×		×			×	
CP-9200(H)	t										
CP-312	t		×							1	
MP2200	~	\sim	1	×	0		C		×	\sim	
MP2300	0	0					0			0	

*1 GT10 is compatible with the followings. CP-9200SH, MP920, MP930, MP940, MP2200, and MP2300

*2 Available only for GT16 and GT15.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)

Available unit for computer link connection

Unit	GT15/GT	[11/GT10	GT SoftGOT1000		
onit	RS-422	RS-232	RS-422	RS-232	
MEMOBUS Module/ Communications Module	JAMSC- 120NOM27100 JAMSC-IF612 217IF 217IF-01	JAMSC-IF60 JAMSC-IF61 CP-217IF 217IF 217IF-01 218IF-01	-	JAMSC-IF60 JAMSC-IF61 CP-217IF 217IF 217IF-01 218IF-01	

Available unit for Ethernet connection

Unit	Model
Communications Module	218IF, 218IF-01

Precautions

Precautions on system

- When connecting a GOT to the YASKAWA programmable controller, connect a terminating resistor to the programmable controller as necessary. The GOT has a built-in terminating resistor.
- The target device of an Ethernet cable differs depending on the Ethernet network system configuration to be used.

Connect the cable to the system devices, including Ethernet modules, hubs, and transceivers, according to the Ethernet network system to be used.

- When connecting GT16 to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.
- Communication via network system A GOT cannot access a programmable controller on the other networks via a programmable controller (the network module, Ethernet module, and others) on the network where the GOT is connected.
- When connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance.
 - · Use a switching hub.
 - Use the high-speed 100BASE-TX (100Mbps).
 - · Reduce the GOT monitoring points.

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of YASKAWA programmable controller connection 		Chapter 22 in GOT1000 Series Connection Manual (SH-080532ENG)
For controllers that can be monitored by GOT and accessible range		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 22 in Handy GOT User's Manual (JY997D20101)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

5

4.3.14 YOKOGAWA programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

			GT	16/GT15/0	GT11	GT SoftGOT1000					
Series	Model	Compu conne	ter link ection		t CPU ection	Ethernet		ter link		t CPU ection	Ethernet
		RS-422	RS-232	RS-422	RS-232	-	RS-422	RS-232	RS-422	RS-232	
FA500	FA500	C	*1	×	×	×					×
	F3SP05	~			\sim	\sim					\sim
	F3SP08	0			0	0					0
	F3SP10	×									
	F3SP20				×	~ ×					×
	F3SP30										
	F3FP36										
	F3SP21										
FA-M3	F3SP25										
	F3SP35	0	0	×	0	0	×	×	×	×	0
	F3SP28										
	F3SP38										
	F3SP53										
	F3SP58										
	F3SP59										
	F3SP66 F3SP67	×	×								
STARDOM	NFCP100 NFJT100	×	×	×	0	×	1				×

*1 Either RS-422 or RS-232 interface can be selected.

*2 Available only for GT16 and GT15.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Available unit for computer link connection

Unit	RS-422	RS-232
	LC02-0N	LC01-0N
	F3LC11-2N	LC02-0N
DC link module		F3LC01-1N
PC link module		F3LC11-1N
		F3LC11-1F
		F3LC12-1F

Available unit for Ethernet connection

Unit	Model
Ethernet Interface Module	F3LE01-5T, F3LE11-0T, F3LE12-0T

3

CONNECTION CONFIGURATION A FUNCTION

COMPLIANCE WITH OVERSEAS STANDARDS

Precautions

Precautions on system

- Precautions for connecting to FA-M3
 - · For connecting the GOT to the programming tool interface connector with the CPU port/D-sub 9-pin conversion cable, the GOT cannot connect to the F3SP10, F3SP20, F3SP30, and F3SP36.
 - The F3SP10 is not applicable to the PC link module (F3LC11-2N). A GOT cannot connect to the F3P10 via the RS-422 interface.
- Precautions for connecting to STARDOM
 - Dual-redundant configuration When the dual-redundant configuration is used with STARDOM, the GOT cannot connect to STARDOM.
 - System alarm Programmable controller errors in the system alarm are not displayed. Clock setting of GOT
 - STARDOM does not have the clock data write/read function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).
- When connecting a GOT to the PC link module, connect a terminating resistor for the PC link module. The GOT has a built-in terminating resistor.
- The target device of an Ethernet cable differs depending on the Ethernet network system configuration to be used.

Connect the cable to the system devices, including Ethernet modules, hubs, and transceivers, according to the Ethernet network system to be used.

When connecting GT16 to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

Communication via network system

A GOT cannot access a programmable controller on the other networks via a programmable controller (the network module, Ethernet module, and others) on the network where the GOT is connected.

When connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance.

- Use a switching hub.
- Use the high-speed 100BASE-TX (100Mbps).
- Reduce the GOT monitoring points.

Precautions on setup

Set the switch of the PC link module before installing the PC link module on a base unit.

Polar difference between GOT and YOKOGAWA product For signal names, poles A and B are reversed between a GOT and a YOKOGAWA product.

When connecting a GOT to YOKOGAWA programmable controller, devices to be set for objects must be in the device range of YOKOGAWA programmable controller. When a device outside the device range is set for an object, an invalid value is displayed for the object. (The system alarm is not displayed).



Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of YOKOGAWA programmable controller connection 		Chapter 23 in GOT1000 Series Connection Manual (SH-080532ENG)
 For controllers that can be monitored by GOT and accessible range 	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 23 in Handy GOT User's Manual (JY997D20101)
* For restrictions and precautions on controllers of	connecte	ed to a GOT, refer to the manual for each controller.

4.3.15 ALLEN-BRADLEY programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

		GT16/GT15			5/GT11		GT10				
Series	Model	liı	Computer link connection		Ether- net ^{*4}	Computer link connection		Direct CPU connection		Ether-	
		RS- 422	RS- 232	RS- 422	RS- RS-	net	RS- 422	RS- 232	RS- 422	RS- 232	net
	SLC500-20										
	SLC500-30										
	SLC500-40									\times	
SLC500 series*1	SLC5/01	×	×	×	0	×	×	×	×		×
	SLC5/02	~	~	~	0	~	~	~	~		
	SLC5/03										
	SLC5/04 SLC5/05									0	
	1761-L10BWA										
MicroLogix1000 series (digital CPU)*1	1761-L10BWA										
	1761-L16AWA										
	1761-L16BWA	- - - - - - -									
	1761-L16BWB						× × × :				
	1761-L16BBB										
	1761-L32AWA					×					
	1761-L32BWA										
	1761-L32BWB		×	×	0			×	×	~	
	1761-L32BBB									0	×
	1761-L32AAA										
MicroLogix1000	1761-L20AWA-5A										
series (analog	1761-L20BWA-5A										
CPU)*1*2*3	1761-L20BWB-5A										
MicroLogix1200 series ^{*1}	1762-L24BWA	1									
MicroLogix1500 series ^{*1}	1764-LSP										
	1756-L										
	1756-L1M1										
	1756-L1M2										
	1756-L1M3										
	1756-L61										
	1756-L62										
ControlLogix series	1756-L63		×	×	0	0	×	×	×	×	×
CONTROLLOGIX Series	1756-L55M12	×	×	×	0	0	×	X	X	×	×
	1756-L55M13										
	1756-L55M14										
	1756-L55M16										
	1756-L55M22										
	1756-L55M23 1756-L55M24										

209

1

2

SOFTWARE

3

CONNECTION CONFIGURATION **A** FUNCTION

5

COMPLIANCE WITH OVERSEAS STANDARDS

6

EQUIPMENT, SOFTWARE, AND MANUALS

7

GLOSSARY

			GT15/GT11				GT10				
Series	Model	Computer link connection		Direct CPU connection		net lii				t CPU ection	Ether- net (Soon
		RS- 422	RS- 232	RS- 422	RS- 232	to be suppor- ted) ^{*4}	RS- 422	RS- 232	RS- 422	RS- 232	to be suppor- ted) ^{*4}
	1769-L31					×					
	1769-L32E	×				0	be por- RS- RS- RS- RS-				
CompactLogix series	1769-L32C		×	×	0	×		×			
	1769-L35E					0					
	1769-L35CR					×					
FlexLogix series	1794-L33 1794-L34	×	×	×	0	×	×	×	×	×	×

*1 Connectable to the DH485 network via Adapter (1770-KF3).

*2 The CPU of series C or later is applicable for connecting to the DH485 network. (The DH485 protocol is not supported for series B or earlier.)

*3 The CPU of series D or later is applicable to the one-on-one connection. (The DF1 half duplex is not supported for series C or earlier.)

*4 Available only for GT16 and GT15. EtherNet/IP (PCCC protocol) is supported.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)

Available unit for Ethernet connection

Unit	Model
EtherNet/IP communication module	1756-ENBT, 1788-ENBT

Precautions

Precautions on system

- The target device of an Ethernet cable differs depending on the Ethernet network system configuration to be used.
- Connect the cable to the system devices, including Ethernet modules, hubs, and transceivers, according to the Ethernet network system to be used.
- When connecting GT16 to an equipment that meets the 10BASE (-T/2/5) standard, use the switching and operate in an environment where 10Mbps and 100Mbps can be mixed.

Communication via network system A GOT cannot access a programmable controller on the other networks via a programmable controller (the network module, Ethernet module, and others) on the network where the GOT is connected.

- When connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance.
 - Use a switching hub.
 - · Use the high-speed 100BASE-TX (100Mbps).
 - Reduce the GOT monitoring points.

Related Manuals

- · For details of system configuration and connection cable
- · For precautions and restrictions · For outlined procedure and checking for ALLEN-

· For connection method with Handy GOT

- BRADLEY programmable controller connection
- · For controllers that can be monitored by GOT and accessible range

Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
Chapter 24 in Handy GOT User's Manual (JY997D20101)

Chapter 24 in GOT1000 Series Connection Manual

>For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

>

>

(SH-080532ENG)

5

EQUIPMENT, SOFTWARE, AND MANUAL

4.3.16 GE FANUC programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Queine	Madal	Computer lin	k connection	Direct CPU connection		
Series	Model	RS-422	RS-232	RS-422	RS-232	
Series 90 - 30	IC693CPU311	0	0	×	×	
Series 30 - 50	IC693CPU313	Ő	Ŏ	×	×	
	IC693CPU323	Ō	Ō	×	×	
	IC693CPU350	Ő	Ŏ	0	0	
	IC693CPU360	Ō	Ō	Ō	Ō	
	IC693CPU363	Ő	Õ	Ŏ	Ŏ	
	IC693CPU366	Ő	Ő	Ő	Ŏ	
	IC693CPU367	Ő	Õ	Ŏ	Ŏ	
	IC693CPU374	0	Õ	0	Ő	
Series 90 - 70	IC697CPU731	ŏ	Õ	×	×	
	IC697CPX772	0	Õ	×	×	
	IC697CPX782	0	0	×	×	
	IC697CPX928	0	0	×	×	
	IC697CPX935	0	0	×	×	
	IC697CPU780	<u>0</u>	0	×	×	
	IC697CGR772	0	0	×	×	
	IC697CGR935		0	×	×	
	IC697CPU788	0	0	×	×	
	IC697CPU789		0	×	×	
	IC697CPM790	0	0	×	×	
	IC200UAA003		0	0	0	
VersaMax Micro	IC200UAR014	×	×	X	0	
	IC200UDD104	×	×	×	0	
	IC200UDD112	×	×	×	0	
	IC200UDR001	×	×	×	0	
	IC200UDR002	×	×	×	0	
	IC200UDR003	×	×	×	0	
	IC200UAL004	×	×	<u>^</u>	0	
	IC200UAL005	×	×		0	
	IC200UAL005	×	×		0	
	IC200UAA007	× ×	×			
	IC200UAR028	× ×	×		0	
	IC200UDD110	× ×	×	<u> </u>	<u> </u>	
	IC200UDD120				0	
	IC2000DD120	× ×	×	0	0	
	IC2000DD212			0	0	
	IC2000DR005	×	×	0	0	
	IC2000DR008	×	×	0	0	
	IC2000DR010	×	×	0	0	
			0	0	0	
	IC200UDD164	0	0	0	0	
	IC200UDR164	0	0	0	0	
	IC200UDR064	0	0	0	0	

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Available unit for computer link connection

Unit	RS-422	RS-232
Communication Modules	IC693CMM311 IC697CMM711	IC693CMM311 IC697CMM711

Precautions

Precautions on system

When connecting a GOT to the GE FANUC programmable controller, set a terminating resistor for the programmable controller.

The GOT has a built-in terminating resistor.

Clock setting of GOT The PLC clock data cannot be written to or read from the GOT. The settings of "time adjusting" or "time broadcast" made on the GOT will be disabled on the PLC.

Related Manuals						
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking for GE FANUC programmable controller connection 		Chapter 25 in GOT1000 Series Connection Manual (SH-080532ENG)				
For controllers that can be monitored by GOT and accessible range		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)				
For connection method with Handy GOT	\triangleright	Chapter 25 in Handy GOT User's Manual (JY997D20101)				

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

6

EQUIPMENT, SOFTWARE, AND MANUALS

5

4.3.17 SIEMENS programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Computer lin	k connection	Direct CPU connection		
Jenes	RS-422	RS-232	RS-422	RS-232	
SIMATIC S7-200 series					
SIMATIC S7-300 series	×	×	×	0	
SIMATIC S7-400 series					

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD
	GT105	RS-232 or RS-422 connections	GT105Q_BD
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)

Precautions

Other precautions

Alarm list display function (system alarm) for GOT

When a GOT is connected to the SIEMENS programmable controller, programmable controller errors cannot be displayed with the alarm list display function (system alarm). (Check the errors with monitoring the SIEMENS programmable controller with the GOT.)

At system start-up

(1) At power-on

Power on all the programmable controller CPU before powering on a GOT. When powering on the programmable controller CPU after powering on a GOT, reboot the GOT.

(2) At power-off of other station programmable controller CPU When any of the other programmable controller CPUs (that are not connected to HMI Adapter) is powered off, a GOT stops monitoring. When rebooting the GOT, the GOT can start monitoring. (Even though the programmable controller is powered on again, the GOT does not restart monitoring.)

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking for SIEMENS programmable controller connection 		Chapter 27 in GOT1000 Series Connection Manual (SH-080532ENG)
 For controllers that can be monitored by GOT and accessible range 	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 26 in Handy GOT User's Manual (JY997D20101)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

бот 2

1

4.3.18 LS INDUSTRIAL SYSTEMS programmable controller

For details of the system configuration, refer to "Connection type" in section 4.3.1.

Connectable GOT



Connectable models

Series	Model	Computer lin	k connection	Direct CPU connection		Ethernet	
Series	Woden	RS-422	RS-232	RS-422	RS-232	Luiemer	
K300S	K4P-15AS	0	0	×	×	×	
K200S	K3P-07_S	0	0	×	×	×	
K120S	K7M-D	0	0	×	0	×	
K80S	K7M-D	0	0	×	0	×	

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used	
		RS-232 or RS-422 connections	GT115Q_BD	
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA	
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD	
	GT105	RS-232 or RS-422 connections	GT105Q_BD	
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2	
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,	
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW	
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)	

Available unit for computer link connection

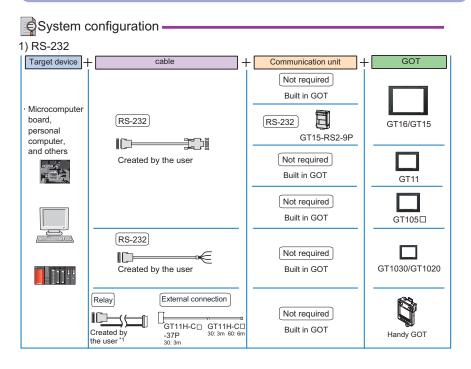
Unit	RS-422	RS-232
Cnet I/F modules	G7L-CUEC G6L-CUEC G4L-CUEA	G7L-CUEB G6L-CUEB G4L-CUEA

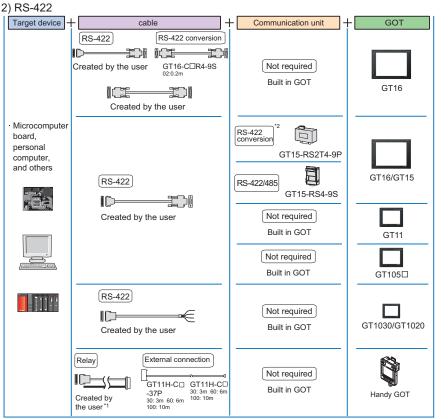
Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking for LS INDUSTRIAL SYSTEMS programmable controller programmable controller connection 		Chapter 26 in GOT1000 Series Connection Manual (SH-080532ENG)
 For controllers that can be monitored by GOT and accessible range 	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 23 in Handy GOT User's Manual (JY997D20101)
* For restrictions and precautions on controllers c	onnecte	d to a GOT, refer to the manual for each controller.

|--|

Б
109 2
S OFTWARE
SOFT
3
z
NCTIO
ੂ 4
CONNECTION P FUNCTION
IECTIC
 5
 COMPLIANCE WITH OVERSEAS STANDARDS
 PLIAN OVE DARI
N H N
 COMI STAN
6
6
6
L EQUIPMENT, SOFTWARE, 9 WITH AND MANUALS STAN
L EQUIPMENT SOFTWARE, 9 AND MANUALS
EQUIPMENT, SOFTWARE, AND MANUALS

4.4 Microcomputer connection





*1: Required for using GT11H-C -37P.

*2: Use GT15-RS4-9S for using GT155 .

7

GLOSSARY

2

SOFTWARE

The GOT model to be used differs depending on the connection type.

	Series	Connection type	ype GOT model to be used	
		RS-232 or RS-422 connections	GT115Q_BD	
GT11		Bus connection	GT115Q_BDQ, GT115Q_BDA	
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD	
	GT105	RS-232 or RS-422 connections	GT105Q_BD	
		RS-232 connection	GT1030-LBD2/GT1030-LBDW2, GT1020-LBD2/GT1020-LBDW2	
GT10	GT1030		GT1030-LBD/GT1030-LBDW, GT1020-LBD/GT1020-LBDW,	
	GT1020	RS-422 connection	GT1020-LBL/GT1020-LBLW	
			(For GT1020-LBL/GT1020-LBLW, MELSEC-FXCPU connection is available only.)	

Precautions -

Other precautions

Virtual device in GOT

The virtual device in a GOT is used for the microcomputer connection. (Devices for a programmable controller are not used.)

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of microcomputer connection 		Chapter 28 in GOT1000 Series Connection Manual (SH-080532ENG)
For controllers that can be monitored by GOT and accessible range	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 27 in Handy GOT User's Manual (JY997D20101)
* Environmentation and an another an another land	onnote	d to a COT refer to the measured for each controller.

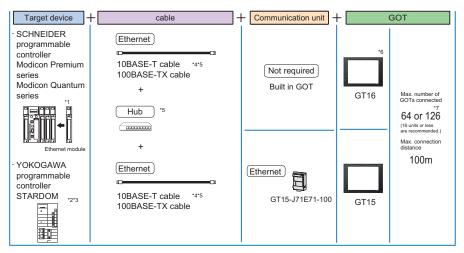
* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

Μ	E	Μ	ο

 Ц
 ор 2
 ŔE
 OFTW#
 S OFTWARE
NO
ILDNU:
4
 NU
CONNECTION D FUNCTION
 CONF
 5
Ś
SEA:
 PLIANCE OVERSEA: DARDS
 COMPLIANCE WITH OVERSEA
9 COMPLIANCE WITH OVERSEAS STANDARDS
6
6
EQUIPMENT, SOFTWARE, AND MANUALS
6
EQUIPMENT, SOFTWARE, AND MANUALS
EQUIPMENT, SOFTWARE, AND MANUALS

4.5 MODBUS(R)/TCP connection

System configuration -



*1: Connect the GOT to the Ethernet module via a hub.

2: When connecting of the Lineman induced in a multi2: When connecting a GOT to a programmable controller, connect to the programmable controller Ethernet port via a hub.
3: When connecting STARDOM of the YOKOGAWA programmable controller with MDDBUS9TCP connection, Modbus Communication
Portfolio License is required. For details, refer to the YOKOGAWA programmable controller manual.
4: For the twisted pair cable, use the straight cable.

ror ure winster pair cause, use the straight Cable.
 St Use cables, connectors, and hubs that are compliant with the IEEE802.3 10BASE-T/100BASE-TX standard.
 When connecting GT16 to an equipment that meets the 10BASE (-1725) standard, use the switching hub and operate in an environment where (10Mbps and 100Mbps and because and be mixed).

*7: Up to 126 GOTs can be connected to STARDOM of the YOKOGAWA programmable controller.

Connectable models

			GT16/GT15	
Manufacturer	Series	Model	MODBUS [®] /TCP	
			connection*8	
		TSX P57 203M		
		TSX P57 253M		
	Modicon Premium	TSX P57 303M		
		TSX P57 353M		
Schneider Electric SA		TSX P57 453M		
	Modicon Quantum	140 CPU 311 10		
		140 CPU 434 12U		
		140 CPU 534 14U	0	
		140 CPU 651 50	_	
		140 CPU 651 60		
		140 CPU 671 60		
		140 CPU 113 02		
		140 CPU 113 03		
		140 CPU 434 12A		
		140 CPU 534 14A		
Yokogawa Electric	STARDOM	NFCP100		
Corporation	STARDOM	NFJT100		

*8 Supporting only MODBUS[©] /TCP connection. Ethernet connection is not available.

Available unit for MODBUS[®] /TCP connection

Unit	Model
	TSX ETY 4102
	TSX ETY 5102
SCHNEIDER Ethernet module	140 NOE 771 00
	140 NOE 771 10
	140 NWM 100 00

1

gor 2

SOFTWARE

5



Precautions on system

Precautions for connecting to STARDOM

Dual-redundant configuration

When the dual-redundant configuration is used with STARDOM, the GOT cannot connect to STARDOM.

- System alarm
- Programmable controller errors in the system alarm are not displayed.

 Clock setting of GOT STARDOM does not have the clock data write/read function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

When connecting multiple network devices (including a GOT) to the same segment When multiple network devices (including a GOT) are connected to the same segment, the network load may increase, and the communication speed may slow down between the GOT and a programmable controller. The following actions can improve the communication performance.

- · Use a switching hub.
- Use the high-speed 100BASE-TX (100Mbps).
- · Reduce the GOT monitoring points.

When connecting GT16 to an equipment that meets the 10BASE (-T/2/5) standard, use the switching hub and operate in an environment where 10Mbps and 100Mbps can be mixed.

Precautions on setup

When connecting a GOT to YOKOGAWA programmable controller, devices to be set for objects must be in the device range of YOKOGAWA programmable controller. When a device outside the device range is set for an object, an invalid value is displayed for the object.

When a device outside the device range is set for an object, an invalid value is displayed for the object. (The system alarm is not displayed).

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of MODBUS[©] /TCP connection

 For controllers that can be monitored by GOT and accessible range \triangleright

Chapter 29 in GOT1000 Series Connection Manual (SH-080532ENG)

Chapter 2 in GT Designer2 Version2 Screen Design Manual (SH-080530ENG)

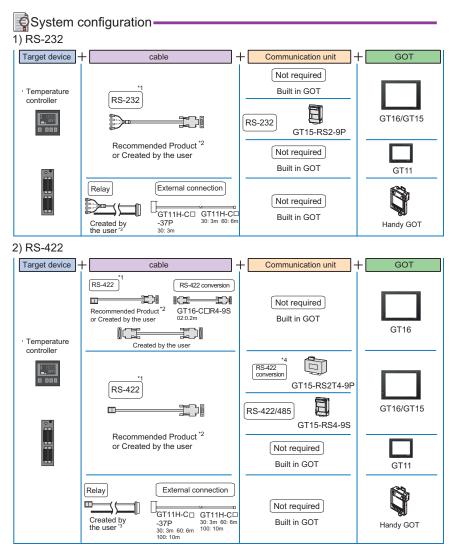
*1 For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

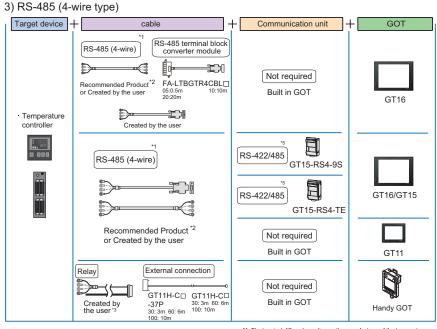
1
 ŌŢ
2 2
 ARE
SOFTWARE
 3
 NO
UNCT
4
CONNECTION DE FUNCTION
IECTIC IGUR#
CONF
 5
COMPLIANCE WITH OVERSEAS STANDARDS
 LIANC OVERS
COMF WITH STANI
 6
LS I
EQUIPMENT, SOFTWARE, AND MANUALS
EQUI SOFT AND I
7
 GLOSSARY
 GLOS

4.6 Temperature Controller

4.6.1 Connection type

The following shows connection with a temperature controller. The available connection type and GOT differ according to the manufacturer. For details, refer to the section for each temperature controller.





- *1: The terminal differs depending on the manufacturer of the temperature controller to be connected.
 - (Modular type)
- *2: Cables vary depending on the target devices. For details, refer to 6.EQUIPMENT, SOFTWARE, AND MANUALS and GOT1000 Series Connection Manual.
- *3: Required for using GT11H-C -37P.
- *4: Use GT15-RS4-9S for using GT155 [].
- *5: The available communication unit differs depending on the temperature controller connected.

For available communication units, refer to GOT1000 Series Connection Manual.

7

GLOSSARY

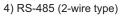
5

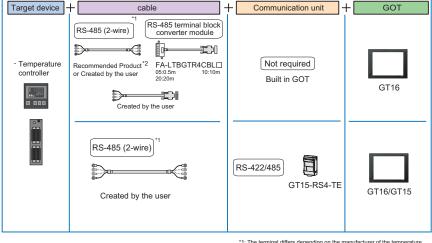
2

SOFTWARE

3

CONNECTION CONFIGURATION **A** FUNCTION





*1: The terminal differs depending on the manufacturer of the temperature controller to be connected.

(Modular type)

*2: Cables vary depending on the target devices. For details, refer to 6.EQUIPMENT, SOFTWARE, AND MANUALS and GOT1000 Series Connection Manual.

4.6.2 OMRON temperature controller

For details of the system configuration, refer to "Connection type" in section 4.6.1.

Connectable GOT



Connectable models

Model		GT16/GT15			GT11		
Woder	woder		RS-422	RS-232	RS-485	RS-422	RS-232
	E5AN	○ (2-wire type)	×	O*1	×	×	O*1
THERMAC NEO	E5EN	○ (2-wire type)	×	O *1	×	×	O *1
THERMAN NEO	E5CN	○ (2-wire type)	×	⊖* 1	×	×	⊖* 1
	E5GN	○ (2-wire type)	×	O*1	×	×	O*1
INPANEL NEO	E5ZN	○ (2-wire type)	×	⊖ ^{*1}	×	×	⊖ ^{*1}

*1 When the RS-485 interface of the temperature controller is used, use the RS-232/RS-485 converter.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
1	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Precautions

Precautions on system

When connecting a GOT to the OMRON temperature controller, set a terminating resistor for the temperature controller. For the GOT, set a terminating resistor with the DIP switches of the RS-422/485 serial communication

For the GOT, set a terminating resistor with the DIP switches of the RS-422/485 serial communication unit.

Clock setting of GOT

The temperature controller does not have the clock function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

Related Manuals

For details of system configuration and		
connection cableFor precautions and restrictions		Chapter 30 in GOT1000 Series Connection Manual
 For outlined procedure and checking of OMRON temperature controller connection 		(SH-080532ENG)
For controllers that can be monitored by GOT and accessible range	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 28 in Handy GOT User's Manual (JY997D20101)
* For restrictions and precautions on controllers of	connecte	d to a GOT, refer to the manual for each controller.

2

SOFTWARE

3

CONFIGURATION P FUNCTION

5

COMPLIANCE WITH OVERSEAS STANDARDS

6

EQUIPMENT, SOFTWARE, AND MANUALS

7

GLOSSARY

4.6.3 SHINKO indicating controller

For details of the system configuration, refer to "Connection type" in section 4.6.1.

Connectable GOT



Connectable models

Series	Model	RS-485	RS-422	RS-232
ACS-13A series	ACS-13A 🗌 / 🗌, 🔲, C5			
DCL-33A series	DCL-33A- 🗌 /M, 🗌, C5			
	JCS-33A- 🗌 / 🛄, C5	○ (2-wire type)		⊖ ^{*2}
JC series	JCR-33A- 🗌 / 🛄, C5	(z-wire type)		0
	JCR-33A- 🗌 / 🛄, C5			
JCM-33A series	JCR-33A- 🗌 / 🗌, 🔲, C5			
	FCR-13A- 🗌 /M, C			
FCR-100 series	FCR-13A- 🗌 /M, C5			
FCR-100 Selles	FCR-15A- 🗌 /M, C			
	FCR-15A- 🗌 /M, C5		×	
	FCD-13A- 🗌 /M, C			
FCD-100 series	FCD-13A- 🗌 /M, C5	×		
T CD-100 Selles	FCD-15A- 🗌 /M, C			
	FCD-15A- 🗌 /M, C5			
FCR-23A series	FCR-23A- 🗌 /M, C			⊖ ^{*1}
FUR-23A series	FCR-23A- 🗌 /M, C5			
	PC935- 🗌 /M, C			
	PC935- 🗌 /M, C5	 (2-wire type) 		
PC-900 series	PC955- 🗌 /M, C	×		
	PC955- 🗌 /M, C5	a (0 in ()		
PCD-300 series	PCD-33A- 🗌 /M, C5	○ (2-wire type)		
FIR series	FIR-201-M,C	×	+	
	FIR-201-M,C5			
JIR-301-M series	JIR-301-M 🗌, C5	(2-wire type)		⊖ ^{*2}

*1 A GOT can connect to only the indicating controller with RS-232 serial communication function.

*2 When the RS-485 interface of the indicating controller is used, use the RS-232/RS-485 converter.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD



Precautions on system

Clock setting of GOT The indicating controller does not have the clock function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

Other precautions

Setting station No. of indicating controller Make sure that the indicating controller corresponding to the station No. set for the host address exists in the system configuration.

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of SHINKO indicating controller connection 		Chapter 31 in GOT1000 Series Connection Manual (SH-080532ENG)
For controllers that can be monitored by GOT and accessible range	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 29 in Handy GOT User's Manual (JY997D20101)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

EQUIPMENT, SOFTWARE, AND MANUALS

7

5

2

SOFTWARE

3

CONNECTION CONFIGURATION **A** FUNCTION

4.6.4 CHINO controller

For details of the system configuration, refer to "Connection type" in section 4.6.1.

Connectable GOT



Connectable models

Series	Model	G	T16/GT15		GT11		
Series	Woder	RS-485	RS-422	RS-232	RS-485	RS-422	RS-232
LT300 series	LT350, LT370) (2-wire	0	○ *1*2	×	C	^{*1*2}
		type)	0	0	^	0	0
LT400 series	LT450, LT470	(2-wire)	0	⊖ ^{*1*2}	×	0	* 1*2
21 100 001100	21 100, 21 110	type)	0	0	×	0	0
DZ1000 series	DZ1000 ^{*3}	🔿 (2-wire	0	⊖ ^{*1*2}	×	0	⊖ ^{*1*2}
521000 001100		type)					0
DZ2000 series	DZ2000*3	🔿 (2-wire	0	⊖ ^{*1*2}	×	0	*1*2
BEE000 Conco		type)					0
LT230 series	LT230	(2-wire)	×	O*1	×	×	⊖* 1
21200 001100		type)					0
LT830 series	LT830) (2-wire	×	O *1	×	×	O*1
2.000 00.00	21000	type)	×	0	^	~	0
GT120 series	GT120	(2-wire)	~	O*1	×	×	O ^{*1}
		type)	×				\mathbf{O}

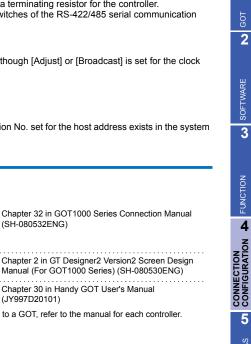
*1 When the RS-485 interface of the controller is used, use the RS-232/RS-485 converter.

*2 When the RS-422 interface of the controller is used, use the RS-232/RS-422 converter.

*3 Select a model for supporting the MODBUS® communication function.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD



COMPLIANCE WITH OVERSEAS STANDARDS 6

GLOSSARY

Precautions

Precautions on system

When connecting a GOT to the CHINO controller, set a terminating resistor for the controller. For the GOT, set a terminating resistor with the DIP switches of the RS-422/485 serial communication unit.

Set the GOT terminating resistor setting to on.

Clock setting of GOT

The controller does not have the clock function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

Other precautions

Setting station No. of controller

Make sure that the controller corresponding to the station No. set for the host address exists in the system configuration.

Related Manuals

- · For details of system configuration and connection cable
- · For precautions and restrictions
- · For outlined procedure and checking of the CHINO controller connection
- For controllers that can be monitored by GOT and accessible range

· For connection method with Handy GOT

Manual (For GOT1000 Series) (SH-080530ENG) Chapter 30 in Handy GOT User's Manual (JY997D20101)

5 For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

 \sum

 \sum

(SH-080532ENG)

4.6.5 FUJI SYS temperature controller

For details of the system configuration, refer to "Connection type" in section 4.6.1.

Connectable GOT



Connectable models

Series	Model		GT16/GT15		GT11			
Series		RS-485	RS-422	RS-232	RS-485	RS-422	RS-232	
	PXR3) (2-wire	×	O *1	×	×	O *1	
		type)	^	0	^	~	0	
	PXR4	(2-wire)	×	⊖ ^{*1}	×	×	* 1	
PXR		type)	^	0	~	^	0	
1744	PXR5) (2-wire	×	O ^{*1}	×	×	O *1	
		type)					0	
	PXR9) (2-wire	х	O ^{*1}	×	×	⊖ *1	
		type)					0	
	PXG4) (2-wire	×	⊖ *1	×	×	O *1	
		type)	^	0	~	~	0	
PXG	PXG5 PXG9) (2-wire	×	O*1	×	×	⊖ ^{*1}	
		type)					0	
		🔿 (2-wire		⊖ ^{*1}	×	×	O *1	
		type)		0	~	^	0	
РХН	PXH9) (2-wire	×	O *1	×	×	O *1	
		type)	^	0.			0	

*1 When the RS-485 interface of the temperature controller is used, use the RS-232/RS-485 converter.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD



Precautions on system

When connecting a GOT to the FUJI SYS temperature controller, set a terminating resistor for the temperature controller. For the GOT, set a terminating resistor with the DIP switches of the RS-422/485 serial communication unit.

Clock setting of GOT

The temperature controller does not have the clock function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

Precautions on setup

FIX processing of temperature controller Do not turn off the temperature controller during FIX processing. Doing so may damage the data stored in a nonvolatile memory, resulting in the failure of the temperature controller.

Other precautions

Setting station No. of temperature controller Make sure that the temperature controller corresponding to the station No. set for the host address exists in the system configuration.

Related Manuals · For details of system configuration and connection cable Chapter 33 in GOT1000 Series Connection Manual · For precautions and restrictions \sum (SH-080532ENG) · For outlined procedure and checking of FUJI SYS temperature controller connection · For controllers that can be monitored by GOT and Chapter 2 in GT Designer2 Version2 Screen Design >accessible range Manual (For GOT1000 Series) (SH-080530ENG) Chapter 32 in Handy GOT User's Manual · For connection method with Handy GOT (JY997D20101)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

3

6

EQUIPMENT, SOFTWARE, AND MANUAL

5

4.6.6 YAMATAKE temperature controller

For details of the system configuration, refer to "Connection type" in section 4.6.1.

Connectable GOT



Connectable models

Model			GT16/GT15		GT11			
		RS-485	RS-422	RS-232	RS-485	RS-422	RS-232	
	SDC20/21	⊖ (4-wire	×	O ^{*1}) (4-wire	×	O ^{*1}	
	0002021	type)			type)	~	0	
	SDC30/31	○ (4-wire)	~	⊖ ^{*1}	○ (4-wire)	~	O ^{*1}	
	0000001	type)	×		type)	×		
SDC	SDC40A/40B/40G	○ (4-wire)	×	O *1	(4-wire)	×	O ^{*1}	
		type)			type)		0	
	SDC15	🔿 (2-wire	×	O *1	×	×	O ^{*1}	
		type)	~	0	^	~	0	
	SDC25/26	🔿 (2-wire	×	O*1	×	×	O ^{*1}	
	0202020	type)					0	
	SDC35/36) (2-wire	×	⊖ *1	×	×	O ^{*1}	
	02000,00	type)	~	0	^	~	0	
DMC	DMC10	🔿 (2-wire	~	O *1	~		O ^{*1}	
50		type)	×	0.	×	×	0.	

*1 When the RS-485 interface of the temperature controller is used, use the RS-232/RS-485 converter.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD



Precautions on system

When connecting a GOT to the YAMATAKE temperature controller, connect a terminating resistor for the temperature controller.

For the GOT, set a terminating resistor with the DIP switches of the RS-422/485 serial communication unit.

Clock setting of GOT

The temperature controller does not have the clock function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of YAMATAKE temperature controller connection 		Chapter 34 in GOT1000 Series Connection Manual (SH-080532ENG)
For controllers that can be monitored by GOT and accessible range		Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 31 in Handy GOT User's Manual (JY997D20101)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

1

бот 2

6

EQUIPMENT, SOFTWARE, AND MANUALS

7

4.6.7 YOKOGAWA temperature controller

For details of the system configuration, refer to "Connection type" in section 4.6.1.

Connectable GOT



Connectable models

Series	Model		GT16/GT15				
Series	Model	RS-485	RS-422	RS-232	RS-485	RS-422	RS-232
	UT320						
	UT321						
	UT350						
	UT351						
	UT420						
	UT450						
	UT520						
	UT550						
	UT551	 (2-wire type/4-wire 			○ (4-wire)		
GREEN series	UT750				0.		
	UP350	type)			type)		
	UP351	-917					
	UP550			*1			*1
	UP750		×	⊖ ^{*1}		×	⊖ ^{*1}
	UM330						
	UM331						
	UM350	-					
	UM351						
	US1000						
	UT130						
	UT150	\bigcirc (2 wire			×		
UT-100 series	UT152	0 .) (2-wire type)				
	UT155	type)					
	UP150	1					
UT-2000 series	UT2400	○ (4-wire)) (4-wire		
01-2000 Series	UT2800	type)			type)		

*1 When the RS-485 interface of the temperature controller is used, use the RS-232/RS-485 converter.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115 -Q BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115_HS-Q_BD

Precautions

Precautions on system

When connecting a GOT to the YOKOGAWA temperature controller, connect a terminating resistor for the temperature controller.

For the GOT, set a terminating resistor with the DIP switches of the RS-422/485 serial communication unit.

Clock setting of GOT

The temperature controller does not have the clock function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

Related Manuals —		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of YOKOGAWA temperature controller connection 		Chapter 35 in GOT1000 Series Connection Manual (SH-080532ENG)
For controllers that can be monitored by GOT and accessible range	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 33 in Handy GOT User's Manual (JY997D20101)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

1

2

SOFTWARE

3

4.6.8 RKC temperature controller

For details of the system configuration, refer to "Connection type" in section 4.6.1.

Connectable GOT



Connectable models

Series	Model	GT16/GT15			GT11		
Oches		RS-485	RS-422	RS-232	RS-485	RS-422	RS-232
SR Mini HG Series	H-PCP-J	○ (2-wire type)	0	0	×	0	0
Genes	H-PCP-A, CH-PCP-B	×	0	0	×	0	0
SRZ series	Z-TIO, Z-DIO	⊖ (2-wire type) ^{*3}	⊖ *2	O *1	×	⊖ *2	⊖* 1
CB series (Products specified for MODBUS [®] communication)	CB100/400/500 /700/900	⊖ (2-wire type)	×	O ^{*1}	×	×	⊖ ^{*1}

*1 When the RS-485 interface of the temperature controller is used, use the RS-232/RS-485 converter.

*2 Use Communication Extension Module (Z-COM).

*3 Use Communication Extension Module (Z-COM) according to the system configuration.

The GOT model to be used differs depending on the connection type.

	Series	Connection type	GOT model to be used
		RS-232 or RS-422 connections	GT115Q_BD
GT11		Bus connection	GT115 -Q BDQ, GT115 -Q BDA
	Handy GOT	RS-232 or RS-422 connections	GT115 HS-Q BD

Precautions

Precautions on system

Clock setting of GOT

The temperature controller does not have the clock function. Even though [Adjust] or [Broadcast] is set for the clock setting, the setting is invalid (not processed).

Precautions on setup

When using RS-422 conversion unit

Set [Communication Setting] in the utility so that the 5VDC power is supplied to the RS-422 conversion unit via the RS-232 interface of the GOT.

 Polar difference between GOT and RKC product For signal names, poles A and B are reversed between a GOT and an RKC product.

Related Manuals		
 For details of system configuration and connection cable For precautions and restrictions For outlined procedure and checking of RKC temperature controller connection 		Chapter 36 in GOT1000 Series Connection Manual (SH-080532ENG)
 For controllers that can be monitored by GOT and accessible range 	\triangleright	Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)
For connection method with Handy GOT	\triangleright	Chapter 34 in Handy GOT User's Manual (JY997D20101)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

1

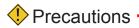
COT GOT

SOFTWARE

4.7 Other Devices

4.7.1 Sound output

System configuration							
	ation						
Target device +	-	Option unit	+	GOT			
• Speaker with amplifier	Sound	output GT15-SC	DUT	GT16/GT15			
			speaker with llowing specifi	amplifier that is compliant with cations.			
Item Specification							
		Sound output terminal		external speaker, 1 channel for L/R p-p, $0.4mW$ (for the rated voltage of $10k\Omega$))			
Applicable jack 3.5 stereo mini jackø							
Playable file Windows WAV format 8.000KHz, 16-bit-monoral (8 sec./sound file)							



Other precautions

Setting of sound output function with GT Designer2 Set the sound file with GT Designer2 before connecting a speaker with amplifier to the GOT.

Related Manuals

- · For details of system configuration and connection cable
- · For precautions and restrictions
- · For outlined procedure and checking of the sound output
- · For controllers that can be monitored by GOT and accessible range

(SH-080532ENG) Chapter 2 in GT Designer2 Version2 Screen Design

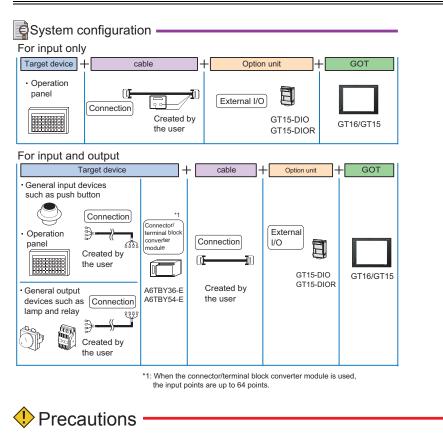
Manual (For GOT1000 Series) (SH-080530ENG)

Chapter 41 in GOT1000 Series Connection Manual

>For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

>

4.7.2 External I/O



Other precautions

 Setting of external I/O function with GT Designer2 Set the operation panel with GT Designer2 before connecting an external I/O device.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of external I/O
- For controllers that can be monitored by GOT and accessible range

Chapter 42 in GOT1000 Series Connection Manual (SH-080532ENG)

Chapter 2 in GT Designer2 Version2 Screen Design Manual (For GOT1000 Series) (SH-080530ENG)

* For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

 \sum

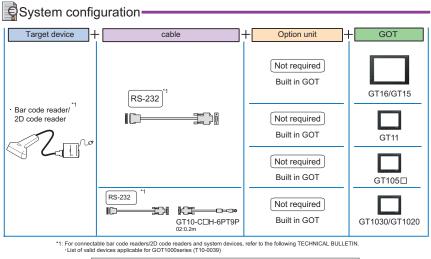
2

SOFTWARE

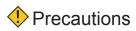
3

CONNECTION CONFIGURATION A FUNCTION

243



For TECHNICAL BULLETIN, access the MITSUBISHI ELECTRIC FA NETWORK SERVICE website. http://wwwf2.mitsubishielectric.co.jp/english/index.html



Other precautions

 Setting of bar code function with GT Designer2 Set the bar code function and system information with GT Designer2 before connecting a bar code reader.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions



Chapter 43 in GOT1000 Series Connection Manual (SH-080532ENG)

- For outlined procedure and checking of bar code reader connection
- * For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

|--|

-
Ō
200 <u>2</u>
 SOFTWARE
SOFT
3
z
UNCTIO
4
ON ATION
CONNECTION P FUNCTION
5 ي
COMPLIANCE WITH OVERSEAS STANDARDS
COMPLIANCE WITH OVERSE STANDARDS
6
ALS ALS
EQUIPMENT, SOFTWARE, AND MANUALS
EQU SOF
7
 RY
 GLOSSARY

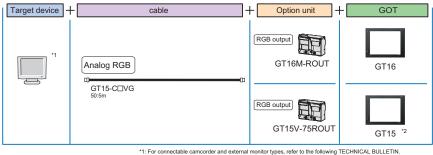
4.7.4 Video/RGB connection

System configuration -

1) Displaying video image on GOT

Target device	cable -	Coption unit	GOT
	Coaxial	Video/RGB input	
· Camcorder *1	Created by the user	GT16M-V4 GT16M-V4R1	GT16
and others	Connection Vision Coaxial	Video/RGB input	
Q	Created by the user	GT15V-75V4 GT15V-75V4R1	GT15 ^{*2}
	Analog RGB	Video/RGB input	
	GT15-CEVG 50.5m	GT16M-R2 GT16M-V4R1	GT16
	Connection Vision Analog RGB	Video/RGB input	
	Created by the user GT15-C⊟VG 50:5m	GT15V-75R1 GT15V-75V4R1	GT15 ^{*2}

2) Displaying GOT screen on external monitor



*1: For connectable camcorder and external monitor types, refer to the following TECHNICAL BULLETIN. ·List of valid devices applicable for GOT1000series (T10-0039)

For TECHNICAL BULLETIN, access the MITSUBISHI ELECTRIC FA NETWORK SERVICE website. http://wwwf2.mitsubishielectric.co.jp/english/index.html

*2: Only GT1585V and GT1575V are supported.

5

6

247

Precautions

Precautions on setup

Connecting to personal computer When connecting a personal computer, ground the ground cable of the personal computer.

Other precautions

Power supply of camcorder Depending on the camcorder type, a programmable controller and GOT may malfunction due to noise because of the power supply cable for a camcorder. In this case, attach the following line filter to the power supply line. Recommended line filter: ZHC2203-11 manufactured by TDK Corporation (or equivalent products) Power supply of vision sensor When using a camcorder via the vision sensor, a power supply unit of the vision sensor is required according to the vision sensor type to be used. Selecting output of video signal The video signal can be output from both a power supply unit of a camcorder and a camcorder according

to the camcorder and system to be used. When video signals are output from both the camcorder and power supply unit, the voltage levels for

some of the signals are reduced and images may not normally be displayed. In this case, output signals only from the camcorder.

Powering on camcorder Power on the camcorder simultaneously with a GOT.

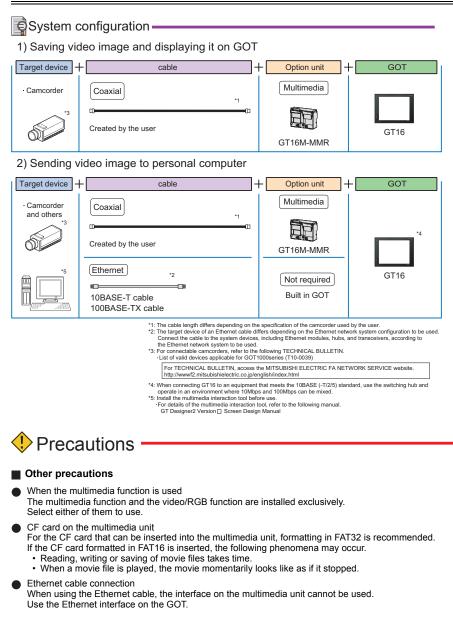
Related Manuals

- · For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of video/ **RGB** connection

Chapter 44 in GOT1000 Series Connection Manual (SH-080532ENG)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.7.5 Multimedia connection





- For details of system configuration and connection cable
- · For precautions and restrictions
- For outlined procedure and checking of multimedia connection



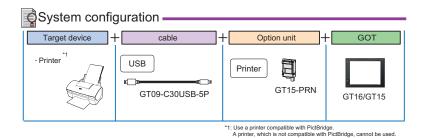
5

(SH-080532ENG)

Chapter 45 in GOT1000 Series Connection Manual



4.7.6 Printer connection



Precautions

Other precautions

Connecting or disconnecting USB cable during printing

When the USB cable is disconnected during printing, some printers hang depending on the PictBridge compatible printer model.

In this case, turn on the main power of the printer again and reboot the printer.

When printer is disabled

During initialization at power-on of a PictBridge compatible printer, some models of the printers notify a GOT that the printer is enabled.

For the printer models, when printing is started with the GOT, an error may occur in the printer, resulting in printing failures.

When printing is disabled, restart the printer with the following procedure.

- 1) Disconnect the USB cable from the printer.
- 2) Turn off the printer.
- 3) Disconnect the power cable of the printer and completely stop the printer.
- 4) Connect the power cable to the printer.
- 5) Turn on the printer and wait until initialization on the printer is completed.
- 6) Connect the USB cable to the printer.

Related Manuals

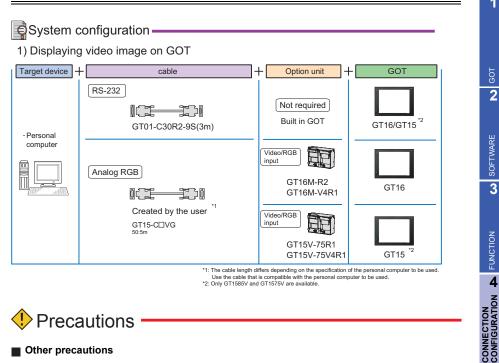
- For details of system configuration and connection cable
- · For precautions and restrictions



Chapter 46 in GOT1000 Series Connection Manual (SH-080532ENG)

- For outlined procedure and checking of printer connection
- * For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

4.7.7 Remote personal computer operation connection



Precautions

Other precautions

Personal computer side setting Before using the remote personal computer operation function, install the remote personal computer operation driver on the personal computer. winstalled.

After the driver	installation,	спеск	that the	ariver	is correctly	Installe

Related Manuals

- · For details of system configuration and connection cable
- For precautions and restrictions
- · For outlined procedure and checking of remote personal computer operation connection

Chapter 47 in GOT1000 Series Connection Manual (SH-080532ENG)

For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

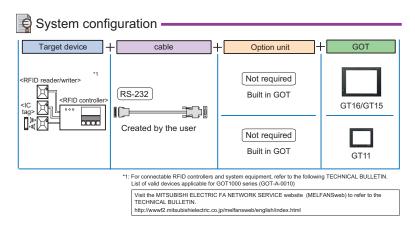
5

COMPLIANCE WITH OVERSEAS STANDARDS

6

EQUIPMENT, SOFTWARE, AND MANUALS

4.7.8 RFID connection



Precautions

Other precautions

- RFID function setting on GT Designer2
 Set the RFID function and system information with GT Designer2 before connecting a RFID controller.
- Communication in multiple RFID readers/writers connection When connecting multiple RFID readers/writers, some controllers may communicate with each RFID reader/writer.

For communicating the RFID controller with the each RFID reader/writer, set an interlock so that the RFID controller does not communicate with RFID readers/writers until the executing communication is completed.

Related Manuals

- For details of system configuration and connection cable
- · For precautions and restrictions



Chapter 48 in GOT1000 Series Connection Manual (SH-080532ENG)

- For outlined procedure and checking of RFID connection
- * For restrictions and precautions on controllers connected to a GOT, refer to the manual for each controller.

|--|

ŌŢ
201 2
S SOFTWARE
SOFT
3
z
NCTIO
4
ATION
CONNECTION P FUNCTION
5
U,
NCE ERSEA
 OMPLIANCE ITH OVERSEA FANDARDS
<pre>OMPLIANCE OMPLIANCE STANDARDS</pre>
6
6
EQUIPMENT, SOFTWARE, AND MANUALS
6
9 BOLIPMENT, SOFTWARE, AND MANUALS
EQUIPMENT, SOFTWARE, AND MANUALS

Precautions on setup

- (1) When installing communication unit or connecting cable Shut off all phases of the GOT power.
- (2) When using RS-422 conversion unit

Set [Communication Setting] in the utility so that the 5VDC power is supplied to the RS-422 conversion unit via the RS-232 interface of the GOT.

5. COMPLIANCE WITH OVERSEAS STANDARDS

This chapter describes the compliance with overseas standards for the GOT, communication interface, and option.

5. COMPLIANCE WITH OVERSEAS STANDARDS 256

5. COMPLIANCE WITH OVERSEAS STANDARDS

The GOT is compliant with the following safety standards, including UL standard. For the latest compliance with overseas standards, access the MITSUBISHI ELECTRIC FA NETWORK SERVICE website.

http://wwwf2.mitsubishielectric.co.jp/english/index.html



EMC : EMC Directive LVD : Low Voltage Directive

Product name		Model		С	E
		Model	UL/cUL	EMC	LVD
		GT1695M-XTBA			
	GT16	GT1695M-XTBD			-
	GIIO	GT1685M-STBA			
		GT1685M-STBD		\bigtriangleup	-
		GT1595-XTBA	0	0	0
		GT1595-XTBD	0	0	-
		GT1585V-STBA	0	0	0
		GT1585V-STBD	0	0	-
		GT1585-STBA	0	0	0
		GT1585-STBD	0	0	-
	GT15	GT1575V-STBA	0	0	0
		GT1575V-STBD	0	0	-
		GT1575-STBA	0	0	0
GOT main		GT1575-STBD	0	0	-
unit		GT1575-VTBA	0	0	0
		GT1575-VTBD	0	0	-
		GT1575-VNBA	0	0	0
		GT1575-VNBD	0	0	-
		GT1572-VNBA	0	0	0
		GT1572-VNBD	0	0	-
		GT1565-VTBA	0	0	0
		GT1565-VTBD	0	0	-
		GT1562-VNBA	0	0	0
		GT1562-VNBD	0	0	-
		GT1555-VTBD	0	0	-
		GT1555-QTBD	0	0	-
		GT1555-QSBD	0	0	-
		GT1550-QLBD	0	0	-

 \bigcirc : Compliant \triangle : Soon to be compliant \times : Not compliant \neg : Not applied

Product name				C	E	1
Pro	oduct name	Model	UL/cUL	EMC	LVD	
		GT1155-QTBDQ	0	0	-	1
		GT1155-QTBDA	0	0	-	
		GT1155-QTBD	0	0	-	
		GT1155-QSBDQ	0	0	-	GOT
		GT1155-QSBDA	0	0	-	<u> </u>
	GT11	GT1155-QSBD	0	0	-	2
		GT1155HS-QSBD	0	0	-	
GOT main		GT1150-QLBDQ	0	0	-	ш
		GT1150-QLBDA	0	0	-	SOFTWARE
		GT1150-QLBD	0	0	-	DFTV
		GT1150HS-QLBD	0	0	-	S
		GT1055-QSBD		0	-	3
		GT1050-QBBD		0	-	
		GT1030-LBD	0	0	-	
		GT1030-LBDW	0	0	-	NO
	GT10	GT1030-LBD2	0	0	-	FUNCTION
		GT1030-LBDW2	0	0	-	FUN
unit		GT1030-LWD	0	0	-	4
		GT1030-LWDW	0	0	-	
		GT1030-LWD2	0	0	-	NOL
		GT1030-LWDW2	0	0	-	CONNECTION
		GT1020-LBD	0	0	-	
		GT1020-LBDW	0	0	-	NO SNO
		GT1020-LBD2	0	0	-	5
		GT1020-LBDW2	0	0	-	5
		GT1020-LBL	0	0	-	COMPLIANCE WITH OVERSEAS STANDARDS
		GT1020-LBLW	0	0	-	SUS SUS
		GT1020-LWD	0	0	-	DAF
		GT1020-LWDW	0	0	-	AHEINE
		GT1020-LWD2	0	0	-	
		GT1020-LWDW2	0	0	-	6
		GT1020-LWL	0	0	-	
		GT1020-LWLW	0	0	-	ALS
		GT15-QBUS	0	0	-	EQUIPMENT, SOFTWARE, AND MANUALS
		GT15-QBUS2	0	0	-	
		GT15-ABUS	0	0	-	SOI SOI
Communica-	Due serve sties with	GT15-ABUS2	0	0	-	7
tion unit	Bus connection unit	GT15-75QBUSL	0	0	-	
		GT15-75QBUS2L	0	0	-	
		GT15-75ABUSL	0	0	-	ž
		GT15-75ABUS2L	0	0	-	SLOSSARY

 \bigcirc : Compliant $\ \bigtriangleup$: Soon to be compliant $\ \times$: Not compliant $\ -$: Not applied

_				C	E
Pi	roduct name	Model	UL/cUL	EMC	LVD
		GT15-RS2-9P	0	0	-
	Serial communication unit	GT15-RS4-9S	0	0	-
	unit	GT15-RS4-TE	0	0	-
		GT15-RS2T4-9P	0	0	-
	RS-422 conversion unit	GT15-RS2T4-25P	0	0	-
Communica-	Ethernet communication unit	GT15-J71E71-100	0	0	-
tion unit	MELSECNET/H	GT15-J71LP23-25	0	0	-
	communication unit	GT15-J71BR13	0	0	-
	CC-Link communication unit	GT15-J61BT13	0	0	-
	CC-Link IE controller network communication unit	GT15-J71GP23-SX	0	0	-
	Printer unit	GT15-PRN	0	0	-
	Multimedia unit	GT16M-MMR			-
	Video input unit	GT15V-75V4	0	0	-
		GT16M-V4		\bigtriangleup	-
		GT15V-75R1	0	0	-
	RGB input unit	GT16M-R2		\bigtriangleup	-
		GT15V-75V4R1	0	0	-
	Video/RGB input unit	GT16M-V4R1		\bigtriangleup	-
		GT15V-75ROUT	0	0	-
	RGB output unit	GT16M-ROUT			-
Option unit	CF card unit	GT15-CFCD		\bigtriangleup	-
option unit	CF card extension unit	GT15-CFEX-C08SET		\triangle	-
	Sound output unit	GT15-SOUT	0	0	-
		GT15-DIO	0	0	-
	External I/O unit	GT15-DIOR	0	0	-
		GT16-90XLTT	*1	*1	*1
		GT16-80SLTT GT15-90XLTT	*1	*1 *1	*1 *1
		GT15-90XLTT GT15-80SLTT	*1	*1	*1
	Backlight	GT15-70SLTT	*1	*1	*1
		GT15-70VLTT	*1	*1	*1
		GT15-70VLTN	*1	*1 *1	*1 *1
		GT15-60VLTT GT15-60VLTN	*1	*1	*1
	1	ST13-00VLIN	II '	I	1

 \bigcirc : Compliant \triangle : Soon to be compliant \times : Not compliant \rightarrow : Not applied

				C	E	1
Pr	oduct name	Model	UL/cUL	EMC	LVD	
		GT16-MESB			-	
		GT15-FNB	0	0	-	
		GT15-QFNB	0	0	-	
	Option function board	GT15-QFNB16M	0	0	-	GOT
	Option function board	GT15-QFNB32M	0	0	-	
		GT15-QFNB48M	0	0	-	2
		GT11-50FNB	×	0	-	
		GT15-MESB48M	0	0	-	
	GT10 memory loader	GT10-LDR	×	-	-	ARE
	GT10 memory board	GT10-50FMB	×	\bigtriangleup	-	SOFTWARE
		GT16-90PSCB		-	-	so
		GT16-90PSGB		-	-	3
		GT16-90PSCW		-	-	
		GT16-90PSGW		-	-	
		GT16-80PSCB		-	-	z
		GT16-80PSGB		-	-	CTIO
		GT16-80PSCW		-	-	FUNCTION
		GT16-80PSGW		-	-	4
		GT15-90PSCB	0	-	-	4
Option unit		GT15-90PSGB	0	-	-	Z
		GT15-90PSCW	0	-	-	CONNECTION
		GT15-90PSGW	0	-	-	GUR
		GT15-80PSCB	0	-	-	NNE
		GT15-80PSGB	0	-	-	
	Protective sheet	GT15-80PSCW	0	-	-	5
		GT15-80PSGW	0	-	-	AS
		GT15-70PSCB	0	-	-	SE
		GT15-70PSGB	0	-	-	VER
		GT15-70PSCW	0		-	HPL
		GT15-70PSGW	0	-	-	COMPLIANCE WITH OVERSEAS
		GT15-60PSCB	0	-	-	6
		GT15-60PSGB	0	-	-	
		GT15-60PSCW	0		-	
		GT15-60PSGW		-	-	Ęщ
			0			EQUIPMENT, SOFTWARE.
		GT15-50PSCB	0	-	-	DETV
		GT15-50PSGB	0	-	-	
		GT15-50PSCW	0	-	-	7
		GT15-50PSGW	0	-	-	

*1 Compliant with the standard with the product built in the GOT.

 \bigcirc : Compliant \triangle : Soon to be compliant \times : Not compliant \neg : Not applied

Product name		Model	UL/cUL	С	E
P	roduct name	woder	UL/CUL	EMC	LVD
		GT11-50PSCB	×	-	-
		GT11-50PSGB	×	-	-
		GT11-50PSCW	×	-	-
		GT11-50PSGW	×	-	-
		GT11H-50PSC	×	-	-
		GT10-50PSCB	×	-	-
		GT10-50PSGB	×	-	-
		GT10-50PSCW	×	-	-
	Protective sheet	GT10-50PSGW	×	-	-
		GT10-30PSCB	×	-	-
		GT10-30PSGB	×	-	-
		GT10-30PSCW	×	-	-
		GT10-30PSGW	×	-	-
		GT10-20PSCB	×	-	-
		GT10-20PSGB	×	-	-
		GT10-20PSCW	×	-	-
		GT10-20PSGW	×	-	-
		GT16-UCOV	*1	-	-
	USB environmental	GT15-UCOV	*1	-	-
	protection cover	GT11-50UCOV	*1	-	-
	Protective cover for oil	GT05-90PCO	×	-	-
Option		GT05-80PCO	×	-	-
		GT05-70PCO	×	-	-
		GT05-60PCO	×	-	-
		GT05-50PCO	×	-	-
		GT15-90STAND	-	-	-
		GT15-80STAND	-	-	-
	Stand	GT15-70STAND	-	-	-
		GT15-50STAND	-	-	-
		GT05-50STAND	-	-	-
		GT05-MEM-32MC	0	0	-
	CF card	GT05-MEM-64MC	0	0	-
		GT05-MEM-128MC	0	0	-
		GT05-MEM-256MC	0	0	-
	Memory card adaptor	GT05-MEM-ADPC	0	-	-
		GT15-70ATT-98	-	-	-
		GT15-70ATT-87	-	-	1
		GT15-60ATT-97	-	-	-
	Attachment	GT15-60ATT-96	-	-	-
		GT15-60ATT-87	-	-	-
		GT15-60ATT-77 GT15-50ATT-95W	-		-
		GT15-50ATT-95W	-	-	-

*1 Compliant with the standard with the product built in the GOT.

 \bigcirc : Compliant $\ \bigtriangleup$: Soon to be compliant \times : Not compliant $\ \div$: Not applied

6. EQUIPMENT, SOFTWARE, AND MANUALS

This chapter describes equipment, software, and manuals related to the GOT.

6. EQUIPMENT, SOFTWARE, AND MANUALS

Main unit model name

GT	1695M	- XTBA]				
	C6deeen size	Code Display colors	Code Mounting type	Code Resolution	Code Display device	Code Power supply	Code Communication interface
	9 15"	5 256 colors or more	V Compatible with video/RGB	X XGA	TFT color	A 100 to 240VAC	Q ^{*1} With built-in bus connection interface for QCPU
	8 12.1"	2 16 colors	None Panel mount type	A (1024 × 768 dots)	T (high brightness,	D 24VDC	(Q mode)/motion controller CPU (Q series)
	7 10.4"	0 Monochrome	HS Handy type	S SVGA	wide viewing angle)	L 5VDC	+1 With built-in bus connection interface for
	6 8.4"		Compatible with	S (800×600 dots)	N TFT color		A QnA/ACPU/motion controller CPU (A series)
	5 5.7"		multimedia & Video/RGB	VGA	S STN color		2 ^{*2} With built-in RS-232
	3 4.5"			v (640×480 dots)	B STN monochrome		None ^{*2} With built-in RS-422
	2 3.7"			Q QVGA	(blue/white)		*1 : GT115Q_BDQ and GT115Q_
				(320×240 dots)	L STN monochrome		BDA only *2 : GT10 only
GT16	A variety of functions	s integrated functions, inclu	iding Ethernet and multimedia	None (288×96 dots)			
GT15	A wide range of ap	plications from network	ing to standalone use	(160×64 dots)			T10 backlight
GT11	Standard model w	ith basic functions for st	andalone use				hite backlight
GT10	Packed with the fu	nctionality necessary fo	ra HMI		W_W	hite None Gr	een backlight

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

GOT main units

	Mo	odel name	Screen size [resolution]	Display		lay colors er of colors)	Power supply	Memory size	Remarks
GT16	GT1695	GT1695M-XTBA 0000 GT1695M-XTBD 0000	15" XGA [1024 ×768 dots]	TFT color LCD (high brightness, wide viewing ang	e) 65536 c	olors	100-240VAC 24VDC	15MB	Compatible with multimedia & Video/RGB
0110	GT1685	GT1685M-STBA (1997) GT1685M-STBD (1997)	12.1" SVGA [800×600 dots]	TFT color LCD (high brightness, wide viewing ang	e) 65536 c	olors	100-240VAC 24VDC	15MB	Compatible with multimedia & Video/RGB
	GT1595	GT1595-XTBA GT1595-XTBD	15" XGA [1024×768 dots]	TFT color LCD (high brightness, wide viewing ang	65536.0	olors	100-240VAC 24VDC	9MB	-
	GT1585	GT1585V-STBA GT1585V-STBD GT1585-STBA	STBA TFT color LCD STBD 12.1" SVGA (high brightness, wide viewing angle)			olors	100-240VAC 24VDC 100-240VAC	9MB	Compatible with Video/RGB
		GT1585-STBD GT1575V-STBA GT1575V-STBD	10.4" SVGA	(high brightness, wide viewing ang TFT color LCD (high brightness, wide viewing ang	0)		24VDC 100-240VAC 24VDC		
GT15		GT1575-STBA GT1575-STBD GT1575-VTBA	[800×600 dots]	TFT color LCD (high brightness, wide viewing ang TFT color LCD	65536 c	olors	100-240VAC 24VDC	9MB	
	GT1570	GT1575-VTBD GT1575-VNBA	10.4" VGA	(high brightness, wide viewing ang TFT color LCD	e) 65536 c		100-240VAC 24VDC 100-240VAC	9MB 5MB	_
		GT1575-VNBD GT1572-VNBA	[640×480 dots]	TFT color LCD	16 color		24VDC 100-240VAC	5MB	
	GT156□	GT1572-VNBD TFT color LCD GT1565-VTBA TFT color LCD CT1565-VTBA R4" VGA		e) 65536 c	olors	24VDC 100-240VAC 24VDC	9MB		
	G1150L	GT1562-VNBA GT1562-VNBD	[640×480 dots]	TFT color LCD	16 color	s	100-240VAC 24VDC	5MB	-
	GT1550	GT1555-VTBD GT1555-QTBD GT1555-QSBD	5.7" VGA [640 ×480 dots] 5.7" QVGA	TFT color LCD (high brightness, wide viewing ang STN color LCD	e) 65536 c		24VDC	9MB	_
		GT1550-QLBD GT1550-QLBD GT1155-QTBD	[320×240 dots]	STN monochrome LCD		black/white) 16 gray scales	-		
	GT1155-QTBDQ GT1155-QTBDA GT1155-QTBDA GT1155-QSBD GT1155-QSBDQ		5.7" QVGA	TFT color LCD STN color LCD	- 256 cold	rs			Dedicated to Q bus connection Dedicated to A bus connection — Dedicated to Q bus connection
GT11	GT1150	GT1155-QSBDA GT1150-QLBD GT1150-QLBDQ GT1150-QLBDA	[320×240 dots]	STN monochrome LCD	Manachrome (black/white) 16 gray scales	24VDC	3MB	Dedicated to A bus connection — Dedicated to Q bus connection Dedicated to A bus connection
	Handy GOT	GT1155HS-QSBD GT1150HS-QLBD		STN color LCD STN monochrome LCD	256 cold	ors black/white) 16 gray scales			-
	GT1050	GT1055-QSBD (NEW) GT1050-QBBD (NEW)	5.7" QVGA [320×240 dots]	STN color LCD STN monochrome LCD	256 cold		24VDC	3MB	-
		GT1030-LBD GT1030-LBD2 GT1030-LBDW GT1030-LBDW2	4.5" [288×96 dots]	STN monochrome LCD Bla	Monochrom		24VDC	1.5MB	Dedicated to RS-422 connection Dedicated to RS-232 connection Dedicated to RS-422 connection Dedicated to RS-232 connection
	GT1030	GT1030-LWD GT1030-LWD2 GT1030-LWDW GT1030-LWDW2	4.5" [288×96 dots]	STN monochrome LCD Wh	ite Monochrom (black/white	3-color LED (green, orange, red)	24VDC	1.5MB	Dedicated to RS-422 connection Dedicated to RS-232 connection Dedicated to RS-422 connection Dedicated to RS-422 connection
GT10		GT1020-LBD GT1020-LBD2	-			3-color LED	24VDC		Dedicated to RS-232 connection Dedicated to RS-232 connection
		GT1020-LBL GT1020-LBDW	3.7" [160 ×64 dots]	STN monochrome LCD Bla	ck Monochrom (black/white		5VDC	512KB	Dedicated to RS-422FX connection Dedicated to RS-422 connection
		GT1020-LBDW2 GT1020-LBDW2 GT1020-LBLW	[100 KOF GOIA]		(DIGLOV WITTE	⁹ 3-color LED (white, pink, red)	24VDC	-	Dedicated to RS-232 connection Dedicated to RS-232 connection
	GT1020	GT1020-LWD GT1020-LWD2	-			3-color LED	24VDC		Dedicated to RS-422 connection Dedicated to RS-232 connection
		GT1020-LWL GT1020-LWDW	3.7" [160×64 dots]	STN monochrome LCD Wh	ite Monochrom (black/white		5VDC	512KB	Dedicated to RS-422FX connection Dedicated to RS-422 connection
		GT1020-LWDW2	1	1	- Ľ	3-color LED	24VDC	1	Dedicated to RS-232 connection

Communication interface

Product name	Model name	Specifications			Applicable model					
Product name	wodername			GT16	GT15	GT11	Handy GOT	GT10		
	GT15-QBUS	Bus connection (1ch) unit standard model for QCPU (Q mode)/motion controller CPU (Q series)		•	•	-	-	-		
	GT15-QBUS2	Bus connection (2ch) unit standard model for QCPU (Q mode)/motion controller CPU (Q series)			٠	-	-	-		
	GT15-ABUS	Bus connection (1ch) unit standard model for QnA/ACPU/motion controller CPU (A series)		•	٠	-	-	-		
Bus connection unit	GT15-ABUS2	Bus connection (2ch) unit standard model for QnA/ACPU/motion controller CPU (A series)		•	•	-	-	-		
Bus connection unit	GT15-75QBUSL	Bus connection (1ch) unit thin model ^{*1} for QCPU (Q mode)/motion controller CPU (Q seri	es)	•	•	-	-	-		
	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)			٠	-	-	-		
	GT15-RS2-9P	RS-232 serial communication unit (D-sub 9-pin (m	ale))	•	۲	-		-		
Serial communication unit	GT15-RS4-9S	RS-422/485 serial communication unit (D-sub 9-pi	n (female))*2*3	•	•	-	-	-		
Serial communication unit	GT15-RS4-TE	RS-422/485 serial communication unit (terminal bl *Usable only when connecting to temperature controllers/ii		•	•	-	-	-		
RS-422 conversion unit	GT15-RS2T4-9P	BS-232->BS-422 conversion unit	RS-422 connector: 9-pin	•	• *4	-	-	-		
	GT15-RS2T4-25P	K3-232-K3-422 Conversion unit	RS-422 connector: 25-pin	•	• *4	-	-	-		
MELSECNET/H	GT15-J71LP23-25	Optical loop unit		•	•	-	-	-		
communication unit	GT15-J71BR13	Coaxial bus unit		•	٠	-	-	-		
CC-Link IE controller network communication unit	GT15-J71GP23-SX	Optical loop unit			•	-	-	-		
CC-Link communication unit	GT15-J61BT13	Intelligent device station unit (supporting CC-Link	version 2)	٠	٠	-	-	-		
Ethernet communication unit	GT15-J71E71-100	Ethernet (100Base-TX) unit		-	•	-	-	L -		

The unit around be used stacked on other units.
 The unit rany not be alled be used depending on the connection destination. See "List of connectable models" (sage 86, 87).
 The unit rany not be alled be used when comercing to temperature controllers/indicating controllers via RS-485 (2-wire type).
 The unit cannot be used with the GT155D

Optional units

Product name	Model name	0		Appl	icable m	nodel	
Product name	wodername	Specifications	GT16	GT15	GT11	Handy GOT	GT10
Printer unit	GT15-PRN	USB slave (PictBridge) for printer connection, 1ch			_	_	_
Finterunit	GTID-PRIN	*Cable for printer connection (3m) included	-		-		_
Multimedia unit	GT16M-MMR NEW	For video input (NTSC/PAL) 1ch motion image playback	•	-	-	-	-
Video input unit	GT16M-V4 (NEW)	For video input (NTSC/PAL) 4ch	•	-	-	-	-
video input unit	GT15V-75V4	For video input (NTSC/PAL) 4ch	-	• 15	-	-	-
RGB input unit	GT16M-R2 (NEW)	For analog RGB input 2ch	٠	-	-	-	-
RGB input unit	GT15V-75R1	For analog RGB input 1ch	-	9 15	-	-	-
Video/RGB input unit	GT16M-V4R1 NEW	For video input (NTSC/PAL) 4ch / analog RGB 1ch composite input	٠	-	-	-	-
VIdeo/RGB Input unit	GT15V-75V4R1	For video input (NTSC/PAL) 4ch / analog RGB 1ch composite input	-	• 15	-	-	-
RGB output unit	GT16M-ROUT NEW	For analog RGB output 1ch	٠	-	-	-	-
RGB output unit	GT15V-75ROUT	For analog RGB output	-	• 15	-	-	-
CF card unit	GT15-CFCD	For additional CF card port (B drive) on the back of the GOT	•	•	-	-	-
CF card extension unit	GT15-CFEX-C08SET	For additional CF card port (B drive) at the front of the control panel ^{*6}	٠	•	-	-	-
Sound output unit	GT15-SOUT	For sound output	•	•	-	-	-
External input/output unit	GT15-DIOR NEW	For external input/output devices and operation panel connection (negative common input / source type output)	•	•	-	-	-
External input/output unit	GT15-DIO	For external input/output devices and operation panel connection (positive common input / sink type output)	•	•	-	-	-

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

Software

				Included	products		
Product name	Model nar	ne	Screen design software	Simulation software	Simple data conversion function	SoftGOT function ^{*7}	Remarks
			GT Designer2 Ver.2	GT Simulator2 Ver.2	GT Converter2 Ver.2	GT SoftGOT1000 Ver.2	
GT Designer2	SW2D5C-GTD2-E	(Version upgrade)	•	-	•	•	English version
Version2	SW2D5C-GTD2-EV	(Version upgrade)	Version upgrade softwar	e (to upgrade GT Designer.	2 to the latest version)		English version
GT Works2	SW2D5C-GTWK2-E	(Version upgrade)	•	•	•	•	English version
Version2	SW2D5C-GTWK2-EV	(Version upgrade)	Version upgrade software	e (to upgrade GT Works2 to	o the latest version)		English version
License key for	GT15-SGTKEY-U		For USB port				-
GT SoftGOT1000*7	GT15-SGTKEY-P		For parallel port				-

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

3

Options

Product name	Model name	Spe	ecifications	GT16	GT15	licable n GT11	Handy GOT	G
	GT16-90XLTT		For GT1695M-XTBD		-	-	-	1
	GT16-80SLTT	1	For GT1685M-STBD	ě	-	-	-	+
	GT15-90XLTT		For GT1595-XTBD	-	•	-	-	+
				-		-	-	+
	GT15-80SLTT		For GT1585V-STBD/GT1585-STBD	-	٠	-	-	
acklight	GT15-70SLTT	Backlight	For GT1575-STBD ^{*1}	-	•	-	-	
5	GT15-70VLTT		For GT1575V-STBD/GT1575-VTBD/GT1575-STBD12	-		-	-	-
	GT15-70VLTN		For GT1575-VNBD/GT1572-VNBD					+
				-		-	-	+
	GT15-60VLTT		For GT1565-VTBD	-	•	-	-	
	GT15-60VLTN		For GT1562-VNBD	-	•	-	-	
	GT16-MESB NEW		For MES interface function	•	-	-	-	-
	GT15-FNB	Optional function board		-		-	-	+
		* The required optional function board	(No expansion memory)			-	-	-
	GT15-QFNB	varies depending on the GOT main unit	(No expansion memory)	-	•	-	-	
	GT15-QFNB16M		+ 16MB expansion memory	-	•	-	-	
ptional function board	GT15-QFNB32M	and function.	+ 32MB expansion memory	-		-	-	+
	GT15-QFNB48M	For the details, see "Notes for use"	+ 48MB expansion memory					+
		(page 30).		-	-	-	-	-
	GT15-MESB48M		+ 48MB expansion memory	-	•	-	-	
	GT11-50FNB	Optional function board		-	-	6 '3	•	
T10 memory loader	GT10-LDR		data transfer) no navior course required	-	-	-	-	
		For GT1030/G11020 (101 03 project	data transfer) no power source required	_	_	_		+
T10 memory board	GT10-50FMB NEW	For GT105D (for OS and project dat	a transfer)	-	-	-	-	
	GT16-90PSCB		Clear, 5 sheets	٠	-	-	-	
	GT16-90PSGB		Antiglare, 5 sheets		-	-	-	-
					-			+-
	GT16-90PSCW	-	Clear (frame: white), 5 sheets		-	-	-	+
	GT16-90PSGW	Protective sheet for 15" screen	Antiglare (frame: white), 5 sheets	•	-	-	-	
	GT15-90PSCB	I TOTACTIVE STIERT OF 15 SCLEEU	Clear, 5 sheets	-	•	-	-	Г
	GT15-90PSGB	1	Antiglare, 5 sheets	-	ě	-	-	+
		1		+		-	-	+
	GT15-90PSCW	4	Clear (frame: white), 5 sheets	-	٠	-	-	+
	GT15-90PSGW		Antiglare (frame: white), 5 sheets		•	-		1
	GT16-80PSCB NEW		Clear, 5 sheets		-	-	-	1
	GT16-80PSGB	1	Antiglare, 5 sheets		- 1	-	-	+
		1			+			+
	GT16-80PSCW NEW	1	Clear (frame: white), 5 sheets		-	-	-	
	GT16-80PSGW	Destaution also at fair 40 48 a	Antiglare (frame: white), 5 sheets	•		-	-	1
	GT15-80PSCB	Protective sheet for 12.1" screen	Clear. 5 sheets	1 -		-	-	1
								+-
	GT15-80PSGB		Antiglare, 5 sheets	-	•	-	-	
	GT15-80PSCW		Clear (frame: white), 5 sheets	-	•	-	-	
	GT15-80PSGW	1	Antiglare (frame: white), 5 sheets	-		-	-	-
			Clear E sheets					+
	GT15-70PSCB		Clear, 5 sheets	-				+
	GT15-70PSGB	Protective sheet for 10.4" screen	Antiglare, 5 sheets	-	•	-	-	
	GT15-70PSCW	11010001/06 311001 10.4 3010011	Clear (frame: white), 5 sheets	-	•	-	-	
	GT15-70PSGW		Antiglare (frame: white), 5 sheets	-		-	-	+
	GT15-60PSCB		Clear, 5 sheets		ě			+
					-	-		+
	GT15-60PSGB	Protective sheet for 8.4" screen	Antiglare, 5 sheets	-	•	-	-	
otective sheet	GT15-60PSCW		Clear (frame: white), 5 sheets	-	•	-	-	
	GT15-60PSGW		Antiglare (frame: white), 5 sheets	-		-	-	+
	GT15-50PSCB			-				+
			Clear, 5 sheets	-		-	-	+
	GT15-50PSGB	Protective sheet for 5.7" screen	Antiglare, 5 sheets	-	•	-	-	
	GT15-50PSCW	(for GT15)	Clear (frame: white), 5 sheets	-		-	-	
	GT15-50PSGW	()	Antiglare (frame: white), 5 sheets	_	i i	-		+
				_		_	_	+-
	GT11-50PSCB		Clear, 5 sheets	-	-	٠	-	
	GT11-50PSGB	Protective sheet for 5.7" screen	Antiglare, 5 sheets	-	-	۲	-	
	GT11-50PSCW	(for GT11)	Clear (frame: white), 5 sheets	-	-		-	1
	GT11-50PSGW	(101 0111)	Antiphere (frame, white), 5 sheets	-				+
			Antiglare (frame: white), 5 sheets	-	-	٠	-	+
	GT11H-50PSC	Protective sheet for 5.7* screen (for Handy GOT)	Clear, 5 sheets	-	-	-	•	
	GT10-50PSCB (NEW)		Clear, 5 sheets	-	-	-	-	
	GT10-50PSGB NEW	Protective sheet for 5.7" screen	Antiglare, 5 sheets	-	_	-		+
								+
	GT10-50PSCW NEW	(for GT1050)	Clear (frame: white), 5 sheets	-	-	-	-	
	GT10-50PSGW		Antiglare (frame: white), 5 sheets	-	-	-	-	1
	GT10-30PSCB		Clear, 5 sheets	-	-	-	-	1
	GT10-30PSGB	Protective sheet for 4.5" screen						+
			Antiglare, 5 sheets	+	+	<u> </u>		+
	GT10-30PSCW	(for GT1030)	Clear (frame: white), 5 sheets			-	-	
	GT10-30PSGW		Antiglare (frame: white), 5 sheets			-	-	17
	GT10-20PSCB		Clear, 5 sheets	- 1	-	-	-	+
	CT10 2008CD	Protective sheet for 3.7" screen		_		-	_	+
	GT10-20PSGB		Antiglare, 5 sheets	-	-	-	-	+
	GT10-20PSCW	(for GT1020)	Clear (frame: white), 5 sheets		-	-	-	1
	GT10-20PSGW		Antiglare (frame: white), 5 sheets	-	-	-	-	
		Protective cover for USB interface	For 15"/12.1"	•	-	-	-	+
				-	+ -	-		+
	GT16-UCOV		For 15"/12.1"/10.4"/8.4"	1 -	۲		-	
B protective cover	GT15-UCOV	on main unit front panel				•	-	1
B protective cover		on main unit front panel (for replacement)	For 5.7"	-	•			1
SB protective cover	GT15-UCOV GT11-50UCOV	(for replacement)				-	-	
B protective cover	GT15-UCOV GT11-50UCOV GT05-90PCO	(for replacement) Oil resistant cover for 15" screen		•	•	-	-	+
	GT15-UCOV GT11-50UCOV GT05-90PCO GT05-80PCO	(for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen			•	-	-	
	GT15-UCOV GT11-50UCOV GT05-90PCO GT05-80PCO GT05-70PCO	(for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen		•	•	-		-
	GT15-UCOV GT11-50UCOV GT05-90PCO GT05-80PCO GT05-70PCO	(for replacement) Oil resistant cover for 15" screen		•	•	-		
	GT15-UCOV GT11-50UCOV GT05-90PCO GT05-80PCO GT05-70PCO GT05-70PCO GT05-60PCO	(for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen Oil resistant cover for 10.4" screen Oil resistant cover for 8.4" screen		•	•			
resistant cover"5	GT15-UCOV GT11-50UCOV GT05-90PCO GT05-80PCO GT05-70PCO GT05-60PCO GT05-60PCO GT05-50PCO	(for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen Oil resistant cover for 10.4" screen Oil resistant cover for 8.4" screen Oil resistant cover for 5.7" screen	For 5.7*	•	•	-		
resistant cover"5	GT15-UCOV GT11-50UCOV GT05-90PCO GT05-80PCO GT05-70PCO GT05-60PCO GT05-50PCO GT11H-50ESCOV	(for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen Oil resistant cover for 10.4" screen Oil resistant cover for 8.4" screen Oil resistant cover for 5.7" screen For accidental operation prevention	For 5.7*	• • 	• • • •			
resistant cover"5	GT15-UCOV GT11-50UCOV GT05-90PCO GT05-80PCO GT05-70PCO GT05-60PCO GT05-60PCO GT05-50PCO	(for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen Oil resistant cover for 10.4" screen Oil resistant cover for 8.4" screen Oil resistant cover for 5.7" screen For accidental operation prevention	For 5.7*	•	•			
resistant cover"5	GT15-UCOV GT11-50UCOV GT05-90PCO GT05-80PCO GT05-70PCO GT05-70PCO GT05-50PCO GT05-50PCO GT11H-50ESCOV GT11-50ESCOV GT15-90STAND	(for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen Oil resistant cover for 10.4" screen Oil resistant cover for 8.4" screen Oil resistant cover for 5.7" screen For accidental operation prevention i Stand for 15" type	For 5.7*	• • - - - -	• • • • • •			
resistant cover"5	GT15-UCOV GT11-50UCOV GT05-80PCO GT05-80PCO GT05-80PCO GT05-80PCO GT05-80PCO GT15-80PCO GT11H-50ESCOV GT15-80STAND GT15-80STAND	(for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen Oil resistant cover for 10.4" screen Oil resistant cover for 7.4" screen For accidental operation prevention Stand for 15" type Stand for 12.1" type	For 5.7*	• • 	• • • • • • • • •		 	
resistant cover"5	GT15-UCOV GT11-50UCOV GT05-90PCO GT05-90PCO GT05-70PCO GT05-70PCO GT05-50PCO GT05-50PCO GT15-90STAND GT15-90STAND GT15-70STAND GT15-70STAND	(for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen Oil resistant cover for 1.04" screen Oil resistant cover for 8.4" screen For accidental operation prevention Stand for 15" type Stand for 12.1" type Stand for 12.1" type	For 5.7*	• • - - - -	• • • • • • • • • • • • •			
resistant cover"5	GT15-UCOV GT11-50UCOV GT05-80PCO GT05-80PCO GT05-80PCO GT05-80PCO GT05-80PCO GT15-80PCO GT11H-50ESCOV GT15-80STAND GT15-80STAND	(for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen Oil resistant cover for 1.04" screen Oil resistant cover for 8.4" screen For accidental operation prevention Stand for 15" type Stand for 12.1" type Stand for 12.1" type	For 5.7*	• • - - - -	• • • • • • • • •		 	
resistant cover"5	GT15-BUCOV GT11-50UCOV GT05-90PCO GT05-80PCO GT05-70PCO GT05-50PCO GT05-50PCO GT15-80STAND GT15-80STAND GT15-80STAND GT15-70STAND GT15-70STAND	(or replacement) Oil resistant cover for 15° screen Oil resistant cover for 12.1° acreen Oil resistant cover for 4.1° acreen Oil resistant cover for 6.4° acreen Oil resistant cover for 6.7° acreen For accidental operation prevention Stand for 15° type Stand for 15.1° type Stand for 8.4°10.4° type Stand for 8.4°10.4° type	For 5.7*	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • •			
I resistant cover ^{*5} nergency stop switch guard	GT15-BUCOV GT05-80PCO GT05-80PCO GT05-80PCO GT05-80PCO GT05-50PCO GT05-50PCO GT11-50ESCOV GT11-50ESCOV GT15-90STAND GT15-80STAND GT15-70STAND GT05-50STAND GT05-50STAND	I for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen Oil resistant cover for 10.4" screen Oil resistant cover for 8.4" screen Oil resistant cover for 8.7" screen For accidental operation prevention Stand for 15" type Stand for 4.1" type Stand for 5.7" type Stand for 5.7" type Stand for 5.7" type	For 5.7*	· · · · · · · · · · · · · · · · · · ·	• •			
I resistant cover ^{*5} nergency stop switch guard	GT15-BUCOV GT15-BUCOV GT05-BUPCO GT05-BUPCO GT05-BUPCO GT05-SUPCO GT05-SUPCO GT15-SUPCO GT15-BUPCO GT15-BUPCO GT15-BUPCAND GT15-PUPCAND GT15-PUPCAND GT15-SUPCAND GT15-SUPCAND GT05-SUPCAND GT05-SUPCAND GT05-SUPCAND GT05-SUPCAND GT05-SUPCAND	I for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen Oil resistant cover for 12.1" screen Oil resistant cover for 6.4" screen Oil resistant cover for 6.7" screen For accidental operation prevention Stand for 15" type Stand for 6.4"/10.4" type Stand for 8.4"/10.4" type Stand for 8.4"/10.4" type Stand for 8.4"/10.4" type Stand for 8.4" type Stand for 8.4" type	For 5.7*	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • •			
SB protective cover	GT15-BUCOV GT05-80PCO GT05-80PCO GT05-80PCO GT05-80PCO GT05-50PCO GT05-50PCO GT11-50ESCOV GT11-50ESCOV GT15-90STAND GT15-80STAND GT15-70STAND GT05-50STAND GT05-50STAND	I for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen Oil resistant cover for 12.1" screen Oil resistant cover for 6.4" screen Oil resistant cover for 6.7" screen For accidental operation prevention Stand for 15" type Stand for 6.4"/10.4" type Stand for 8.4"/10.4" type Stand for 8.4"/10.4" type Stand for 8.4"/10.4" type Stand for 8.4" type Stand for 8.4" type	For 5.7*	· · · · · · · · · · · · · · · · · · ·	• •			
I resistant cover ⁴⁵ nergency stop switch guard	GT15-BUCOV GT05-80PCO GT05-80PCO GT05-80PCO GT05-80PCO GT05-50PCO GT05-50PCO GT05-50PCO GT15-90STAND GT15-90STAND GT15-90STAND GT15-50STAND GT05-MEM-40MC GT05-MEM-42MC	I for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen Oil resistant cover for 10.4" screen Oil resistant cover for 3.4" screen Oil resistant cover for 3.5" screen For accidental operation prevention Stand for 15" type Stand for 12.1" type Stand for 5.7" spe Stand for 5.7" spe Sta	For 5.7*		• • • • • • • • • • • • • • • • • • •		 0 0 0	
I resistant cover ^{*5} nergency stop switch guard	GT15-DUCOV GT15-S0UCOV GT05-90PCO GT05-90PCO GT05-70PCO GT05-50PCO GT05-50PCO GT15-50STAND GT15-90STAND GT15-50STAND GT05-50STAND GT05-50STAND GT05-MEM-32MC GT05-MEM-44MC GT05-MEM-42SMC GT05-MEM-32MC GT05-MEM-32MC GT05-MEM-32MC GT05-MEM-32MC GT05-MEM-32MC GT05-MEM-32MC GT05-MEM-32MC	I for replacement) OI resistant cover for 15° screen OII resistant cover for 12.1° acreen OII resistant cover for 6.4° screen OII resistant cover for 6.4° screen OII resistant cover for 6.7° screen For accidental operation prevention Stand for 15° type Stand for 15.1° type Stand for 6.4°10.4° type Stand for 6.4°10.4° type Stand for 6.4°10.4° type Stand for 6.4°10.4° type Stand for 8.4°10.4° type	For 5.7*		• •		 	
resistant cover ¹⁵ rengency stop switch guard	GT15-DUCOV GT05-S0LCOV GT05-S0LCOV GT05-S0PCO GT05-S0PCO GT05-S0PCO GT05-S0PCO GT05-S0PCO GT05-S0PCO GT05-S0PCO GT15-S0STAND GT15-S0STAND GT05-S0STAND GT05-MEM-32MC GT05-MEM-32MC GT05-MEM-12MC GT05-MEM-12MC GT05-MEM-12MC GT05-MEM-12MC	I for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen Oil resistant cover for 10.4" screen Oil resistant cover for 8.4" screen Oil resistant cover for 8.4" screen For accidental operation prevention Stand for 15" type Stand for 8.4"(10.4" ty	For 5.7*		• • • • • • • • • • • • • • • • • • •			
resistant cover ¹⁵ rengency stop switch guard	GT15-DUCOV GT15-S0UCOV GT05-90PCO GT05-90PCO GT05-70PCO GT05-50PCO GT05-50PCO GT15-50STAND GT15-90STAND GT15-50STAND GT05-50STAND GT05-50STAND GT05-MEM-32MC GT05-MEM-44MC GT05-MEM-42SMC GT05-MEM-32MC GT05-MEM-32MC GT05-MEM-32MC GT05-MEM-32MC GT05-MEM-32MC GT05-MEM-32MC GT05-MEM-32MC	I for replacement) OI resistant cover for 15° screen OII resistant cover for 12.1° acreen OII resistant cover for 6.4° screen OII resistant cover for 6.4° screen OII resistant cover for 6.7° screen For accidental operation prevention Stand for 15° type Stand for 15.1° type Stand for 8.4°10.4° type	For 5.7*		• •		 	
resistant cover ¹⁵ rengency stop switch guard	GT15-DUCOV GT05-S0LCOV GT05-S0LCOV GT05-S0PCO GT05-S0PCO GT05-S0PCO GT05-S0PCO GT05-S0PCO GT05-S0PCO GT05-S0PCO GT15-S0STAND GT15-S0STAND GT05-S0STAND GT05-MEM-32MC GT05-MEM-32MC GT05-MEM-12MC GT05-MEM-12MC GT05-MEM-12MC GT05-MEM-12MC	I for replacement) Oil resistant cover for 15" screen Oil resistant cover for 12.1" screen Oil resistant cover for 10.4" screen Oil resistant cover for 8.4" screen Oil resistant cover for 8.4" screen For accidental operation prevention Stand for 15" type Stand for 8.4"(10.4" ty	For 5.7*		• •			

Options

Product name	Model name		Casail	ications			App	licable n	nodel	
Product name	wodername		Specii	ications		GT16	GT15	GT11	Handy GOT	GT10
	GT15-70ATT-98		A985GOT *6				٠	-	-	-
		Attachment for	A870GOT-SWS	A8GT-70GOT-TB	→GT157	_				
	GT15-70ATT-87	10.4" type	A870GOT-TWS	A8GT-70GOT-SW		_	•	-	-	-
			A8GT-70GOT-TW	A8GT-70GOT-SB						
	GT15-60ATT-97		A97 GOT				٠	-	-	-
	GT15-60ATT-96	1	A960GOT		1		٠	-	-	-
Attachment			A870GOT-EWS	A77GOT-EL-S5	1					
Audonmeni	GT15-60ATT-87	Attachment for	A8GT-70GOT-EW	A77GOT-EL-S3	→GT156	_	•	-	-	-
		8.4" type	A8GT-70GOT-EB	A77GOT-EL	-01130	_				
		1	A77GOT-CL-S5	A77GOT-L-S5	1					
	GT15-60ATT-77		A77GOT-CL-S3	A77GOT-L-S3			•	-	-	-
			A77GOT-CL	A77GOT-L						
	GT15-50ATT-95W	Attachment for	A956WGOT		GT155	_	٠	•	-	-
	GT15-50ATT-85	5.7" type	A85 GOT		GT115		٠	•	-	-
Battery	GT15-BAT	Battery for backu	p of clock data and ma	intenance time notificati	on data	•	•	-	-	-
Battery	GT11-50BAT	Battery for backup	o of clock data, alarm h	istory and recipe data (1	or replacement)	-	-	•	•	• 4
11: Function version B or earlier 22: Function version C or later 33: Excluding GT115Q.::BDQ and C 44: For GT105GT1030 only 55: Check if the oil resistant cover when using the oil resistant cover 5: Including the GP250:	be used in the actual environment b r, the front USB interface and human		L							

Manuals

Manual title	Contents	Catalog No.
GT Designer2 Version2 Basic Operation/Data Transfer Manual <for got1000="" series=""></for>	Basic software installation, basic screen design techniques, and data transfer to a terminal	SH-080529ENG
GT Designer2 Version2 Screen Design Manual <for got1000="" series=""></for>	Programming manual, including instruction for objects, specifications	SH-080530ENG
GOT1000 Series Connection Manual	System configurations and procedure to create customized cables	SH-080532ENG
GOT1000 Series Extended Function/Optional Function Manual	Information on extended functions and optional functions available to the GOT	SH-080544ENG
GOT1000 Series Gateway Function Manual	Specifications, system configurations and setting procedures for the Gateway function	SH-080545ENG
GOT1000 Series MES Interface Function Manual	Specifications, system configurations and setting procedures for the MES interface function	SH-080654EN0
GT16 User's Manual	GT16 general specification overview, parts and settings, external dimensions, mounting, wiring, optional interfaces	SH-080778ENG
GT15 User's Manual	GT15 general specification overview, parts and settings, external dimensions, mounting, wiring, optional interfaces	SH-080528ENG
GT11 User's Manual	GT11 general specification overview, parts and settings, external dimensions, mounting, wiring, optional interfaces	JY997D17501
Handy GOT User's Manual	Handy GOT general specification overview, parts and settings, external dimensions, wiring, optional interfaces, in addition to explanations of utility, system configurations, and cable fabrication	JY997D20101
GT10 User's Manual	GT10 general specification overview, parts and settings, external dimensions, mounting, wiring, optional interfaces	JY997D24701
GT SoftGOT1000 Version2 Operation Manual	GT SoftGOT1000 screen configuration, functions and operating procedures	SH-080602ENG
GT Simulator2 Version2 Operation Manual	GT Simulator2 specifications and operating instructions	SH-080546ENG
GT Converter2 Version2 Operation Manual	GT Converter2 operating instructions	SH-080533ENG

1

Cables

	Product name	Model name	Cable	Third party products	Application	-		able m		*2
			length	*1	, the second sec	GT16	GT15	GT11	GOT	GT
		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	•	•	•	-	- 1
us connection		GT15-QC50B	5m		Tor connection between GOT and GOT					
able for		GT15-QC100B	10m]						
CPU (Q mode)	Long-distance connection	GT15-QC150BS	15m							
		GT15-QC200BS	20m	1	For long-distance (13.2m or more) connection between					
	cable for QCPU	GT15-QC250BS	25m	1 0	QCPU and GOT (A9GT-QCNB required)	•	•	•	-	
	GOT-to-GOT long-distance	GT15-QC300BS	30m	1	For long-distance connection between GOT and GOT	-				
	connection cable	GT15-QC350BS	35m	1						
us extension conn	ector box	A9GT-QCNB	-	-	Used for QCPU long-distance (13.2m or more) bus connection		•	•	-	
	1	GT15-C12NB	1.2m	-	- · · ·		-	-		+
		GT15-C30NB	3m	0	For connection between QnA/ACPU/motion controller CPU				_	Ι.
		GT15-C50NB	5m	1 ×	(A series, extension base) and GOT	-	-			
		GT15-AC06B	0.6m							-
		GT15-AC12B	1.2m	1	For connection between QnA/ACPU/motion controller CPU					
	Large CPU			0		•	•	•	-	
	extension cable	GT15-AC30B	3m	4	(A series, extension base) and A7GT-CNB					
		GT15-AC50B	5m	L				L		-
		GT15-A370C12B-S1	1.2m	0	For connection between motion controller CPU	•		•	_	
		GT15-A370C25B-S1	2.5m	<u> </u>	(A series, main base) and GOT	-	•	<u> </u>		
		GT15-A370C12B	1.2m		For connection between motion controller CPU	-	-	•	_	Г
		GT15-A370C25B	2.5m	0	(A series, main base) and A7GT-CNB	•	•	•	-	
		GT15-A1SC07B	0.7m							
		GT15-A1SC12B	1.2m	0	For connection between QnAS/AnSCPU/motion controller CPU	•			-	1
is connection	Small CPU extension cable	GT15-A1SC30B	3m	1	(A series) and GOT	- ⁻	-	<u> </u>		1
ble for		GT15-A1SC50B	5m	0	For connection between QnAS/AnSCPU and GOT	•	•	•	-	+
DIE TOF A/ACPLI/motion		GT15-A1SC50B GT15-A1SC05NB	0.45m			-	-	-	-	+
Introller CPU				0	For connection between QnAS/AnSCPU/motion controller CPU		-			
	Small CPU extension cable	GT15-A1SC07NB	0.7m		(A series) and A7GT-CNB		•	•	-	1
series)		GT15-A1SC30NB	3m			-	-	-	-	+
		GT15-A1SC50NB	5m	0	For connection between QnAS/AnSCPU and A7GT-CNB	٠	•	•	-	1
		GT15-C100EXSS-1	10.6m	1	For long-distance connection between QnAS/AnSCPU/motion		1			1
	Small CPU long-distance	GT15-C200EXSS-1	20.6m	0	controller CPU (A series) and GOT				_	1
	connection cable	GT15-C300EXSS-1	30.6m		For long-distance connection between A7GT-CNB and GOT					
			00.000		*Set of GT15-EXCNB and GT15-CEBS		1			1
		GT15-C07BS	0.7m							
	GOT-to-GOT	GT15-C12BS	1.2m	1.						
	connection cable	GT15-C30BS	3m	0	For connection between GOT and GOT	•	•	•	-	
		GT15-C50BS	5m	1						
		GT15-C100BS	10m					-		+
	GOT-to-GOT long-distance	GT15-C200BS	20m	0	For connection between GOT and GOT					
	connection cable				For connection between GOT and GOT	•	•	•	-	
		GT15-C300BS	30m							-
	A0J2HCPU connection cable	GT15-J2C10B	1m	0	For connection between power supply unit (A0J2-PW) for A0J2HCPU and GOT	٠	•	•	-	-
us connector conv	Version box	A7GT-CNB	-	-	Used for QnA/ACPU long-distance bus connection	•	٠	•	-	-
uffer circuit cable		GT15-EXCNB	0.5m	0	Usable as GT15-CEXSS-1 in combination with GT15-CEBS	۰	•	•	-	
errite core set for C	ລ bus cable (two-pack)	GT15-QFC	-	0	Ferrite cores for replacing existing GOT-A900 bus cable with				-	
errite core set for A	A bus cable (two-pack)	GT15-AFC	-	× i	bus cable for GOT1000	-	-	-		
		GT16-C02R4-9S		õ	For connection between RS-422/485 (connector) and RS-422 cable (D-sub 9 pins)	•	-	-	-	1
errite core set for A S-422 conversion	cable (NEW)	GT16-C02R4-9S FA-LTBGTR4CBL05		0	For connection between RS-422/485 (connector) and RS-422 cable (D-sub 9 pins)	-	-	-	-	╞
errite core set for A S-422 conversion		GT16-C02R4-9S FA-LTBGTR4CBL05 FA-LTBGTR4CBL10		0	For connection between RS-422/485 (connector) and RS-422 cable (D-sub 9 pins) For connection between RS-422/485 (connector)	-	-	-	-	
errite core set for A S-422 conversion	cable (NEW)	GT16-C02R4-9S FA-LTBGTR4CBL05 FA-LTBGTR4CBL10 FA-LTBGTR4CBL20	0.5m	0	For connection between RS-422/485 (connector) and RS-422 cable (D-sub 9 pins) For connection between RS-422/485 (connector) and terminal block conversion cable	•	-	-	-	
rrite core set for A S-422 conversion	cable (NEW)	GT16-C02R4-9S FA-LTBGTR4CBL05 FA-LTBGTR4CBL10	0.5m 1m	0	For connection between RS-422/485 (connector) and RS-422 cable (D-sub 9 pins) For connection between RS-422/485 (connector) and terminal block conversion cable For connection between OnA/ACPU/motion controller CPU (A	•	-	-	-	
errite core set for A S-422 conversion	cable (NEW)	GT16-C02R4-9S FA-LTBGTR4CBL05 FA-LTBGTR4CBL10 FA-LTBGTR4CBL20	0.5m 1m 2m	0	For connection between RS-422/485 (connector) and RS-422 cable (D-sub 9 pins) For connection between RS-422/485 (connector) and terminal block conversion cable For connection between QnA/ACPU/motion controller CPU (A series) F/KCPU (D-sub 25-bin connector) and GOT	•	-	-		
rrite core set for A S-422 conversion	cable (NEW)	GT16-C02R4-9S FA-LTBGTR4CBL05 FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P	0.5m 1m 2m 3m	0	For connection between RS-422485 (connector) and RS-422 cable (D-sub 9 pins) For connection between RS-422485 (connector) and terminal block conversion cable For connections between GnA/ACPU/motion controller CPU (A series)FXCPU (D-sub 25-pin connector) and GOT For connection between FA-CNUPCBL and GOT	•	-	-		
errite core set for A S-422 conversion	cable (LEW)	GT16-C02R4-9S FA-LTBGTR4CBL05 FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P	0.5m 1m 2m 3m 10m	0	For connection between RS-422485 (connector) and RS-422 able (D-sub 9 pins) For connection between RS-422485 (connector) and terminal block conversion cable For connection between ForAACPU/motion controllar CPU (A series)PKCPU (D-sub 25-pin consolice) and GOT For connection between serial communication unit and GOT	•	-	• -		
errite core set for A S-422 conversion	cable (1150) lock conversion unit (1150) QnA/A/FXCPU direct connection cable	GT16-C02R4-9S FA-LTBGTR4CBL05 FA-LTBGTR4CBL10 FA-LTBGTR4CBL10 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT01-C300R4-25P	0.5m 1m 2m 3m 10m 20m 30m	0	For connection between RS-422485 (connector) and RS-422 cable (D-sub 9 pins) For connection between RS-422485 (connector) and terminal block conversion cable For connection between QnA/ACPU/motion controller CPU (A series)FXCPU (D-sub 25-pin connector) and GOT For connection between FA-CNUDEL and GOT For connection between FA-CNUDEL and GOT For connection between AbSET-44-58 and GOT	•	- -	- -		
errite core set for A S-422 conversion	cable (1120) lock conversion unit (120) QnA/A/FXCPU direct connection cable Computer link	GT16-C02R4-9S FA-LTBGTR4CBL05 FA-LTBGTR4CBL00 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT01-C30R4-25P GT10-C30R4-25P	0.5m 1m 2m 3m 10m 20m 30m 3m	0 0	For connection between RS-422485 (connector) and RS-422 able (D-sub 9 pms) For connection between RS-422485 (connector) and terminal block conversion cable For connection between FA-4204BU/moliton outrollar CPU (A series)PKCPU (D-sub 32-5pin connector) and GOT For connection between FA-60NUCBL and GOT For connection between SAF45 Connuclation and GOT For connection between SAF45 Connuclation and GOT For connection between SAF45 Connuclation and GOT For connection between CAA/AFXPCU (D-sub 25-pin	•	•	- -		
errite core set for A S-422 conversion	cable (1150) lock conversion unit (1150) QnA/A/FXCPU direct connection cable	GT16-C02R4-9S FA-LTBGTR4CBL05 FA-LTBGTR4CBL10 FA-LTBGTR4CBL10 GT01-C30R4-25P GT01-C100R4-25P GT01-C200R4-25P GT01-C300R4-25P	0.5m 1m 2m 3m 10m 20m 30m	0	For connection between RS-422485 (connector) and RS-422 able (D-sub 9 pms) For connection between RS-422485 (connector) and terminal block conversion cable For connection between TA/AGPU/motion controllar CPU (A series)PKCPU (D-sub 25-psin connector) and GOT For connection between Safal Communication unit and GOT For connection between CnA/AFXCPU (D-sub 25-pin connection) and GOT For connection between Safal communication unit	•	•	•		
errite core set for A S-422 conversion	cable (1120) lock conversion unit (120) QnA/A/FXCPU direct connection cable Computer link	GT16-C02R4-9S FA-LTBGTR4CBL05 FA-LTBGTR4CBL00 FA-LTBGTR4CBL20 GT01-C30R4-25P GT01-C200R4-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P	0.5m 1m 2m 3m 10m 20m 30m 3m 10m 20m	0 0	For connection between RS-422485 (connector) and RS-422 cable (D-sub 9 pins) For connection between RS-422485 (connector) and terminal block conversion cable For connection between QnA/ACPUmotion controller CPU (A series)/FXCPU (D-sub 2-5pin connector) and GOT For connection between FA-CNUDELL and GOT For connection between ASBET-425 and GOT	•	•	•		
errite core set for A S-422 conversion	cable (1120) lock conversion unit (120) QnA/A/FXCPU direct connection cable Computer link	GT16-C02R4-95 FA-LTBGTR4CBL05 FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C10874-25P GT01-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P	0.5m 1m 2m 3m 10m 20m 30m 3m 10m 20m 30m	0 0	For connection between RS-422485 (connector) and RS-422 able (D-sub 9 pms) For connection between RS-422485 (connector) and terminal block conversion cable For connection between TA/AGPU/motion controllar CPU (A series)PKCPU (D-sub 25-psin connector) and GOT For connection between Safal Communication unit and GOT For connection between CnA/AFXCPU (D-sub 25-pin connection) and GOT For connection between Safal communication unit	•	•	•		
rrite core set for A S-422 conversion	Cable (1) lock conversion unit (1) QnA/A/FXCPU direct connection cable Computer link connection cable	GT16-C02R4-95 FA-LTBGTR4CBL05 FA-LTBGTR4CBL10 FA-LTBGTR4CBL10 FA-LTBGTR4CBL20 GT01-C10R4-25P GT01-C200R4-25P GT10-C30R4-25P GT10-C30R4-25P GT10-C200R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT09-C30R4-8C	0.5m 1m 2m 3m 10m 20m 30m 3m 10m 20m 30m 3m	-	Fer ormedion between R5-422485 (connector) and R5-422 able (D-sub 9 pins) For connection between R5-422485 (connector) and terminal block conversion cable For connection between DA/ACPU/Intoleto controller CPU A siders/YCPU (D-sub 25-pin connector) and GOT For connection between SA/ACPU/DSL, and GOT For connection between SA/ACPU/DSL, and GOT For connection between DA/ACPU/CPU (D-sub 25-pin connection) between DA/ACPU (D-sub 25-pin connection) and GOT For connection between DA/ACPU (D-sub 25-pin connection) and GOT For connection between SA/ACPU (D-sub 25-pin connection) and GOT	•	•	•		
rrite core set for A S-422 conversion	Cable (C) lock conversion unit (C) GnA/A/FXCPU direct connection cable Computer link	GT16-C02R4-9S FA-LTBGTR4CBL05 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-C10R4-25P	0.5m 1m 2m 3m 10m 20m 30m 30m 20m 30m 30m 30m 30m	0 0	Fit connection between R5-422485 (connector) and R5-422 able (D-sub 9 pms) For connection between R5-422485 (connector) and terminal block conversion cable For connection between CnAlACPU/mation controller CPU (A series)FXCPU (D-sub 25-pin connector) and GOT For connection between FA-CNADE, and GOT For connection between FA-CNADE, and GOT For connection between AASBET-G4-S3 and GOT For connection between AASBET-G4-S3 and GOT For connection between AASFET-G4-S3 and GOT For connection between areial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT	•	•	•		
rrite core set for A S-422 conversion	Cable (1) lock conversion unit (1) QnA/A/FXCPU direct connection cable Computer link connection cable	GTI-E-C02R4-9S FALTBGTR4CBL05 FALTBGTR4CBL10 FALTBGTR4CBL20 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 GT0-C30R4-25P GT0-C30R4-25P GT0-C30R4-25P GT09-C30R4-8C	0.5m 1m 2m 3m 10m 20m 30m 30m 30m 30m 30m 30m 30m 30m 30m 3	-	Fer ormedion between R5-422485 (connector) and R5-422 able (D-sub 9 pins) For connection between R5-422485 (connector) and terminal block conversion cable For connection between DA/ACPU/Intoleto controller CPU A siders/YCPU (D-sub 25-pin connector) and GOT For connection between SA/ACPU/DSL, and GOT For connection between SA/ACPU/DSL, and GOT For connection between DA/ACPU/CPU (D-sub 25-pin connection) between DA/ACPU (D-sub 25-pin connection) and GOT For connection between DA/ACPU (D-sub 25-pin connection) and GOT For connection between SA/ACPU (D-sub 25-pin connection) and GOT	•	- - -	- - -		
mite core set for A 3-422 conversion 3-485 terminal bl	Cable (C) lock conversion unit (C) GnA/A/FXCPU direct connection cable Computer link	GT16-C02R4-9S FALTBGTR4CBL05 FALTBGTR4CBL00 FALTBGTR4CBL10 FALTBGTR4CBL10 GT01-C30R4-2SP GT01-C30R4-2SP GT01-C30R4-2SP GT10-C30R4-2SP GT10-C30R4-2SP GT10-C30R4-2SP GT10-C30R4-2SP GT10-C30R4-2SP GT10-C30R4-6C GT09-C30R4-6C GT09-C30R4-6C	0.5m 1m 2m 3m 10m 20m 30m 30m 30m 30m 30m 30m 30m 3	-	Fit connection between R5-422485 (connector) and R5-422 able (D-sub 9 pms) For connection between R5-422485 (connector) and terminal block conversion cable For connection between CnAlACPU/mation controller CPU (A series)FXCPU (D-sub 25-pin connector) and GOT For connection between FA-CNADE, and GOT For connection between FA-CNADE, and GOT For connection between AASBET-G4-S3 and GOT For connection between AASBET-G4-S3 and GOT For connection between AASFET-G4-S3 and GOT For connection between areial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT	•	•	- - -	- -3 -	
irrite core set for A 3-422 conversion 3-485 terminal bl	Cable (C) lock conversion unit (C) GnA/A/FXCPU direct connection cable Computer link	GT16-C0224-49 FAL,TBGTR4CBL05 FAL,TBGTR4CBL0 FALTBGTR4CBL0 GT01-C0204-29 GT01-C0204-29 GT10-C0204-29 GT0-C0204-29 GT0-C0204-29 GT0-C0204-29 GT0-C0204-29 GT0-C0204-29 GT0-C0204-29 GT0-C0204-29 GT0-C0204-29 GT0-C0204-40 GT0-C0204-40 GT0-C0204-40 GT0-C0204-40	0.5m 1m 2m 3m 10m 30m 30m 30m 30m 30m 30m 3m 10m 20m 30m 3m 10m 10m 30m 3m 10m 10m 30m 30m 30m 30m 30m 30m 30m 3	-	Fit connection between R5-422485 (connector) and R5-422 able (D-sub 9 pms) For connection between R5-422485 (connector) and terminal block conversion cable For connection between CnAlACPU/mation controller CPU (A series)FXCPU (D-sub 25-pin connector) and GOT For connection between FA-CNADE, and GOT For connection between FA-CNADE, and GOT For connection between AASBET-G4-S3 and GOT For connection between AASBET-G4-S3 and GOT For connection between AASFET-G4-S3 and GOT For connection between areial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT	•	- - -	- - -		
irrite core set for A 3-422 conversion 3-485 terminal bl	Cable (C) lock conversion unit (C) GnA/A/FXCPU direct connection cable Computer link	GT16-C0284-65 FALTBGTR4C8L05 FALTBGTR4C8L05 FALTBGTR4C8L05 FALTBGTR4C8L05 GT0-C3084-25P GT0-C3084-45P	0.5m 1m 2m 3m 10m 20m 30m 3m 10m 20m 30m 3m 10m 20m 3m 10m 3m 10m 3m	-	Fit connection between R5-422485 (connector) and R5-422 able (D-sub 9 pms) For connection between R5-422485 (connector) and terminal block conversion cable For connection between CnAlACPU/mation controller CPU (A series)FXCPU (D-sub 25-pin connector) and GOT For connection between FA-CNADE, and GOT For connection between FA-CNADE, and GOT For connection between AASBET-G4-S3 and GOT For connection between AASBET-G4-S3 and GOT For connection between AASFET-G4-S3 and GOT For connection between areial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit and GOT	•	•	•		
irrite core set for A 3-422 conversion 3-485 terminal bl	Cable (C) lock conversion unit (C) GnA/A/FXCPU direct connection cable Computer link	GT16-C0284-85 FA1T6GTM2C8L06 FA1T6GTM2C8L06 FA1T6GTM2C8L00 GT01-C300R4-25P GT01-C300R4-25P GT01-C300R4-25P GT01-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-25P GT10-C300R4-85P GT10-C30R4-85P GT101-C30R4-85P	0.5m 1m 2m 3m 10m 20m 30m 30m 30m 30m 30m 30m 30m 3	-	Fer connection between RS-422485 (connector) and RS-422 cable (D-sub 9 pins) For connection between RS-422485 (connector) and terminal block conversion cable Far connection between PA/ACPU/Institut controller CPU (A sinsel*)YKCPU (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 CMA/ACPU (D-sub 25-pin connector) and GOT For connection between CMA/ACPU (D-sub 25-pin connection) and GOT For connection between Serial communication unit (ALT/GO24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between computer link unit and GOT	•	- - -	- - -	 -3 	
mite core set for A 3-422 conversion 3-485 terminal bl	Cable (Cable Conversion unit Cable Conversion unit Cable Conversion cable Computer link connection cable Cabl	GTU-C02R4-65 FALTBGTR4C8L05 FALTBGTR4C8L05 FALTBGTR4C8L05 FALTBGTR4C8L05 GTU-C30R4-25P GTU-C30R4-45P	0.5m 1m 2m 3m 10m 20m 30m 30m 30m 30m 30m 10m 20m 30m 30m 30m 30m 20m 30m 30m 30m 20m 30m 30m 30m 30m 30m 30m 30m 3	-	Fir connection between R5-422485 (connector) and R5-422 data [D-sub 9 pins] For connection between R5-422485 (connector) and terminal block conversion cable For connection between ApAACPU/motion controller CPU (A region)PXCPU (D-sub 25-pin controller) and GOT For connection between 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 (AJ71QC24(N)-R4) and GOT For connection between serial communication unit for connection between serial communication unit for connection between serial communication unit for connection between R5CPU	•	- -	•		
mite core set for A 3-422 conversion 3-485 terminal bl	Cable Conversion unit Conversion unit Conversion unit Conversion cable Competer link connection cable Computer link connection cable FXCPU direct	CTI-C0224-45 FAI-TEGTMCRL0 FAI-TEGTMCRL0 FAI-TEGTMCRL0 GT0-C30R4-25P GT0	0.5m 1m 2m 3m 10m 20m 30m 30m 20m 30m 10m 20m 30m 10m 30m 30m 30m 30m 30m 30m 30m 3	-	Fer connection between R5-422485 (connector) and R5-422 dable (D-sub 9 pine) For connection between R5-422485 (connector) and terminal block conversion cable Far connection between DA/ACPU/Institut controller CPU (A sinesi/PXCPU (D-sub 25-pin connector) and GOT For connection between SAFACPU (D-sub 25-pin connection between CMA/ACPU (D-sub 25-pin connection between Serial communication unit (ALT/GC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between computer link unit and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT	•	•	•	- - - - -	
mite core set for A	Cable (Cable Conversion unit Cable Conversion unit Cable Conversion cable Computer link connection cable Computer link connection cable FXCPU direct connection cable	GTU-C02R4-65 FALTBGTR4C8L06 FALTBGTR4C8L06 FALTBGTR4C8L06 FALTBGTR4C8L06 FALTBGTR4C8L06 GTU-C30R4-25P GTU-C30R4-26P GTU-C30R4-26P GTU-C30R4-26P GTU-C30R4-8P	0.5m 1m 2m 3m 10m 20m 30m 3m 10m 20m 30m 3m 10m 20m 30m 10m 20m 30m 10m 20m 30m 10m 10m 20m 30m 30m 10m 20m 30m 30m 30m 30m 30m 30m 30m 3	-	Fir connection between R5-422485 (connector) and R5-422 dash gins) For connection between R5-422485 (connector) and terminal block conversion cable For connection between R5-422485 (connector) 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 serial communication unit for connection between serial communication unit for connection between FXCPU (MINI-IDIN 8-pin connector) and GOT For connection between FXCPU (MINI-IDIN 8-pin connector) and GOT	•	•	•		
mite core set for A	Cable Conversion unit Conversion unit Conversion unit Conversion cable Competition cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FXCPU direct FX communication	GT16-C0284-85 FA1 TEGTARCBL06 FA1 TEGTARCBL06 FA1 TEGTARCBL06 GT01-C30084-25P GT01-C30084-25P GT01-C30084-25P GT01-C30084-25P GT01-C30084-25P GT01-C30084-25P GT01-C30084-25P GT01-C30084-25P GT01-C30084-25P GT02-C30084-25P GT02-C30084-25P GT02-C30084-25P GT02-C30084-26P GT02-C30084-86 GT02-C30084-86 GT01-C10084-86P GT01-C3084-86 GT01-C3084-86 GT01-C3084-86 GT01-C10084-87 GT01-C10084-87 GT01-C10084-88 GT01-C10084-88 GT01-C10084-86 GT01-C10084-87 GT01-C10084-87 GT01-C10084-87 GT01-C10084-88 GT01-C10084-88 GT01-C10084-87 GT10-C1084-87 GT10-C1084-87 GT10-C1084-87 GT10-C1084-87 GT10-C1084-87 GT10-C1084-87 <td>0.5m 1m 2m 3m 10m 20m 30m 30m 30m 30m 20m 30m 10m 20m 30m 30m 30m 30m 30m 30m 30m 3</td> <td>-</td> <td>Fer connection between R5-422485 (connector) and R5-422 dable (D-sub 9 pine) For connection between R5-422485 (connector) and terminal block conversion cable Far connection between DA/ACPU/Institut controller CPU (A sinesi/PXCPU (D-sub 25-pin connector) and GOT For connection between SAFACPU (D-sub 25-pin connection between CMA/ACPU (D-sub 25-pin connection between Serial communication unit (ALT/GC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between computer link unit and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT</td> <td>•</td> <td>•</td> <td>•</td> <td></td> <td></td>	0.5m 1m 2m 3m 10m 20m 30m 30m 30m 30m 20m 30m 10m 20m 30m 30m 30m 30m 30m 30m 30m 3	-	Fer connection between R5-422485 (connector) and R5-422 dable (D-sub 9 pine) For connection between R5-422485 (connector) and terminal block conversion cable Far connection between DA/ACPU/Institut controller CPU (A sinesi/PXCPU (D-sub 25-pin connector) and GOT For connection between SAFACPU (D-sub 25-pin connection between CMA/ACPU (D-sub 25-pin connection between Serial communication unit (ALT/GC24(N)-R4) and GOT For connection between serial communication unit and GOT For connection between computer link unit and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT	•	•	•		
ritie core set for A -422 conversion -485 terminal bi	Cable (Cable Conversion unit Cable) OnA/A/FXCPU direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board	GTU-C02R4-65 FALTBGTR4C8L06 FALTBGTR4C8L06 FALTBGTR4C8L06 FALTBGTR4C8L06 FALTBGTR4C8L06 GTU-C30R4-25P GTU-C30R4-26P GTU-C30R4-26P GTU-C30R4-26P GTU-C30R4-26P GTU-C30R4-26P GTU-C30R4-8P	0.5m 1m 2m 3m 10m 20m 30m 3m 10m 20m 30m 3m 10m 20m 30m 3m 10m 10m 20m 30m 3m 10m 20m 30m 30m 30m 30m 30m 30m 30m 3	-	Fir connection between R5-422485 (connector) and R5-422 dash gins) For connection between R5-422485 (connector) and terminal block conversion cable For connection between R5-422485 (connector) 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 serial communication unit for connection between serial communication unit for connection between FXCPU (MINI-IDIN 8-pin connector) and GOT For connection between FXCPU (MINI-IDIN 8-pin connector) and GOT	•	- •	•		
ritie core set for A -422 conversion -485 terminal bi	Cable Conversion unit Conversion unit Conversion unit Conversion cable Competition cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FXCPU direct FX communication	CTI-C-C02R4-85 FAI-TEGTM-CRL00 FAI-TEGTM-CRL00 FAI-TEGTM-CRL00 FAI-TEGTM-CRL00 GT0-C30R4-25P GT0-C30	0.5m 1m 2m 3m 10m 20m 30m 30m 30m 30m 10m 10m 20m 30m 10m 10m 30m 30m 30m 30m 30m 30m 30m 3	-	Fir connection between R5-422485 (connector) and R5-422 dash gins) For connection between R5-422485 (connector) and terminal block conversion cable For connection between R5-422485 (connector) 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 serial communication unit for connection between serial communication unit for connection between FXCPU (MINI-IDIN 8-pin connector) and GOT For connection between FXCPU (MINI-IDIN 8-pin connector) and GOT	•	•	•	 -3 	
mite core set for A	Cable (Cable Conversion unit Cable Conversion unit Cable Convection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board	GTU-C02R4-65 FALTBGTR4C8L06 FALTBGTR4C8L06 FALTBGTR4C8L06 FALTBGTR4C8L06 FALTBGTR4C8L06 GTU-C30R4-25P GTU-C30R4-26P GTU-C30R4-26P GTU-C30R4-26P GTU-C30R4-26P GTU-C30R4-26P GTU-C30R4-8P	0.5m 1m 2m 3m 10m 20m 30m 3m 10m 20m 30m 3m 10m 20m 30m 3m 10m 10m 20m 30m 3m 10m 20m 30m 30m 30m 30m 30m 30m 30m 3	-	Fir connection between R5-422485 (connector) and R5-422 (able (D-sub 9 pms) For connection between R5-422485 (connector) and terminal block conversion cable For connection between ApA(ACPU/motion controllar CPU (A series)PXCPU (D-sub 25-psin connector) 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 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 (AJ71QC24(N)-R4) and GOT For connection between FXCPU (MIN-IDIN 8-pin connector) and GOT For connection between FXCPU communication function extension board and GOT	•	- - -	•		
mite core set for A 3-422 conversion 3-485 terminal bl	Cable (Cable Conversion unit Cable Conversion unit Cable Convection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board	CTI-C-020R4-85 FAI-TEGTM-CRL00 FAI-TEGTM-CRL00 FAI-TEGTM-CRL00 GT0-C-200R4-25P GT0-C-200R4-25P GT0-C-200R4-25P GT0-C-200R4-25P GT10-C-200R4-25	0.5m 1m 2m 3m 10m 20m 30m 30m 30m 30m 30m 30m 10m 20m 30m 10m 20m 30m 10m 20m 30m 30m 20m 30m 30m 20m 30m 20m 30m 30m 20m 30m 30m 30m 20m 30m 30m 30m 30m 30m 30m 30m 3	-	Fer connection between R5-422485 (connector) and R5-422 able (D-sub 9 pine) For connection between R5-422485 (connector) and terminal block conversion cable Far connection between ApA/ACPU/Institut controller CPU (A signer)/XCPU (D-sub 25-pin connector) and GOT For connection between ApA/ACPU/DCBL and GOT For connection between Serial communication unit (AUT/GC24(N)-R4) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT	•		•		
mite core set for A	Cable (Cable Conversion unit Cable Conversion unit Cable Convection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board	CTI-C-C02R4-85 FAI-TEGTM-CRL00 FAI-TEGTM-CRL00 FAI-TEGTM-CRL00 FAI-TEGTM-CRL00 GT0-C30R4-25P GT0-C30	0.5m 1m 2m 3m 10m 20m 30m 30m 30m 30m 10m 10m 20m 30m 10m 30m 10m 30m 30m 30m 30m 30m 30m 30m 3	-	Fit connection between R5-422485 (connector) and R5-422 (able (D-sub 9 pms)) For connection between R5-422485 (connector) and naminal block conversion cable For connection between R5-422485 (connector) For connection between R5-422485 (connector) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between SFXCPU (MIN-D1N 8-pin connector) and GOT For connection between FXCPU (MIN-D1N 8-pin connector) and GOT For connection between FXCPU (MIN-D1N 8-pin connector) and GOT For connection between FXCPU communication unit (and GOT For connection between FXCPU communication stension board and GOT For connection between FXCPU communication stension board and GOT For connection between FXCPU And And And GOT	•		•		
mite core set for A 3-422 conversion 3-485 terminal bl	Cable (Cable Conversion unit Cable Conversion unit Cable Convection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board	CTI-C-020R4-85 FAI-TEGTM-CRL00 FAI-TEGTM-CRL00 FAI-TEGTM-CRL00 GT0-C-200R4-25P GT0-C-200R4-25P GT0-C-200R4-25P GT0-C-200R4-25P GT10-C-200R4-25	0.5m 1m 2m 3m 10m 20m 30m 30m 30m 30m 30m 30m 10m 20m 30m 10m 20m 30m 10m 20m 30m 30m 20m 30m 30m 20m 30m 20m 30m 30m 20m 30m 30m 20m 30m 30m 30m 30m 20m 30m 30m 30m 30m 30m 30m 30m 3	-	Fer connection between R5-422485 (connector) and R5-422 able (D-sub 9 pine) For connection between R5-422485 (connector) and terminal block conversion cable Far connection between ApA(ACPL/Involten controller CPU (A signet) FXCPU (D-sub 25-pin connector) and GOT For connection between ApA(ACPL/ID-sub 25-pin connection) between serial communication unit (ALT/ICQ2(N)-R4) and GOT For connection between serial communication unit and GOT For connection between serial communication unit for connection between serial communication unit 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 (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 and GOT For connection between FXCPU Communication function extension board and GOT For connection between FXCPU Communication function extension board and GOT For connection between FXCPU Communication function extension board and GOT For connection between FXCPU Communication function extension board and GOT	•	-	•	-	
irrite core set for A 3-422 conversion 3-485 terminal bl	Cable (III) lock conversion unit (III) direct connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FX communication function extension board connection cable	GTU-C02R4-49 FALTBGTR4C8L0 FALTBGTR4C8L0 FALTBGTR4C8L0 FALTBGTR4C8L0 FALTBGTR4C8L0 GTU-C30R4-28P GTU-C30R4-8P	0.5m 1m 2m 2m 3m 10m 20m 30m 30m 30m 10m 20m 30m 10m 10m 10m 10m 10m 10m 10m 1	-	Fir connection between R5-422485 (connector) and R5-422 able (D-sub 9 pms) For connection between R5-422485 (connector) and terminal block conversion cable For connection between ApA(ACPU/molion controllar CPU (A setain)PKCPU (D-sub 32-5pin concentor) and GOT For connection between Sarial communication unit and GOT For connection between Sarial communication unit and GOT For connection between Sarial communication unit and GOT For connection between Sarial communication unit (AJ7)QC24(N)-R4) and GOT For connection between serial communication unit (AJ7)QC24(N)-R4) and GOT For connection between serial communication unit (AJ7)QC24(N)-R4) and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU and FYPEND and FYPEND FXPEND F	•	- - -	•		
mite core set for A	Cable Conversion unit Conversion unit Conversion unit Conversion cable Competition cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FXCPU direct connection cable FX communication function extension board connection cable Convection	CTI-C-020R4-85 FAI-TEGTM-CRL00 FAI-TEGTM-CRL00 FAI-TEGTM-CRL00 GT0-C-200R4-25P GT0-C-200R4-25P GT0-C-200R4-25P GT0-C-200R4-25P GT10-C-200R4-25	0.5m 1m 2m 3m 10m 20m 30m 30m 30m 30m 30m 30m 10m 20m 30m 10m 20m 30m 10m 20m 30m 30m 20m 30m 30m 20m 30m 20m 30m 30m 20m 30m 30m 20m 30m 30m 30m 30m 20m 30m 30m 30m 30m 30m 30m 30m 3	-	Fer connection between R5-422485 (connector) and R5-422 dable (D-sub 9 pms) For connection between R5-422485 (connector) and terminal block conversion cable Far connection between PA/ACPU/Institut controller CPU (A series)?XCPU (D-sub 25-pin connector) and GOT For connection between PA/ACPU (D-sub 25-pin connection) between paralexit and GOT For connection between serial communication unit (AUT/G24(N)-R4) and GOT For connection between scripture ink unit and GOT For connection between scripture ink unit and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function between FXCPU for connection between FXCPU communication function stension board and GOT For connection between FXCPU communication function stension board and GOT For connection between FXCPU communication function stension board and GOT For connection between FXCPU communication function stension board and GOT For connection between FXCPU communication function stension board and GOT For connection between FXCPU communication function stension board and GOT For connection between FXCPU communication function stension board and GOT For connection	•	-	•	-	
mite core set for A 3-422 conversion 3-485 terminal bl	Cable Conversion unit Conversion unit Conversion unit Conversion unit Conversion cable Computer link connection cable Computer link connection cable FX communication function extension board connection cable Connection cable Connection cable Connection cable Connection cable Conversion board connection cable Co	GTU-C02R4-49 FALTBGTR4C8L0 FALTBGTR4C8L0 FALTBGTR4C8L0 FALTBGTR4C8L0 FALTBGTR4C8L0 FALTBGTR4C8L0 GT0-C30R4-28P GT0-C30R4-28P GT0-C30R4-28P GT0-C30R4-28P GT0-C30R4-28P GT0-C30R4-28P GT0-C30R4-28P GT0-C30R4-28P GT0-C30R4-8P	0.5m 1m 2m 2m 3m 10m 20m 30m 30m 30m 10m 10m 20m 30m 10m 10m 10m 10m 30m 10m 10m 30m 10m 30m 10m 30m 30m 10m 30m 30m 10m 30m 30m 30m 30m 30m 30m 30m 3	-	Fit connection between R5-422485 (connector) and R5-422 485 (connector) and terminal block conversion cable For connection between R5-422485 (connector) and terminal block conversion cable For connection between ApAGPU/motion controllar CPU (A setain)PKCPU (bea 35-psin connector) and GOT For connection between Sarial communication unit and GOT For connection between Sarial communication unit and GOT For connection between Sarial communication unit (AJ71QC24(N)-R4) and GOT For connection between serial communication unit (AJ71QC24(N)-R4) and GOT For connection between Sarial communication unit (AJ71QC24(N)-R4) and GOT For connection between Sarial communication unit (AJ71QC24(N)-R4) and GOT For connection between FXCPU (MIN-IDIN 8-pin connector) and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension baard and GOT The unit cannot be used with he FXINC, FXINC, FXINC, CDSS, FXIG. For connection between FXCPU communication function extension baard and GOT The unit cannot be used with he FXINC, FXINC, CPUS, C	•	-	•		
mite core set for A	Cable Conversion unit Conversion unit Conversion unit Conversion cable Competition cable Computer link connection cable Computer link connection cable FXCPU direct connection cable FXCPU direct connection cable FX communication function extension board connection cable Convection	GT16-C02R4-85 FA1-TEGTRACELIO FA1-TEGTRACELIO FA1-TEGTRACELIO FA1-TEGTRACELIO GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT02-C30R4-25P GT02-C30R4-25P GT02-C30R4-25P GT02-C30R4-25P GT02-C30R4-26P	0.5m 1m 2m 2m 3m 10m 20m 30m 30m 30m 30m 30m 30m 30m 10m 20m 30m 30m 10m 20m 30m 30m 30m 30m 30m 30m 30m 3	· · · · · · · · · · · · · · · · · · ·	Fer connection between R5-422485 (connector) and R5-422 dable (D-sub 9 pms) For connection between R5-422485 (connector) and terminal block conversion cable Far connection between PA/ACPU/Institut controller CPU (A series)?XCPU (D-sub 25-pin connector) and GOT For connection between PA/ACPU/DCBL and GOT For connection between Serial communication unit and GOT For connection between CPA/ACPU (D-sub 25-pin connection) between Serial communication unit (AUT/CQ2(N)-R4) and GOT For connection between serial communication unit and GOT For connection between scripture ink unit and GOT For connection between FXCPU (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication functio	• • • • • •	- -	•	- - - -	
mile core sel for Ar -422 conversion -485 terminal bi	Cable Conversion unit Conversion unit Conversion unit Conversion unit Conversion cable Computer link connection cable Computer link connection cable FX communication function extension board connection cable Connection cable Connection cable Connection cable Connection cable Conversion board connection cable Co	GTU-C02R4-49 FALTBGTR4C8L0 FALTBGTR4C8L0 FALTBGTR4C8L0 FALTBGTR4C8L0 FALTBGTR4C8L0 FALTBGTR4C8L0 GT0-C30R4-28P GT0-C30R4-28P GT0-C30R4-28P GT0-C30R4-28P GT0-C30R4-28P GT0-C30R4-28P GT0-C30R4-28P GT0-C30R4-28P GT0-C30R4-8P	0.5m 1m 2m 2m 3m 10m 20m 30m 30m 30m 10m 10m 20m 30m 10m 10m 10m 10m 30m 10m 10m 30m 10m 30m 10m 30m 30m 10m 30m 30m 10m 30m 30m 30m 30m 30m 30m 30m 3	-	Fir connection between R5-422485 (connector) and R5-422 able (D-sub 9 pms) For connection between R5-422485 (connector) and terminal block conversion cable For connection between AD4ACPU/motion controllar CPU (A setain)PKCPU (D, eab 25-pin controllar) and GOT For connection between Sarial Communication unit (AJ71QC24(N)-R4) and GOT For connection between Sarial 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 and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU Communication function extension board For connection between CPU BU Communication function exte	•	-	•	-	
rrite core set for A S-422 conversion	Cable (1) Cable (1) Cable (1) Cable (1) Convertine (1) Computer link connection cable Computer link connection cable FXCPU direct connection cable FXCPU direct connection cable Competion cable Connection cable Connection cable Connection cable Connection cable Connection cable	GT16-C02R4-85 FA1-TEGTRACELIO FA1-TEGTRACELIO FA1-TEGTRACELIO FA1-TEGTRACELIO GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT02-C30R4-25P GT02-C30R4-25P GT02-C30R4-25P GT02-C30R4-25P GT02-C30R4-26P	0.5m 1m 2m 2m 3m 10m 20m 30m 30m 30m 30m 30m 30m 30m 10m 20m 30m 30m 10m 20m 30m 30m 30m 30m 30m 30m 30m 3	· · · · · · · · · · · · · · · · · · ·	Fe connection between R5-422485 (connector) and R5-422 dable (D-sub 9 pms) For connection between R5-422485 (connector) and terminal block conversion cable Far connection between DA/ACPU/motion controller CPU (A series)?XCPU (D-sub 25-pin connector) and GOT For connection between DA/ACPU (D-sub 25-pin connection) between Serial communication unit (AUT (C224(N)-R4) and GOT For connection between serial communication unit 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 and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function between FXCPU for connection between FXCPU communication function between FXCPU (D-sub 9-pin, female) and GOT (MINI-DIN 8-pin connector) and GOT For connection between FXCPU communication function between FXCPU for connection between FXCPU communication function between FXCPU (D-sub 9-pin, female) and GOT (MINI-DIN 8-pin connector) and Hardy COT For connection between FXCPU communication function between GOTs For connection between FXCPU communicat	• • • • • •	- -	•	- - - -	
5-422 cable	Cable Conversion unit Conversion unit Conversion unit Conversion unit Conversion cable Computer link connection cable Computer link connection cable FX communication function extension board connection cable Connection cable Connection cable Connection cable Connection cable Conversion board connection cable Co	GT16-C02R4-85 FA1-TEGTRACELIO FA1-TEGTRACELIO FA1-TEGTRACELIO FA1-TEGTRACELIO GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT02-C30R4-25P GT02-C30R4-25P GT02-C30R4-25P GT02-C30R4-25P GT02-C30R4-26P	0.5m 1m 2m 2m 3m 10m 20m 30m 30m 30m 30m 30m 30m 30m 10m 20m 30m 30m 10m 20m 30m 30m 30m 30m 30m 30m 30m 3	· · · · · · · · · · · · · · · · · · ·	Fir connection between R5-422485 (connector) and R5-422 (able (D-sub 9 pms) For connection between R5-422485 (connector) and terminal block conversion cable For connection between AAACPU/Inroliton controllar CPU (A setain)PXCPU (D-sub 25-pin controllar) and GOT For connection between Sarial Communication unit (AJ71QC24(N)-R4) and GOT For connection between Sarial Communication unit (AJ71QC24(N)-R4) and GOT For connection between Sarial 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 and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU and Handy GOT For connection between FXCPU and Fandor) For connection between FXCPU and Handy GOT For connection between FXCPU and Fandor) For connection between FXCPU and Handy GOT For connection between FXCPU and	• • • • • •	- -	•	- - - -	
5-422 cable	Cable (Cable Conversion unit (Cable) Concection cable (Computer link connection cable) Computer link connection cable (Computer link connection cable) FXCPU direct connection cable (Computer link connection cable) FXCPU direct connection cable (Connection cable) Computer link connection cable (Connection cable) Computer link connection cable (Connection cable) COMPUTER CONTROL (Connection cable) FX communication function connection function extension board connection function function extension board connection function	GT16-C02R4-85 FA1-TEGTRACELIO FA1-TEGTRACELIO FA1-TEGTRACELIO FA1-TEGTRACELIO GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT01-C30R4-25P GT02-C30R4-25P GT02-C30R4-25P GT02-C30R4-25P GT02-C30R4-25P GT02-C30R4-26P	0.5m 10.5m 2m 2m 3m 20m 20m 20m 20m 30m 20m 30m 30m 30m 30m 30m 30m 10m 30m 30m 30m 10m 30m 30m 10m 30m 30m 30m 30m 30m 30m 30m 3	· · · · · · · · · · · · · · · · · · ·	Fer connection between R5-422485 (connector) and R5-422 dable (D-sub 9 pms) For connection between R5-422485 (connector) and terminal block conversion cable Far connection between DA/ACPU/motion controller CPU (A series)?XCPU (D-sub 25-pin connector) and GOT For connection between DA/ACPU/DCBL and GOT For connection between DA/ACPU (D-sub 25-pin connection) between GOT For connection between GOT For connection between Seriel communication unit (AUT/G24(N)-R4) 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 (MINI-DIN 8-pin connector) and GOT For connection between FXCPU (D-sub 5-pin, female) and GOT (SMISTIGNI)(B-84 bea) For connection between FXCPU (D-sub 5-pin For connection between FXCPU (D-sub 5-pin, female) and GOT (SMISTIGNI)(B-84 bea) For connection between FXCPU (D-sub 5-pin, factor) For connection between FXCPU (D-sub 5-pin For connection between FXCPU (D-sub	• • • • • •	- -	•	- - - -	
-422 cable	Cable Camputer link connection cable Computer link connection cable Computer link connection cable FXCPU direct connection cable Cab	GTI-C2028-495 FA-TEGTR4CBL06 FA-TEGTR4CBL06 FA-TEGTR4CBL00 FA-TEGTR4CBL00 GTI-C300R-429P GTI-C300R-429P GTI-C200R-429P	0.5m 1m 2m 2m 3m 10m 20m 30m 30m 30m 30m 30m 30m 30m 10m 20m 30m 30m 10m 20m 30m 30m 30m 30m 30m 30m 30m 3	· · · · · · · · · · · · · · · · · · ·	Fir connection between R5-422485 (connector) and R5-422 (able (D-sub 9 pms) For connection between R5-422485 (connector) and terminal block conversion cable For connection between AAACPU/Inroliton controllar CPU (A setain)PXCPU (D-sub 25-pin controllar) and GOT For connection between Sarial Communication unit (AJ71QC24(N)-R4) and GOT For connection between Sarial Communication unit (AJ71QC24(N)-R4) and GOT For connection between Sarial 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 and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU communication function extension board and GOT For connection between FXCPU and Handy GOT For connection between FXCPU and Fandor) For connection between FXCPU and Handy GOT For connection between FXCPU and Fandor) For connection between FXCPU and Handy GOT For connection between FXCPU and	• • • • • • • •	- - -	•	- - - -	

Cables

roduct name	Model name	length	products	Application					
			1 *1	11 · · · · ·	GT16	GT15	GT11	Handy GOT	GT10
	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	-	.4
Computer link	GT09-C30R2-9P	3m		For connection between serial communication unit and GOT					
onnection cable	GT09-C30R2-25P	3m	0	For connection between computer link unit and GOT For connection between AJ65BT-R2N and GOT (GT09-C30R2-9P only)	•	•	•	-	•
n box for Handy GOT	GT11H-CNB-37S	-	-	Converts D-sub 37-pin connector to terminal block and D-sub 9-pin connector	-	-	-	•	-
	GT11H-C30-37P	3m		For connection between FA device connection relay only					
A device annual average	GT11H-C60-37P	6m	- 1		-	-	-	•	-
	GT11H-C100-37P	10m		and GOT					
	GT11H-C30	3m		For expression between FA device, neuron supply and					
connection cable	GT11H-C60	6m	- 1		-	-	-	•	-
	GT11H-C100	10m		operation switches and 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	-	1	-	٠	-
connection cable	GT11H-C15R4-25P	1.5m	-	For connection between A/QnACPU and GOT For connection between power supply and operation switches and GOT	-	-	-	٠	-
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	-	-	-	•	-
ection cable	GT10-C20H-6PT9P	0.3m	-	For connection between barcode reader (D-sub 9-pin, female) and GOT (MINI-DIN 6-pin, female) RS-232	-	-	-	-	•
nection 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)	٠	٠	-	-	-
NEW	GT15-C50VG	5m	0	For connection between external monitor, personal computer and vision sensor and GOT	•	•	-	-	-
RS-232/USB conversion adapter for data transfer	GT10-RS2TUSB-5S	-	-	For connection between personal computer (USB) and GOT (RS-232) (Adapter and personal computer are connected with GT09-C30USB-5P.)	-	-	-	-	.5
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)	•	•	٠	٠	•
	A device, power supply do operation switch monection cable S-422, power supply do operation switch monection cable S-232, power supply and peration switch connection cable section cable S-232, power supply and peration switch connection cable section conversion cable S-232/USB conversion tapter for data transfer	Interview GTI0-C30R2-25P Ibox for Handy GOT GTI1H-CN3-37S Ibox for Handy GOT GTI1H-CN3-37F GTI1H-CN3-37P GTI1H-CN3-37P GTI1H-CN3-37P GTI1H-CN3-37P GTI1H-CN3-37P GTI1H-CN3-37P GTI1H-C00-37P GTI1H-C100-37P GTI1H-C100 GTI1H-C100 S-422, power supply GTI1H-C100 GTI1H-C100 GTI1H-C100 S-422, power supply GTI1H-C100 GTI1H-C100 GTI1H-C100 S-232, power supply and operation switch contection cable GTI1H-C16R2-8P action cable GT10-C20H-8PT9P action conversion cable GT15-C50VG S-232/USB conversion GT10-RS2TUSB-S	Officient able GT09-C30R2-25P 3m box for Handy GOT GT11H-CN8-37S - GT11H-CN8-37S - - GT11H-CN8-37S - - GT11H-CN8-37F - - GT11H-C30-37P - - GT11H-C100 - - GT11H-C30 - - GT11H-C100 10m - S-422, power supply GT11H-C100 10m S-232, power supply and paration switch connection cable GT11H-C15R2-6P 1.5m Sction cable GT10-C20H-6PT3P 0.3m - section conversion cable GT15-C50VG 5m S-232/USB conversion GT10-R32TUS8-5S -	Ompute link. Ompute link. OT09-C30R2-25P 3m Ibox for Handy GOT GT11H-CN9-37S - Ibox for Handy GOT GT11H-CN9-37P 3m GT11H-C09-37P 6m - Idoptration switch GT11H-C30 3m GT11H-C30 3m - GT11H-C30 3m - GT11H-C30 3m - GT11H-C100 10m - S-422, power supply GT11H-C15R4-8P 1.5m GT11H-C15R4-2SP 1.5m - S-232, power supply and operation switch commedion cable GT11H-C16R2-6P 1.5m S-232, power supply and paretion switch commedion cable GT11H-C16R2-6P 1.5m S-232, power supply and paretion switch commedion cable GT11A-C15R2-6P 1.5m S-232, power supply and paretion switch commedion cable GT11A-C16R2-6P 1.5m S-232, power supply and paretion switch commedion cable GT16-C304TE 0.3m S-232/USB conversion GT15-C50VG 5m - S-232/USB conversion GT10-RS2TUSB-SS - </td <td>Or 04-C304-2347 3111 Or 05-C3042-2347 3111 Disc C3042-2347 3111 Commetto Disuble Aud Cart (C100-C3042-29 expl) 3111 A device, power supply CT11H-C30-377 311 OT11H-C30-377 611 - GT11H-C30-377 611 - GT11H-C30-378 0106 - GT11H-C30-378 1.5m - S-422, power supply and operation switches and GOT - <tr< td=""><td>Omputer ink american cable O 108-C301-297 311 311 O For connection between computer link unit and OT For connection between ARSB/TR2N and OT GT11H-C30-37P O For connection between FA device, power supply and GT11H-C30-37P For connection between FA device, power supply and GT11H-C30-37P For connection between FA device, power supply and Operation switch GT11H-C30-37P For connection between FA device, power supply and Operation switch operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switchs and GOT For connection between AVGATCHU and GOT </td><td>Operation and/c Operation and/c For connection between computer link with and GOT • • b box for Handy GOT GT11H-C30-37P 3m C For connection between ADSBT-R24 waid GOT (GT05-C39R-24P evily) • b box for Handy GOT GT11H-C30-37P - - Converts Dub 37-pin connector between ADSBT-R24 waid GOT (GT05-C39R-24P evily) • A device, power supply dT11H-C30-37P - - Converts Dub 37-pin connector between ADSBT-R24 waid GOT (GT05-C39R-24P evily) • S-422, power supply dT11H-C30-37P - - For connection between FA device, power supply and GT11H-C30-37P -</td><td>G109-2007.291 Jain O For connection between computer link unit and G07 Image: Connection computer link unit connection computer link unit and G07 Image: Connection computer link unit and G07 Image: Connection computer link unit connection computer link unit</td><td>Order Order <th< td=""></th<></td></tr<></td>	Or 04-C304-2347 3111 Or 05-C3042-2347 3111 Disc C3042-2347 3111 Commetto Disuble Aud Cart (C100-C3042-29 expl) 3111 A device, power supply CT11H-C30-377 311 OT11H-C30-377 611 - GT11H-C30-377 611 - GT11H-C30-378 0106 - GT11H-C30-378 1.5m - S-422, power supply and operation switches and GOT - <tr< td=""><td>Omputer ink american cable O 108-C301-297 311 311 O For connection between computer link unit and OT For connection between ARSB/TR2N and OT GT11H-C30-37P O For connection between FA device, power supply and GT11H-C30-37P For connection between FA device, power supply and GT11H-C30-37P For connection between FA device, power supply and Operation switch GT11H-C30-37P For connection between FA device, power supply and Operation switch operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switchs and GOT For connection between AVGATCHU and GOT </td><td>Operation and/c Operation and/c For connection between computer link with and GOT • • b box for Handy GOT GT11H-C30-37P 3m C For connection between ADSBT-R24 waid GOT (GT05-C39R-24P evily) • b box for Handy GOT GT11H-C30-37P - - Converts Dub 37-pin connector between ADSBT-R24 waid GOT (GT05-C39R-24P evily) • A device, power supply dT11H-C30-37P - - Converts Dub 37-pin connector between ADSBT-R24 waid GOT (GT05-C39R-24P evily) • S-422, power supply dT11H-C30-37P - - For connection between FA device, power supply and GT11H-C30-37P -</td><td>G109-2007.291 Jain O For connection between computer link unit and G07 Image: Connection computer link unit connection computer link unit and G07 Image: Connection computer link unit and G07 Image: Connection computer link unit connection computer link unit</td><td>Order Order <th< td=""></th<></td></tr<>	Omputer ink american cable O 108-C301-297 311 311 O For connection between computer link unit and OT For connection between ARSB/TR2N and OT GT11H-C30-37P O For connection between FA device, power supply and GT11H-C30-37P For connection between FA device, power supply and GT11H-C30-37P For connection between FA device, power supply and Operation switch GT11H-C30-37P For connection between FA device, power supply and Operation switch operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switch and GOT For connection between FA device, power supply and Operation switchs and GOT For connection between AVGATCHU and GOT	Operation and/c Operation and/c For connection between computer link with and GOT • • b box for Handy GOT GT11H-C30-37P 3m C For connection between ADSBT-R24 waid GOT (GT05-C39R-24P evily) • b box for Handy GOT GT11H-C30-37P - - Converts Dub 37-pin connector between ADSBT-R24 waid GOT (GT05-C39R-24P evily) • A device, power supply dT11H-C30-37P - - Converts Dub 37-pin connector between ADSBT-R24 waid GOT (GT05-C39R-24P evily) • S-422, power supply dT11H-C30-37P - - For connection between FA device, power supply and GT11H-C30-37P -	G109-2007.291 Jain O For connection between computer link unit and G07 Image: Connection computer link unit connection computer link unit and G07 Image: Connection computer link unit and G07 Image: Connection computer link unit	Order Order <th< td=""></th<>

If FALTBGTR4CBL: is developed by Misukini Electric Engineering Company Limited and sold fravely provide sides office.
 The other products listed are developed by Misukini Electric System & Service Co., LTD. and sold through your local sales office.
 The other products listed are developed by Misukini Electric System & Service Co., LTD. and sold through your local sales office.
 The other products listed are developed by Misukini Electric System & Service Co., LTD. and sold through your local sales office.
 The other products listed are developed by Misukini Electric System & Service Co., LTD. and sold through your local sales office.
 The other hands comection configuration and cale vary adjecting on the COT main unit. For more details, see the GOT1000 Series Handbook and the GOT1000 Series Connection Manual.
 's Can be used when used together with the Handy GOT connector conversion box.
 's Can be used only for CT1052.
 's Can be used only for CT1052.

Cables for third party FA devices

	Product name	Model name	Cable	Third party products	GOT connection destination		Applica			*2
		modername	length	*1		GT16	GT15	GT11	Handy GOT	GT
					PLC CPU: CQM1/CQM1H/CS1/CJ1/CV500/CV1000/CV2000/CVM1					
		GT09-C30R20101-9P	3m		Serial communication unit: CS1W-SCU21/CJ1W-SCU41					
	Cable for				Communication board: C200HW-COM02/COM05/COM06					
	OMRON PLC		-	-	Serial communication board: CQM1-SCB41/CS1W-SCB41/CS1W-SCB21	-				
		GT09-C30R20102-25S	3m		Connection cable: CQM1-CIF01	-				
		GT09-C30R20103-25P	3m		Base mount type host link unit: C500-LK201-V1	-				
	Cable for	GT09-C30R21101-6P	3m	4	PLC CPU: KV-700/1000	-				
	KEYENCE PLC	GT09-C30R21102-9S	3m		Multi-communication unit: KV-L20/L20R port 1	-				
		GT09-C30R21103-3T	3m	4	Multi-communication unit: KV-L20/L20R port 2	-				\vdash
	Cable for	GT09-C30R20601-15P	3m		PLC CPU: JW-22CU/70CUH/100CUH/100CU	-				
	SHARP PLC	GT09-C30R20602-15P	3m	4	PLC CPU: JW-32CUH/33CUH	-				
	Cables for JTEKT PLC	GT09-C30R21201-25P	3m		RS-232/RS-422 converter: TXU-2051					
	Cable for Shinko Technos digital indicating controller	GT09-C30R21401-4T	3m		Digital indicating controller: FCR-100/FCD-100/FCR-23A/PC-900/FIR series					
	Cable for	GT09-C30R20501-9P	3m	1	PLC CPU: T2E	1				
	TOSHIBA PLC	GT09-C30R20502-15P	3m	1	PLC CPU: T2N	1				
	Cable for Hitachi Industrial		3m	1	PLC CPU: H-4010/H series board type/EH-150 series	1				
		GT09-C30R20401-15P	3m		Intelligent serial port module: COMM-H/COMM-2H					
	Equipment Systems PLC	GT09-C30R20402-15P	3m	1	PLC CPU: H-4010/EH-150 series	1				
	Cable for Hitachi PLC	GT09-C30R21301-9S	3m	1	Communication module: LQE560/LQE060/LQE160	1				
232					RS-232C interface card: NV1L-RS2				*3	
е	Cable for Fuji Electric FA	GT09-C30R21003-25P	3m	<u>ا ۷</u>	RS-232C/485 interface capsule: FFK120A-C10				-3	
	Components & Systems PLC				General interface module: NC1L-RS2/FFU120B					
		GT09-C30R20901-25P	3m	1	RS-4228232 conversion adapter: AFP8550	1				
	Cable for			1	PLC CPU: FP2/FP2SH/FP10(S)/FP10SH/FP-M	1				
	Matsushita Electric	GT09-C30R20902-9P	3m		Computer communication unit: AFP2462/AFP3462/AFP5462					
	Works PLC	GT09-C30R20903-9P	3m	1	PLC CPU: FP1-C24C/C40C	1				
		GT09-C30R20904-3C	3m	1	PLC CPU: FP1-C16CT/C32CT	1				
		GT09-C30R20201-9P	3m	1	PLC CPU: PROGIC-8/MP-920/MP-930	1				
		GT09-C30R20202-15P	3m	1	PLC CPU: PROGIC-8	1				
	Cable for	GT09-C30R20203-9P	3m	1	PLC CPU: CP-9300MS MEMOBUS module: CP-217IF (when connected to CN1)	1				
	YASKAWA Electric PLC	GT09-C30R20204-14P	3m	1	PLC CPU: MP940	1				
		GT09-C30R20205-25P	3m	1	MEMOBUS module: CP-217IF (when connected to CN2)	1				
				1	Yokogawa Electric personal computer module: LC01-0N/LC02-0N	4				\vdash
	Cable for	GT09-C30R20301-9P	3m		CPU port/D-sub 9-pin conversion cable: KM10-0C					
	Yokogawa Electric PLC	GT09-C30R20302-9P	3m	1	Personal computer module: F3LC11-1N/F3LC11-1F/F3LC12-1F/F3LC11-2N	-				
	-	GT09-C30R20305-9S	3m		PLC CPU: NFCP1000/NFJT100	-				
	Cable for Yokogawa Electric temperature controller	GT09-C30R20304-9S	3m		Converter: ML2-					
	Cable for Allen-Bradley (Rockwell Automation, Inc.) PLC	GT09-C30R20701-9S	3m]	PLC CPU: SL500 series Converter: 1761-NET-AIC]				
	Cable for Siemens AG PLC	GT09-C30R20801-9S	3m		HMI adapter					

11: I term lated above and serviced by Mituabath Electric System & Sancke Co. LTD, and sold brough your local sales office. 12: I here applicable connection configuration and cable vary appending on the COL Timain unit. For more details, see the COLT1000 Series Handbook and the GOT1000 Series Connection Manual. 13: The R5-422 cables less than 10m and the R5-232 cable less than 3m can be used when the connector conversion box for the Handy GOT is used. 14: C can be used only for CTI05...

1

2

SOFTWARE

3

6

EQUIPMENT, SOFTWARE, AND MANUALS

7

Cables for third party FA devices

	Product n	ame	Model name	Cable length	Third party products *1	GOT connection destination	GT16	Applic GT15	able m GT11		*2 GT10
			GT09-C30R40101-9P GT09-C100R40101-9P GT09-C200R40101-9P GT09-C300R40101-9P	3m 10m 20m 30m		PLC CPU: CV500/CV1000/CV2000/CVM1 Serial communication unit: CJ1W-SCU41 Serial communication board: CQM1-SCB41/CS1W-SCB41					
	Cable for OMRON P	LC	GT09-C30R40102-9P GT09-C100R40102-9P GT09-C200R40102-9P GT09-C300R40102-9P	3m 10m 20m 30m		Base mount type host link unit: C200H-LK202-V1/C500H-LK201-V1 Communication board: C200HW-CCM03/COM06					
			GT09-C30R40103-5T GT09-C100R40103-5T GT09-C200R40103-5T GT09-C300R40103-5T	3m 10m 20m 30m		Communication board: CP1W-CIF11					•4
	Cable for KEYENCE	PLC	GT09-C30R41101-5T GT09-C100R41101-5T GT09-C200R41101-5T GT09-C300R41101-5T	3m 10m 20m 30m		Multi-communication unit: KV-L20/L20R port 2					
			GT09-C30R40601-15P GT09-C100R40601-15P GT09-C200R40601-15P GT09-C300R40601-15P	3m 10m 20m 30m		PLC CPU: JW-22CU/70CUH/100CUH/100CU					
	Cable for SHARP PL	c	GT09-C30R40602-15P GT09-C100R40602-15P GT09-C200R40602-15P GT09-C300R40602-15P	3m 10m 20m 30m		PLC CPU: JW-32CUH/33CUH					
			GT09-C30R40603-6T GT09-C100R40603-6T GT09-C200R40603-6T GT09-C200R40603-6T	3m 10m 20m 30m		Link unit: JW-21CM/10CM/ZW-10CM					
	Cable for JTEKT PLO	3	GT09-C30R41201-6C GT09-C100R41201-6C GT09-C200R41201-6C GT09-C200R41201-6C GT09-C300R41201-6C	3m 10m 20m 30m		PLC CPU: PC3J/PC3JL Communication module: PC/CMP2-LINK					
			GT09-C30R40501-15P GT09-C100R40501-15P GT09-C200R40501-15P GT09-C300R40501-15P	3m 10m 20m 30m		PLC CPU: T2/T3/T3H/model3000(S3)					
RS-422	Cable for TOSHIBA I	PLC	GT09-C30R40502-6C GT09-C100R40502-6C GT09-C200R40502-6C GT09-C200R40502-6C GT09-C300R40502-6C	3m 10m 20m 30m		PLC CPU: T2E/model2000(S2)	1				
cable			GT09-C300R40502-8C GT09-C300R40503-15P GT09-C100R40503-15P GT09-C200R40503-15P GT09-C300R40503-15P	3m 10m 20m 30m	0	PLC CPU: T2N		•	•	*3	-
	Cable for Hitachi Ind Equipment	ustrial Systems PLC	GT09-C30R40401-7T GT09-C100R40401-7T GT09-C200R40401-7T	3m 10m 20m		Intelligent serial port module: COMM-H/COMM-2H					
	Cable for Hitachi PLO		GT09-C300R40401-7T GT09-C30R41301-9S GT09-C100R41301-9S GT09-C200R41301-9S GT09-C200R41301-9S	30m 3m 10m 20m 30m		PLC CPU: LQP510 Communication module: LQE565/LQE165					
	Cable for Fuji Electric Componen Systems P	ts &	GT09-C30R41001-6T GT09-C100R41001-6T GT09-C200R41001-6T GT09-C200R41001-6T GT09-C300R41001-6T	3m 10m 20m 30m		RS-232C/485 interface capsule: FFK120A-C10 General interface module: NC1L-RS4/FFU120B					
	Cable for		GT09-C30R40201-9P GT09-C100R40201-9P GT09-C200R40201-9P GT09-C200R40201-9P	3m 10m 20m 30m		MEMOBUS module: JAMSC-120NOM27100/JAMSC-IF612					
	Yaskawa E	lectric PLC	GT09-C30R40202-14P GT09-C100R40202-14P GT09-C200R40202-14P GT09-C300R40202-14P	3m 10m 20m 30m		PLC CPU: MP940					*4
		PLC	GT09-C30R40301-6T GT09-C100R40301-6T GT09-C200R40301-6T GT09-C300R40301-6T	3m 10m 20m 30m		Personal computer link module: F3LC11-2N					
	Cable for Yokogawa	FLU	GT09-C30R40302-6T GT09-C100R40302-6T GT09-C200R40302-6T GT09-C200R40302-6T	3m 10m 20m 30m		Personal computer link module: LC02-0N					
	Electric	Temperature	GT09-C30R40303-6T GT09-C100R40303-6T GT09-C200R40303-6T GT09-C300R40303-6T	3m 10m 20m 30m		Temperature controller: GREEN series					
		controller	GT09-C30R40304-6T GT09-C100R40304-6T GT09-C200R40304-6T GT09-C200R40304-6T	3m 10m 20m 30m		Temperature controller: UT2000 series					

Construction of the set of t

7. GLOSSARY

This chapter describes glossaries related to the GOT.

7. GLOSSA	Υ	
-----------	---	--

7. GLOSSARY

Item	Description
CC-Link connection	Connection to the CC-Link network system CC-Link (Control & Communication Link) is a high-performance FA field network. With CC-Link, a large quantity of ON/OFF information as bit data and numerical information as word data can be sent at 10Mbps of the highest communication speed in the industry.
CC-Link IE controller network connection	Connection to the CC-Link IE controller network system CC-Link IE controller network is a network that realizes a communication speed at 1 Gbps and a maximum 256 Kbyte of the network shared memory.
CF card	Abbreviation for CompactFlash Card CompactFlash is the memory card standard suggested by SanDisk Corporation. A CF card consists of the flash memory that data are not deleted without energization and the control circuit for the external I/O.
Direct CPU connection	The GOT can communicate with a programmable controller and each module with connecting the GOT to the interface of the programmable controller CPU module.
Document Converter	Software for GOT1000 series Software for creating data for the document display function of GT Designer2
Ethernet connection	Connection with the standard network communication method (Ethernet) with personal computers and workstations
GOT internal devices	Devices used in the GOT The GOT internal devices include word devices for numerical information and bit devices for ON/OFF information.
GT Converter2	Software for converting the project data created with the GOT800 series drawing software and with the screen editor software manufactured by Digital Electronics Corporation into data applicable to GT Designer2
GT Designer2	Software for creating the screen for GOT1000 series and GOT900 series
GT Simulator2	Software for simulating operations of the GOT-A900 series and GOT1000 series on a personal computer with connecting the GOT to GX Simulator and a programmable controller CPU
GT SoftGOT1000	Software for using a personal computer as the GOT1000 series
GT SoftGOT2	Software for using a personal computer as the GOT-A900 series
MELSECNET/10 connection	Connection to one of the MELSEC (name for the networks of Mitsubishi Electric Corporation) network systems The high-speed communication of 10 Mbps is available.
MELSECNET/H connection	Connection to the control network system (MELSECNET/H) among manufacturing equipment Data directly related to operations of mechanical equipment can be communicated among control equipment in real time with the high-speed communication and large-capacity link devices.
MES DB Connection Service	MES is an abbreviation for Manufacturing Execution Systems. The system controls and monitors the status of factories in real time for optimizing production activities. DB Connection Service is software. The MES interface function for the GOT can be used with installing the software on the server computer.
Programmable controller to programmable controller network	System for the data communication In the MELSECNET/10 network system, multiple programmable controllers can be connected for the data communication.
STN	STN is an abbreviation for Super Twisted Nematic. The 256-color, monochrome with 16 shades of gray (white/black), and monochrome (white/black) displays are available for GOT1000 series.
TFT	TFT is an abbreviation for Thin Film Transistor. The 256-color and 65536-color displays are available for GOT1000 series.
USB memory	Memory that is available when it is connected to the USB interface.
Intelligent device station	One of the CC-Link system stations The cyclic transmission and transient transmission are available. The GOT connected to CC-Link corresponds to an intelligent device station.
	(Continued to next page)

(Continued to next page)

Item	Description
Window screen	Screen displayed on the base screen A created window screen is displayed as an overlap window, a superimpose window, a key window, or a dialog window.
Overlap window	Window that pops up on the base screen The window can be manually moved or closed. Up to two windows can be simultaneously displayed.
Object	For GOT1000 series, the GOT functions are enabled with setting figures, including switches, lamps, and display panes for the numeric display, and with assigning devices (bit and word) and operation functions to the figures on GT Designer2. Object is a generic term for the targets to be set.
Option OS	OS to be installed on the GOT for using the option functions For using the option functions, an option function board is separately required.
Option units	Extension units to be installed on the extension unit interfaces of the GOT excluding the communication units
Extended function OS	OS to be installed on the GOT for using the extended functions
Extension unit	Generic term for the option units and communication units
Screen switching	Function for switching between base screens and window screens of the GOT The screen switching is enabled with screen switching devices (word devices).
Control station	One of the MELSECNET/10 (programmable controller to programmable controller network) stations The control station controls the whole network. Only one control station is required in a network.
Key window	Window that pops up on the base screen for input operations, including the numerical input The key window is divided into two types. One is preinstalled in the GOT, and the other is created by the user.
Standard monitor OS	OS to be installed on the GOT for starting the GOT
Cranhia Oneration Terminal	Term for MITSUBISHI human machine interface
Graphic Operation Terminal	Graphic Operation Terminal is abbreviated to GOT.
Computer link connection	The GOT can communicate with a programmable controller and each module via a computer link module connected to a programmable controller.
Comment	Character string registered by the user on GT Designer2 Comments can be displayed with the multiple object functions when the comments are registered as the basic comment or the comment group in advance.
Context menu	Menu displaying a list of shortcuts A list of shortcuts that are available for the item currently selected is displayed. When using GT Designer2, right-click the editor screen to display it.
System monitor	Function of the GOT that devices of a programmable controller CPU and the buffer memory of an intelligent function module can be monitored or tested
Serial communication module	Module that reads from or writes to programmable controller devices or that realizes the function with connecting a programmable controller and computer (GOT or personal computer) using RS-232 or RS-422 lines for serial communication
Serial communication	Communication method where data is sent or received one bit by one with a signal line
Superimpose window	Window superimposed on the base screen When a superimpose window is switched, a part of the base screen can be changed. Up to two windows can be simultaneously displayed.
Extension cable	Cable for connecting the extension base unit (main base unit) and the GOT for the bus connection between programmable controller and the GOT
Dialog window	Window displayed on the top of all screens The window can be used to indicate an error and warning for the system. The window can also be used instead of system messages displayed on the GOT.
Communication driver	OS to be installed on the GOT for communicating with controllers, including a programmable controller CPU The communication driver dedicated to each connection type (bus connection, direct CPU connection, and others) is required.

Item	Description	
Communication unit	Extension unit to be installed on the extension interfaces of the GOT for communicating with controllers, including a programmable controller CPU	
Device	Generic term for the memories equipped in the programmable controller CPU The device is for storing data or ON/OFF signal used for sequence programs.	
Coaxial cable	One of the electrical cables The cable is covered with an insulator and the covered cable is shielded for effectively transmitting high-frequency signals.	
Coaxial bus system	Network configuration using the MELSECNET/10 coaxial cable connection The system is called "Coaxial bus system" since the bus type connection is used.	
Bus connection	A bus is a transmission path that enables a programmable controller CPU to communicate with the other modules. The bus connection is that the GOT is connected to the bus.	
Fiber-optic cable	Cable for transmitting optical signals The programmable controller is activated by an electrical signal. The electrical signal of ON/OFF is converted to the optical signal to send the optical signal via a fiber-optic cable. When receiving the signal, the signal is converted to the electrical signal.	
Optical loop system	Network configuration using the MELSECNET/10 fiber-optic cable connection The system is called "Optical loop system" since the loop (ring) type connection is used.	
Bit device	One of the devices of the programmable controller The device that transmits information by one bit	
Parts	Figures registered as parts Parts are used for the parts display and parts movement. Figures that can be registered as parts include character and image data.	
Flash memory	Memory that stored data are not deleted without energization	
Project (file)	A group of all the information to be displayed on a GOT A project consists of the screen information, parts information, and others. The information (project) is created as one file.	
Base screen	The basic screen for the GOT screen display	
Base unit	Module where a programmable controller CPU module, power supply module, I/O module, or intelligent function module is installed	
Master station	A programmable controller CPU station where a master module controlling the CC- Link system and data link is installed	
Memory card	Screen data can be stored in a memory card with a GOT, and the data can be used with the other GOTs. The memory card includes the CF card.	
Motion controller CPU	A CPU module that enables the positioning control of multiple axes easier and with high-speed and high-accuracy The processing load is distributed by assigning the complicated servo control to the motion CPU module and other machine and information controls to the programmable controller CPU module.	
List editor	Function for changing a sequence program in the list program format (instruction word) with the GOT Programs can be edited on the scene immediately.	
Remote I/O station	One of the remote I/O network system stations The remote I/O station is a station at the remote side that sends and receives signals with controllers at the machine side by the command from the master station in a remote place.	
Report screen	Screen for creating formats to be output with the report function	
Local station	One of the CC-Link system stations The local station is a programmable controller CPU station with a local module is installed.	
Word device	One of the devices of the programmable controller The device that transmits information by 16 bits (word). The GOT can treat the word device with 16 bits or 32 bits.	

<u>WARRANTY</u>

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

Gratis Warranty Term and Gratis Warranty Range

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

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

Gratis Warranty Term

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

Note that after manufacture and shipment from Mitsubishi, the maximum distribution period shall be six (6) months, and the longest gratis warranty term after manufacturing shall be fortytwo (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.
 - ③ Failure caused by external irresistible forces such as firres or abnormal voltages, and Failure caused by force majeure such as earthquakes, lightning, wind and water damage.
 - ⑦ Failure caused by reasons unpredictable by scientific technology standards at time of shipment from Mitsubishi.
 - ⑧ Any other failure found not to be the responsibility of Mitsubishi or that admitted not to be so by the user.

Onerous repair term after discontinuation of production

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

Overseas service

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.

Microsoft Windows, Microsoft Windows NT, Windows Vista are registered trademarks of Microsoft Corporation in the United States and other countries.

Adobe and Adobe Reader are registered trademarks of Adobe Systems Incorporated.

Pentium and Celeron are a registered trademarks of Intel Corporation in the United States and other countries.

Ethernet is a trademark of Xerox Co., Ltd. in the United States.

MODBUS is a trademark of Schneider Electric SA.

Other company and product names herein are either trademarks or registered trademarks of their respective owners.

Mitsubishi Graphic Operation Terminal

Precautions for Choosing the Products

This handbook 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 handbook property, always read the related manuals before starting to use them.

- The products within this handbook 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 tile.
 Before using any product for special purposes such as nuclear power, electric power,
- 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 handbook have been manufactured under strict quality
- The products within this handbook have been manuactured under since quality control. However, when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

Country/Region	Sales office	Te l /Fax
USA	Mitsubishi Electric Automation Inc. 500 Corporate Woods Parkway, Vernon Hills, IL 60061, USA	Tel: +1-847-478-2100 Fax: +1-847-478-0327
Brazil	MELCO-TEC Rep. Com.e Assessoria Tecnica Ltda. Av. Paulista, 1439-CJ. 72 Cerqueira Cesar CEP 01311-200, Sao Paulo, SP, CEP: 01311-200, Brazil	Tel: +55-11-3146-2200 Fax: +55-11-3146-2217
Germany	Mitsubishi Electric Europe B.V. German Branch Gothaer Strasse 8, D-40880 Ratingen, Germany	Tel: +49-2102-486-0 Fax: +49-2102-486-1120
UK	Mitsubishi Electric Europe B.V. UK Branch Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, UK.	Tel: +44-1707-276100 Fax: +44-1707-278992
Italy	Mitsubishi Electric Europe B.V. Italy Branch Viale Colleoni 7-20041 Agrate Brianza (Milano), Italy	Tel: +39-039-60531 Fax: +39-039-6053312
Spain	Mitsubishi Electric Europe B.V. Spanish Branch Ctra. de Rubí 76-80-AC.420, E-08190 Sant Cugat del Vallés (Barcelona), Spain	Tel: +34-93-565-3131 Fax: +34-93-589-2948
France	Mitsubishi Electric Europe B.V. French Branch 25, Boulevard des Bouvets, F-92741 Nanterre Cedex, France	Tel: +33-1-5568-5568 Fax: +33-1-5568-5757
South Africa	Circuit Breaker Industries Ltd. Private Bag 2016, ZA-1600 Isando, South Africa	Tel: +27-11-928-2000 Fax: +27-11-392-2354
Hong Kong	Mitsubishi Electric Automation (Hong Kong) Ltd. 10/F, Manulife Tower, 169 Electric Road, North Point, Hong Kong	Tel: +852-2887-8870 Fax: +852-2887-7984
China	Mitsubishi Electric Automation (Shanghai) Ltd. 17/F, ChuangXing Financial Center No.288 West Nanjing Road, Shanghai 200003	Tel: +86-21-2322-3030 Fax: +86-21-2322-3000
Taiwan	Setsuyo Enterprise Co., Ltd. 6F, No.105 Wu-Kung 3rd Rd, Wu-Ku Hsiang, Taipei Husien 248, Taiwan	Tel: +886-2-2299-2499 Fax: +886-2-2299-2509
Korea	Mitsubishi Electric Automation Korea Co., Ltd. 1480-6, Gayang-dong, Gangseo-ku, Seoul 157-200, Korea	Tel: +82-2-3660-9552 Fax: +82-2-3664-8372
Singapore	Mitsubishi Electric Asia Pte, Ltd. 307 Alexandra Road #05-01/02, Mitsubishi Electric Building Singapore 159943	Tel: +65-6470-2460 Fax: +65-6476-7439
Thailand	Mitsubishi Electric Automation (Thailand) Co., Ltd. Bang-Chan Industrial Estate No.111 Soi Serithai 54, T.Kannayao, A.Kannayao, Bangkok 10230 Thailand	Tel: +66-2-517-1326 Fax: +66-2-517-3239
Indonesia	P.T. Autoteknindo Sumber Makmur Muara Karang Selatan, Block A / Utara No.1 Kav. No.11, Kawasan Industri Pergudangan, Jakarta- Utara 14440, P.O.Box 5045 Jakarta11050-Indonesia	Tel: +62-21-663-0833 Fax: +62-21-663-0832
India	Messung Systems Pvt., Ltd. Electronic Sadan NO: III Unit No.15, M.I.D.C. Bhosari, Pune-411026, India	Tel: +91-20-2712-3130 Fax: +91-20-2712-8108
Australia	Mitsubishi Electric Australia Pty. Ltd. 348 Victoria Road, Rydalmere, N.S.W. 2116, Australia	Tel: +61-2-9684-7777 Fax: +61-2-9684-7245

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN NAGOYA WORKS: 1-14, YADA-MINAMI 5, HIGASHI-KU, NAGOYA, JAPAN

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