

Mitsubishi Graphic Operation Terminal









Mitsubishi Electric Corporation Nagoya Works is a factory certified for ISO14001 (standards for enviror management systems) and ISO9001 (standards for quality assurance management systems)











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Function description

GOT dictionary

 OS installation, various connection forms, etc. P.34
Main unit functions
Recipe, script, security, etc.
Maintenance functions
•System monitor, Ladder monitor, etc. · · · · P.36
Drawing software (including GT Simulator2)
•GOT simulation, converter, etc. · · · · P.37

Others

■ Connection configuration · · · · P.38
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improved operability achieves, Reduction in screen drawing time by **half**

is usable without any modification

Ghoose

GOT

according

6

its functions



A complete line-up, giving a free choice of sizes and functions

The all models are fully compatible with the drawing software

Graphic Operation Terminal







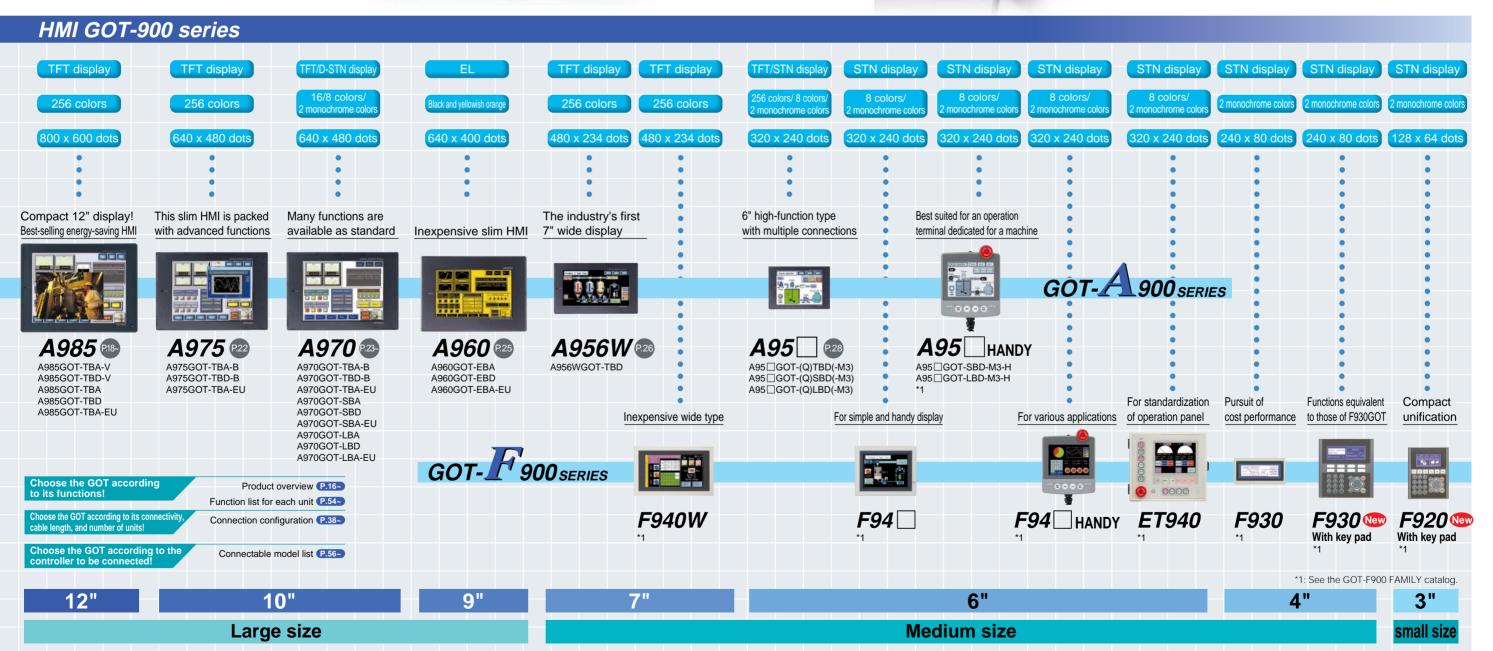
HMI software for personal computer

GT SoftGOT2 P16



MELSOFT is a general name of Mitsubishi's integrated FA software that plays an important role in all processes of design, operation and maintenance.

The MELSOFT products include the GT series that supports design work from GOT drawing to debugging and the GX series for PLC programming.







Reduction in screen drawing time by



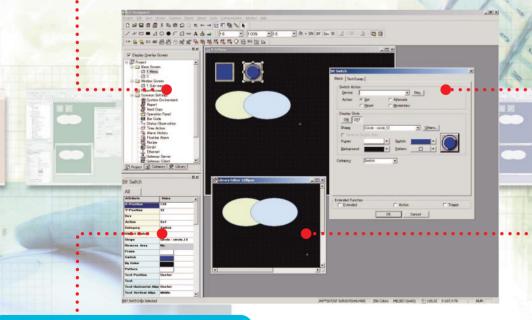
- Reduction in screen drawing time by had
- Windows® standard operability and menu configuration 2
- Data compatibility with GT Designer

WORK SPACE

- · The entire screen's configuration can be viewed in tree format, and the screens can be added, deleted, copied and moved.
- · A project unit, category unit or library unit can be selected by changing the tabs.

DIALOG BOX

- This screen is used to set object or figures' display attributes.
- This screen opens when the object or figures are double-clicked on.
- Each setting item can be customized.



PROPERTY SHEET

- · Attribute setting for the selected object or figures are displayed.
- · Various settings can be modified on the property sheet

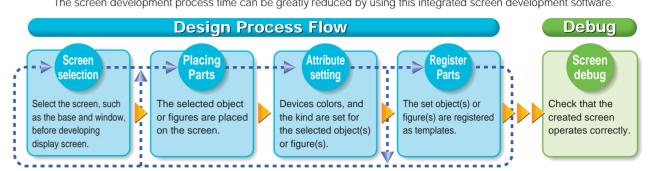
LIBRARY EDITOR

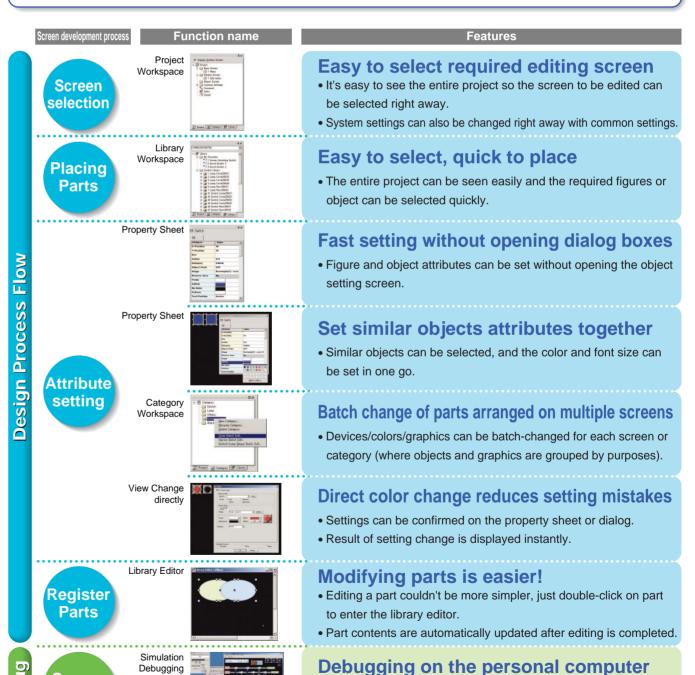
- · This screen is used to edit template
- The user-created library can be reedited easily.

Flow of screen development

With GT Designer2, the screen is selected and then created by placing and setting objects and figures. The screen can also be debugged with GT Simulator2.

The screen development process time can be greatly reduced by using this integrated screen development software.





• GOT screens can be simulated on the personal computer and debugged.

• The PLC program and GOT screens can be debugged simultaneously.

- *1: Refer to Operating Environment on page 30 and List of Products on page 59 for GT Designer2 and GT Simulator2
- *2: GT Simulator2 and GX Simulator are required for simulation debugging.

Screen

debug

Support servo

amplifier

Support motion/positioning modules

Fully

compatible

with PLC

What is

touch

search?

How to search for the cause of warning light (Y30)

Touch M130.

FA integrated functions

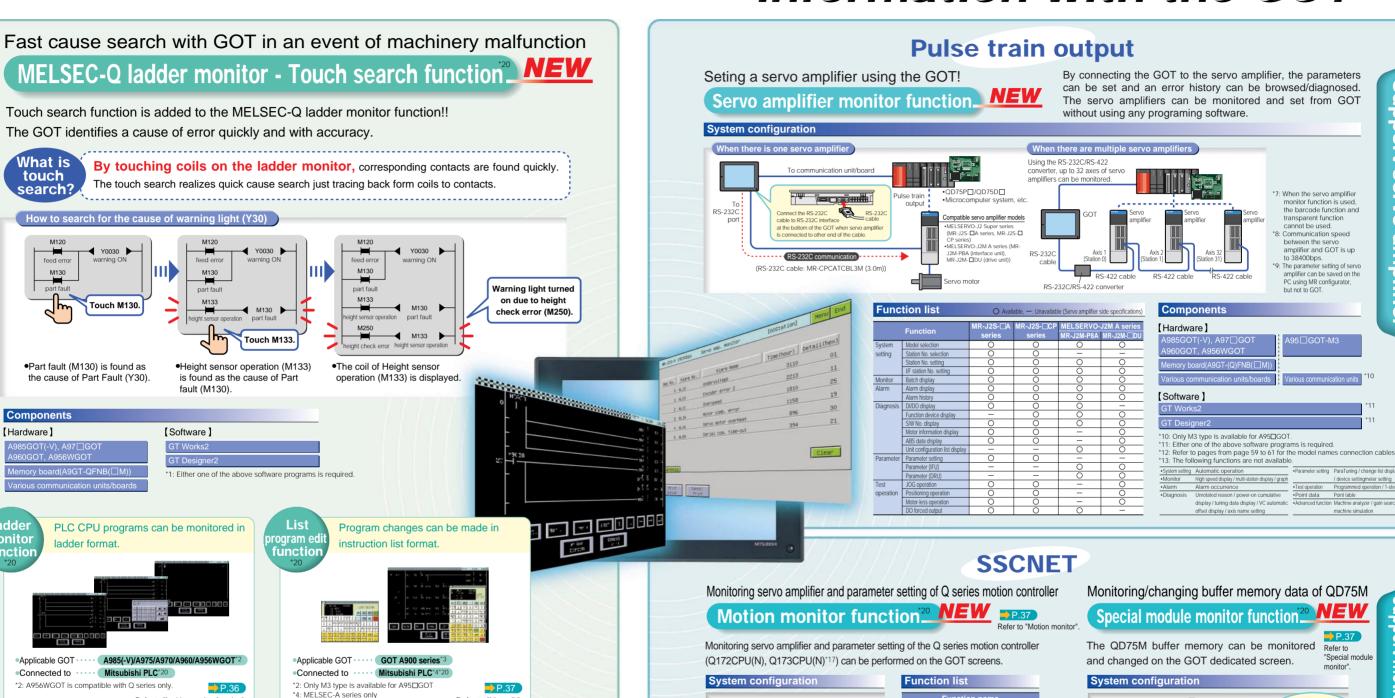
Touch M133.

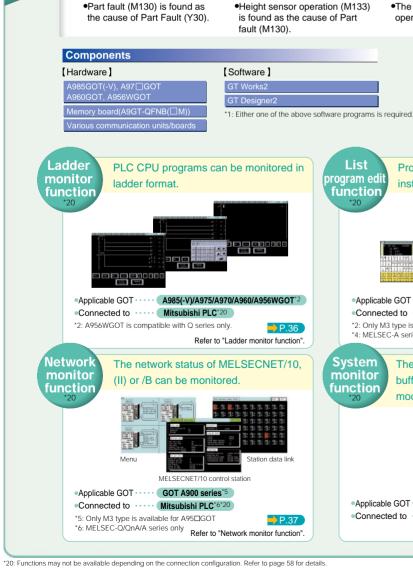
A985GOT-V

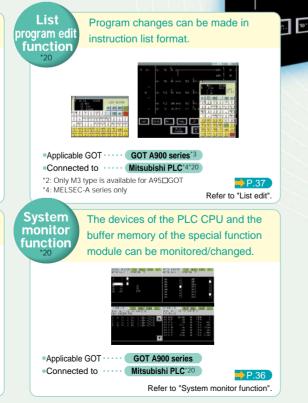
A985GOT

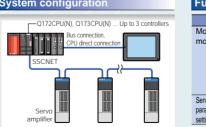
A956WGOT A95□GOT

Integrate FA products information with the GOT







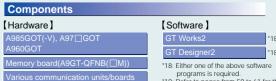


Function	Function list			
F	Function name			
Motion	Current value monitor			
monitor SFC error history				
	Error list			
	Error list (Specified Axis)			
	Positioning monitor			
	Servo amplifier monitor			
	Current value history monitor			
Servo amplifier	Servo amplifier parameter			
parameter	parameter (Basic parameter,			
setting	adjustment parameter)			

L⊓ai	uwai	e]		
A985	GOT	(-V), A9	7□GOT	
A960	GOT		VGOT	

[Software]

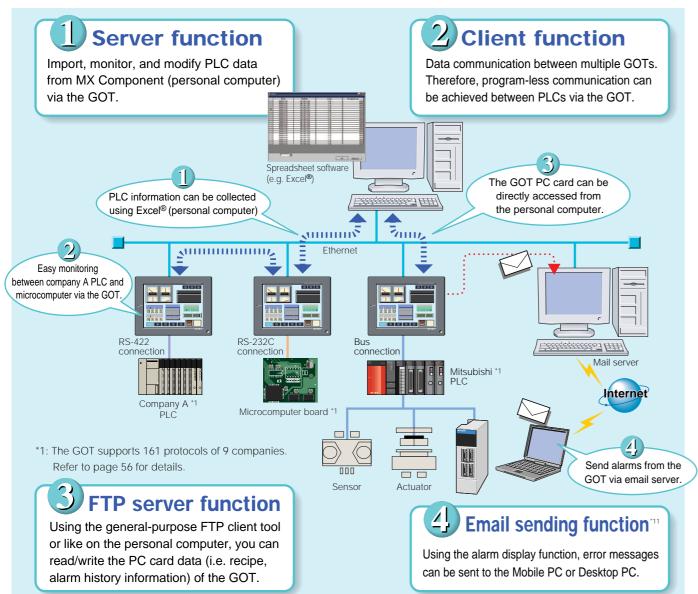
*14: Only M3 type is available for A95□GOT *16: Refer to pages from 59 to 61 for the names and the connection cables.
*17: Refer to page 56 for restriction on the CPU months.



^{*20:} Functions may not be available depending on the connection configuration. Refer to page 58 for details

special report 3 Gateway functions NEW

The GOT can handle data transfer between host computer and PLCs, and data and alarm notice can be remotely collected from an office.



■ GOT-900 series and connection configuration

where you can use the gateway functions					
Connection form	A985 GOT(-V)	A97□ GOT	A960 GOT	A956W GOT	A956 GOT-M3
Bus connection	0	0	0	0	0
CPU direct connection	0	0	0	0	×
Computer link connection	0	0	0	0	×
MELSECNET connection	×	×	×	×	×
CC-Link connection	×	×	×	×	×
Ethernet connection	×	×	×	×	×
Other manufacturer's PLC connection	0	0	0	0	×
Microcomputer connection	0	0	0	0	×
O:Available X:Unavailable					

- *2: When A985GOT(-V), A97GOT, A960GOT or A956WGOT is used, an expansion memory board (A9GT-FNB (1/2/48M) or
- A9GT-QFNB (4/8M)) is required to the GOT. *3: A956GOT-M3 (internal memory built-in type) is required for
- A956GOT.

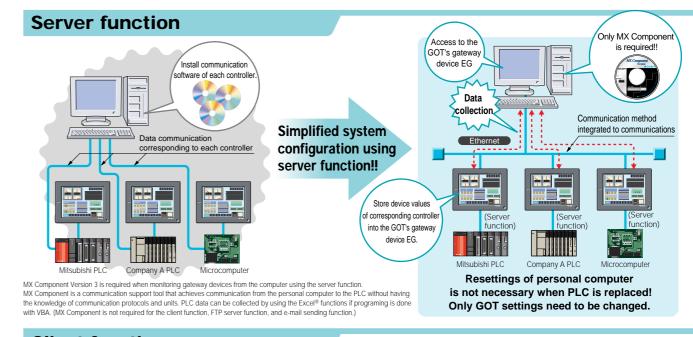
 *4: GT SoftGOT, the A950GOT, A951GOT(-Q), A953GOT, A95 handy GOT and GOT-F900 series does not support Gateway

Equipment/coftware personners for the actoway functions

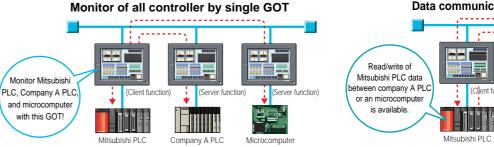
■ Equipment/software necessary for the gateway functions					
Application	Necessar	y equipment/software	A985GOT(-V) A97□GOT A960GOT	A956WGOT	A956GOT-M3
Connect GOT to Ethernet system (required)	- 11		A9GT-J71E71-T (10BASE-T) hardware version E or later		
		Bus connection (QCPU (Q mode))	A9GT-QBUSS or A9GT-QBUS2S *5*6		
Connect GOT to	Communication	Bus connection (QnA/ACPU)	A9GT-BUSS or A9GT-BUS2S *5*6		
PLC (required)	board	RS-232C communication	A9GT-RS2 or A9GT-RS2T	A9GT-50WRS2	Cannot be
		RS-422 communication	A9GT-RS4	A9GT-50WRS4	connected
Execute gateway	Memory board		A9GT-QFNB (4/8M) or A9GT-FNB (1/2/4/8M) Not required		
functions with GOT	Drawing so	ftware	GT Designer2 or GT Works2		
Use server function (Collect PLC information by PC)	Jse server function ActiveX library for Collect PLC information by PC communication		MX Component Version 3 or later *10		
	SRAM PC card		JEIDA Ver 4.2 compliant (PCMCIA 2.1 compliant) SRAM PC card *7		
Use FTP server function	Flash PCcard		A9GTMEM-10MF, A9GTMEM-20MF, A9GTMEM-40MF		
	Compact flash PC card		Compact Flash TM compliant compact flash	h PC card *8*9	Unusable

- 5: The bus connection unit (A9GT-(Q)BUS(2)SU) is unavailable for the gateway functions. Use the above bus connection board
- '6: The bus connection board dedicated to the A956WGOT (A9GT-50WQBUSS, A9GT-50WBUSS) does not support the gateway
- functions. Use the above bus connection board (A9GT-(0)BUS(2)S) when connecting A956WGOT via Bus *7: A memory card interface unit is required to use the SRAM type PC card with the A956WGOT or A956GOT.
- *8: For other than the A956WGOT, a conversion adaptor (compact ⇔Type II conversion adaptor) is required.
 *9: A985GOT-TBA/TBD and A985GOT-TBA-EU does not support Compact Flash PC card.
- *10: Applications (for example, MX Sheet) that operates on MX Component are available *11: Mail sending function operates within the range of SMTP server specification.

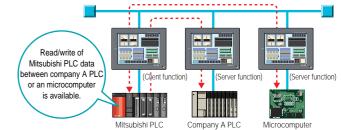
Integrated information system between controllers!



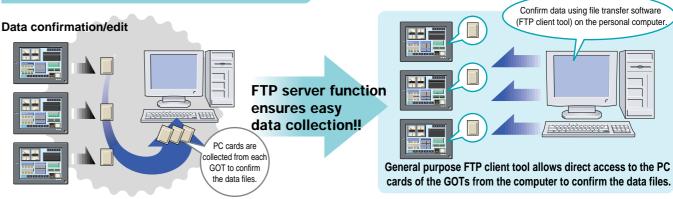
Client function



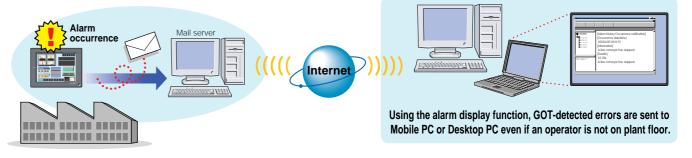
Data communication between PLCs



FTP server function



E-mail sending function



We recommend the GOT with confidence

Recommended for the operator

Improve workability and reduce running costs



The GOT can be viewed and operated without stress

If a machine's operation or monitor's response is bothering, the HMI cannot be used comfortably.

When you use the GOT

Quick response is made due to bus connection or direct PLC CPU connection. The responses of the monitor display and operation are also guick.

Refer to "Various Connection Configurations" on page 34.



 Applicable GOT··· GOT-A series, GOT-F series, SoftGOT ** Mitsubishi PLC Other manufacturer's PLC Microcomputer Usable Unusable

Recipe

Initial values for material blending, processing dimensions and positioning can be easily set

A controller (PLC or microcomputer) program (transfer instructions) is normally used to set initial values for material blending, processing dimensions, positioning, etc.

When you use the GOT

The settings (initial values) of different patterns can be saved in the GOT internal memory, and only necessary data can be transferred to the controller as appropriate by the specified condition (trigger), reducing the controller loads (programs and devices). Controller data can be read and saved, so the process control and production control information saved on a PC card can be read and used on a personal computer (e.g. Spreadsheet software).

Refer to "Recipe" on page 35.



•Applicable GOT··· GOT-A series, GOT-F series, SoftGOT *2*3

Connected to:	Mitsubishi PLC	Other manufacturer's PLC	Microcomputer
Connected to:	Usable	Usable	Usable

*2: The functions of the AGOT are different from those of the GOT-F900 series. Refer to this catalog and the GOT-F900 series catalog for details.

Human sensor

Energy conservation with Human sensor

The energy saving law was revised in April, 1999, and more efforts must be made to save energy.

When you use the GOT

Using the industry's first person sensor, the HMI can be turned on automatically when a person approaches it. When the HMI is not used, turning the backlight off increases its life, achieving both energy saving and running cost reduction.

Refer to "Human Sensor" on page 34.



■ Energy saving effect Energy is saved by 20% in error detection display (Actual work time 0.5 hours/day) Energy is saved by 8% in an assembly instruction process. (Actual work time 5 hours/day)

•Applicable GOT ··· A985GOT(-V)

Connected to:	Mitsubishi PLC	Other manufacturer's PLC	Microcomputer
Connected to.	Usable	Usable	Usable

Multilanguage

A single GOT can display various languages

Local plant workers can use the GOT as it can display Chinese (Simplified Chinese (China), Traditional Chinese (Taiwan)) and Korean.

When you use the GOT

The drawing software GT Designer2 allows users to create screens in various languages using the multi-language function of Windows®. Adopting the Unicode, the GOT can display various languages.



Graphic Operation Termina

We recommend the GOT with confidence

Recommended for the maintenance personnel

Improved maintainability and reduced running costs



Improved maintainability

The maintenance personnel should solve problems as fast as possible when a machine malfunctions or fails.

When you use the GOT

•Ladder monitor *3 *4

You can monitor circuits in a ladder diagram format.

•Fault cause search/touch search New *3 *5 The cause of failure is easily detected by tracing back contacts to coils with Q series PLC. (Touch search)

•List program edit *3 *6 *7

Read/write of list programs (instruction word) format enables users to edit easily on the site.

Refer to "Ladder monitor" and "List edit" on pages 36 and 37.

*Ladder monitor programmed on GX Developer can be monitored via the GOT

when the GOT is connected via Bus and CPU direct connections. (Transparent function) Refer to "Transparent" on page 34 for details.

Features and recommended points

*4: Applicable GOT ··· A985(-V)/A975/A970/A960/A956WGOT

Connected to ··· Mitsubishi PLC (The A956WGOT is supported by the MELSEC-Q series (Q mode) only.) *5: Applicable GOT ··· A985(-V)/A975/A970/A960/A956WGOT

Connected to ··· Only the MFLSEC-A series. O series are supported (The touch search is available for the MELSEC-Q series (Q mode) only.) *6: Applicable GOT ··· GOT-A900 series (only M3 type for the A95□GOT)

Connected to ··· Only the MELSEC-A series is supported. *7: Applicable GOT ··· F940(W)/F940 handy/ET940GOT

Connected to ··· Only the MELSEC-FX series is supported.

•Applicable GOT ··· GOT-A series, GOT-F series *4*5*6*7

	Connected to	Mitsubishi PLC	Other manufacturer's PLC	Microcomputer
	Connected to:	Usable *4*5*6*7	Unusable	Unusable
-			· ·	

Startup and maintenance of motion controller can be performed easily

Motion monitor Servo amplifier monitor

Previously to monitor/modify motion controller, Servo amplifier and parameter values needed a separate PC on-site.

When you use the GOT

•Motion monitor New *3 *8 *9

Q series motion controller can be monitored and parameters can be done easily on the GOT.

•Servo amplifier monitor New *3 *8

Pulse train output of servo amplifiers and parameters can be monitored.

Refer to "FA integration functions" on pages 8 and 9. Refer to "Motion monitor", "Servo amplifier monitor" on page 37 Motion monitor

Servo amplifier monitor

Usable

*8: Applicable GOT ··· GOT-Aseries (only M3 type for the A95□GOT) Only the motion controller (Q series) is supported.

•Applicable GOT ··· GOT-A series *8

Motion monitor

	Connected to:	Mitsubishi PLC	Other manufacturer's PLC	Microcomputer		
	Connected to.	Usable	Unusable	Unusable		
Servo amplifier monitor						
Connected to		Mitsubishi PLC	Other manufacturer's PLC	Microcomputer		

System monitor Special module monitor The machine and line startup operation can be streamlined. **Network monitor**

Improve machine startup and debugging efficiency

When you use the GOT

•System monitor *10

The GOT alone can monitor device values and change current values and timer/counter settings.

•Special module monitor *3*11

The special module operation (buffer memory monitor/change) can be checked easily.

•Network monitor *3*12

The GOT alone can check the network communication status.

*3 : A memory board is necessary

*10 :Applicable GOT ··· GOT-Aseries, GOT-Fseries

*11 :Applicable GOT ··· A985(-V)/A975/A970/A960GOT *12 :Applicable GOT ··· AGOT(only M3 type for the A95 GOT)

•Applicable GOT ··· GOT-A series, GOT-F series *10*11*12

Mitsubishi PLC Other manufacturer's PLC Microcomputer

Refer to "System monitor", "Special module monitor" and

"Network monitor" on pages 34 and 35.

The GOT has many other specifications and functions.

*GOT-A series Generic term for A985(-V), A97 , A960, A956W and A95 GOT GOT-F series Generic term for handy GOT, ET-900, F940, F930 and F920GOT(-K) Abbreviation for GT SoftGOT2

^{*1:} The GOT-F900 series supports direct CPU connection only.

Introduction

We recommend the GOT with confidence

Recommended for the designer

Design time and initial costs can be reduced

Main unit functions

Connection configuration that meets your needs

The GOT can be connected to any device

When a machine is designed, a controller is selected first. If an HMI can only be connected to a limited number of devices, it cannot be used even if it is a good one.

When you use the GOT

The GOT can be connected to the MELSEC or any of the PLCs and microcomputer boards made by other manufacturers.

Applicable GOT ··· GOT-A series, GOT-F series, SoftGOT

Connected to:			
Usable	Usal	ble *1	Usable

Refer to "Various connection configurations" on page 34. *1: The GOT supports 161 protocols of 9 companies.



installation

The function and performance can be upgraded without changing hardware

If the HMI must be replaced whenever new functions are added, costs increase.

When you use the GOT

The function or performance can be upgraded simply by installing the OS with new drawing software without changing the HMI that you purchased. (PC card reduces OS or screen data transfer time.)

•Applicable GOT ··· GOT-A series

Connected to:	Mitsubishi PLC	Other manufacturer's PLC	Microcomputer	
Connected to.	Usable	Usable	Usable	

Refer to "OS Installation" on page 34.



Scripting function

Load on the controller can be reduced

If complicated data is displayed, the HMI control software affects machine control.

When you use the GOT

By executing display related controls on the GOT with the script (GOT-original program similar to C language program), load on the controller (PLC CPU, microcomputer, etc.) can be sharply reduced, improving the controller performance and design efficiency. This function also makes system maintenance easier.

•	Applicable GOT " GOT-A series, SoliGOT						
	Connected to:	Mitsubishi PLC	Other manufacturer's PLC	Microcomputer			
	Connected to:	Usable	Usable	Usable			

Refer to "Script" on page 35.



Development environment

NEW GT Designer 2

Reduction in developing time by half

When a screen is created, the operability of the drawing software greatly influences design time.

When you use the GOT

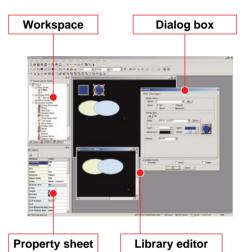
- View screen configuration in tree format on the Workspace.
- Object settings without opening each dialog box on the Property sheet.
- · Batch edit of multiple parts on the Property sheet.
- Easy parts editing on the Library editor.

•Applicable GOT ··· GOT-A series, GOT-F series, SoftGOT

Connected to:	Mitsubishi PLC	Other manufacturer's PLC	Microcompute	
Connected to:	Usable	Usable	Usable	

Refer to "GT Designer 2"*2 on pages 6 and 30.

*2: Screen data created by the conventional drawing software GT Designer can also be used as-is



Simulation debugging

Easy debugging without connecting a PLC

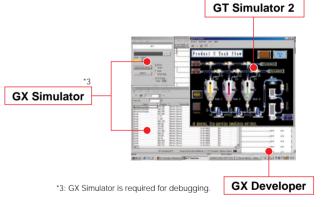
It is inconvenient to connect the GOT with a PLC during debugging.

When you use the GOT

A single personal computer can make drawings and perform debugging with GT Works2.

 Applicable GOT ··· GOT-A series, SoftGOT Mitsubishi PLC Other manufacturer's PLC Microcomputer

	Connected to:	Usable	Unusable	Unusable	
Refer to "GOT Simulation debugging" on pages 31 and 37.					



Data conversion

Existing data can be fully utilized

By enabling existing drawing data to be used, the design time required for drawing can be reduced and work can be streamlined.

When you use the GOT

The data given on the right can be used for the GOT-900 series.

•Applicable GOT ··· GOT-A series, GOT-F series *4, SoftGOT

Connected to:	Mitsubishi PLC	Other manufacturer's PLC	Microcomputer
Connected to.	Usable	Usable	Usable

Refer to "Converter" on page 37.

- Monitor data of FX-PCS-DU/WIN
- •BMP format data
- Monitor data of GP series
- •Monitor data of conventional drawing software (GT Designer) •Monitor data*5 of conventional display (GOT-A800 series/ A77GOT(-S□)/A64GOT/AD57G-S3)
- *4: The GOT F series can use only DU data.
- *5: To upload monitor data from the GOT, the drawing software is necessary. However, note that monitor data cannot be uploded from A77GOT(-S□) (except S5), A64GOT, and AD57G-S3.

The GOT has many other specifications and functions.

*GOT-A series Generic term for A985(-V), A97□, A960, A956W and A95□GOT GOT-F series Generic term for handy GOT, ET-900, F940, F930 and F920GOT(-K) Abbreviation for GT SoftGOT2



Concept

MELSOFT GT SoftGOT2 New

How about using your personal computer as a GOT?

A956WGOT A95□GOT



A985GOT-V A985GOT

P.4~ P.6~ P.8~ P.10~ P.12~ P.16~ P.18~ P.20~ P.22~ P.24~ P.26~ P.28~ P.30~ P.32~

Display colors 256 colors

1280 x 1024 dots (SXGA) 1024 x 768 dots (XGA) 800 x 600 dots (SVGA) 640 x 480 dots (VGA)

Resolution

■GT SoftGOT2 operating environment

GT SoftGOT2 is the HMI software that implements

the GOT functions on a personal computer.

Item		Description				
	Item	When DOS/V person	When PC CPU is used			
Persona	l computer	Personal computer on which Windows® runs		Contec's MELSEC-Q series compatible PC CPU unit *1		
		Microsoft® Windows® 98 operating system	Microsoft® Windows® XP Professional operating system *4*5			
os		Microsoft® Windows® Millennium Edition operating system *2	NEW	WindowsNT® Workstation 4.0 operating system *3		
00		Microsoft® WindowsNT® Workstation 4.0 operating system *3	Microsoft® Windows® XP Home Edition operating system *4*5	Windows® 2000 Professional operating system		
		Microsoft® Windows® 2000 Professional operating system	NEW			
CPU		Pentium 200MHz or higher (Pentium 300MHz or higher recommended)	Pentium 300MHz or higher (Pentium 450MHz or higher recommended)	Pentium 200MHz or higher (Pentium 300MHz or higher recommended)		
	GT SoftGOT2 only	64MB or more (96MB or more recommended)		64MB or more (96MB or more recommended)		
Required	When GX Developer is used		128MB or more (192MB or more recommended)			
memory	simultaneously or when multiple	96MB or more (128MB or more recommended)	120IVID OF THOSE (192IVID OF THOSE RECOMMENDED)	96MB or more (128MB or more recommended)		
	GT SoftGOT2's are started					
Free hard For installation 200MB or more						
disk space	e For operation	100MB or more '6				
Disk driv	re	CD-ROM disk drive	3.5 inch (1.44MB) floppy disk drive, CD-ROM disk drive			
Display	colors	256 colors				
Display		Resolution 800 x 600 dots or more (640 x 480 dots or more when full screen display function is used)				
Require	Required software GT Designer 2 '7 or GT Designer Version 5 (Ver. 5.03D or later)					
Drawing	license key/	A9GTSOFT-LKEY-P *9		SW5D5F-SGLKEY-J (Japanese version)		
license F	D *8	ASSISSI I-EREI-F	SW5D5F-SGLKEY-E (English version)			

- *1: Refer to the MELSEC-O Series Catalog (L(NA)-74108153E) for the PC CPU unit
- *2: The remote device monitor function is not supported by Windows® Millennium Edition.
- *3: Windows NT® Workstation 4.0 of Service Pack 3 or later.
- 4: "Compatibility mode", "User account", and "desktop appearance" functions are not supported. *5: Administrator authorization is necessary to use Windows® XP Professional or Windows® XP Home Edition
- *6: When multiple GT SoftGOT2's are started. "the number of started GT SoftGOT2's x 100" MB is required.
- When the monitor screen data size is large, 200MB or more (30MB or more as a guideline) may be required.
- *7: GT SoftGOT does not support the GT Designer2.
 *8: When GT SoftGOT2 without its license key/license key FD operates for only about 10 minutes *9: To use A9GTSOFT-LKEY-P, the DOS/V personal computer must have a parallel port (Centronics printer connector)

■ Main functions (Refer to GOT dictionary on page 34 and Function list for each model on page 54 for details.)



Remote monitoring

Effective utilization of the Internet by combination with general software

Alarms and on-site status are collected at any time from remote locations (mail function) Alarm occurrence/recovery, alarm history data, recipe data and screen image can be sent by e-mail.

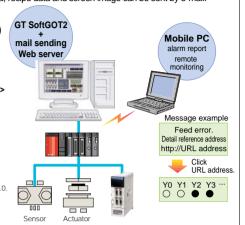
Remote monitoring by the Internet (remote device monitoring function)

The device status being monitored by GT SoftGOT2 can also be monitored on personal computer

<Example of remote monitoring via the Internet>

By installing the remote control software*10 (commercially available) on the host side (production site) and remote side (office) respectively, host side GT SoftGOT2 can be monitored/operated if GT SoftGOT2 is not installed on the remote side.

*10: The remote control software confirmed by Mitsubishi to operate properly is pcAnywhere 10.0. The firewall setting must be changed depending



Reduced design time

Reduced design costs by utilizing screen data

GT SoftGOT2

Design costs can be reduced since the screen data of the production site can be shared on all layers from higher-level personal computers to lower-level GOTs.

Monitoring screens can be created simpler and cheaper

A monitoring operation screen can be created more easily and cheaply on the personal computer than the monitoring software such as SCADA or VisualBasic®.

User friendly applications

The memory capacity of the main unit has been substantially increased New

The memory capacity of the main unit has been substantially increased from 9M bytes to 32M bytes*11 Drawing data using many bit maps can also be displayed.

*11: When the screen data is large (30MB or more), a 200MB or more free hard disk area is required for operation

Easy numeric input and ASCII input

Numeric/ASCII input function entries can be made directly from keyboard.

Full screen display

By hiding the title bar and menu bar, a full screen can be displayed. The menu bar is displayed by rightclicking the mouse

Remote monitoring by intranet LAN

Production site conditions can be

monitored from the office.



When A985GOT screen is displayed on 800 x 600 dots

Supporting panel computer without mouse or keyboard!!

As a small dialog and GOT internal device (GS500.b0 ON) displayed on-screen can be used to close GT SoftGOT2, GT SoftGOT2 can also be used on a panel computer without a mouse or



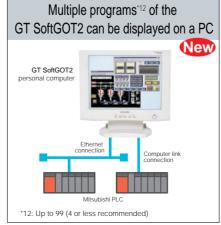
Turn on GOT internal device (GS500 b0) with touch switch to close GT SoftGOT2.

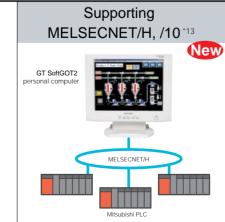
Either dialogs can be selected and displayed.

The dialogs can be used for the following operations. Open: Opens a project

(Cannot be selected while monitoring is executed.) Min: Minimizes GT SoftGOT2 Exit: Close GT SoftGOT2.

SoftGOT is more user-friendly





Devices that can be connected:

- Mitsubishi PLC, Mitsubishi A series motion controller*13. CPU direct connection, Ethernet connection, MELSEC/10(H) connection, computer link connection, Q bus connection*14
- list on page 56).
- *14: Q bus connection is enabled only when the PC CPU unit is connected.

Notes

Unavailable functions			
Function division	Function name		
Object function	Test function, barcode function, operation panel function *15		
Extended function	System monitor function*16		
Optional	Ladder monitor function*16, special module monitor function,		
function	list edition function*16, network monitor function*16,		
	motion monitor function, servo amplifier monitor function		
Other function	Transparent function, human sensor function, brightness		
	adjustment function, audio function*17, gateway function		
*15: Using the keyboard input function, an equivalent function is enabled			

- *16: Using GT SoftGOT2 and GX Developer on the same personal
- *17: Unavailable only when GT SoftGOT2 is used on the PC CPU unit.
- Refer to page 59 when purchasing the product.

Product

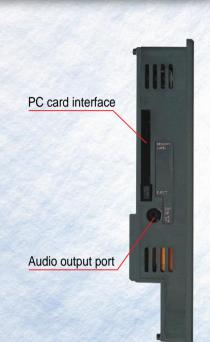
overview



A985GOT-V

Large size (12") A985GOT-V

Leave screen integration to this GOT! Animation capture in 65,000 colors





Human sensor

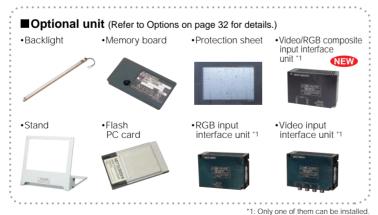
Display device TFT display

Intensity 350cd/m² Display colors 256 colors

Resolution 800x600 dots Printer interface **Built-in**

Barcode reader interface Built-in (RS-232C)

■Communication unit Serial communication hoard CC-Link Ethernet for CPU direct connection/ connection connection communication microcomputer/computer unit NEW •MELSECNET/10 •MELSECNET(II)/B data link unit



■ Main functions (Refer to GOT dictionary on page 34 and Function list for each model on page 54 for details.)

















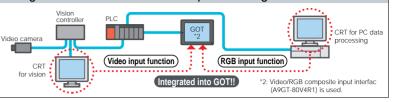




Video/RGB screen display supported by one GOT!

Vision CRT and personal computer CRT can be integrated into GOT to achieve space saving and cost reduction

- •When using the video input function, either video/RGB composite input interface unit (A9GT-80V4R1) or video input interface unit (A9GT-80V4) should be mounted on the A985GOT-V.
- •For RGB function, either video/RGB composite input interface unit (A9GT-80V4R1) or RGB input interface unit (A9GT-80R1) should be mounted on the A985GOT-V.

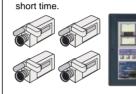


Video input function

Full screen display

Up to 4 video windows can be displayed at the same time.

- •Up to 4 video cameras can be connected and shot images can be displayed simultaneously
- · Viewing images simultaneously, you can grasp the conditions of the whole system in a short time





Partial display in clip mode You can display a selected part of

an image you want to see.

·By displaying a portion of the image, this function is useful when the display area is small.





Only one video window can be displayed in the clip mode

720 x 480 dot wide images can be displayed

- •The video window display size can be varied in three steps as required.
- •720 x 480 or 640 x 480 dot wide images can be displayed at 100%, 50% or 25% size.

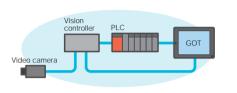
*720 x 480 dots and 640 x 480 dots cannot be used at the 640 x 480 dots 320 x 240 dots 100% display



Hidden object can be displayed in transparent mode You can specify a transparent color to display the object or figure under a video window.

 You can use the touch switch or numeric/ASCII input function under the video window.





Video image can be paused in freeze mode

Video image can be paused to display a still image

- •This function is useful when checking the situation at the instant when a problem occurs.
- *When several video windows are displayed, the images

Images are saved as JPEG format Images can be saved on a PC card

- ·This function, for example, is useful for checking the immediate condition of production equipment
- Since the memory size necessary for saving a file on a PC card in this format is smaller than the BMP format, more images can be saved on the PC card.

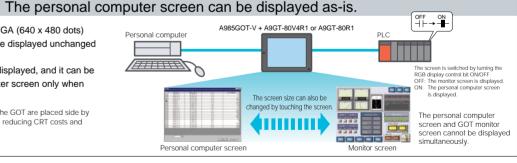
as the JPEG format.

JPEG format: Approx. 90K bytes, BMP format: Approx. 900K bytes (The compression ratio depends on the image.)

RGB input function

•The SVGA (800 x 600 dots) or VGA (640 x 480 dots) personal computer screen can be displayed unchanged

- •The monitor screen is normally displayed, and it can be switched to the personal computer screen only when
- *When the personal computer CRT and the GOT are placed side by side, the GOT screen can act as a CRT, reducing CRT costs and



Model	Power supply	100~240VAC	A985GOT-TBA-V		
name	voltage	24VDC	A985GOT-TBD-V		
Display device			TFT color display		
Display (colors		256 colors (screen display: 65,536 colors)		
Intensity	(cd/m ²)		350 (8-step intensity adjustment)		
Display a	angle		Right and left: 60 degrees, up: 40 degrees, down: 50 degrees		
Resoluti	on (dot)		800 x 600		
Number of touch key			1900 (38 lines x 50 columns)		
User me	User memory capacity		1MB (Up to 9MB)		
External	dimension	s (mm)	312W x 238H x 49D		
Panel wi	Panel width (mm)		43		
Panel cu	Panel cut dimensions (mm)		302 ⁺¹ ₀ W x 228 ⁺¹ ₀ H		
Regulati	on	UL/cUL	0		
compliar	nce	CE	X		

Notes on the Video/RGB input function

- •The A985GOT-V does not have the CRT output interface
- •A985GOT does not support the external input/output unit (A9GT-70KBF).
- •Though the video/RGB composite input interface unit (A9GT-80V4R1) can be used for the video input function and RGB input function, it cannot display a video camera image and personal computer screen on the GOT simultaneously.

P.6~ P.8~ P.10~ P.12~ P.16~ P.18~ P.20~ P.22~ P.24~ P.26~ P.28~ P.30~ P.32~

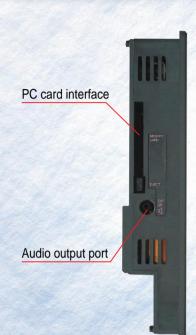
SoftGOT2

A985GOT-V A985GOT

A985GOT

Large size (12") **A985GOT**

12" compact size! Best-selling energy saving HMI





Human sensor

Display device TFT display

Intensity 350cd/m²

•CC-Link

unit

connection

Display colors Resolution 256 colors 800x600 dots

Analog RGB output interface **Built-in**

Built-in

Printer interface Barcode reader interface Built-in (RS-232C)

■Communication unit

connection

•Bus

 Serial communication hoard. microcomputer/computer

•MELSECNET/10





•MELSECNET(II)/B



■ Optional unit (Refer to Options on page 32 for details.) Memory board Protection sheet

Stand



input/output interface unit

■ Main functions (Refer to GOT dictionary on page 34 and Function list for each model on page 54 for details.)



















Human sensor incorporated

Energy conservation with the GOT

•The industry's first human sensor is turned on when a person approaches it. When the interface is not used, turning the backlight of increases its life, achieving both energy saving and running cost reduction.

(Assuming that the actual work time is 0.5 hours/day for error detection display

Recommended points

Analog RGB output interface incorporated An 12" GOT image screen can be

displayed on a larger CRT screen.



Compact size

Compact size control panel

·Industry's smallest and thinnest.



User-friendly, multi-media functions Multimedia

256 colors display

Multi-color vivid display

- •The high-intensity (350 cd/m²) TFT display can show 256-color vivid and high-quality images.
- •256-color bitmap (BMP) file data can be read and digital photographs of machines and parts can be displayed clearly.

Audio output

The machine operating status is vocally reported

- ·Messages and warnings can also be vocally output, so information can be provided audibly
- ·An audio message can be created easil by using a Windows® WAV file.



Product overview

Maintenance function

Improved maintainability and reduced running costs

Improved maintainability and reduced running costs

- •The GOT has various maintenance functions to troubleshoot and maintain the FA system and streamline maintenance work.
- •When the system is connected to a network, all the maintenance functions can be performed on remote terminals from the GOT. (The GOT can perform remote maintenance.

Motion monitor function New

•Q series motion controller monitoring and parameter settings can be done easily on the GOT. (Refer to Special report 2 on page 8



Servo amplifier monitor function New

· Pulse train output of servo amplifiers and parameters can be monitored. (Refer to Special report 2 on page 8 for details.)

* When the servo amplifier monitor function is used, barcode function and transparent function are not available



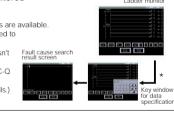
Ladder monitor function

•The PLC CPU program can be monitored in ladder format

1: The search and comment display functions are available 2: The fault cause search function can be used to

(MELSEC-QnA series ladder monitor doesn't 3. Touch search is also available for MELSEC-Q

(Refer to Special report 2 on page 8 for details.) The figures show the GOT-A975 screen ima



The following functions are also available

■List program edit function (For MELSEC-A series)

Read/write of Instruction list programs can be done easily on a production site.

■Special module monitor function The special module operation (buffer memory monitor/change) can be checked easily

■System monitor function The GOT alone can monitor device values of PLC CPU and monitor/change current values of buffer memory at the special module.

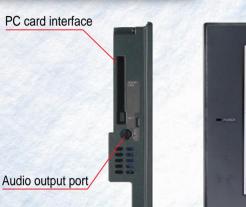
■Network monitor function The GOT alone can check the network communication status of MELSECNET/10, (II), or /B

Model	Power supply	100~240VAC	A985GOT-TBA	A985GOT-TBA-EU	
name	voltage	24VDC	A985GOT-TBD	1	
Display of	device		TFT color	display	
Display of	colors		256 colors		
Intensity	(cd/m ²)		350 (8-step intensity adjustment)		
Display a	angle		Right and left: 60 degrees, up: 40 degrees, down: 50 degrees		
Resolution	on (dot)		800 x 600		
Number	of touch key		1900 (38 lines :	x 50 columns)	
	mory capacity		1MB (Up to 9MB)		
External	dimensions (mr	m)	312W x 238H x 49D		
Panel wi	dth (mm)		43		
Panel cu	it dimensions (m	nm)	302 ⁺¹ ₀ W x 228 ⁺¹ ₀ H		
Regulation	on	UL/cUL	0	0	
complian	nce	CE	X	0	

A975GOT

Large size (10") **A975GOT**

Slim body full of advanced functions





Display device TFT display Intensity 350cd/m²

Display colors 256 colors

Resolution 640x480dots Printer interface

Built-in Barcode reader interface Built-in (RS-232C)

256 colors display

Multi-color vivid display

- •The high-intensity (350 cd/m²) TFT display can show 256-color vivid and high-quality
- •256-color bitmap (BMP) file data can be read and digital photographs of machines and parts can be displayed clearly.

Quick response

Stressless display and operation

- Quick response is realized by bus connection or CPU direct connection.
- · Since touch switches, like pushbuttons, can make a quick response, they can be used for inching operation.
- •The screens are changed so quickly that it is not irritating during operation.

Compact size

Compact size control panel

 Industry's smallest and thinnest (See the table on page 23 for details.)



Maintenance functions

Improved maintainability and reduced running costs

- •The GOT has various maintenance functions to troubleshoot and maintain the FA system and streamline maintenance work.
- I adder monitor Network monitor function (Fault cause search / Touch Motion monitor function NEW
- search (NEW) function Servo amplifier monito ■List program edit function function NEW

■System monitor function

■Special module monitor function

The data transfer sequence program is no longer necessary. Up to 256 types can be set and the number of words that can be registered is 8K (words/type).

Audio output

Recipe function

Initial values, including machine

The initial values, such as material blending and

operation, conditions can be easily changed.

working conditions, can be easily set

processing conditions, can be saved in the GOT memory

or on a PC card and can be transferred to a PLC by one

The machine operating status is

 Messages and warnings can also be vocally output, so information can be provided audibly. ·An audio message can be created easily by using a Windows® WAV file.

vocally reported

Graphic Operation Termina series

A970GOT

PC card interface Audio output port

Large size (10") **A970GOT**

Many standard features





Barcode reader interface Built-in (RS-232C)

Display device

TFT display

Intensity

350cd/m²

Display colors 16 colors

Resolution

640x480dots

Printer interface

Built-in

16 colors with high intensity

High-intensity and easy-to-see screen display is provided

•The high-intensity (350cd/m²) TFT display provides clear 16-color display.

Quick response

Stressless display and operation

- Quick response is realized by bus connection or CPU direct connection.
- ·Since touch switches, like pushbuttons, can make a quick response, they can be used for inching operation.
- The screens are changed so quickly that it is not irritating during operation.

supply

Display angle (contrast ratio)

Model

name

Display device

Display colors

Intensity (cd/m²)

Resolution (dot)

Number of touch key

User memory capacity

External dimensions (mm) Panel width (mm)

Compact size

Compact size control panel

· Industry's smallest and thinnest (See the table below for details)



Maintenance functions

Improved maintainability and reduced running costs

- •The GOT has various maintenance functions to troubleshoot and maintain the FA system and streamline maintenance work.
- I adder monitor Network monitor function (Fault cause search / Touch ■ Motion monitor function NEW search (NEW) function Servo amplifier monitor
- ■List program edit function function NEW ■System monitor function ■Special module monitor function

A975GOT-TBA-B

A975GOT-TBD-B

Recipe function

Initial values, including machine working conditions, can be easily set

- The initial values, such as material blending and processing conditions, can be saved in the GOT memory or on a PC card and can be transferred to a PLC by one operation, conditions can be easily changed.
- The data transfer sequence program is no longer necessary. •Up to 256 types can be set and the number of words that can be registered is 8K (words/type)

Audio output

The machine operating status is vocally reported

A970GOT-TBA-B

A970GOT-TBD-B

· Messages and warnings can also be vocally output, so information can be provided audibly. ·An audio message can be created easily by using a Windows® WAV file.

16 colors

■Communication unit

connection

 Serial communication board for CPU direct connection/ microcomputer/computer

















■ Main functions (Refer to GOT dictionary on page 34 and Function list for each model on page 54 for details.)























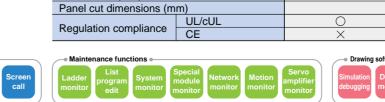






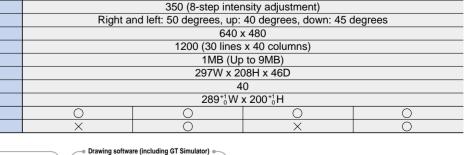






100~240VAC

24VDC



TFT color display

A975GOT-TBA-EU

256 colors

22

Product overview

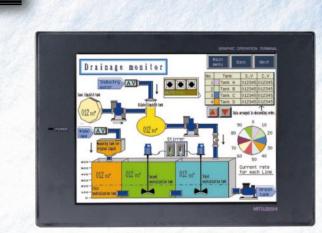
A970GOT

PC card interface

Audio output port

Large size (10") **A970GOT**

Many standard features



Display device **D-STN** display

> Intensity 200cd/m²

Display colors 8 colors/ Monochrome (black and white)

Resolution 640x480dots

Printer interface Built-in

Barcode reader interface Built-in (RS-232C)

Recipe function

Initial values, including machine

The initial values, such as material blending and

operation, conditions can be easily changed.

working conditions, can be easily set

processing conditions, can be saved in the GOT memory

or on a PC card and can be transferred to a PLC by one

The data transfer sequence program is no longer necessary.

STN display

Quick response

Since touch switches, like pushbuttons, can

make a quick response, they can be used

Stressless display and operation

connection or CPU direct connection.

Quick response is realized by bus

Clear screen displays are provided

•8-color and monochrome (white/black) models are available.



Compact size Compact size control panel

Industry's smallest

and thinnest.(See the table on page 25 for details.)



Improved maintainability and reduced

- •The GOT has various maintenance functions to troubleshoot and maintain the FA system and streamline maintenance work.
- I adder monitor
- search (NEW) function Servo amplifier monito
- ■List program edit function ■System monitor function
- ■Special module monitor function

Maintenance functions

running costs

- Network monitor function (Fault cause search / Touch ■ Motion monitor function NEW
- function NEW

•Up to 256 types can be set and the number of words that can be registered is 8K (words/type).

Audio output

The machine operating status is vocally reported

· Messages and warnings can also be vocally output, so information can be provided audibly. ·An audio message can be created easily by using a Windows® WAV file.

Graphic Operation Termina series

A960GOT

PC card interface

Audio output port

Henu Back Next Temperature Amount Cylinder 1 Cylinder 2 Fwd Rev Fwd Rev Operate Cond.1 Cond.2 Teap. Check Jaconese

Large size (9") **A960GOT**

Inexpensive model



Display device High-intensity EL

Display colors Monochrome (black/yellowish orange)

Resolution 640x400dots

Printer interface **Built-in**

Barcode reader interface Built-in (RS-232C)

High-intensity EL display

Clear screen displays are provided at a reasonable price

·Monochrome (black/yellowish orange or black/white).

Quick response

Stressless display and operation

- ·Quick response is realized by bus connection or CPU direct connection.
- Since touch switches, like pushbuttons, can make a quick response, they can be used for inching operation.
- ·The screens are changed so quickly that it is not irritating during operation.

supply name voltage

Model

Display device

Display colors

Intensity (cd/m²) Display angle

Resolution (dot)

Regulation

Number of touch key

User memory capacity

External dimensions (mm) Panel width (mm)

Panel cut dimensions (mm)

Industry's smallest

Compact size control panel

and thinnest.(See the table below for details)

Compact size

Maintenance functions

Improved maintainability and reduced running costs

- •The GOT has various maintenance functions to troubleshoot and maintain the FA system and streamline maintenance work.
- I adder monitor Network monitor function (Fault cause search / Touch ■ Motion monitor function NEW

D-STN color display

search (NEW) function Servo amplifier monitor ■List program edit function ■System monitor function

function NEW ■Special module monitor function

A970GOT-LBD

A970GOT-SBA A970GOT-SBA-EU A970GOT-LBA A970GOT-LBA-EU A960GOT-EBA A960GOT-EBA-EU

D-STN monochrome display

Monochrome (black and white)

1MB (Up to 9MB)

Recipe function

Initial values, including machine working conditions, can be easily set

- •The initial values, such as material blending and processing conditions, can be saved in the GOT memory or on a PC card and can be transferred to a PLC by one operation, conditions can be easily changed.
- The data transfer sequence program is no longer necessary. •Up to 256 types can be set and the number of words that can be registered is 8K (words/type)

Audio output

The machine operating status is vocally reported

· Messages and warnings can also be vocally output, so information can be provided audibly. ·An audio message can be created easily by using a Windows® WAV file.

A960GOT-EBD

High-intensity EL

640 x 400

1000 (25 lines x 40 columns)

268W x 192H x 49D

258⁺¹₀W x 183⁺¹₀H

Monochrome (black and yellowish orange)

■Communication unit

for inching operation.

during operation.

The screens are changed so

quickly that it is not irritating

connection

connection unit

•Bus

 Serial communication board for CPU direct connection/ microcomputer/computer











data link unit









■ Main functions (Refer to GOT dictionary on page 34 and Function list for each model on page 54 for details.)































compliance CE

UL/cUL

100~240VAC

24VDC



Right and left: 50 degrees, up: 45 degrees, down: 30 degrees

640 x 480

1200 (30 lines x 40 columns)

297W x 208H x 46D

289⁺¹₀W x 200⁺¹₀H

24

25

Product overview

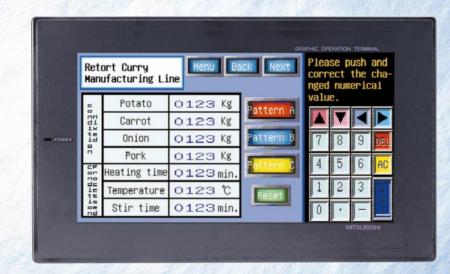
Product overview

A956WGOT

Medium size (7") **A956WGOT**

The industry's first wide and convenient HMI





Display device TFT display

Intensity 300cd/m² Display colors 256 colors

Resolution

Barcode reader interface 480x234 dots Built-in (RS-232C)

Compact flash

PC card *1

■Communication unit



•MELSECNET/10











■ Optional unit (Refer to Options on page 32 for details.)



External

input/output interface unit *2









When using the compact flash PC card, the PC card interface unit cannot be used.

■ Main functions (Refer to GOT dictionary on page 34 and Function list for each model on page 54 for details.)









Main features

1.5 times larger than the 6" display!

The industry's first wide 7" display

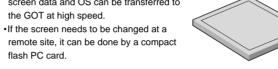
 Higher resolution (480 x 234 dots) compared with the 6" display



Compact flash PC card interface as standard

Commercially available compact flash PC cards can be used

•When a compact flash PC card is used, screen data and OS can be transferred to the GOT at high speed.



Effective use of the screen

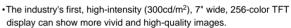
Utilization of extra space on the 6" control panel

•Since the A956W is a wide type, 6" screen leaves an extra space on either side. Numeric and ASCII keys can be created on the extra space as a fixed screen, therefore window screens and external I/O are not needed. (Numeric and ASCII keys are registered in a template.)



High-intensity 256 colors display

Small but vivid display



·256-color bitmap (BMP) file data and digital photos such as machine parts can be displayed.

Maintenance function Improved maintainability and reduced running costs

Improved maintainability and reduced running costs

•The GOT has various maintenance functions to troubleshoot and maintain the FA system and streamline maintenance work.

•When the system is connected to a network, all the maintenance functions can be performed on remote terminals from the GOT. (The GOT can perform remote maintenance.

Motion monitor function New

 Q series motion controller monitoring and parameter settings can be done easily on the GOT.

(Refer to Special report 2 on page 8 for details.)



Servo amplifier monitor function New

· Pulse train output of servo amplifiers and parameters can be monitored. (Refer to Special report 2 on page 8 for details.)

When the servo amplifier monitor function is used, barcode function and transparent function are not available



Ladder monitor function

•The QCPU (Q mode) program can be monitored in ladder format.*3

1: The search and comment display functions

are available.

2: The fault cause search function can be used to investigate the cause of trouble easily. (Unavailable for QnA ladder monitor.)

8. Touch search is also available. NEW (Refer to Special report 2 on page 8 for



The following functions are also available

■List program edit function (For MELSEC-A series) Read/write of list programs can be done easily on a production site.

■System monitor function

The GOT alone can monitor device values of PLC CPU and monitor/change current values of buffer memory at the special module

■Network monitor function

The GOT alone can check the network communication status of MELSECNET/10, (II), or /B.

Model name Power supply voltage 24VDC		A956WGOT-TBD	
Display device		TFT color display	
Display colors		256 colors	
Intensity (cd/m²)		300 (8-step intensity adjustment)	
Display angle		Right and left: 65 degrees, up: 40 degrees, down: 65 degrees	
Resolution (dot)		480 x 234	
Number of touch key		450 (15 lines x 30 columns)	
User memory capacity		1MB (Up to 9MB)	
External dimensions (mm)		215W x 133H x 70.8D	
Panel width (mm)		65.8	
Panel cut dimensions (mm)		205.5 ⁺¹ ₀ W x 123.5 ⁺¹ ₀ H	
Regulation compliance	UL/cUL	O	
	CF		

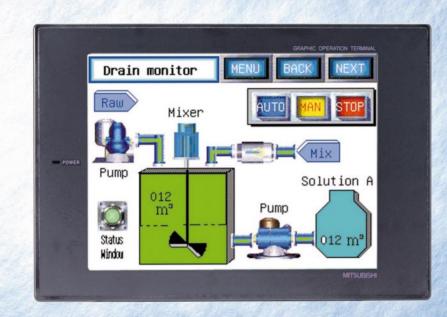
Concept

A95□GOT

Medium size (6") **A95 GOT**

6" high-function type supporting various connection methods





Display device TFT/STN display

Intensity 350cd/m² 110cd/m² 200cd/m² Display colors 256 colors 8 colors monochrome

Resolution 320x240 dots

Barcode reader interface Built-in (RS-232C)







■Communication unit

connection











■ Main functions (Refer to GOT dictionary on page 34 and Function list for each model on page 54 for details.)

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Main features of A95 GOT series

Various connection configurations!

Supports various connection configurations! •The A950/A951/A953GOT contains a communication interface for each model,

- is not necessary to install any communication board or unit on the GOT. •The A956GOT can be connected to a bus, MELSECNET, or CC-Link by
- installing a communication unit.
- •The A950/A953GOT can be connected with a PLC or microcomputer provided by other manufacturers.

Differentiation between A95 GOT model names

Communication interface type		naoc type	Enabled Connection Configurations	
Built-in	0	RS-422	CPU direct connection, computer link connection, CC-Link connection (via G4)	
communication			microcomputer connection, other manufacturer's PLC connection	
interface type	1	Bus	Bus connection	
	3	RS-232C	CPU direct connection, computer link connection,	
			microcomputer connection, other manufacturer's PLC connectio	
Installed	6	Bus	Bus connection	
communication		Network	MELSECNET/10 connection, MELSECNET(II)/B connection	
interface type			CC-Link connection, Ethernet connection	
t7. Comments double CO Units systems of A MEDT CA CO				

*7: Connected with CC-Link system via AJ65BT-G4-S3.

Quick response

Stressless display and operation

- Quick response is realized by bus connection or CPU direct connection.
- ·Since touch switches, like pushbuttons, can make a quick response, they can be used for inching operation.
- •The screens are changed so quickly that it is not irritating during operation.

Choices of display colors

Display colors: 2 colors (STN white/black), 8 colors (STN colors), 256 colors (TFT colors)

Supports full graphics

·Figures or objects, such as ovals and arcs, can be displayed in the same way as on a large HMI.

Model: A95□GOT-(Q)TBD-□

Extremely vivid and clear!

Though medium-sized, these models support 256 TFT colors

- •The high-intensity (350 cd/m², 8-level intensity adjustment) TFT display can show 256-color, clear, high-quality images.
- •256-color bitmap (BMP) file data and digital photos such as machine parts can be displayed.

Backlight replacement is rarely required!

A maintenance-free system can be implemented easily

The TFT type has a long-life backlight that lasts 50,000 hours, so the backlight need not be replaced for more than 10 years (Actual work time 12 hours/day, 300 days/year). The service life can be extended further by the backlight off function.

More functions Model: A95 GOT- -- M3

Functions useful for equipment or machine startup and maintenance are available

Motion monitor function NEW

 Q series motion controller monitoring and parameter settings can be done easily on the GOT. (Refer to Special report 2 on page 8 for details.)

Servo amplifier monitor function

· Pulse train output of servo amplifiers and parameters can be monitored. (Refer to Special report 2 on page 8 for details.)

* The servo amplifier monitor function cannot be used with barcode function and transparent function

List program edit (For the MELSEC-A series)

•Read/write of list programs (instruction word) format can be done easily on a production site.

Network monitor

•The alone can check the network communication status of MELSECNET/10, (II), or /B.

Recipe function

- Initial values, including machine working conditions, can be easily set. The settings of different patterns can be saved in the GOT internal memory,
- and only necessary data can be transferred to a PC card or a PLC, resulting in easy trigger changing.
- The data transfer sequence program is no longer necessary.
- •Up to 256 recipes can be set and the number of words that can be registered is 8,000words/recipe.

■ A95□GOT

		10p (11 1 coloi)	A930GOT-TDD (-IVI3)	A931GUT-QTDD (-W3)	A951GU1-1DD (-W3)	A953GUT-TDD (-WS)	A950GU1-16D (-W3)							
Model name		Middle (STN color)	A950GOT-SBD (-M3)	A951GOT-QSBD (-M3)	A951GOT-SBD (-M3)	A953GOT-SBD (-M3)	A956GOTSBD (-M3)							
		Bottom (STN monochrome)	A950GOT-LBD (-M3)	A951GOT-QLBD (-M3)	A951GOT-LBD (-M3)	A953GOT-LBD (-M3)	A956GOT-LBD (-M3)							
Connection c	onfigura	tion	RS-422	RS-422 Bus (Q series: Q mode) *8 Bus (QnA, A series, motion) *8 RS-232C Communication unit interface										
Display device	e	Top/middle/bottom		TFT color display / S	TN color display / STN	monochrome display								
Display colors	S	Top/middle/bottom	256 colors / 8 colors/monochrome											
Intensity (cd/i	m ²)	Top/middle/bottom	350 (8-step intensity adjustable) / 110 / 200											
Display angle)	Top/middle/bottom	Right and left: 65 degrees, up: 65	Right and left: 65 degrees, up: 65 degrees, down: 40 degrees / right and left: 50 degrees, up: 45 degrees, down: 60 degrees / right and left, down: 30 degrees, up: 20 degrees										
Power supply	/ voltage		24VDC											
Resolution (d	lot)		320 x 240											
Number of to	uch key		300 (15 lines x 20 columns)											
User memory	/ capacit	у	M3 type: 3MB / others: 1MB											
External dimensi	ions (mm)	Top/middle, bottom	164.5W x 136H x 65D / 164.5W x 136H x 57D											
Panel width (mm)		156⁺³W x 123.5⁺³H											
Panel cut dimensi	ions (mm)	Top/middle, bottom	59 / 51											
	UL/cUl				0									
Reguraltion		Тор	X	X	X	X	×							
Compliance	CE	middle	0	X	0	0	0							
		bottom	0	X	0	0	0							
						·								

*** For a single unit or the last one of several units for bus connection. Use the A956GOT-(Q)-TBD(-M3) to connect multiple units.

*9: The communication unit interface supports bus connection (several units), MELSECNET connection, CC-Link connection and Ethernet connection

Product overview





Supporting design tasks ranging from GOT screen creation to debugging





Integrated screen de velopment software

GT Works2 NEW

GT Works2 is an integrated screen drawing software package containing GOT-900 series drawing software, GT Designer2, GOT simulation software, and GT Simulator2. The requirements, such as drawing time reduction

and development efficiency improvement, can be satisfied by integrating the reinforced drawing environment for GT Designer2 and the ultimate debugging environment for GT Simulator2.

GOT simulation software

GT Simulator2 NEW

The GOT-A900 series screen can be simulated on a personal computer to debug the screen. If the screen needs to be modified as a result of debugging, it can be done with GT Designer2 and the result can be checked with GT Simulator2 immediately, so debugging time can be reduced drastically.

Main features of GT Designer2

GOT-A900 and GOT-F900 series.

1. Reduction in screen drawing time by half

GOT drawing software

GT Designer 2 NEW

GT Designer is a drawing software package for all

GOT900 series, and can be used for drawing with the

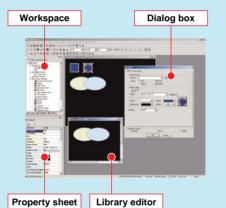
•GT Designer2 cuts drawing time approximately by half compared to that of GT Designer by using new functions, Workspace, Property sheet and etc. The number of mouse clicks has also reduced.

2. Windows® standard operability and menu configuration

•GT Designer2 offers high-performance operability including easy menu configuration, multi language support, and more intuitive operator control.

3. Data compatibility with GT Designer

- •Screen data created on GT Designer can be used on GT Designer2 so that the resources can be fully utilized.
- * The monitor data created by GT Designer2 cannot be used on the conventional product (GT Designer).



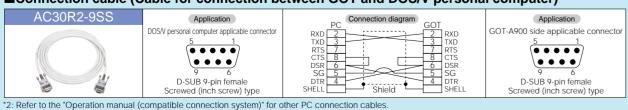
■GT SoftGOT2 operating environment

Ite	m	Desci	ription						
Personal comp	uter	Personal computer on which Windows® runs							
OS		Microsoft® Windows® 98 operating system	Microsoft® Windows® XP Professional operating system *1						
		Microsoft® Windows® Millennium Edition operating system	NEW						
		Microsoft® WindowsNT® Workstation 4.0 operating system	Microsoft® Windows® XP Home Edition operating system *1						
		Microsoft® Windows® 2000 Professional operating system	NEW						
CPU		Pentium 200MHz or higher							
Required memo	ory	64MB or more	Pentium 300MHz or higher						
Free hard	For installation	250MB or more	128MB or more						
disk space	For operation	50MB or more							
Disk drive		CD-ROM disk drive							
Display colors		256 colors							
Display		Resolution 800 x 600 dots or more							
Others		Internet Explorer Ver. 5.0 or later must be installed.							

A985GOT-V

A985GOT

*1: Compatibility, user account, and desktop appearance functions are not supported. ■Connection cable (Cable for connection between GOT and DOS/V personal computer)¹²



Refer to page 59 for purchasing the GT Designer2.

Main features of GT Simulator2

1. Debugging similar to the actual image can be performed on a personal computer

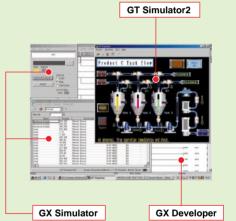
- •Device value changes are displayed during simulation of a created sequence program with GT Simulator2 and GX Simulator (ladder logic test tool).
- •The device value change function of GT Simulator2 can be used to change device values forcibly and check screen display changes

2. Touch switch input simulation with a mouse

- •The input to a touch switch is simulated by clicking on the touch switch on GT Simulator2 with the mouse
- •The result of input to the touch switch can be confirmed by a display change on GT Simulator2, the device monitor screen on GX Simulator, or the ladder monitor of GX Developer.

3. Manual document and application requirement with screen image shots

- •Using GT Simulator2, base and window screens can be saved as a bitmap format. This helps finish the complete operation manuals in short time
- •GT Simulator2 allows users to monitor images just as they appear in the software. This incorporates users application requirements in the debugging of drawing development and reduces editing time later.



	Item	Desci	ription								
Personal (computer	Personal computer on which Windows® runs									
DS .		Microsoft® Windows® 98 operating system	Microsoft® Windows® XP Professional operating system*4*5								
		Microsoft® Windows® Millennium Edition operating system	NEW								
		Microsoft® WindowsNT® Workstation 4.0 operating system *2	Microsoft® Windows® XP Home Edition operating system*4*5								
		Microsoft® Windows® 2000 Professional operating system	NEW								
CPU		Pentium 200MHz or higher (Pentium 300MHz or higher recommended)	Pentium 300MHz or higher (Pentium 450MHz or higher recommended								
Required	GT Simulator2 only	64MB or more (96MB or more recommended)	128MB or more (192MB or more recommended)								
nemory	GT Simulator2+GX Developer+GX Simulator	96MB or more (128MB or more recommended)									
ree hard	For installation	200MB or more									
lisk space*1	For operation	100MB or more									
Disk drive		CD-ROM disk drive									
Display co	olors	256 colors									
Display		Resolution 800 x 600 dots or more									
	Required	GT Designer2*3 or GT Designer									
	When GX Simulator is used	•GX Simulator of the following version is required depending on CPU.									
able		When QCPU (A mode), ACPU or motion controller CPU (A series) is simulated SW5D5C-LLT Version A or later									
		When QCPU (Q mode) (except Q00J/Q00/Q01CPU), QnACPU or FXCP When Q00J/Q00/Q01CPU is simulated	U is simulated SW5D5C-LLT Version E or later SW6D5C-LLT Version A or later								
		When Q12PHCPU or Q25PHCPU is simulated When Q12PHCPU or Q25PHCPU is simulated	SW6D5C-LLT Version A or later SW6D5C-LLT Version L or later								
			<u> </u>								
	When MELSEC PLC is used	•The following converter or cable is required to connect GT Sim	ulator2 and MELSEC PLC.								
		PLC CPU port Converter/cable FX/A/QnA series RS422 RS-422/RS-232C or									
		Q series RS232 QC30R2	Diverter 6								
Note											
Note		The following GOT functions cannot be simulated. [Print functions (report, hard cop system monitor function, special module monitor function, network monitor function									
F. 4 6											
		is used with the GX Developer or GX Simulator. *3: Use GT Designer2 in ear and the GX Simulator, refer to the Operating *4: Compatibility, user as	count, and desktop appearance functions are not supported.								
	(startup/introductory) of GX Developer a		ation is required to use Windows® XP Professional or Windows® XP Home Edition								

Refer to page 59 for purchasing the GT Simulator2.

Options

Various options increase your satisfaction!

Video/RGB composi	te input interface unit (A9GT-80V4R1) New			pplicab			
ARGT-GOVERS	Used to input Video or RGB signals to the GOT. These two inputs cannot be displayed at the same time. •Video input function: Supports up to 4 channels. •RGB input function: Supports 1 channel (SVGA, VGA).	A985(-V) *1	A975	A970	A960	A956W	A9:
/ideo input interface	·						
ASCI ASIA THE CANON THE CANON	Used to display Video images on the GOT. Supports up to 4 channels. *1: A985-V only	*1					
RGB input interface	unit (A9GT-80R1)						
MOCH SUSTI	Used to display RGB signal on the GOT. Supports VGA and SVGA. *1: A985-V only	*1					
rinter interface unit	(A9GT-50PRF)						
NOT-SORB THE SOLUTION OF THE	Used to connect a printer with the A956W/A95□GOT. Supports the Centronics parallel interface (20 pins, half pitch). Functions that require the Printer interface unit are as follows: •Alarm history print •Daily/monthly report output (form print) •Display screen color hardcopy •Bitmap data output to PC card (snap shot) *See MELFANSweb home page at http://www.MitsubishiElectric.co.jp/melfansweb for available printers.	*2	*2	*2	*2	•	
external input/outpu							
ASOT- FOR EST CAMPAGE AS A SOT CAMPAGE A	Used to perform input/output of the GOT or to operate it with a keyboard. The keyboard can be created by the customer.	*3	•	•	•	•	
C card interface un	it (A1SD59J-MIF) *For SRAM PC card only						
	Used to connect a PC card with the A95□GOT. Functions that require the PC card interface unit are as follows: •OS installation or screen data transfer using PC card •Alarm history (when history data is saved) •Screen hardcopy (when "PC card" is specified as output destination) •Recipe (when "PC card is used" is specified)					*4	•
	*The PC card interface unit can use only an SRAM PC card. *Cable between GOT and PC card interface: A85GT-C05H (50cm) (Optional.)						



GT

A956WGOT A95□GOT

GOT

GOT Dictionary

GT

recommended points SoftGOT2

Advanced features increase your satisfaction!

Features / hardware

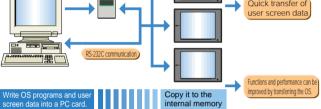
Lineup

Concept

OS/screen data transfer to PC card n addition to data transfer using RS-232C communication, a PC card

(Flash PC card or SRAM card) can be used to replace screen data and OS programs, reducing data transferring time greatly. This allows users to edit or replace data without having personal computers and cables connected to the GOTs. The PC card interface unit is required for the A95 GOT.) •Download screen data into a PC card on a personal computer, and transfer screen data quickly to the GOT by inserting the PC card into it. •Download OS programs Including basic OS, communication drives, expanded

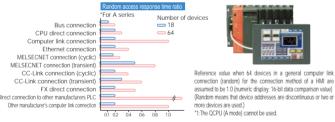
OS, etc. to PC card. This enables quick data transferring of different settings. (OS programs and screen data can be saved on a single PC card.) SRAM card or Flash PC car Ouick transfer of



Bus connection/CPU direct connection/computer link connection/ Ethernet connection/MELSECNET connection/CC-Link connection

The GOT supports high-speed display and quick response for inching, which is indispensable for control panel operation.

- The fastest bus connections with MELSEC-O/OnA/A PLCs.*1 The Q series connects up to 5 GOTs, and the QnA/A series, up to 3 GOTs. Also, high performance maintained even when the maximum number of GOTs are connected.
- •Quick response with MELSECNET cyclic as same as bus connection.



 $For information on features of each connection configuration, the {\it maximum number} of {\it GOTs} connected, and$ the maximum connection distance, see pages 38 to 41.

The industry's smallest size by downsizing the control panel, saving

For connectivity with third party PLCs, see Connectable model list on page 57.



space and cost.



Windows® WAV files supporting by connecting a speaker with a built-in amplifier*1 to the standard audio output connector (Not supported by the A95□/A956WGOT.)



Built-in printer port (Centronics parallel interface, 20 pins, half pitch) (A9GT-50PRF is required for the A95 \(\textstyle / A956WGOT. \)

- The following printer functions are supported: Alarm history printing
- Daily/monthly report output
- Display screen color hard copy

Full 256 and beautiful screen display.

- •Bitmap data output to PC card (snapshot) The following printers*1 can be connected:
- ESC/P24-184 printer (ESC/P commands, color).
- *ESC/P is a control code system standardized by Seiko Epson.

Hewlett-Packard printer (PCL commands, color)

A975GOT A970GOT

A960GOT

•Chinese printer (character code GB or BIG5)

Screen is automatically displayed when a user approaches to it, and the backlight of interface is turned off when no one nearby. This function extends the life of the backlight and save energy also. *A985GOT(-V) only



A985GOT-V A985GOT

Support screen display on SVGA (800 x 600 dots) and VGA (640 x 480 dots)

The GOT screens can be displayed on an external CRT

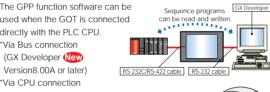
*A985GOT-V only (RGB input interface unit (optional) is required.) Up to 4 video animations are displayed on the GOT, simplifying system configuration.

*A985GOT-V only (Video input interface unit (optional) is required.)



used when the GOT is connected directly with the PLC CPU. 'Via Bus connection (GX Developer New Version8.00A or later)

*Via CPU connection





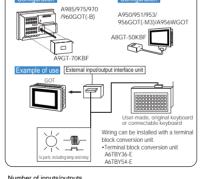
in a specified device as ASCII code.



When the external input/output unit allows I/O control and keyboard operation on the GOT. The keyboad can be created by users.



Keyboards that can be connected



FP5-MD41-A (Desktop type, Kanaden) FP5-MD41-B (Panel-mounted, Kanaden)

The backlight can be replaced easily. The FL has no backlight, so replacement is not required. See the Product List on page 60 for





(Set of 5) The logo on the sheet can be removed. (The A985 (-V) / 975 / 970 / 960GOT(-B) / A95□GOT/A956WGOT has no logo.) Be sure to use the protection sheet for screen . The GOT is supplied with a protection

The front panel supports the IP67F, so it can be used safely in dusty, humid, or oily places. (However, it may not guarantee any environment of kind.)



The attachment is used when replacing A77GOT or GOT800 series with GOT-A900 series; the installation opening does not need to be changed. Refer to the optional parts on page 33 for the attachment types.

Main unit functions

Windows® based universal language (lew

GT Designer2 supports Windows based universal language on the following OS.



- •Windows®2000 Professional
- •Windows®XP Professional
- •Windows®XP Home Edition When using the other OS, start GT Designer 2 English version on Windows® of a corresponding language and create screens in desired language.

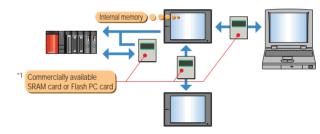
(i.e.) When creating a screen in Korean, start GT Designer2 English version on Korean Windows® and enter Korean

Universal language using Unicode

•The GOT displays various languages, including Japanese, Korean, Simplified Chinese (China), Traditional Chinese (Taiwan), English, German, French, Portuguese, Polish, and Spanish. International standard, Unicode (ISO/IEC10646), is adopted as character sets.



- •The GOT stores and transfers several kinds of process data (device values) such as material blending and procession conditions. Thus, the sequence program for data transfer is not necessary.
- •Reuse of data read from PLC on another GOT and spreadsheet is available using PC card. This is useful for process control and production management. Users can modify the values on a spreadsheet and transfer to the PC card.
- ·When only device data is being transferred from the GOT to the PLC, no PC card is required. (Data including initial values is stored in internal memory (flash ROM) of the GOT as screen data)



Monitor condition	Read condition bit					
MOTILOT CONGILION	Write condition bit					
Maximum number	256 files					
of settings	(A PC card with 4M bytes or more is required.)					
Maximum number of data items registered per file	Number of devices:8K words					
Select PC card capacity and registrations.	by calculating the number of settings					

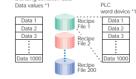
[Example of PC card selection] lect the PC card that fulfills the following

depending on number of data files and capacity.

1. Available PC card depends on the number of recine files

2. Calculation formula for data capacity stored in PC card Data capacity = 117 x number of recipe files + 9 x total number of 16-bit devices in each recipe file + 14 x total number of 32-bit devices in each

[PC card selection example]



When the number of recipe files is 200 and the number As the number of recipe files is 200, a PC card of

- . Calculation formula for data capacity stored in PC card Data capacity = 117 x number of recipe files + 9 x total number of 16-bit devices in each recipe file + 14 x total number of 32-bit devices in each recipe file = 117 x 200 + 9 x 1000 x 200

*1: For the cutting-edge information on the models that have been confirmed to operate properly, please contact your local Mitsubishi representatives

- = 1,823,400 (bytes) ≠ 1.8M bytes
- The data capacity is 1.8M bytes, however, since the number of files is 200, a PC card of 4M bytes or more can be used



- Data acquisition (server function), read and write PC card data including alarm history and recipe files (FTP server function), are available
- •Multiple GOTs can be monitored (server/client function) and error messages can be sent to Mobile PC or Desktop PC. Refer to Special report 3 on page 10 for details.

The GOT-original program, C language allows users with little knowledge program difficult-to-describe arithmetic/logical operations easily. The C language program can be used under complicated conditions whose device display and control types differ. Using a script on the GOT, load on the PLC CPU, microcomputer, etc. can be sharply reduced, improving the controller performance and program design efficiency. The function also makes system maintenance easy. Supporting various commands

- Control statement (if, while, switch statement, etc.) Logical, arithmetic.
- Arithmetic operation, assignment operation, etc.
- Device offset specification New
- · Like index qualification of the PLC, a device can be specified indirectly with a script.
- Integer ⇔ real number conversion function New



This function offers controlled operator access by assigning 16 levels of security classifications. (A password is required to change security level.) Screen level security

•Security level can be applied to full and partial screens, system monitor function, special module, and monitor function.

System level security

- •Switching to system screens (utility function), such as setup screen, is protected. •Reading ladder with the ladder monitor function is protected with a
- keyword that is registered with the GX Developer Project level security

·Screen data is protected from uploading



Since an action can be carried out at a specified time on a specified day of the week, machine operation instruction and audible communication can easily be performed.



- The dates and time, the descriptions, the recovery and confirmation times are displayed that alarms occurred .
- · Either history mode or accumulative mode (time/frequency) can be selected.
- Timing of alarm reset can be specified. •Up to 3 072 alarms can be stored on alarm history



Function description

35

- •There are two ways to process the 3,073th alarm. Erasing the oldest alarm and collect the 3.073th alarm
- · Not collecting the 3,073th or later alarms
- •The number of alarms in the history is reported to the CPU. (The number of alarms can be monitored numerically.)
- ·Alarm history data can be stored to PC card even if the power of GOT is switched off. (A PC card stores up to 3,072 alarm data generated right before GOT
- is powered off.) •Alarm history data is stored to hard disk of personal computer when GT SoftGOT2 is used.
- PC card capacity is as follows:

Approximately 72 (360) K bytes



 Alarms are displayed in the order in which they occurred •Monitor devices can be registered for all screens, and whether to

display them can be specified on each screen. •The number of current alarms is reported to the CPU. (The number of alarms can be monitored numerically.)



The dates/times alarms occured and its descriptions are displayed.

- Only current alarms are displayed Restored alarms are automatically cleared from the screen.
- •The ascending or descending order can be selected.
- •The order in which alarms occurred or order of alarm numbers can be selected.
- •The number of current alarms is reported to the PLC. (The number of alarms can be monitored numerically.)
- •Row number of alarm can be specified indirectly. New

- *2: Among the A95□GOTs, only the A95□GOT-M3 is available. *3: Equivalent to IP65F depending on the GOT hardware version. Refer to the technical news for details

AJ71PT32-S3 (32/48 points), AJ71ID1-R4.

For small modules:Input module, output module, A1SD61, A1SJ71PT32-S3 (32/48 points), A1SJ71ID1-R4, A1SJ71ID2-R4, A1S64TCTT-S1, A1S64TCTTBW-S1, A1S64TCRT-S1, A1S64TCRTBW-S1

A.J71ID2-R4

GOT Dictionary

GT

Advanced features increase your satisfaction!

System alarm

- •PLC CPU or network connection errors or GOT errors are displayed by only specifying a display area.
- •Predefined error messages are displayed.



- Data can be displayed as lists • Five elements can be displayed on a single line. (Up to 128 lines)
- Data is sorted and displayed in the order of device values to be monitored. Data can be displayed in either the descending order tool using frequency, or failure frequency





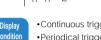
- If a combination of ON/OFF conditions for two devices is valid, it is reported to an external unit or PLC CPU. Audio output, bit ON/OFF, bit inversion, momentary, or data set (fixed value/indirect value) can be selected.
- •All screens and an individual screen can be used at the same time.
- •It is effective as background processing for display conditions, write conditions, or report print conditions.







Maintenance functions (when MELSEC Q/QnA/A/FX CPU or motion controller or Servo amplifier is connected)



- ·Continuous trigger: The display is always updated.
- Periodical trigger: A display interval can be specified (in seconds).
- •Edge trigger : ON/OFF display

It can be displayed when a specified device is turned on or off. It can be displayed forcibly when the screen is switched.

·Level trigger: ON/OFF display

It is always displayed when a specified device is ON or OFF

Whether to retain or clear the display can be specified when a trigger is invalid.



- Switching by bit (2 combinations) The display is switched when a monitor device is ON or OFF Switching by word (63 combinations) Display color, etc. can be specified by setting a range of values using
- a comparison equation (inequality). A constant or word device can be specified for a comparison term.



location, a setting can be input to multiple devices.

Since several data items can be displayed or input in one

·An offset device can be set for each object.

screen does not need to be created.

16-bit and 32-bit display, and comment display.

This function can be disabled by setting a password

•The A956W/A95□(W)GOT displays a window screen.



- The PLC station number can be switched and a remote station can be monitored on a screen, so the screen does not need to be changed for each PLC station number. (Effective during transient communication.)
- Since the station number is switched by changing the station number device value, it can be done easily with a touch switch or a sequence program.



Since the common parts of several screens can be created and displayed as a separate screen, screen data can be reduced. Several screens being used can be changed by modifying the call screen only.

Since device values (including timer/counter settings) can be

monitored and changed easily, a seperate device check maintenance

•You can toggle between decimal and hexadecimal display, between

•Different PLC devices can be displayed on 4 windows at the same

and BM (buffer memory) monitor can be displayed and changed

(including timer/counter settings) together with each window.

time. The registration monitor, batch monitor, timer/counter monitor,

device value/bit set/bit RST can changed by a single operation

•Downloading time can be reduced by transferring screens one at a time •There is no limit to the number of screens that can be called.

A960GOT

Time delay switch function

ON delay: This switch works when it is kept pressed for a specified period of time. This protection function prevents a switch from being activated when it is touched by mistake. OFF delay: This touch switch continues output for a specified period of time after the switch is released (The time can be set from 1 to 5 seconds.)



- Operation protection can be set easily for the touch switch or numeric input function by specifying operating conditions.
- Works when a bit device is specified (ON/OFF)
- ·Works when a word device is within a specified range



•The area of touch switch can be set 16-dot interval, so wrong input of

an adjacent touch switches can be avoided

Offset specification

An offset (index qualification) can be specified by writing a word for a touch switch. Write device: D100 Offset device: WO

If W0 is 0, data is set at D100. If W0 is 1, data is set at D101.

Previous screen switch function New



target: upper layer) works as a previous screen switch when its internal

PC card is necessary when the power is switched ON again, otherwise the previous screen switch function is lost.

PLC program can be monitored in ladder format. (Either one or Q, QnA,

A, FX ladder is shown) A95 GOT does not support the ladder monitor.

·Searching includes device search, step searching, contact, coils, etc.

•The cause of problems can be investigated easily by the fault cause

A956WGOT does not support QnA/A/FX ladder monitor. (Q ladder

Setting and changing of device values/timer/counter.

•Device comments of GX Developer are displayed.

This easily finds corresponding coils by

QnA/A/FX does not support touch search.

This function is unavailable for instructions

touching contacts.

(O ladder monitor only)

other than contacts and coils and word devices. The Cause fault search

and touch search cannot

be used simultaneously.

search function. (QnA ladder monitor does not support.)

- *1: The front screen switch allows to return up to nine previous screens
- 2: This function can be applied only to base so *3: Previous screen switch cannot be saved to PC card.

- •Module configuration is automatically determined and a menu is displayed. Information of special module such as I/O information and buffer memory values can be displayed on the GOT, and special X/Y and buffer memory data can be modified.
- •It is not necessary to create a screen for I/O check and special function module maintenance
- •It can be used to start a machine or check special function module operation
- ·It can be read from the user screen and used freely as a screen library
- This function can be disabled by setting a password

[Special function modules that can be monitored] A series module Positioning modules

For large modules:AD75'2, AD70, AD70D, AD71, AD72
For small modules:AJSD75, AJSD70, AJSD71
for small modules:AJSD75, AJSD70, AJSD71
module, AD61, A61LS, A62LS-S5, <Analog modules> For large modules:A68AD, A68ADN, A616AD, A616TD, A68RD, A62DA-S1, A616DAV,

A6161D, A68RD, A62DA-S1, A616DAV, A616DAI, A84AD For small modules:A1S64AD, A1S62DA, A1S62RD, A1S63ADA, A1S68DAV, A1S68DAI,

Q64AD, Q68ADV, Q68ADI, Q62DA, Q64DA, Q62E, Q62D QD75MQ, QD75PQ, QD75DQ

*2: The AD75M parameter is monitored in the small range AD75P parameter

Sequence programs can be edited as lists. (The key layout and operation are the same as for the ASLIPLL)

Applications Minor changes can be made to programs in the field. Sequence programs can be edited easily without using peripheral equipment. The customer who used to ship a machine with the A8UPU

(programming unit) can reduce costs. Functions and operations

List: 4-line display

Applicable PLCs: MELSEC-A series

Program edit: Editing is possible when the PLC stops.

- · List programs are displayed in the window of the ladder monitor, and on the base screen of the monitor screen Les prugants are uspagée in the window of the ladder monitor's
 The keyword set for the sequence program is checked, and if it is correct, lists can be edited to assure
 Lists can be displayed in English.
 The list program edit screen can be hard copied and stored as history.

this function cannot be used with ladder monitor.)

Note 1) unavailable for O/OnA/motion controller/computer link connection A sequence program cannot be read with dedicated instructions specified.

Note 2) The photo shows this function used with ladder monitor. (On the A956W/A95□GOT

The servo monitor and parameter setting of the Q series motion controller (Q172CPU(N), Q173CPU(N)) can be performed on the GOT screen. Parameter setting/monitoring is enabled for up to 3 Q172CPU(N)s or O173CPU(N)s on the base.



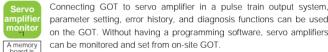


Motion monito

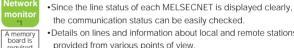
Parameter setting

Servo parameters (basic parameters, adjustment parameters)

- •Monitoring of current value history is not supported by the A95□GOT.
- Servo amplifier version B1 or later supports servo parameter setting for the MR-J2S. •In a multiple CPU system, Q series CPU needs to be used as PLC No.1. Also, Q series PLC CPU should be mounted to the left of the Q172CPU(N) or Q173CPU(N) on the base unit.
- JOG operation, servo test, etc. are not supported. Refer to Notes for Use on page 58 for the Q series motion controller CPU versions.



parameter setting, error history, and diagnosis functions can be used on the GOT. Without having a programming software, servo amplifiers can be monitored and set from on-site GOT Refer to Special report 2 on page 9 for details



•Details on lines and information about local and remote stations is provided from various points of view.

Supporting MELSECNET/10, (II)/B

•This function can be disabled by setting a password. •The A956W/A95 GOT displays a window screen.

the communication status can be easily checked.

- •The MELSECNET/H cannot use this feature.

Drawing software (including GT Simulator2)



The GOT-A900 series screen can be simulated on a personal computer to debug the screen. If the screen needs to be modified as a result of debugging, it can be done using drawing software (GT Designer2) and the results can be checked immediately with the GT Simulator2, so debugging efficiency can be greatly improved. Refer to GT Simulator2 in Product overview on page 31 for details



Started from GT Simulator2. A list of devices being used on the screen currently displayed by GT Simulator are displayed. Since GOT internal devices (GB, GD, GS) can also be monitored, debugging efficiency can be further improved.



Screen captures for documentation

- Screen images are printed to several formats.
- ·Screen images are copied to a BMP and TEXT formats. This allow uses to finish complete operating manuals or documentations in



1: Supported by the A95□GOT-M3 among the A95□GOTs *2: GT Designer is included in SWID5C-GOTR-PACK(E)(V). SW3NIW-A8GOTP is not included in GT Designer2/GT Works2

Compatibility with other software data

			D: Compatible △: GT Converter	is required X: Not compatible								
	Used software	Product name	New drawing software for GOT900 series GT Designer2	Drawing software for GOT900 series GT Designer								
	Used software	Model name	SW□D5C-GTD2-J(V)/E SW□D5C-GTWK2-J(V)/E	SW□D5C-GOTR-PACK(E)(V)								
	Data created on FX-P0	CS-DU/WIN	0	X (Upload from GOT)								
Source	GX Developer device com	ment read*3	0	0								
5	BMP format data		0	0								
e d	DXF format data		×	0								
data	Monitor data of GP se	eries	O GT Converter is required (included in GT Designer2)	O GT Converter is required (included in GT Designer2)								
*2.	*2. CV Developer's device comment helps device entire while greating correspo											

Compatibility with GT Designer

GT Designer2 is compatible with GT Designer

				is required X: Not compatible
	Used software	Product name	New drawing software for GOT900 series GT Designer2	Drawing software for GOT900 series GT Designer
	Used software	Model name	SW□D5C-GTD2-J(V)/E SW□D5C-GTWK2-J(V)/E	SW□D5C-GOTR-PACK(E)(V)
	Data created by GT I	Designer2	0	×
	Data created by GT I		0	0
	GT Designer panel k	it read*4	0	0
Source	Monitor data of GOT	800 series	O GT Converter is required	O GT Converter is required
8			(included in GT Designer2)	(included in GT Designer2)
data	Monitor data of A770	OT(-S□)	Conversion on GT Converter (included in GT	O Conversion on GT Converter (included in GT Designer2
	Monitor data of A640	OT	Designer2 and GT Works2) is necessary after	and GT Works2) is necessary after SW3NIW-A8GOTP
	Monitor data of AD57	'G-S3	SW3NIW-A8GOTP(included in optional software, SW D5C-GOTR-Pack(E)(V)) conversion is done.	drawing software for GOT 800 series (included in GT Designer2 and GT Works2) conversion is done.
*4.	The nanel kit of GT De	signer can	he used as a norts library	

Function description

Connection configuration

Various connection configurations increase your satisfaction!

service network

AGOT



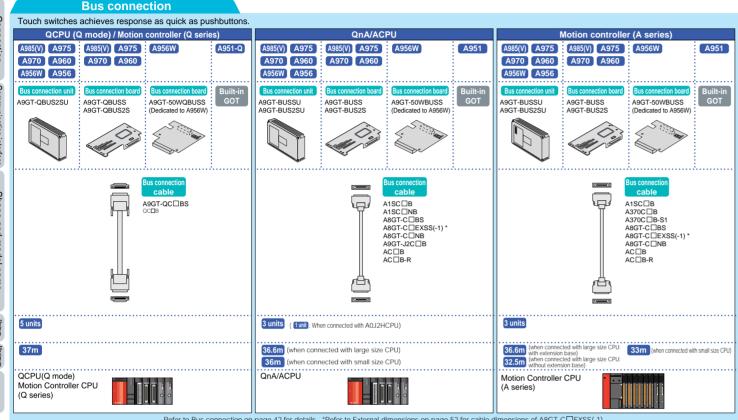


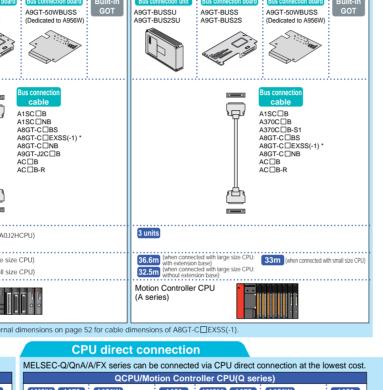


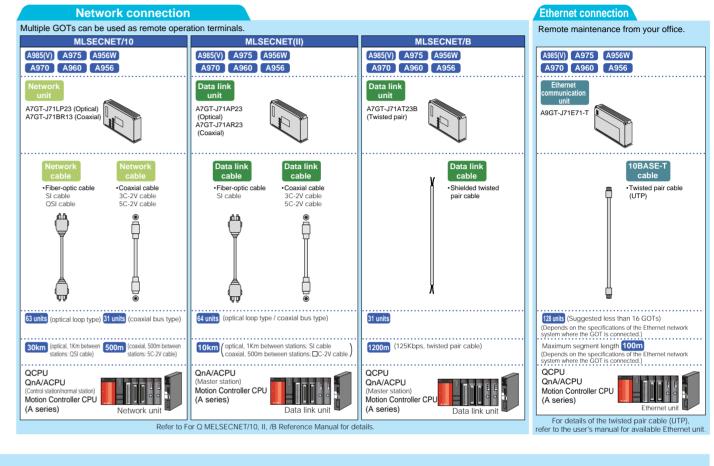






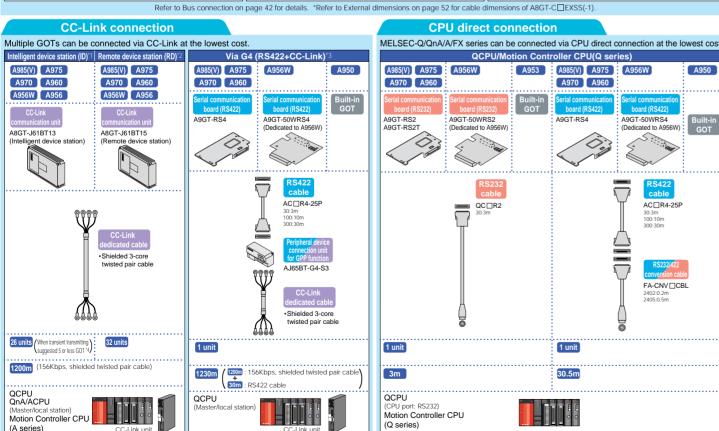


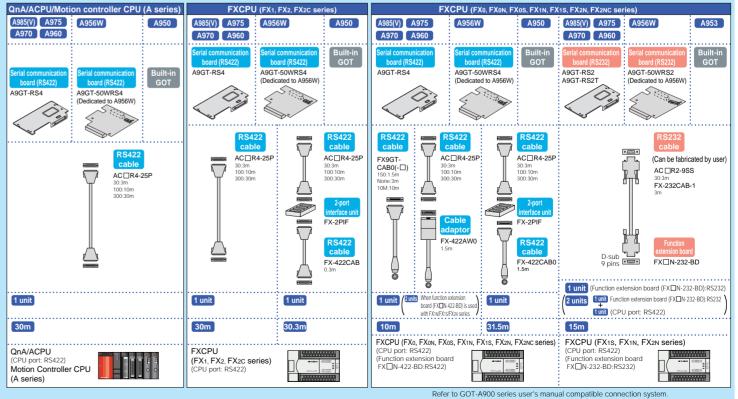




for use

products





^{2.} Only Cyclic datasitission is available.

Remote devices allocated to remote device stations such as GOT can be monitored.

3: RS422 can be connected to CC-Link via AJ65BT-C4-S3.

4: Refer to GOT-A series User's manual (GT Works2 Version 1/GT Designer2 Version 1 compatible connection system manual) for the detail.

Connection configuration

A985GOT-V A985GOT A975GOT A970GOT

P.4~ P.6~ P.8~ P.10~ P.12~ P.16~ P.18~ P.20~ P.22~ P.24~ P.26~ P.28~ P.30~ P.32~

Various connection configurations increase your satisfaction!

service network

series



Concept

Lineup





GT

recommended points SoftGOT2





A960GOT



GT

A956WGOT A95□GOT



Options





Specifications

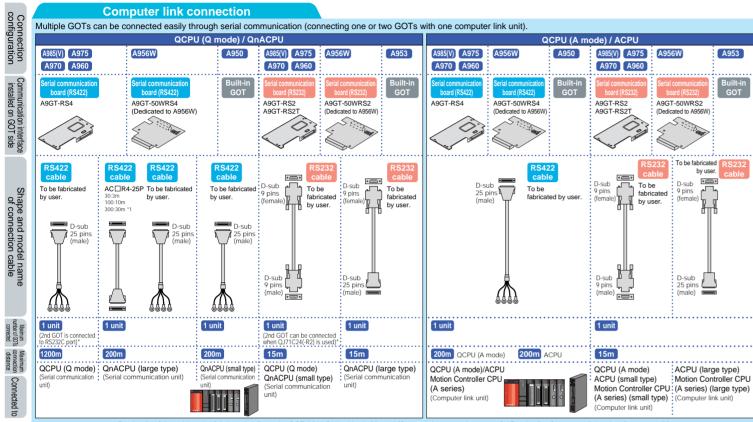


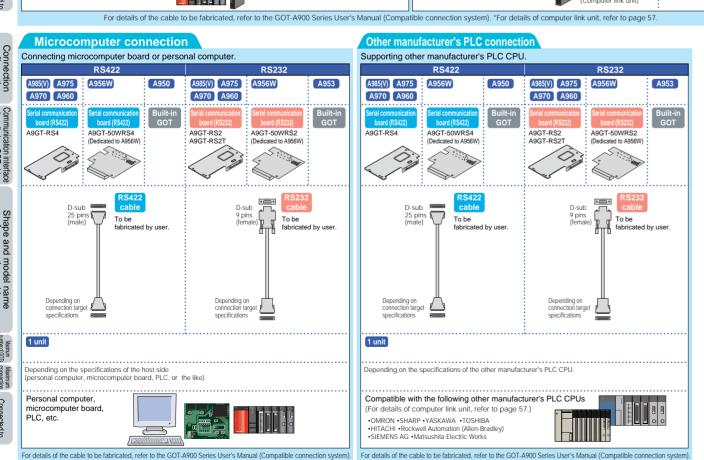
for each model model list



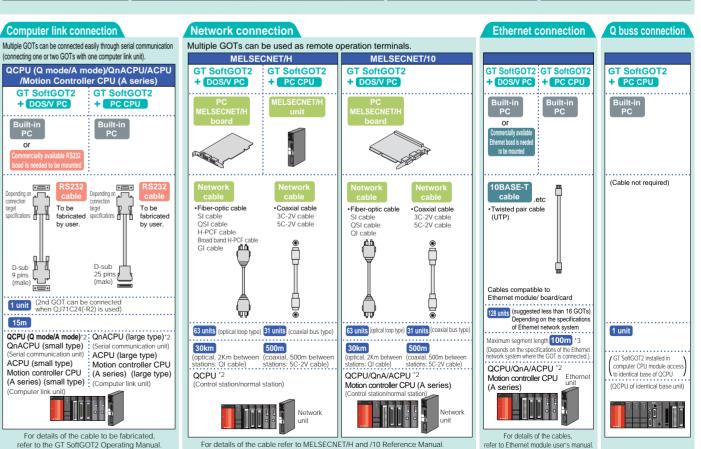
for use

products





CPU direct connection Connecting with MELSEC-Q/QnA/A/FX series at the lowest cost. QnA / ACPU / Motion Controller CPU (A series) FXCPU (FX0, FX0N, FX0S, FX1N, FX1S, FX2N, FX2NC serie FXCPU (FX1, FX2, FX2c series) GT SoftGOT2 : GT SoftGOT2 GT SoftGOT2 GT SoftGOT2 GT SoftGOT2 GT SoftGOT2 + PC CPU DOS/V PC Built-in PC Built-in PC PC PC PC PC or or RS232 RS232 cable $\overline{\Box}$ $\overline{\bigcirc}$ DAFXI(H) DAFXI(H) DAFXI(H)
-CAB *3 -CABV *3 -CABL *3 QC□R2 •F2-232 CAB F2-232 CAB-1 F2-232 CAB-2 •F2-232 CAB F2-232 CAB-1 •F2-232 CAB F2-232 CAB-1 F2-232 CAB-2 F2-232 CAB-2 AC30N2A •AC30N2A 25 pins FX-232AW(C FX-232AW(C) FX-422CAB FX-422CAB FX-422CAB0 FX-422CAB-150 FX-422CAB-150 1 unit 1 unit 1 unit 1 unit 4.5m 4.5m 3m 4.5m FXCPI1*2 EXCPU* (FX1, FX2, FX2C series) (FX0, FX0N, FX0S, FX1N, QCPU *2 OnA/ACPU* Motion Controller CPU FX1S, FX2N, FX2NC series) (A series)



Concept

Bus connection

Lineup Special report Special report New drawing software FA integrated functions Gateway functions Ga

P.2 ~ P.4 ~ P.6 ~ P.8 ~ P.10 ~ P.12 ~ P.16 ~ P.18 ~ P.20 ~ P.22 ~ P.24 ~ P.26 ~ P.28 ~ P.30 ~ P.32 ~

series

Bus connection is one way to connect multiple GOTs using extension connector of base unit and to achieve the highest speed response with Mitsubishi PLC's CPU. It allows multiple GOTs to be located away from PLC since computer link module is not required. (Refer to Notes for bus connection on page 48.)

When connected with QCPU (Q mode) / Motion controllerCPU (Q series) Up to 5 GOTs can be connected.
For connectable CPU modules, refer to Connectable mode list on page 56.

GOT conn	ection conditions	System configuration		Component details													
Number of GOTs	Installation distance of the first unit	Connection distance	Bus extension *2 connector box	Cable 1 3			GOT1		Cable 2 *4			Middle GOT(GOT	2 to GOT4)	Cable 3 '4	-[Last GOT(GOT2	to GOT5)
0.0010	from base unit 11	0m 13.2m 37m				T main unit Model name	Communica Board type	ation interface Unit type			nain unit Model name	Communica Board type	tion interface Unit type		GOT main Size Mode		unit type
	Within 13.2m	PLC Extension base unit Cable 1 3		QC□B 06: 0.6m 12: 1.2m 30: 3m 50: 5m 100: 10m	10" 9" 7" 6"	A985(-V) A97□ A960 A956W A956 A951-Q *5	A9GT-QBUSS A9GT-QBUS2S A9GT-50WQBUSS	A9GT-QBUS2SU	-								
1 unit	More than 13.2m	Bus extension connector box Extension base unit but the second base uni	A9GT-QCNB	OC□B 06: 0.6m 12: 1.2m 30: 3m 50: 5m 100: 10m A9CT-QC□BS 150: 15m 200: 25m 300: 30m 350: 35m	10" 9" 7"	A985(-V) A97□ A960 A956W A956 A951-Q *5	A9GT-QBUSS A9GT-QBUS2S A9GT-50WQBUS3	A9GT-QBUS2SU									
2 to 5 units	Within 13.2m	PLC Extension base unit		QC□B 06: 0.6m 12: 1.2m 30: 3m 50: 5m 100: 10m	10" 9" 7"	A985(-V) A97□ A960 A956W A956	-	-	OC□B 06:0.6m 12:1.2m 30:3m 50:5m 100:10m A9GT-QC□BS 150:15m 200:20m 250:25m 300:30m 350:35m	10"	A97 A960 A956W	A9GT-QBUS2S	A9GT-QBUS2SU	OC□B 06:0.6m 12:1.2m 30:3m 50:5m 100:10m A9GT-QC□BS 150:15m 200:20m 250:25m 300:30m 350:35m	10" A97 9" A96	A9GT-50WQBUSS	A9GT-QBUS2SU
50 00	More than 13.2m	Bus extension connector box	A9GT-QCNB	OC⊞ 06:0.6m 12:1.2m 30:3m 50:50m 100:10m A9CT-QC□BS 150:15m 200:20m 250:25m 300:30m 350:35m	10" 9" 7"	A985(-V) A97□ A960 A960 A956W	A9GT-QBUS2S	A9GT-QBUS2SU	OC∷B 06: 0.6m 12: 1.2m 30: 3m 50: 5m 100: 10m A9CT-QC□BS 150: 15m 200: 20m	10"	A97□ A960 A956W	A9GT-QBUS2S	A9GT-QBUS2SU	OC∷B 06:0.6m 12:1.2m 30:3m 50:5m 100:10m ASCT-QC□BS 150:15m 200:20m	10" A97 9" A96	A9GT-50WQBUSS	A9GT-QBUS2SU

Options

GOT Connection Bus connection

ted with QnACPU (large type) or ACPU (large type) Up to 3 GOTs can be connected.

conne	ection conditions	System configuration								Com	oonent details						
mber GOTs	Installation distance of the first unit	Connection distance		Cable 0 '4	Bus connector conversion box	Cable 1 4		GOT1		Cable 2 4		- GOT2		Cable 3 ⁻⁴		дотз	
_	from base unit	0m 6.6m	36.6m				GOT main unit Size Model name	Communica			GOT main unit		tion interface		GOT main u		ation interface
						A8GT-C□NB	Size Model name 12" A985(-V)	Board type A9GT-BUSS	Unit type A9GT-BUSSU		Size Model name	Board type	Unit type		Size Model n	name Board type	Unit type
		GOT1				12 : 1.2m	12 A965(-V) 10" A97□	A9GT-BUS2S	A9GT-BUSSU								4
		PLC	•			30 : 3m 50 : 5m	9" A960	A9G1-B0323	A3G1-B03230								
	M/24 : 0.0					50 : 5111	7" A956W	A9GT-50WBUSS	A9GT-BUSSU								
	Within 6.6m		:						A9GT-BUS2SU								
		Cable 1 *7					6" A956	_	A9GT-BUSSU								
		Max.6.6m	:						A9GT-BUS2SU								
nit.							A951 *5		<u> </u>						\longrightarrow		
unit			GOT1	AC□B 06 : 0.6m	A7GT-CNB	A8GT-C□EXSS 100:10m	12" A985(-V) 10" A97□	A9GT-BUSS A9GT-BUS2S	A9GT-BUSSU A9GT-BUS2SU								
		Bus connector conversion box		12:1.2m		200 : 20m	9" A960	A9G1-BUS2S	A9G1-BUS2SU								
			H II	30 : 3m 50 : 5m		300 : 30m	7" A956W	A9GT-50WBUSS	AGGT-RUSSU								
	More than 6.6m	Cable 0 °7 Cable 1		AC□B-R		A8GT-C□EXSS-1 *6	/ Assov	A3G1-30WB033	A9GT-BUS2SU								
		, Max.6.6m Max	x.30m	12 : 1.2m		100 : 10.6m	6" A956		A9GT-BUSSU	1							
		Max.36.6m	X.30III	30 : 3m 50 : 5m		200 : 20.6m 300 : 30.6m	7.555	-	A9GT-BUS2SU								
		Widx.30.0III	→		A8G		A951 *5	_	_								
		GOT1	GOT2			A8GT-C□NB	12" A985(-V)	A9GT-BUS2S	A9GT-BUS2SU	A1SC□B	12" A985(-V)		A9GT-BUSSU				
						12 : 1.2m 30 : 3m	10" A97□			07 : 0.7m 12 : 1.2m	10" A97□	A9GT-BUS2S	A9GT-BUS2SU				4
			H			50 : 5m	9" A960			30 : 3m	9" A960						4
	Within 6.6m						7" A956W		A9GT-BUS2SU	50 : 5m A8GT-C□BS	7" A956W	A9GT-50WBUSS	A9GT-BUSSU A9GT-BUS2SU				4
		Cable 1 · 7 Cable 2					6" A956			100 : 10m	6" A956		A9GT-BUSSU	_			
			x.30m							200 : 20m 300 : 30m	p Aaap	_	A9GT-BUS2SU				
		Max.36.6m	-							300 . 3011	A951 *5	_	_	1			4
ınits		GOT1	GOT2	AC□B	A7GT-CNB	A8GT-C□EXSS	12" A985(-V)	A9GT-BUS2S	A9GT-BUS2SU	A1SC□B	12" A985(-V)	A9GT-BUSS	A9GT-BUSSU				
		Bus connector conversion box		06:0.6m		100 : 10m	10" A97□			07 : 0.7m	10" A97□	A9GT-BUS2S	A9GT-BUS2SU				4
				12 : 1.2m 30 : 3m		200 : 20m 300 : 30m	9" A960			12 : 1.2m 30 : 3m	9" A960						4
	More than 6.6m			50 : 5m		A00T 055V00 44V	7" A956W		A9GT-BUS2SU	50 : 5m	7" A956W	A9GT-50WBUSS					4
		Cable 0 *7 Cable 1	Cable 2	AC□B-R 12:1.2m		A8GT-C□EXSS-1 *6 100 : 10.6m	6" A956			A8GT-C□BS 100:10m			A9GT-BUS2SU				4
		Max.6.6m Max	x.30m	12 : 1.2m 30 : 3m		200 : 20.6m				200 : 20m	6" A956	_	A9GT-BUSSU A9GT-BUS2SU				4
		Max.36.6m		50 : 5m		300 : 30.6m				-	A951 *5	_	A3G1-B03230	-			
		:				A8GT-C□NB	12" A985(-V)	A9GT-BUS2S	A9GT-BUS2SU	A1SC□B	12" A985(-V)		A9GT-BUS2SU	A1SC□B	12" A985/	-V) A9GT-BUSS	A9GT-BUSSU
		GOT1 GOT2	GOT3			12 : 1.2m	10" A97□			07 : 0.7m	10" A97□	1		07 : 0.7m			A9GT-BUS2S
						30 : 3m 50 : 5m	9" A960			12 : 1.2m 30 : 3m	9" A960	1		12 : 1.2m 30 : 3m	9" A960		
ınits	Within 6.6m						7" A956W		A9GT-BUS2SU	50 : 5m	7" A956W	_	A9GT-BUS2SU	50 : 5m	7" A956V	W A9GT-50WBUSS	
iiilS	VVILIIII O.OIII	Cable 1 7 Cable 2	Cable 3				6" A956	_		A8GT-C□BS	6" A956	_		A8GT-C□BS 100:10m			A9GT-BUS2S
		Max.6.6m	x.30m							200 : 20m				200 : 20m	6" A956	_	A9GT-BUSSU
		Max.36.6m	····································							300 : 30m				300 : 30m	A951 *		A9GT-BUS2S

i: When extension base units are used, the extension cable length is also included.

Length between PLC base unit and last extension base unit should be within 13.2 m. (PLC CPU restriction)

For the cable type between PLC base units and extension base units, refer to PLC MELISEC Q series catalog.

If the length between base unit and first GOT is longer than 13.2 m, use bus extension connector box (ASGT-COUB) by

fitting only one box to the extension connector of the main or extension base unit. Bus extension connector cannot be used on abse unit when 000/CPU is used. (can be used on extension base unit.)

When extension base units are used, fit the bus extension connector box (A9GT-QCNB) to base unit, and if not, amount it to

extension cable connector of extension base unit just before CGT.

3: When extension base units are used, the extension cable length between last extension base unit and the first GOT.

4: Cable model name (example) QCD



Bus connection

series

When connected with QnACPU (small type) or ACPU (small type) Up to 3 GOTs can be connected.

For connectable CPU modules, refer to Connectable mode list on page 56.

GOT conn	ection conditions	System configuration						Component	details			
	Installation distance	Connection distance	Ca	able 0 *2 Bus conne conversion			- GOT1	Cable 2	GOT2	Cable 3		- СОТЗ
Number	of the first unit	Connection distance							GO12			GOI3
of GOTs	from base unit	0m 5m 30m	35m			GOT main unit	Communication interface		GOT main unit Communication interface		GOT main unit	Communication interface
		· · · · · · · · · · · · · · · · · · ·	<u> </u>		A1SC□B	Size Model name 12" A985(-V)	Board type Unit type A9GT-BUSS A9GT-BUSS		Size Model name Board type Unit type		Size Model name	Board type Unit type
		GOT1 PLC			0.7 : 0.7m 12 : 1.2m	10" A97□	A9GT-BUS2S A9GT-BUS2					
					30 : 3m 50 : 5m	9" A960 7" A956W	A9GT-50WBUSS A9GT-BUSS	U				
	Mea : 5				50.511	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	A9GT-BUS2					
	Within 5m	Cable 1 *1										
		Max.5m				6" A956	A9GT-BUSS A9GT-BUSS					
							_					
						A951 *3						
					A8GT-C□EXSS 100:10m	12" A985(-V) 10" A97□	A9GT-BUSS A9GT-BUSS A9GT-BUS2S A9GT-BUS2					
		GOT1			200 : 20m 300 : 30m	9" A960						
		• 7			A8GT-C□EXSS-1 *4 100 : 10.6m	7" A956W	A9GT-50WBUSS A9GT-BUSS A9GT-BUS2	U SU				
1 unit	More than 5m, Within 30m				200 : 20.6m 300 : 30.6m							
		Cable 1				6" A956	A9GT-BUSS	U				
		Max.30m					A9GT-BUS2	50				
						A951 *3						
				CONB A7GT-CNE	A8GT-C□EXSS	12" A985(-V)	A9GT-BUSS A9GT-BUSS					
		(Bus connector conversion box	O7 : 0. 30 : 31).7m	200 : 20m 300 : 30m	10" A97□ 9" A960	A9GT-BUS2S A9GT-BUS2	SU				
			50 : 51	im	A8GT-C□EXSS-1 *4	7" A956W	A9GT-50WBUSS A9GT-BUSS A9GT-BUS2	U				
	Within 35m	Cable 0 °6 Cable 1			100 : 10.6m 200 : 20.6m		A9G1-B032	30				
					300 : 30.6m	6" A956	A9GT-BUSS	U				
		Max.5m Max.30m Max.35m	→				A9GT-BUS2	SU				
		· Max.com	→			A951 *3						
					A1SC□B 07 : 0.7m	12" A985(-V)	A9GT-BUS2S A9GT-BUS2	SU A1SC□B	12" A985(-V) A9GT-BUSS A9GT-BUSSU			
		GOT1	GOT2		12 : 1.2m 30 : 3m	10" A97□ 9" A960		12 : 1.2m 30 : 3m	10" A97□ A9GT-BUS2S A9GT-BUS2SU 9" A960			
					50 : 5m	7" A956W	— A9GT-BUS2		7" A956W A9GT-50WBUSS A9GT-BUSSU A9GT-BUS2SU			
	Within 5m					6" A956		100 : 10m 200 : 20m	A9G1-BUS2SU			
		Cable 1 °6 Cable 2						300 : 30m	6" A956 A9GT-BUSSU			
		Max.5m Max.30m	→						A9GT-BUS2SU			
		✓ Max.35m	→						A951 *3 — —			
2 units					A8GT-C□EXSS	12" A985(-V)	A9GT-BUS2S A9GT-BUS2	SU A1SC□B	12" A985(-V) A9GT-BUSS A9GT-BUSSU			
		GOT1 GOT2			100 : 10m 200 : 20m	10" A97□ 9" A960		07 : 0.7m 12 : 1.2m	10" A97□ A9GT-BUS2S A9GT-BUS2SU 9" A960			
		• 7			300 : 30m	7" A956W	— A9GT-BUS2	30 : 3m SU 50 : 5m	7" A956W A9GT-50WBUSS A9GT-BUSSU			
	More than 5m				A8GT-C□EXSS-1 *4 100 : 10.6m	6" A956		A8GT-C□BS 100 : 10m	A9GT-BUS2SU			
		Cable 1 Cable 2			200 : 20.6m 300 : 30.6m			200 : 20m	6" A956 A9GT-BUSSU			
									A9GT-BUS2SU			
		← Max.30m							4074 10			
					A1SC□B	12" A985(-V)	A9GT-BUS2S A9GT-BUS2		A951 *3 — — — — — — — — — — — — — — — — — —	A1SC□B	12" A985(-V)	A9GT-BUSS A9GT-BUSSU
		GOT1 GOT2	ЗОТЗ		07 : 0.7m 12 : 1.2m	10" A97□ 9" A960		07 : 0.7m 12 : 1.2m	10" A97	07 : 0.7m 12 : 1.2m	10" A97□ A	A9GT-BUS2SU A9GT-BUS2SU
					30 : 3m 50 : 5m	7" A956W	— A9GT-BUS2		7" A956W — A9GT-BUS2SU	30 : 3m 50 : 5m		A9GT-50WBUSS A9GT-BUSSU
3 units	Within 5m					6" A956	_	A8GT-C□BS 100:10m	6" A956 —	A8GT-C□BS 100 : 10m		A9GT-BUS2SU
		Cable 1 6 Cable 2 Cable 3						200 : 20m 300 : 30m		200 : 20m 300 : 30m	6" A956	A9GT-BUSSU
		✓ Max.5m → ✓ Max.30m	→								7,000	A9GT-BUS2SU
		✓ Max.35m	→ :								100	
		<u>: : : : : : : : : : : : : : : : : : : </u>									A951	_ _

When connected with A0J2HCPU Single GOT can be connected.

OT conne	ction condition	ns System configuration								Component	details						
lumber f GOTs	Installation distance of the first unit	it Connection distance	Cable 0 *2	Power supply unit *5	Cable 1 '2	GOT ma	in unit	GOT1 Communica	ition interface								
		···		لصا		Size Mod			Unit type								
		PLC Power supply unit "5 GOT1	A0J2C 03: 0.3m (for horizontal installation) 06: 0.55m	A0J2-PW	A9GT-J2C□B 10:1m	12" A98 10" A97 9" A98	7 - 60	A9GT-BUSS A9GT-BUS2S	A9GT-BUSSU A9GT-BUSSSU								
unit	Within 1m	Cable 1	(for vertical installation) 10: 1m (for extension)			7" A9	ььи	A9GT-50WBUSS	A9GT-BUS2SU								
		Cable 0 Max.1m	20: 2m (for extension)			6" A9	56	_	A9GT-BUSSU A9GT-BUS2SU								
						A98	51 *3	_	_								
											extension units should be 2: Cable model name (exar 3: No communication interfa	e within 6 m. hple) A1SC B 07: 0.7m, ace is required.	ole distance between main a i.e. Model name: A1SC07B the cable length of the A8GT	*6: When ex extension *7: When ex	ension base units are units should be with ension bases are use	ed for connecting GOT. used, the extension cable n 6 m. d, the extension cable leng total length of all cables sh	th (between bases) s

Bus connection

series

When connected with motion controller CPU (A series) (large type) ● Without extension unit ● Up to 3 GOTs can be connected. For connectable CPU modules, refer to Connectable mode list on page 56.

 Concept
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 Special report Includes and Includes Special report Includes Inc

GOT conne	ection conditions	System configuration	Component details											
Number of GOTs	Installation distance of the first unit	Connection distance	Cable 0 1	Bus connector conversion box	Cable 1	· <u></u> ,	gот1	Cable 2	- GOT2	Cable 3 1	дотз			
of GOTS	from base unit	0m 2.5m 32.5m				GOT main unit Size Model name	Communication interface Board type Unit type		GOT main unit Communication inte		GOT main unit Communication interface Size Model name Board type Unit type			
	Within 2.5m	PLC GOT1 Cable 1 Max.2.5m			A370C□B-S1 12:1.2m 25:2.5m	12" A985(-V) 10" A97 9" A960 7" A956W 6" A956	A9GT-BUSS A9GT-BUSSU A9GT-BUS2SU A9GT-BUS2SU A9GT-BUS2SU A9GT-BUS2SU A9GT-BUSSU A9GT-BUSSU A9GT-BUS2SU		<u> </u>		State			
1 unit	More than 2.5m	Bus connector conversion box	A370C□B 12:1.2m 25:2.5m	A7GT-CNB	A8GT-C□EXSS 100 : 10m 200 : 20m 300 : 30m A8GT-C□EXSS-1 *3 100 : 10.6m 200 : 20.6m 300 : 30.6m	12" A985(-V) 10" A97 9" A960 7" A956W 6" A956 A951 *2	A9GT-BUSS A9GT-BUSSU A9GT-BUS2S A9GT-BUS2SU A9GT-50WBUSS A9GT-BUSSU A9GT-BUSSU A9GT-BUSSU A9GT-BUSSU A9GT-BUSSU							
	Within 2.5m	GOT1 Cable 1 Max.2.5m Max.30m Max.32.5m			A370C□B-S1 12:1.2m 25:2.5m	12" A985(-V) 10" A97□ 9" A960 7" A956W 6" A956	A9GT-BUS2SU	A1SC□B 07: 0.7m 12: 1.2m 30: 3m 50: 5m A8GT-C□BS 100: 10m 200: 20m 300: 30m	12" A985(-V) A9GT-BUSS A9GT-B 10" A97C	BUS2SU BUS2SU BUS2SU BUS2SU BUS2SU				
2 units	More than 2.5m	Bus connector conversion box	A370C □ B 12:1.2m 25:2.5m	A7GT-CNB	A8GT-C□EXSS 100:10m 200:20m 300:30m A8GT-C□EXSS-1*3 100:10.6m 200:20.6m 300:30.6m	12" A985(-V) 10" A97 9" A960 7" A956W 6" A956	A9GT-BUS2SU	A1SC□B 07: 0.7m 12: 1.2m 30: 3m 50: 5m A8GT-C□BS 100: 10m 200: 20m	12* A985(-V) A9GT-BUSS A9GT-BUSS	3US2SU 3USSU 3USSU 3USSU				
3 units	Within 2.5m	GOT1 GOT2 GOT3 Cable 1 Cable 2 Cable 3 Max.2.5m Max.32.5m			A370C□B-S1 12:1.2m 25:2.5m	12" A985(-V) 10" A97 9" A960 7" A956W 6" A956	A9GT-BUS2SU	A8GT-C□EXSS 100:10m 200:20m 300:30m A8GT-C□EXSS-1 *3 100:10.6m 200:20.6m 300:30.6m	10" A97	BUS2SU A1SC□B 07:0.7m 12:1.2m 30:3m 50:5m A8GT-C□BS 100:10m 200:20m	12" A985(-V) A9GT-BUSS A9GT-BUSSU 10" A97□ A960 A960 A960 7" A956W A9GT-50WBUSS A9GT-BUSSU A956 A956 A9GT-BUSSU A951 *2 A9GT-BUSSU A961 *2 A9GT-B			

When connected with motion controller CPU (A series) (large type) • With extension unit • Up to 3 GOTs can be connected.

		h motion controller CPU (A series) (large type) With extension unit	For connecta	able CPU module	s, refer to Connectable r	mode list	on page 56.											
GOT conne	ection conditions	System configuration								Component d	etails							
Number of GOTs	Installation distance of the first unit	Connection distance	Cable 0 *1	Bus connector conversion box	Cable 1		-	GOT1		Cable 2		GOT2		Cable 3			GОТЗ	
or GOTS	from base unit	0m	5.6m				T main unit	Communic	ation interface		GOT main unit		tion interface	▮ ┗┢──┫┛		nain unit		tion interface
		(0.011)	2.0111	Ш			Model name	Board type	Unit type		Size Model name	Board type	Unit type		Size	Model name	Board type	Unit type
		DI O GOT1	:		A8GT-C□NB 12:1.2m		A985(-V)	A9GT-BUSS	A9GT-BUSSU									
		PLC			30 : 3m		A97□	A9GT-BUS2S	A9GT-BUS2SU									
			:		50 : 5m		A960 A956W	A9GT-50WBUSS	AOCT DUCCU	-								
	Within 6.6m					_ ′	A956VV	A9G1-SUVIBUSS	A9GT-BUS2SU									
		Cable 1 *4				6"	A956		A9GT-BUSSU	1								
		Max.6.6m				"	7.000	_	A9GT-BUS2SU									
							A951 *2	_	_									
1 unit		Bue connector conversion hav	AC□B 06 : 0.6m	A7GT-CNB	A8GT-C□EXSS		A985(-V)	A9GT-BUSS	A9GT-BUSSU									
		Bus connector conversion box	06 : 0.6m 12 : 1.2m		100 : 10m 200 : 20m		A97□	A9GT-BUS2S	A9GT-BUS2SU									
			30 : 3m		300 : 30m		A960	<u> </u>	<u> </u>	_								
	More than 6.6m		50 : 5m AC□B-R		A8GT-C□EXSS-1 *3	7"	A956W	A9GT-50WBUSS	A9GT-BUSSU A9GT-BUS2SU									
		Cable 0 *4 Cable 1	12 : 1.2m		100 : 10.6m	6"	A956		A9GT-BUSSU	+								
		Max.6.6m Max.30m	30 : 3m 50 : 5m		200 : 20.6m 300 : 30.6m		ASSO	_	A9GT-BUS2SU									
		Max.36.6m	30.311		300 : 30.611		A951 *2	—	_									
		GOT1 GOT2			A8GT-C□NB	12"	A985(-V)	A9GT-BUS2S	A9GT-BUS2SU	A1SC□B	12" A985(-V)	A9GT-BUSS	A9GT-BUSSU					
		GOIZ	i		12 : 1.2m 30 : 3m		A97□			07 : 0.7m 12 : 1.2m	10" A97□	A9GT-BUS2S	A9GT-BUS2SU					
			l I		50 : 5m		A960			30 : 3m	9" A960							
	Within 6.6m		<u> </u>				A956W		A9GT-BUS2SU	50 : 5m	7" A956W	A9GT-50WBUSS						
		Cable 1 '4 Cable 2]			6"	A956			A8GT-C□BS	A 050		A9GT-BUS2SU	-				
		Max.6.6m Max.30m	. I							100 : 10m	6" A956	_	A9GT-BUSSU A9GT-BUS2SU					
		Max.36.6m								200 : 20m 300 : 30m	A951 *2		—	-				
2 units			AC□B	A7GT-CNB	A8GT-C□EXSS	12"	A985(-V)	A9GT-BUS2S	A9GT-BUS2SU	A1SC□B	12" A985(-V)		A9GT-BUSSU					
		Bus connector conversion box GOT1 GOT2	06 : 0.6m		100 : 10m		A97□	1		07 : 0.7m		A9GT-BUS2S	A9GT-BUS2SU					
			12 : 1.2m 30 : 3m		200 : 20m 300 : 30m	9"	A960			12 : 1.2m 30 : 3m	9" A960	1						
	More than 6.6m		50 : 5m				A956W	_	A9GT-BUS2SU	50 : 5m	7" A956W	A9GT-50WBUSS	A9GT-BUSSU					
		Cable 0 '4 Cable 1 Cable 2	AC□B-R 12:1.2m		A8GT-C □EXSS-1 *3 100 : 10.6m	6"	A956			A8GT-C□BS			A9GT-BUS2SU	_				
		Max.6.6m Max.30m	30 : 3m		200 : 20.6m					100 : 10m	6" A956	_	A9GT-BUSSU A9GT-BUS2SU					
		Max.36.6m	50 : 5m		300 : 30.6m					200 : 20m	A951 *2	_	A9G1-B03230	+				
		COTA	:		A8GT-C□NB	12"	A985(-V)	A9GT-BUS2S	A9GT-BUS2SU	A1SC□B	12" A985(-V)		A9GT-BUS2SU	A1SC□B	12"	A985(-V)	A9GT-BUSS	A9GT-BUSSU
		GOT1 GOT2 GOT3			12 : 1.2m		A97□	7		07 : 0.7m	10" A97□	1		07 : 0.7m	10"		A9GT-BUS2S	A9GT-BUS2SU
					30 : 3m 50 : 5m		A960			12 : 1.2m 30 : 3m	9" A960	1		12 : 1.2m 30 : 3m	9"	A960		
3 units	Within 6.6m					7"	A956W	_	A9GT-BUS2SU	50 : 5m	7" A956W	_	A9GT-BUS2SU	50 : 5m	7"	A956W	A9GT-50WBUSS	A9GT-BUSSU
o unito	***************************************	Cable 1 '4 Cable 2 Cable 3	1			6"	A956	_		A8GT-C□BS	6" A956	_		A8GT-C□BS				A9GT-BUS2SU
		Max.6.6m Max.30m								100 : 10m				100 : 10m	6"	A956	_	A9GT-BUSSU
		Max.36.6m								200 : 20m 300 : 30m				200 : 20m 300 : 30m		A951 *2		A9GT-BUS2SU
			•							300 : 30m				555 . 50III		ASSI Z		

^{*1:} Cable model name (example) A1SC□B 12: 1.2m, i.e. Model name: A1SC12B

^{*4:}The total cable distance between main and extension unit should be with 6.6 m. *5:Use the A65B/A68B extension base unit.

Special report

New drawing software FA integrated functions Gateway functions recommended points SoftGOT2

GT

When using the A13UHCPU(-S1), up to 3 GOTs can be connected. When using other CPUs, up to 2 GOTs can be connected. When connected with A series motion controller CPU (small type) Refer to "Connectable model list" on page 56.

A985GOT-V A985GOT A975GOT A970GOT

GOT con	ection conditions		System configuration	r to Connectable in								Component of	details							
	Installation distance				Cable 0 *2	Bus connector	Cable 1 *2			1		Cable 2 *2	2				Cable 3 *2			
Number			Connection distance			conversion box			-	GOT1					- GOT2				GOT:	3
of GOTs	of the first unit					І ІППІ		COT	main unit	Communica	tion interfers	- LP	COT	oin unit	Communica	tion interfers	- F3—471	COT main w	nit Communic	ation interfers
	from base unit	Om 3m	30m	33m					Model name	Board type	Unit type				Board type	Unit type			ame Board type	Unit type
		Ť Ť	· ·	· ·			A1SC□B	12"	A985(-V)	A9GT-BUSS	A9GT-BUSSU		0.20	noudi namo	Dod. a typo	O mit type		O.E.O III.OUO.II	amo Boara typo	Onit typo
		GOT1					07 : 0.7m 12 : 1.2m	10"		A9GT-BUS2S	A9GT-BUS2SU									
							30 : 3m		A960 A956W	A9GT-50WBUSS	AGCT-BUISSU	_								
	Within 3m							'	ASSOV	A9G1-30WD033	A9GT-BUS2SU									
		Cable 1 *1						6"	A956	_	A9GT-BUSSU									
		Max.3m								_	A9GT-BUS2SU									
							ARCT CELEVOS		A951 *3	— —	A9GT-BUSSU									
			GOT1				A8GT-C□EXSS 100:10m	10"	A985(-V) A97□	A9GT-BUSS A9GT-BUS2S	A9GT-BUS2SU									
							200 : 20m 300 : 30m	9"												
1 unit	More than 3m,	7					A8GT-C□EXSS-1 *4	7"	A956W	A9GT-50WBUSS	A9GT-BUSSU A9GT-BUS2SU									
1 unit	Within 30m		Cable 1				100 : 10.6m 200 : 20.6m	01	4050			_								
							300 : 30.6m	6-	A956	_	A9GT-BUSSU A9GT-BUS2SU									
		\	Max.30m						A951 *3		_	-								
				GOT1		A7GT-CNB	A8GT-C□EXSS		A985(-V)	A9GT-BUSS	A9GT-BUSSU									
		Bus connector conv	version box		05 : 0.5m 07 : 0.7m		100 : 10m 200 : 20m		A97□	A9GT-BUS2S	A9GT-BUS2SU									
		·5			30 : 3m		300 : 30m	-	A960 A956W	A9GT-50WBUSS	A9GT-BUSSU									
	Within 33m			-			A8GT-C□EXSS-1 *4	'			A9GT-BUS2SU									
		Cable 0 *1	Cable 1				100 : 10.6m 200 : 20.6m	6"	A956		A9GT-BUSSU	1								
		Max.3m	Max.30m	─			300 : 30.6m	"	7,550	_	A9GT-BUS2SU									
		.	Max.33m					-	A951 *3		_	_								
		-		2272			A1SC□B		A985(-V)	A9GT-BUS2S	A9GT-BUS2SU	A1SC□B	12"	A985(-V)	A9GT-BUSS	A9GT-BUSSU				
		GOT1		GOT2			07 : 0.7m 12 : 1.2m	10"				07 : 0.7m 12 : 1.2m			A9GT-BUS2S	A9GT-BUS2SU				
		*5					30 : 3m	9"	A960 A956W		A9GT-BUS2SU	30 : 3m 50 : 5m	9"		A9GT-50WBUSS	A9GT-BUSSU	+			
	Within 3m							6"		_	7.001 500200	A8GT-C□BS 100:10m	'		7.001 00112000	A9GT-BUS2SU				
		Cable 1 1	Cable 2									200 : 20m	6"	A956		A9GT-BUSSU	+			
		✓ Max.3m	Max.30m Max.33m	→								300 : 30m			_	A9GT-BUS2SU				
2 units		\	Max.55III	→									-	A951 *3	_	_				
2 driito							A8GT-C□EXSS 100:10m		A985(-V)	A9GT-BUS2S	A9GT-BUS2SU	A1SC□B 07:0.7m			A9GT-BUSS	A9GT-BUSSU				
			GOT1 GOT2				200 : 20m 300 : 30m	10" 9"		1		12 : 1.2m 30 : 3m	9"		A9GT-BUS2S	A9GT-BUS2SU				
		5.7						7"	A956W	_	A9GT-BUS2SU	50 : 5m			A9GT-50WBUSS		1			
	More than 3m						A8GT-C□EXSS-1 *4 100 : 10.6m	6"	A956			A8GT-C□BS 100:10m				A9GT-BUS2SU				
		Cable 1 1	Cable 2				200 : 20.6m 300 : 30.6m					200 : 20m	6"	A956		A9GT-BUSSU	1			
			Max.30m				300 : 30:011								_	A9GT-BUS2SU				
							1100ED	401	A005() 0	ACCT DUICOC	ACCT DUIGOOU	1100ED		A951 *3			1100ED	1011 1005/	VA ASST BUILDS	ACCT DUCCU
		GOT1	GOT2	GOT3			A1SC□B 07 : 0.7m	10"	A985(-V) A97□	A9GT-BUS2S	A9GT-BUS2SU	A1SC□B 07 : 0.7m	10"		A9GT-BUS2S	A9GT-BUS2SU	A1SC□B 07 : 0.7m	12" A985(10" A97□	-V) A9GT-BUSS A9GT-BUS2S	A9GT-BUSSU A9GT-BUS2SU
		-5					12 : 1.2m 30 : 3m	9"	A960			12 : 1.2m 30 : 3m	9"	A960			12 : 1.2m 30 : 3m	9" A960		
3 units	Within 3m								A956W	_	A9GT-BUS2SU	50 : 5m A8GT-C□BS		A956W	_	A9GT-BUS2SU	50 : 5m A8GT-C□BS	7" A956V	V A9GT-50WBUS	A9GT-BUSSU A9GT-BUS2SU
*6	VVIUIIII SIII	Cable 1 *1	Cable 2 Cab	ole 3				6"	A900	_		100 : 10m	6"	A95b	_		100 : 10m			
		Max.3m	, Max.30m									200 : 20m 300 : 30m					200 : 20m 300 : 30m	6" A956	_	A9GT-BUSSU A9GT-BUS2SU
			Max.33m															A951		— —
			•	<u></u>								*1: When	using extension	n base unit(s)), make sure that the total	al length of the main cabl	e and *5: Use the A168	B extension base uni		
												exten	sion cables (be	etween base u	units) is within 3m. SC□B is A1SC07B.		*6: Only the A17:	3UHCPU(-S1) is appli		n cable length (between
												*3: No co	ommunication in	nterface is req	uired.		base units) is	within 3m, and the to	tal length of all cables is wit	nin 33m.
												*4: Use th	ne value of the	A&G1-C∐EXS	so to calculate the cable	length of the A8GT-C□E	X55-1.			

GT

Options

A956WGOT A95□GOT

A960GOT

Notes for bus connection

■When using Q CPU (Q mode)

Only Q CPU (Q mode) supports bus connection, but Q CPU (A mode) does not. GOT is recognized as an intelligent communication module by QCPU (Q mode), requiring 16 I/O points. GOT cannot be connected anywhere between the base unit

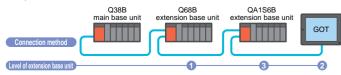
GOT should be connected to the last of the extension base units and be included within the maximum allowable number of extension base units.

In addition, GOT needs to be assigned to I/O slots of the last extension base unit, but not to the base unit.

It occupies one full extension base (16 points X 10 slots), thus cannot share the same extension base unit with others. However, it can be shared with other GOTs. Although GOT is usually connected to the last of extension base unit, it is assigned as the second from the last when extension base QA1S6□B is used, with QA1S6□B being the last extension base unit. (See the diagram below.)

If 10 slots cannot be left open for GOT, the number of slots can be reduced by using GX Developer.

Up to 5 GOTs can be connected.



■ When using QnA/ACPU/A series motion controller

GOT is recognized as an intelligent communication module by QnA/ACPU/A series motion controller, requiring 32 I/O points. GOT cannot be connected anywhere between the base unit and extension base unit.

GOT should be connected to the last of the extension bases and be included within the maximum allowable number of extension base units. In addition, GOT needs to be assigned to one slot of the extension base, but not to the base unit. The extension base unit cannot share with I/O module, special function module, or the kind. <For Q4A(R)CPU, Q3ACPU, A3□CPU, A4UCPU>

When maximum number of the extension base units (7 base units) is connected, vacant slots are necessary. <For A0J2HCPU>

GOT is assigned as follows:

Number of extension base units: 1, I/O slots: 0 to 3

GOT can be connected within the range of I/O points even if maximum extension base units (2 or 3) are installed and there is not vacant slot.

i.e. ACPU (small type) Number of extension base units: 2, I/O slots: 0

• Restrictions on the number of GOTs that can be connected

•Restrictions on the number of GOTs that can be connected depends on the PLC CPU and the number of special function module to be installed

	wiin(it), wiino(ii)oi o		Allo, AllA, A203, A203HGF0	CF US HUL SHOWH OH THE IEIL
Number of GOTs that can be connected	Up to 3 units		Up to 3 units	Up to 2 units
GOT + number of special function	No limit when GOT + special function units as sh	nown in *4	Up to 6 units when GOT special	Up to 2 units when GOT special
units to be installed	Up to 6 units when GOT special function units as	shown in *5	function units as shown in *5	function units as shown in *5
	A0J2HCPU	A 4 7 0 L II L /	A series Motion controller	A series Motion controller

Number of GOTs that can be connected Up to 1 units Up to 3 units Up to 2 units GOT + number of special function Up to 2 units when GOT special Up to 6 units when GOT special Up to 2 units when GOT special units to be installed function units as shown in *5 function units as shown in * function units as shown in

The special function unit with the following models are shown.

AD51(S3), AD51H(S3), AD51FD(S3), AD57G(S3), AJ71C21(S1), AJ71C22(S1), AJ71C23, AJ71C24(S3/S6/S8), AJ71E71(-S3), AJ71UC24, A1SJ71C24(-R2/PRF/R4), A1SJ71UC24, A1SJ71E71-B2/B5(-S3), AJ61BT11, A1SJ61BT11

Sales &

service network

products

for use

for each model model list

P.50 ~ P.52 ~ P.54 ~ P.56 ~ P.58 P.59 ~ P.62 ~

■ Notes for when power is switched on

Make sure to power on the PLC CPU and GOT as instructed below. When multiple GOTs are connected, they may be powered on in any sequence. <For the Q/QnA/ACPU/A series motion controller (Except the Q4ARCPU)>

(a) Switch the power on of the PLC CPU and GOT simultaneously.

(b) Switch the power on of the PLC CPU first, then GOT.

When multiple GOTs are connected, the PLC CPU starts to run when all the GOTs powers are switched on.

<For the Q4ARCPU>

Power on the GOT first. Then, switch the power on of the Q4ARCPU redundancy system after 1 or 2 seconds.

When multiple GOTs are connected, switch the power on of all GOTs first. Then, power on the Q4ARCPU redundancy system after 1 or 2 seconds.

■ Notes for system configuration For bus connection, the PLC power unit supplies the amount of current equivalent to that consumed by the connected GOTs.

When calculating the current consumption, make sure to include the current to be consumed by the GOTs. Note that the current consumption must not exceed the amount of the current supplied by the PLC power supply unit. The following shows the current consumed by one GOT.

•When connected to the QCPU (Q mode): 255mA per GOT

•When connected to other than QCPU (Q mode): 220mA per GOT

The special function unit with the following model is shown. AJ71QC24(R2/R4)



Special report Special report Special report Features and GT
New drawing software FA integrated functions Gateway functions recommended points SoftGOT2

Specifications

Large size

A956WGOT A95□GOT

GT

Options

A970GOT A960GOT

A975GOT A970GOT

A985GOT-V A985GOT

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series

General specification

Concept

Lineup

				Specifi	ication						
Itei	m	A985GOT-TBA(-V), A9750 A970GOT-SBA, A970	GOT-TBA-B, A970GOT-T GOT-LBA, A960GOT-EE			TBD(-V), A975GOT-TBD OT-SBD, A970GOT-LBI					
Operating ambient	Display		0 to 40 °C (A975/A	1970GOT-	TBA-B / TBD(-I	B): 0 to 50 °C)					
temperature	Other than display	0 to 55°C									
Storage ambier	nt temperature	-20 to 60°C									
Operating/storage	ambient humidity	10 to 90% RH, no condensing									
			Frequency	Acc	eleration	Amplitude	Sweep count				
Vibration Based on		If intermittent vibration occurs	10 to 57Hz		_	0.075mm	40 times in each				
	JIS B 3502,	ir intermittent vibration occurs	57 to 150Hz	9.	8m/s ²	_	10 times in each				
resistance	IEC61131-2	If continuous vibration occurs	10 to 57Hz		_	0.035mm	of X, Y, and Z directions (80 minutes)				
		ii continuous vibration occurs	57 to 150Hz	4.	.9m/s ²	_	directions (ou minutes)				
Impact resistan	ce	Based on JIS B 3502, IEC 61131-2 (147 m/s², 3 times in X, Y and Z directions)									
Operating atmo	sphere	No corrosive gas									
Altitude		2000 m or less									
Overvoltage cat	tegory	II or lower									
Contamination				2 or	less						
Noise resistance	e	By noise simulation wit	h noise voltage 1,500 Vp	-p,	By nois	se simulation with noise	voltage 500 Vp-p,				
		•	noise frequency 25 to 60			ridth 1 μs, and noise freq	•				
Dielectric Withs		Apply 1500VAC to between AC ex	<u> </u>		,	<u> </u>	and ground for one minute.				
Insulation resist	tance		10 MΩ or highe	r with an ir	nsulation resist	ance tester					
Grounding		D class ground (class 3 ground) If it cannot be grounded, connect it to the panel.									

Main unit

	Item			Spec	cification							
	item	A985GOT-TBA/TBD(-V)	A975GOT-TBA/TBD-B	A970GOT-TBA/TBD-B	A970GOT-SBA/SBD	A970GOT-LBA/LBD	A960GOT-EBA/EBD					
	Туре	High-intensity TFT color LCD	High-intensity	TFT color LCD	D-STN color LCD	D-STN monochrome LCD	High-intensity EL					
Display	Resolution(dot)	800 x 600		640	x 480		640 x 400					
Display	Display size(mm)	246 x 184.5		211	x 158		192 x 120					
	Display color(color)	25	56	16	8	2 (black and white)	2 (yellowish orange and black)					
Backlight		Col	d cathode tube backli	ght (Backlight OFF/scre	een save time can be s	set.)						
	Number of touch keys (points)	1900 (38 lines x 50 columns)		1200 (30 lines x 40 columns)								
Touch	Key size	Minimum 16 x 16 (one key)	Minimum 16 x 16 (one key)									
panel	(Dot)	(Bottom line only 8 x 16)										
	Repeat function	None										
Buzzer o	utput	Single tone (tone can be adjusted.)										
Environmental	resistant protection structure	IP67F or equivalent (front) ⁻¹										
	Туре	Flash ROM										
Memory	Applications			Monitor screen data	storage, OS storage							
Capacity			Internal	1M bytes (user area).	It can be upgraded to	9M bytes.						
Cooling method				Self o	cooling							
Weight (g)	2500	17	700	18	300	1600					

Life

	Item		Specification Specific Specifi											
	item	A985GOT-TBA/TBD(-V)	A975GOT-TBA/TBD-B	A970GOT-TBA/TBD-B	A970GOT-SBA/SBD A970GOT-LBA/LBD	A960GOT-EBA/EBD								
	Display (h)*2*3	50,000	41,	30,000										
	Display (fi) - 9		(Operating ambient temperature:25°C, initial intensity 70%)											
	Backlight (h)													
Life		Time for												
	Touch key		rce 0.98 N or less)											
	Internal memory		Numl	per of writes: 100,000	times									
	Expansion memory													

Main unit (Power supply)

		Specification									
1	ltem	A985GOT-TBA(-V), A975GOT-TBA-B	, A970GOT-TBA-B,	A985GOT-TBD(-V), A975GOT-TBD-B, A970GOT-TBD-B,							
Innut nave	r aummhu valta na	A970GOT-SBA, A970GOT-LBA, A		A970GOT-SBD, A970GOT-LBD, A960GOT-EBD							
	r supply voltage	100 to 240VAC (+10%, -	15%)	24VDC (+25%, -20%)							
Input freque	ency [Hz]	50 / 60 3Hz		_							
Input maxim	um	Bus/RS-422/RS-232C connection Oth	er than on the left								
voltampere	100VAC	50VA or less (61VA or less for A985GOT-V) 60VA or less	s (71VA or less for A985GOT-V)	-							
	200VAC	63VA or less (76VA or less for A985GOT-V) 75VA or less	s (88VA or less for A985GOT-V)								
Power cons	sumption	_		40W							
Rush curre	nt	40A or less (264VAC, maxim	num load)	61A or less (30VDC, maximum load)							
Permissible inst	antaneous failure time	20ms (100VAC or mo	re)	1ms (19.2VDC or more)							
RUN/OUTF	PUT pin		Transistor output 12/2	/24VDC, 0.1A, 1 point							

- *1: Equivalent to IP65F depending on the hardware version of the GOT main unit. Refer to the technical news for details.
- *2: The screen save/backlight OFF function helps prevent monitor from burn-in and extend backlight life.
- *3: On the liquid crystal panel, bright dots (dots normally lit) and dark dots (dots not lit) occurs as its characteristic. Therefore it is impossible to completely prevent bright and dark dots from occurring since there are many display elements on the panel. Note that the occurrence of bright and dark dots is not a product fault or failure but a characteristic.



Specifications

for use

products

Function list Connectable for each model model list

Medium size

series

Note: For the A95 handy GOT, see the GOT-F900 FAMILY Catalog (HIME-B-183).

General specification

GOT

li.e.		Specification										
Iter	n	A956WGOT-	ΓBD, A95□GOT-(Q)TBD	(-M3), A95□GOT-(Q)SB	D(-M3), A95□GOT-(Q)L	BD(-M3)						
Operating ambient	Display		0 to 40°0	C(0 to 55°C for A956WG	OT)							
temperature	Other than display	0 to 55°C										
Storage ambien	t temperature	-20 to 60°C										
Operating/storage	ambient humidity		10 to 90% RH, no condensing									
			Frequency	Acceleration	Amplitude	Sweep count						
Vibration	Based on	If intermittent vibration occurs	10 to 57Hz		0.075mm	10 times in each						
resistance JIS B 3502,		memilient vibration occurs	57 to 150Hz	9.8m/s ²	_	of X, Y, and Z						
resistance	IEC61131-2	If continuous vibration occurs	10 to 57Hz		0.035mm	directions (80 minutes)						
		II continuous vibration occurs	57 to 150Hz	4.9m/s ²	_	directions (80 minutes)						
Impact resistant	ce	Based on JIS B 3502, IEC 61131-2 (147 m/s², 3 times in X, Y and Z directions)										
Operating atmo	sphere	No corrosive gas										
Altitude		2000 m or less										
Overvoltage cat	tegory			II or lower								
Contamination				2 or less								
Naina rasistana			By noise simul	lation with noise voltage	500 Vp-p,							
Noise resistance			noise width 1 μ	s, and noise frequency 2	5 to 60 Hz							
Dielectric Withs	tand Voltage	A	pply 500VAC to betweer	n DC external pins and gr	ound for one minute.							
Insulation resist	ance	$10~M\Omega$ or higher with an insulation resistance tester										
Grounding		D clas	s ground (class 3 ground	d) If it cannot be grounde	ed, connect it to the pane	l.						

Main unit

	Cinc									
	Item		Specifi	cation						
	item	A956WGOT-TBD	A95□GOT-(Q)TBD(-M3)	A95□GOT-(Q)SBD(-M3)	2 (black and white) et.) 5□GOT-(Q)□BD-M3 Internal 3M bytes (user area)				
	Туре	High-intensity	TFT color LCD	STN col	or LCD	STN monochrome LCD				
Display	Resolution(dot)	480 x 234		320 x 240						
Display	Display size(mm)	155.52 x 87.75		115	x 86					
	Display color(color)	25	56	8		2 (black and white)				
Backlight		Col	d cathode tube backlight (Backligh	nt OFF/screen sa	ve time can be s					
Touch	Number of touch keys (points)	450 (15 lines x 30 columns)	umns) 300 (15 lines x 20 columns)							
panel	Key size(Dot)	Minimum 16x16 (one key)(Bottom line only 10x16)	Minimum 16 x 16 (one key)							
pariei	Repeat function		None							
Buzzer o	utput		Single tone (tone	can be adjusted.)					
Environmental	resistant protection structure		IP65F or equiv	/alent (front)*1						
	Туре		Flash	ROM						
	Applications		Monitor screen data	storage, OS stora	age					
Memory		Internal 1M bytes	A95□GOT-(Q)□BI)	A9:	5□GOT-(Q)□BD-M3				
	Capacity	(user area).	Internal 1M bytes		320 x 240 115 x 86 8 2 (black and white) DFF/screen save time can be set.) 300 (15 lines x 20 columns) Minimum 16 x 16 (one key) In be adjusted.) ent (front)*1 DM prage, OS storage A95□GOT-(Q)□BD-M3 Internal 3M bytes (user area)					
		It can be increased up to 9M bytes.	(user area)	(user area)						
Cooling n	nethod		Self co	ooling						
Weight (g	1)	1050	710		67	70				

Life

	Item		Specif	ication						
iteiii		A956WGOT-TBD	A956WGOT-TBD A95□GOT-(Q)TBD(-M3) A95□GOT-(Q)SBD(-M3)							
	Display (h)*2*3		50,000 (Operating amb	ient temperature:25°C)						
	Backlight (h)	50,	000	40,	40,000					
Life	Dacklight (II)	Time for display intensity to become 50% at operating ambient temperature of 25°C								
LIIC	Touch key	1,000,000 times or more (Operation force 0.98 N or less)								
	Internal memory		Number of writes	s: 100,000 times						
	Expansion memory		Number of writes	s: 100,000 times						

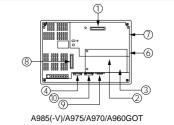
Main unit (Power supply)

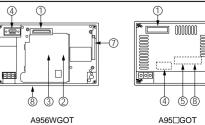
Item		Specification								
Item	A956WGOT-TBD	A956GOT-□BD(-M3)								
Input power supply voltage		24VDC(+10%, -15%)								
Power consumption	22W	12W	16W							
Rush current		40 A or less (30VDC, maximum load)								
Permissible instantaneous failure time		1ms (19.2VDC or more)								

External interface

⑤ Communication interface

- ① Communication unit interface ⑥ Audio output port (Except A950/A951/A953GOT) ② PC card interface unit
- 3 Memory board interface ④ RS-232C interface (Except A985GOT-V)
- 2) Communication board interface (8) Optional unit interface Printer interface (1) Analog RGB output interface (A985GOT only) RS-232C interface (A985GOT-V only)







Special report

Special report

External dimensions

A985GOT-V A985GOT

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GT

recommended points SoftGOT2

series

GOT main unit

Concept

Lineup

A985GOT(-V), A97□GOT(-B), A960GOT, A956WGOT, A95□GOT(-M3)

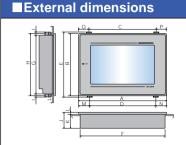
A975GOT A970GOT

Note: For the A95□handy GOT, see the GOT-F900 FAMILY Catalog (HIME-B-183).

GT

Options

A956WGOT A95□GOT



															(Uni	t: mm]
GOT main unit type	Α	В	С	D	Е	F	G	Н		J	K	L	M	N	0	Р
A985GOT(-V)	312	238	245	245	247	301	227	237	10	49	43	6	33.5	33.5	33.5	33.5
A975/970GOT(-B)	297	208	235	229	219	288	199	209	10	46	40	6	34	34	31	31
A960GOT	268	192	204	198	202	257	182	192	10	49	43	6	35	35	32	32
A956WGOT	215	133	168	168	143	205	123	133	10	70.8	65.8	5	23.5	23.5	23.5	23.5
A95□GOT-(Q)TBD(-M3)	164.5	136	125.5	130.1	143	155.5	123	133	10	65	59	6	14.9	19.5	19.5	19.5
A95□GOT-(Q)SBD/LBD(-M3)	164.5	136	125.5	130.1	143	155.5	123	133	10	57	51	6	14.9	19.5	19.5	19.5

■Panel cut dimensions A +1 (Unit: mm) A985GOT(-V) 302 228 A975/970GOT(-B) 289 200 Panel opening A960GOT 258 183 A956WGOT 205.5 123.5 A95□GOT(-M3) 156 123.5

■Product installation interval When a GOT is installed, the spaces must be provided between other equipment as shown below. GOT main unit type + co A985GOT(-V) + communication board 140mm or more A975/970GOT(-B) + communication board 130mm or more A960GOT + communication board 140mm or more A985GOT(-V)/A960GOT + A9GT-BUSSU/(Q)BUS2SU 30mm or more A975/970GOT(-B) + A9GT-BUSSU/(Q)BUS2SU 15mm or more A956WGOT/A956GOT(-M3) 130mm or more When MELSECNET fiber-optic cable is used: 165mm or more) A950/951(-Q)/953GOT(-M3) 130mm or more

- •Dimension of part A:Leave the space required for connection cable's routing radius shown on the table above.
- Dimension at part B: When a memory card or audio output is used, leave 100 mm or more clearance for connecting cables and install/remove memory cards. (Otherwise, 50 mm or more is required.)
- •Dimension at part C:Leave a minimum of 80 mm or more clearance above the unit to ensure proper ventilation.
- Dimension at part D:Leave 100 mm or more for back and 50 mm or more for each side clearance to provide proper ventilation and prevent noise from interfering when equipment, which generates much radiation noise, is nearby.
- * Install the GOT at ambient temperature of 55 °C or less

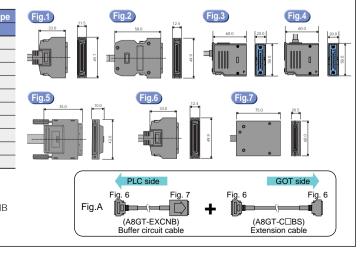
Bus connection cable

■ External dimensions

Bus connection cable and connector

GOT side A1SC□B Fig. 1 Fig. 1 A8GT-C□BS 9 Fig. 6 Fig. 6 A8GT-C□EXSS 8 Fig. 1 Fig. 2 A8GT-C□EXSS-1 9 Fig. 6 Fig. 6 A8GT-C□NB 8 Fig. 1 Fig. 3 A9GT-QC□BS 10 Fig. 5 Fig. 5 AC□B 17 Fig. 3 Fig. 3

- AC□B-R Fig. 4 Fig. 4 17 QC□B 10 Fig. 5 Fig. 5 A8GT-EXCNB 9 Fig. 7 Fig. 6
- *The A8GT-CDEXSS/CDBS cable has a grounding wire (1 m). Be sure to connect the wire to the control panel.
- *2: The A8GT-C□EXSS-1 is a set product consisting of the A8GT-EXCNB and A8GT-C□BS. (See Fig. A)



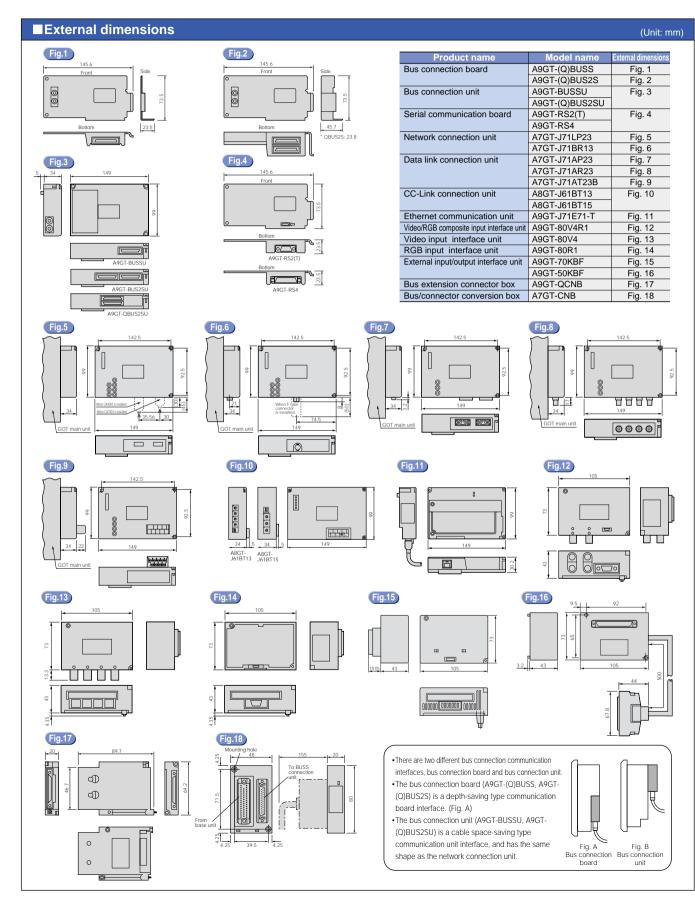
Communication unit

for each model model list

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for use

products



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Category	Function details	Memory board	Extended function	Related icons	Pages	GT		185		7□	A960	A956W
		Doard	OS	icons						A970GOT	A960GOT	_
Connection configuration	Bus connection CPU direct connection					•*1	•	•	•	•	•	•
configuration	Computer link connection				D 0.4		•	•		•	•	
	Ethernet connection			Various connection	P.34 P.38		•	•	•	•	•	•
	CC-Link connection			configurations	~P.49		•	•	•	•	•	•
	MELSECNET connection					•	•	•	•	•	•	•
	Microcomputer connection						•	•	•	•	•	•
Max. user	32MB					•						
memory	9MB (Main unit internal memory 1M + expansion memory max.8M)	Required					•	•	•	•	•	•
capacity	3MB											
Dianlay	1MB			250								
Display colors	256 colors			256 colors display	P.34	•	•	•	•			•
COIOIS	16 colors			(display)						•		
	8 colors									•		
	Monochrome (black and white)									•		
	Monochrome (black and yellowish orange)										•	
Resolution	1280 x 1024 dots					•						
	1024 x 768 dots					•						
	800 x 600 dots					•	•	•				
	640 x 480 dots					•			•	•		
	640 x 400 dots										•	•
	480 x 234 dots 320 x 240 dots											•
Number of	Number of touch keys					5120	1900	1900	1200	1200	1000	450
touch keys	(line, row)								1	(30 x 40)		
External	Communication board interface or communication unit interface						•	•	•	•	•	•
interface	RS-232C interface (Screen data upload/download/barcode reader/servo amplifier)						•	•	•	•	•	•
	Memory board interface						•	•	•	•	•	•
	PC card interface				P.51		•	•	•	•	•	•*7
	Audio output port				1.01		•	•	•	•	•	
	Printer interface						•	•	•	•	•	•*
	Analog RGB output interface (SVGA) Optional unit interface						•	•	•	•	•	•
Features/	OS installation	_					_	_	_	_	_	-
hardware	S lottaliation			OS installation	P.34		•	•	•	•	•	•
	OS/screen data transfer to PC card			installation	57		•	•	•	•	•	•
	Compact size			Compact	D.O.							
				size	P.34			•				•
	Audio output	Required	Required	Audio output	P.34		•	•	•	•	•	
	Printer output		Required	Printer output	P.34		•	•	•	•	•	•*9
	Human sensor			Human sensor	P.12 P.34		•	•				
	Analog RGB output			Analog RGB output	P.34			•				
	Analog RGB input		Domini I		P.19							
	Video input		Required	Analog RGB input	P.34		•					
	Video input		Required	Video input	P.19 P.34		•					
	Transparent			Transparent	P.34		•	•	•	•	•	•
	Barcode reader input		Required	Barcode reader	P.34		•	•	•	•	•	•
	External input/output		Required	External input/output interface	P.34			•	•	•	•	•
	Backlight replacement			Backlight replacement	P.34		•	•	•	•		
	Protection sheet			Protection sheet (IP67F)	P.34		•	•	•	•	•	•
	Attachment			(IP67F)	P.33					•	•	
Main unit	Gateway functions	D	D									
functions	Script	Required	Required	Gateway	P.10 P.14		•	•	•	•	•	•
				Script	P.14 P.35	•	•	•	•	•	•	•
	Multi-language			Multi- language	P.35	•	•	•	•	•	•	•
	Time action			Time action	P.35	•	•	•	•	•	•	•
	Display condition specification			Display condition specification	P.36	•	•	•	•	•	•	•
	Display switching			Display switching		•	•	•	•	•	•	•

Category	Function details	memory	function	Related	Pages	GT		985		7□	A960	A956W	A95□
		board	os	icons		SoftGOT2	A985GOT-V	A985GOT	A975GOT	A970GOT	A960GOT	A956WGOT	A95□GC
Main unit	Indirect specification (offset device)			Indirect specification (offset device)	P.36	•	•	•	•	•	•	•	•
	PC station number switching			PC station number switching	P.36	•	•	•	•	•	•	•	•
	Touch switch			A variety of touch	P.36	•	•	•	•	•	•	•	•
	Ni. annia diamina			switches		•							
	Numeric display ASCII display					•	•	•	•	•	•	•	•
	Numeric input					•				•	•	•	•
	ASCII input					•	•		•	•	•	•	
	Data list display							_					
				Data list	P.36	•	•	•	•	•	•	•	•
	Clock display					•	•	•	•	•	•	•	•
	Comment display		Doguizad			•	•	•	•	•	•	•	•
	Alarm history display		Required when stored as CSV file	Alarm history	P.35	•	•	•	•	•	•	•	•
	Alarm flow display			Alarm flow display	P.35	•	•	•	•	•	•	•	•
	Alarm list display			Alarm list	P.35	•	•	•	•	•	•	•	•
	Component display					•	•	•	•	•	•	•	•
	Component movement display					•	•	•	•	•	•	•	•
	Lamp display					•	•	•	•	•	•	•	•
	Trend graph					•	•	•	•	•	•	•	•
	Line graph					•	•	•	•	•	•	•	•
	Locus chart display					•	•	•	•	•	•	•	
	Scatter graph					•	•	•	•	•	•	•	•
	Bar graph					•	•	•	•	•	•	•	
	Statistical graph					•	•	•	•	•	•	•	•
						•	•	•	•	•	•	•	•
	Level display					•	•	•	•	•	•	•	•
	Superimposed window display						•			•	•	•	•
	Overlap window display					_	•	_	_	_	•		_
	Screen reading			Screen call	P.36	•	•	•	•	•	•	•	•
	System information					•	•	•	•	•	•	•	•
	Status monitor			Status monitor	P.36	•	•	•	•	•	•	•	•
	Password (Security)			Security	P.35	•	•	•	•	•	•	•	•
	Recipe	Required *13	Required	Recipe	P.35	•	•	•	•	•	•	•	● *1:
Maintenance	Ladder monitor *14		Required	Ladder monitor	P.8	*15	•	•	•	•	•	• *11	
unctions	(including cause search function/ touch search function)	<u> </u>			P.36								
	List program edit	Required	Required	List program edit	P.37	*15	•	•	•	•	•	•	● *1
	System monitor		Required	System monitor	P.36	*15	•	•	•	•	•	•	•
	Special module monitor	Required	Required	Special module monitor	P.9 P.37	*15	•	•	•	•	•		
	Network monitor	Required	Required	Network monitor	P.37	*15	•	•	•	•	•	•	● *1
	Motion monitor	Required	Required	Motion monitor	P.9 P.37	*15	•	•	•	•	•	•	• *1
	Servo amplifier monitor	Required	Required	Servo amplifier monitor	P.9 P.37	*15	•	•	•	•	•	•	• *1
Drawing	GT Works 2				P.30	•	•	•	•	•	•	•	•
oftware	GT Designer 2				P.6, 30	•	•	•	•	•	•	•	
rawing	Simulation debugging				P.0, 30								
oftware				Simulation debugging	P.31 P.37	•	•	•	•	•	•	•	•
unctions	Device monitor			Device monitor	P.37	•	•	•	•	•	•	•	•
	Documentation assistance			Documentation assistance	P.37	•	•	•	•	•	•	•	•
	GX Developer device comment read					•	•	•	•	•	•	•	•
	Use of other software data			Data conversion	P.37	•	•	•	•	•	•	•	•
	Use of conventional display/												
						•	•	•	•	•	•	•	•
	drawing software data												

Notes for use

Function list for each model model list

P.34 ~ P.38 ~ P.42 ~ P.50 ~ P.52 ~ P.54 ~ P.56 ~ P.58 P.59 ~ P.62 ~

List of Sales & service network

Function list for each model

Options

^{*2:} A951GOT(-Q) only

*3: A950/A953GOT only

*4: A956GOT only

*5: A95□GOT-TBD only

*6: The type of the built-in interface varies depending on the model. See page 28 for details.

^{*8:} Except A95LIGOT-TBD

*9: The A9GT-50PRF printer interface unit (option) is required.

*10: The A1SD59J-MIF PC card interface unit (option) is required.

*11: Only when connected with MELSEC-Q series CPU (Q mode)

*12: A95□GOT-M3 only

*13: The expansion memory board is not required for GT SoftGOT2.

depending on the PLC CPU when ladder monitor is performed.

MELSEC-Q series CPU (Q mode)/Q/nACPU ··· A9GT-QFNB(□M)

MELSEC-Q series CPU (Q mode)/Q/0nA/A/

A series motion controller /FXCPU ··· A9GT-FNB(□M)

*15: Enabled by dedicated software.

External Function list dimensions for each model model list for use Special report Special report Special report New drawing software FA integrated functions Gateway functions Gateway functions Special report FA integrated functions Gateway functions Gateway functions Resource FA integrated FA integrated functions Resource FA integrated FA A970GOT A960GOT A956WGOT A95□GOT GT Works2 GOT Connection Bus List of Connectable model list dictionary configuration connection Specifications Options Concept Lineup service network products P.2 ~ P.4 ~ P.6 ~ P.8 ~ P.10 ~ P.12 ~ P.16 ~ P.18 ~ P.20 ~ P.22 ~ P.24 ~ P.26 ~ P.28 ~ P.30 ~ P.32 ~ P.34 ~ P.38 ~ P.42 ~ P.50 ~ P.52 ~ P.54 ~ P.56 ~ P.58 P.59 ~ P.62 ~



Connectable model list

series

Mitsubishi PLCs/motion controllers

			AGOT(A985(-V)/A97□/A960/A956W/A95□GOT)									SoftGOT(GT SoftGOT2)								
Series	Model name					ction config							onnection	configuration						
	*1		CPU direct connection	Computer link connection*19	Ethernet connection*19	MELSECNET /10 *1, 2	MELSECNET /B, II *1	CC-Link (ID) *5	CC-Link (RD) *5	CC-Link (via G4)*5	CPU direct connection	Computer link connection*19	Ethernet connection 19	MELSECNET /H	MELSECNET /10	Q bus connection 16				
MELSEC-	Q00JCPU Q00CPU	0*8	O *21	0	0	O*3, 4		0	0	0						O *20				
Q series (Q mode)	Q01CPU	0	0 21	0		0 3, 4	×									0 20				
(,	Q02CPU 6										1									
	Q02HCPU *6 Q06HCPU *6	0	0	0	0	O *3	×	0	0	0				0		O*17				
	Q12HCPU 6						_ ^				0	0	0		0	0				
	Q25HCPU 6																			
	Q12PHCPU Q25PHCPU	0	0	0	0	0.3	×	0	0	0						0				
MELSEC-	Q02CPU-A																			
Q series (A mode)	Q02HCPU-A Q06HCPU-A	×	0	0	0	0	0	0	0	0				×		×				
MELSEC-	Q2ACPU																			
QnA series	Q2ACPU-S1																			
(large type)	Q2AHCPU Q2AHCPU-S1	0																		
	Q3ACPU					0						_		.,						
	Q4ACPU Q4ARCPU	0 *9	0	0	0	O *3	0	0	0	×	0	0	0	×	0					
MELSEC-	Q2ASCPU																			
QnA series (small type)	Q2ASCPU-S1 Q2ASHCPU	0																		
	Q2ASHCPU-S1																			
MELSEC-	A2UCPU																			
A series (large type)	A2UCPU-S1 A3UCPU																			
(idigo typo)	A4UCPU		0								0	0	0		0					
	A2ACPU A2ACPU-S1	0		0	0	0	0	0	0	×				×						
	A3ACPU									_ ^				_ ^						
	A1NCPU																			
	A2NCPU A2NCPU-S1		0.7								O*18	O*18	O*18		O*18					
	A3NCPU																			
MELSEC- A series	A2USCPU A2USCPU-S1																			
(small type)	A2USHCPU-S1		0	0		0	0	0			0	0	0		0					
	A1SCPU											0		_	×					
	A1SCPUC24-R2 A1SHCPU	0									X		X		ô					
	A2SCPU		0.7	0.7	0	0.7	0.7	0.7	0	×	O*18	O*18	O*18	×	O*18					
	A2SCPU-S1 A2SHCPU						-					-	-	-						
	A2SHCPU-S1																			
	A1SJCPU A1SJCPU-S3	O *10	0	0		0	0	0			0	0	0		0					
	A1SJHCPU															×				
MELSEC- A series	A0J2HCPU A2CCPU	0	0.7	O X	0		0	0	0		O*18	O*18 X	O*18	-						
A selles	A2CCPUC24	×		ô	×	×	×	×	×	×		ô	×	×	×					
	A2CJCPU A1FXCPU	_ ^	0	×	1 ^		_ ^	_ ^	_ ^		0	×	_ ^							
Motion controller	Q172CPU *11 Q173CPU *11	O*12	O*12	O*13	O*13			O*13		O*13										
CPU	Q172CPUN *11	O *14	O*14	O*14	O*14	×	×	O*14	×	O*14	×	×	×	×	×					
(Q series) Motion	Q173CPUN *11 A273UCPU										×	×	×		X					
controller	A273UHCPU										0	0	0		0					
CPU (A series)	A273UHCPU-S3 A373UCPU	0									\vdash									
(large type)	A373UCPU-S3										×	×	×		×					
Motion controller	A171SCPU A171SCPU-S3																			
CPU	A171SCPU-S3N		0	0	0	0	0	0	0	×				×						
(A series)	A171SHCPU																			
(small type)	A171SHCPUN A172SHCPU	O *15									0	0	0		0					
	A172SHCPUN																			
	A173UHCPU A173UHCPU-S1																			
MELSEC-	FX0 series																			
FX series	FX0S series																			
	FX0N series FX1 series																			
	FX1S series																			
	FX1N series FX1NC series	×	0	×	×	×	×	×	×	×	0	×	×	×	×					
	FX2 series																			
	FX2C series																			
	FX2N series																			

- FX2NC series
- *1: Cannot be connected to the remote I/O stations regardless of connection configuration.

 *2: Including the case where MELSECNET/H is used as NET/10 mode. Cannot be connected to the remote I/O net mode.

 3: The device range that can be monitored is the A3ACPU range. However, in the A3ACPU range, there is a device range that cannot be monitored. For details, refer to the "GOT-A900 Series User's Manual Compatible Connection System SH(NA)-080255-B.

 *4: For the functions that use the calendar and clock data (e.g., alarm history function and time action function), correct level display and progration may got be performed.
- *4: For the functions that use the calendar and clock data (e.g. alarm history function and time action function), correct clock display and operation may not be performed.

 *5: CC-Link (ID): CC-Link (Intelligent device station)
 CC-Link (RD): CC-Link (Remote device station)
 CC-Link (Rd): COR-Link (Remote device station)
 CC-Link (Rd): Concerted to a CC-Link system via AI65BT-G4-S3.

 *6: In a multiple CPU system, CPU function version B or later should be used.

 *7: Word specification (word device/word specification of bit device) cannot be written from the GOT to the CPUs of software versions earlier than the followings.

 A1NCPU/A2NCPU(-S1)/A3NCPU [with link]: Software version L

 A1NCPU/A2NCPU(-S1)/A3NCPU [with link]: Software version H.

- A1NCPU/A2NCPU(-S1)/A3NCPU [without link]: Software version H
- AT NCPURANCPU(S1)RAINCPU [without link]: Software version H
 A2CCPURASCPU(S1): Software version H
 A0J2HCPU: Software version E
 8: Cannot be used on the main base when a bus extension connector box is used. (Can be used on the extension base.)
 9: GOT should be connected to the A6BRB extension base of hardware version B or later in the last stage of the system. (Cannot be connected to the A3□RB main base.)
- : The GOT cannot be connected when an extension base is used.
- Only the OS series motion controller CPU where the peripheral software package SV13 or SV22 is installed can be connected. The OCPU (D mode) (CPU function version B or later) is also required. (Multiple CPU configuration) When using the OOOCPU or OO1CPU (function version B or later), the following OS versions should be used.
 - Application
 Q173CPU(N)
 Q172CPU(N)
 Version

 For transfer/assembly (SV13)
 SW6RN-SV13QB
 SW6RN-SV13QD
 00M or later

 For automatic machine (SV22)
 SW6RN-SV22QA
 SW6RN-SV22QC
 00M or later

- 12: Available OS versions:

- : Available OS versions:
- Peripheral software package OS version: 00H or later
- Peripheral software package CVS version: 0UH of later

 15: Use the A168B when using an extension base.

 16: Can be used only when GT SoftGOT2 is connected using the PC CPU unit. Use the PC CPU unit of PC setting utility Ver 1.02 or later.

 17: For Q bus connection, use the QCPU with first 5 digits of serial No. of "03051" or later.

 18: Use the CPU of the following software version.

 The CPU versions earlier than the followings version cannot be used.

 A1NCPUIA2NCPU(\$1)(A3NCPU [with link]: Software version L or later

 A1NCPUIA2NCPU(\$1)(A3NCPU [with link]: Software version L or later

- A1NCPU/A2NCPU(-S1)/A3NCPU [without link]: Software version H or later ATNCPU/AZICPU'S JI/JASICPU plurioui illing: Soriware version F A2CCPU; Software version H or later A2SCPU(-S1): Software version C or later A0JSHCPU: Software version E or later : Refer to page 57 'Other manufactures' PLCs/motion controllers'.
- 0: Use the CPU function version B or later.
- *21: Cannot be connected with Q00CPU, and Q01CPU via RS232 serial communication using the interface unit.

Modules that can be connected with Mitsubishi PLC

• Serial communication module / computer link module

				On trainable / inter a raina		
CPU series	Model	CH1	CH2	AGOT	SoftGOT*4	
MELSEC-Q series	QJ71C24 *2	RS-232C	RS-422/485	0	0	
(Q mode)	QJ71C24-R2 *2	RS-232C	RS-232C	0	0	
	QJ71CMO *5	Module connector	RS-232C	0	0	
MELSEC-Q series	A1SJ71UC24-R2	RS-232C	_	0	0	
(A mode)	A1SJ71UC24-R4	RS-422/485	-	0	×	
MELSEC-QnA series	AJ71QC24 *6	RS-232C	RS-422/485	0	0	
	AJ71QC24-R2 6	RS-232C	RS-232C	0	0	
	AJ71QC24-R4 6	RS-422	RS-422/485	0	×	
	AJ71QC24N 6	RS-232C	RS-422/485	0	0	
	AJ71QC24N-R2 6	RS-232C	RS-232C	0	0	
	AJ71QC24N-R4 6	RS-422	RS-422/485	0	×	
	A1SJ71QC24 6	RS-232C	RS-422/485	0	0	
	A1SJ71QC24-R2 6	RS-232C	RS-232C	0	0	
	A1SJ71QC24N 6	RS-232C	RS-422/485	0	0	
	A1SJ71QC24N-R2 6	RS-232C	RS-232C	0	0	
MELSEC-A series	AJ71UC24 *3 *6	RS-232C	RS-422/485	0	0	
Motion controller CPU	AJ71C24-S8 *6	RS-232C	RS-422	0	0	
(A mode)	A1SJ71UC24-R2 *3	RS-232C	_	0	0	
	A1SJ71UC24-R4 *3	RS-422/485	_	0	×	
	A1SJ71C24-R2 *3 *7	RS-232C	_	0	0	
	A1SJ71C24-R4 *3 *7	RS-422/485	_	0	×	
	A1SCPUC24-R2	RS-232C	_	0	0	
	A2CCPUC24 *6	RS-232C	RS-422/485	0	0	

- 1: RS-485 communication is not possible; therefore, J2-C214-S1 is not available.
 S1 is not available.
 With function version A, CH1 or CH2 can be connected. With function version B or later, both CH1 and CH2 can be connected.
 With necessary and CH2 can be connected.
 With function version B or later, both CH1 and CH2 can be connected.
 With a CH2 can be connected.
 With CH2

CPU series	Computer link modules	seriai communica	tion modules	O:Available >	<:Not available
CPU Series	Model	CH1	CH2	AGOT	SoftGOT*4
MELSEC-Q series	QJ71C24 *2	RS-232C	RS-422/485	0	0
(Q mode)	QJ71C24-R2 *2	RS-232C	RS-232C	0	0
	QJ71CMO *5	Module connector	RS-232C	0	0
MELSEC-Q series	A1SJ71UC24-R2	RS-232C	_	0	0
(A mode)	A1SJ71UC24-R4	RS-422/485	-	0	×
MELSEC-QnA series	AJ71QC24 *6	RS-232C	RS-422/485	0	0
	AJ71QC24-R2 6	RS-232C	RS-232C	0	0
	AJ71QC24-R4 6	RS-422	RS-422/485	0	×
	AJ71QC24N 6	RS-232C	RS-422/485	0	0
	AJ71QC24N-R2 6	RS-232C	RS-232C	0	0
	AJ71QC24N-R4 6	RS-422	RS-422/485	0	×
	A1SJ71QC24 6	RS-232C	RS-422/485	0	0
	A1SJ71QC24-R2 6	RS-232C	RS-232C	0	0
	A1SJ71QC24N 6	RS-232C	RS-422/485	0	0
	A1SJ71QC24N-R2 6	RS-232C	RS-232C	0	0
MELSEC-A series	AJ71UC24 *3 *6	RS-232C	RS-422/485	0	0
Motion controller CPU	AJ71C24-S8 6	RS-232C	RS-422	0	0
(A mode)	A1SJ71UC24-R2 *3	RS-232C	_	0	0
	A1SJ71UC24-R4 *3	RS-422/485	_	0	×
	A1SJ71C24-R2 *3 *7	RS-232C	_	0	0
	A1SJ71C24-R4 *3 *7	RS-422/485	_	0	×
	A1SCPUC24-R2	RS-232C	_	0	0
	ACCEPTION *6	DC 222C	DC 422/40E		

- *4: GOT2 can be connected via RS-232, but not via RS-422 communication.

 *5: Only CH2 can be connected.

 *6: Either CH1 or CH2 can be connected.

 *7: Computer link module/scrial communication. 6 RS-232C

 - Elinia CH1 of CH2 Carrier communication module operate within the range of An ACPU devices. (R device cannot be recognized.)

CDIIi	Ethernet module	O:Available >	<:Not available
CPU series	Model	AGOT *8	SoftGOT
MELSEC-Q series	QJ71E71	0	0
(Q mode)	QJ71E71-B2	0	0
	QJ71E71-100	0	0
MELSEC-QnA series	AJ71QE71	0	0
	AJ71QE71-B5	0	0
	AJ71QE71-B2	0	0
	AJ71QE71N-B5T	0	0
	AJ71QE71N-B2	0	0
	A1SJ71QE71-B5	0	0
	A1SJ71QE71N-B2	0	0
	A1SJ71QE71N-B5T	0	0
MELSEC-Q series	AJ71E71-S3	0	0
(A mode)	AJ71E71N-B2	0	0
MELSEC-A series	AJ71E71N-B5T	0	0
Motion controller CPU	A1SJ71E71-B2-S3	0	0
(A mode)	A1SJ71E71-B5-S3	0	0
	A1SJ71E71N-B2	0	0
	A1SJ71E71N-B5T	0	0

*8: When using Ethernet module which supports data transmission speed of 100Mbps connect with GOT after converting the data transmission speed to 10Mbps using a hub.

Other	manufac	cturers'	PLCs/m	otion co	ntrollers	9		
				Computer lin	nk connection	CPU direct	connection	
Sei	ries	CPU	Model	RS-422	RS-232	RS-422	RS-232	
OMRON PLC		C200HS						
0		C200H		- 0	0		×	
		C200Hα	C200HX			×	0	
		series	C200HG		0			
			C200HE			×	X	
		CQM1			×	×	0	
		C1000H			O		×	
		C2000H		RS-422 or RS-23	32 can be selected			
		CV500		-				
		CV1000 CV2000		-			0	
		CVZ000	01.104	- :	×	RS-422 or RS-23	32 can be selec	
		CVM1-CF		-				
		CVM1-CF		1				
		CS1		0	ΙΟ	X O		
				1 (5			
		CJ1		RS-422 or RS-23	32 can be selected	×	0	
SHARP PLC		JW-21CU						
		JW-31CU					X	
		JW-50CU						
		JW-22CU JW-32CUH		- 0	×			
				1 ~			0	
		JW-33CU JW-70CU		-		RS-422 or RS-23	32 can be selec	
		JW-100C		-				
YASKAWA EI	ectric PLC	GL60S	011				T	
	00110120	GL60H			0	×	X	
		GL70H		1	_			
		GL120		0	0	×	0	
		GL130						
YASKAWA EI		CP-92003		×	0	X	X	
motion control	ller	CP-9300f		_		×	0	
		MP-920/9	30	4				
		MP-940		×	×	0	0	
		PROGIC-				×	0	
		CP-9200						
TOSHIBA	PROSEC	T2 (PU22	4 type)	_			X	
PLC	T series	T2E		-		00 40000 0)	
		T2N T3		- ×	×	RS-422 or RS-23	32 can de seiec	
		T3H		+				
	PROSEC			1		0	×	
	V series	Model300	. ,					
Matsushita	DI O	FP0-C160					0	
Electric Works	PLC	FP0-C320		-	×			
		FP1-C240		-			0*1	
		FP1-C400		-			0	
		FP3		×		×		
		FP5		1 ^	0	_ ^	O*1	
		FP10 (S)		1			"	
		FP10SH						
		FP-M (C2	OTC)			1	0	

Seri	es	CPU Model	Computer iii			
			RS-422	RS-232	RS-422	RS-2
HITACHI PLC	Large size	H-302 (CPU2-03H)				
(HIDIC H series)	H series	H-702 (CPU2-07H)				
		H-1002 (CPU2-10H)				
		H-302 (CPU-06H)	,	_		
		H-2002 (CPU2-20H)				
		H-4010 (CPU3-40H)	RS-422 or RS-23	z can be selected		
		H-300 (CPU-03Ha)				
		H-700 (CPU-07Ha)				
		H-2000 (CPU-20Ha)				
	H200~252	H-200 (CPU-02H, CPE-02H)				
	series	H-250 (CPU21-02H)				
	301103	H-252 (CPU22-02H)				
		H-252B (CPU22-02HB)				
		H-252C				
		(CPU22-02HC, CPE22-02HC)				
	H series	H-20DR			×	0
	board type	H-28DR				
		H-40DR				
		H-64DR)	<		
		H-20DT				
		H-28DT				
		H-40DT				
		H-64DT				
		HL-40DR				
		HL-64DR				
	EH-150	EH-CPU104				
	series	EH-CPU208				
		EH-CPU308				
Rockwell		EH-CPU316				
Automation	SLC500	SLC500-20				
PLC	series	SLC500-30				
(Allen-Bradley)		SLC500-40				
*12		SLC5/01				
		SLC5/02				
		SLC5/03				
		SLC5/04				
		SLC5/05				
	MicroLogix	1761-L10BWA				
	1000 series	1761-L10BWB				
	Digital CPU	1761-L16AWA				
	3	1761-L16BWA				
		1761-L16BWB	×	×	×	0
		1761-L16BBB				Ŭ
		1761-L32AWA				
		1761-L32BWA				
		1761-L32BWB				
		1761-L32BBB				
		1761-L32AAA				
	MicroLogix	1761-L20AWA-5A				
	1000 series	1761-L20AWA-5A				
	Analogue CPU	1761-L20BWB-5A				
	MicroLogix	1701-LZUBVVB-SA				
	1500 series	1764-LSP				
SIEMENS AG		S7-300 series	×	×	×	0
PLC		S7-400 series			^	

FP-M (C20TC) × O *9: Motion controller can be connected with only AGOT, but not with GT SoftGOT2.

Modules that can be connected to other manufacturer's computer link module

	RS-422	RS-232C
MRON	C-500-LK201-V1	C500-LK201-V1
Jpper-level link unit /	C200HW-COM03	C200HW-COM02
communication board	C200HW-COM06	C200HW-COM05
	C200H-LK202-V1	C200HW-COM06
	C120-LK202-V1	C200H-LK201-V1
	CS1W-SCU41	C120-LK201-V1
	CS1W-SCB41	CS1W-SCU21
		CS1W-SCB21
		CS1W-SCU41
		CS1W-SCB41

Link unit	JW-10CM	
	ZW-10CM	
YASKAWA Electric	JAMSC-IF612	JAMSC-IF60
Memory bus unit	120 NOM 271 00	JAMSC-IF61
		120 CPU 341 00
		CP-217IF *10
Matsushita Electric Works PLC		AFP2462
	_	AFP3462
		AFP5462
HITACHI PLC	СОММ-Н	СОММ-Н
	COMM-2H	COMM-2H

- *10: CP-217 is indispensable for CP9200SH to be connected with GOT.

 **11: HMI adaptor is necessary when connected with GOT.

 **12: Able to connect with CPU in DH485 network configured with SLC 500 series, MicroLogix1000/1500 series. Refer to a manual for the details.

 **13: When connecting with TOOL port, AFP8550 adaptor is necessary between FP peripheral unit cable and RS-232 cable.

Concept

Lineup

Notes for Use

GT

recommended points SoftGOT2

Features and

series

(1) Some functions are unavailable depending on the GOT models. See Product overview on page 18 and later and Function list on page 54. (2) There are some functions and restrictions unavailable depending on the connection target and connection

Special report

Special report

New drawing software FA integrated functions Gateway functions

configuration. For details, refer to the following "Restrictions on maintenance functions" or the following manuals.

GOT-A900 Series Operating Manual (Extended Functions/Option Functions: SH-080244) GOT-A900 Series Operating Manual (Gateway Functions: SH-080352)

(3) For the connectable CPU models, see Connectable model list on page 56.

A956WGOT A95□GOT

(4) The access range that can be monitored changes depending on the connected CPU type and connection configuration. For details, refer to the "GOT-A900 Series User's Manual (Connection: SH-080246)".

A975GOT A970GOT

A985GOT-V A985GOT

P.4~ P.6~ P.8~ P.10~ P.12~ P.16~ P.18~ P.20~ P.22~ P.24~ P.26~ P.28~ P.30~ P.32~

A970GOT

A960GOT

■ Restrictions on maintenance functions

AGOT (A985(-V)/A97□/A960/A956W/A95□GOT)

The restrictions on the maintenance functions are as indicated below. (Refer to page 56 for the restrictions on versions.)

Connection configuration								CPU direct connection					Computer link connection						
Connection target	MELSEC- Q series (Q mode)	controller CPU		MELSEC -QnA series		Motion controller (A series)	MELSEC- Q series (Q mode)	Motion controller CPU (Q series)		MELSEC -QnA series	MELSEC-	Motion controller (A series)	MELSEC- Q series (Q mode)	Motion controller CPU (Q series)		MELSEC -QnA series	MELSEC-	Motion controller (A series)	
System monitor	O*1	0	_	0	0	0	O *1	0	0	0	0	0	O*1*3	0	O *4	O *3	O *4	0	
Ladder monitor	0	×	_	0	0	0	0	×	0	0	0	0	0	×	O *5	0	O *5	0	
(Fault cause search)	0	×	_	×	0	0	0	×	0	×	0	0	0	×	0	×	0	0	
(Touch search)	0	×	_	×	×	×	0	×	×	×	×	×	0	×	×	×	×	×	
List program edit	×	×	_	×	0	×	×	×	0	×	×	×	×	X	×	×	×	×	
Network monitor	0	×	_	0	0	0	0	×	0	0	0	0	0	X	0	0	0	0	
Special module monitor	0	×	_	0	0	0	0	×	0	0	0	0	0	X	×	0	X	0	
Motion monitor	O *2	0	_	×	×	×	O *2	0	×	×	×	×	×	0	×	×	×	×	

Connection configuration		ME	LSECNE"	T connect	tion		Ethernet connection						CC-Link connection(BT13)						
Connection target	MELSEC- Q series (Q mode)	controller CPU		-QnA	MELSEC-	Motion controller (A series)	MELSEC- Q series (Q mode)	Motion controller CPU (Q series)	MELSEC- Q series (A mode)	MELSEC -QnA series			MELSEC- Q series (Q mode)	Motion controller CPU (Q series)		MELSEC -QnA series	MELSEC- A series	Motion controller (A series)	
System monitor	×	×	0	X	0	0	O *1	0	0	0	0	0	O *7	0	0	0	0	0	
Ladder monitor	×	×	0	×	0	0	0	×	0	0	0	0	O *8	×	0	0	0	0	
(Fault cause search)	×	×	0	×	0	0	0	×	0	×	0	0	0	×	0	×	0	0	
(Touch search)	×	×	×	×	×	×	0	×	×	×	×	×	0	×	×	×	×	×	
List program edit	×	×	0	×	0	×	×	×	0	×	0	×	×	X	0	×	0	×	
Network monitor	0	×	O*6	×	O *6	0	0	×	0	0	0	0	0	×	0	0	0	0	
Special module monitor	×	×	0	×	0	0	0	×	0	0	0	0	0	×	0	0	0	0	
Motion monitor	×	×	×	×	×	×	O *2	0	×	×	×	X	O *2	0	×	×	×	×	

Connection configuration		CC-I		CC-Link cor	nection(G4)			
Connection target	MELSEC- Q series (Q mode)	Motion controller CPU (Q series)	MELSEC- Q series (A mode)	MELSEC -QnA series	MELSEC- A series	Motion controller (A series)	MELSEC- Q series (Q mode)	Motion controller CPU (Q series)
System monitor	O *9	×	○ *9	O *9	O *9	O *9	0	0
Ladder monitor	×	×	×	×	×	×	0	×
(Fault cause search)	×	×	×	×	×	×	0	×
(Touch search)	×	×	×	×	×	×	0	×
List program edit	×	×	×	×	×	×	×	×
Network monitor	×	×	×	×	×	×	0	×
Special module monitor	×	×	×	×	×	×	0	×
Motion monitor	X *2	×	×	×	×	×	O*2	0

•Ladder monitor When any timer/counter set value was changed by the test function of the ladder

•List program When the A2USH-S1/A2SH-S1/A2SH/A1SH/A1SJHCPU is used, there

are the following restrictions on the list program edit range.

•When A2USHCPU-S1 is used: Within the A3UCPU range

monitor, the new value is not reflected on the display. Therefore, read it to the

PLC again. Fault cause search and touch search cannot be used simultaneously.

MELSEC Other FX series PLC System monitor 0 × (Touch search) List edition x | x | × Motion monitor

- The timers/counters and BM cannot be monitored for 0.172CPU(N) or 0.173PU(N) monitor.
 Motion monitor function is supported by 0.172CPU and 0.173CPU with either SV13 or SV12 peripheral software packages pre-installed.
 The current values of V and Z cannot be changed.
 The current values of V and Z and the set values of V the timers/counters cannot be changed. the timers/counters cannot be changed.

 Subprograms 2, 3 of the A4UCPU cannot be monitored.

 Subprograms 2, 3 of the A4UCPU cannot be monitored.

 When the MELSCONET/10 network card is mounted, monitor cannot be executed if the connection target CPU is the Antl Upe. When the A8GF-1618T3 of software version W or earlier is used, the timer/counter set values cannot be monitored/changed and device comments cannot be displayed.
- Monitor cannot be executed when the A8GT J61BT13 of software version W or earlier is used.
 Only the link device assigned to the GOT can be monitor.
 The timer/counter coils and set values cannot be monitored/changed, BM cannot be moni device comments cannot be displayed.

•System monitor When using the MELSEC-QnA series to monitor or change the timer/counter settings or display device comments, use the CPU of version B or later. (Except the Q4ARCPU)

connection configuration. Refer to Special report 2 "FA integrated

•Special unit monitor The AD75M□/A1SD75M□ special module can be monitored in the AD75P□/A1SD75P□ range. The servo amplifier monitor function can be used regardless of the

functions" on page 8 for details.

•When A2SH/A1SH/A1SJHCPU is used: Within the A3NCPU range SoftGOT (GT SoftGOT2)

The maintenance functions cannot be used on GT SoftGOT2. For ladder monitor, list program edit, and network monitor, equivalent functions can be executed by using GX Developer on the same personal computer.

■Selection of memory board

A memory board should be mounted when using the optional function or increasing the user area. As monitor data and special data (necessary when the special module monitor, motion monitor or servo amplifier monitor function is used) are stored into the user area, it may be necessary to increase the user area according to the amount of data. Confirm the capacity of monitor data/special data on the drawing software when they are

•When A985(-V)/A97□/A960/A956WGOT is used

Requirement of the memory board is shown on table A①

When using the memory board required functions

- 1. When the memory board required functions are used, a memory board must be mounted regardless of the free user area.
- 2. Calculate the total number of extended function OS installations in [Table A]2, and confirm the free user area in [Table B].
- * The extended function OS must be installed to use the functions given in [Table A]. Installation of the extended function OS reduces the free user area that stores monitor data.
- 3. Consider the free user area and the monitor data + special data capacity, and select the memory board type.

•When A95□GOT is used

When using the memory board required functions, use the A95□GOT-□BD-M (equivalent to memory board mounting) regardless of the free user area.

When not using the memory board required function, select either the A95□GOT-□BD-M3 (3M byte user area) or A95□ GOT-□BD (1M byte user area) according to the monitor data capacity

When not using the memory board required functions

After confirming the free user area on table B, check whether a memory board is required or not, and when it is required, select the memory board type according to the monitor data capacity.

- <Note 1> When using the QCPU (Q mode)/QnACPU ladder monitor function, use the A9GT-QFNB(\(\subseteq M \)). The A9GT-FNB(\(\subseteq M \)) cannot be used. For the other functions, both the A9GT-QFNB (DM) and A9GT-FNB(DM) are available.
- <Note 2> The A9GT-OFNB and A9GT-FNB are memory boards for the optional functions. Note that the free user area will not be added by mounting memory board.

ding file output by hard copy function) Not required Not required Recipe function when CSV file is use Required Required Audio output function Recipe function Required Required Ladder monitor function (for QCPU (Q mode)) Ladder monitor function (for QnACPU) Ladder monitor function (for ACPU) Ladder monitor function (for FXCPU) Required 2 Select any Required 1 Required 1 List program edit function (for ACPU) System monitor function Required Network monitor function Required 1

Video input/analog RGB input or external I/O Not required

				Free user ar	rea (k bytes)					
	When memory		A985(-V)/A97□/A960/A956WGOT							
extended function OS installations			Model name of GO							
	mounted	A9GT-QFNB ¹³ A9GT-FNB ¹³	A9GT-FNB1M	A9GT-FNB2M			A95□GOT- □BD	AS E		
No function on [Table A] is used	1152	1152	2176	3200	5248	9344	1152			
1	896	896	1920	2944	4992	9088	896			
2	768	768	1792	2816	4864	8960	768			
	OS installations No function on	extended function OS installations No function on [Table A] is used 1 896	Mean memory Mean memory Mean memory Mean memory Mean memory Mean mounted AgGT-QFNB ³ AgGT-FNB ³	extended function OS installations	Total number of extended function When memory board is not mounted A985(-V)/A97□/A960/A9 When memory board is not mounted A9GT-FNB∃ A9GT-FNB1M A9GT-FNB2M		Total number of extended function When memory board is not mounted A9GT-GFNB3 A9GT-FNB2M A9GT-FNB2M A9GT-FNB2M A9GT-FNB3M A9GT-FNB2M A9GT-FNB3M A9GT-FNB3M	Total number of extended function When memory board is not mounted A985(-V)/A97□/A960/A956WGOT A950 A960 A96		



Bus

connection

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for each model model list

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GOT main units

GOT

dictionary

Connection

configuration

GT

Options

Model name		Screen size Display device		Display color	Power source	Memory size		Regulation	
		[resolution]	Diopidy dovido	Biopiay acrics Biopiay color		1M	3M	compliance ^s	
A985GOT-V	A985GOT-TBA-V	12 [800 x 600 dots]	High-intensity	256 (When graphic	100-240VAC	0			
	A985GOT-TBD-V		TFT color display	is displayed: 65536)	24VDC	0			
A985GOT	A985GOT-TBA			256	100-240VAC	0			
	A985GOT-TBD				24VDC	0			
	A985GOT-TBA-EU	1			100-240VAC	0		0	
A975GOT	A975GOT-TBA-B	10 [640 x 480 dots]	High-intensity	256	100-240VAC	0			
	A975GOT-TBD-B	1	TFT color display		24VDC	Ō			
	A975GOT-TBA-EU	1			100-240VAC	0		0	
A970GOT	A970GOT-TBA-B		High-intensity	16	100-240VAC	0			
	A970GOT-TBD-B	1	TFT color display		24VDC	ŤŎ			
	A970GOT-TBA-EU				100-240VAC	0		0	
	A970GOT-SBA	1	D-STN color display	8	100-240VAC	 0			
	A970GOT-SBD	1	D CTTT COICT Giopiay		24VDC	10			
	A970GOT-SBA-EU	1			100-240VAC	10	-	0	
	A970GOT-SBA-E0	1	D-STN monochrome	Monochrome	100-240VAC	10		-	
	A970GOT-LBA	+	display	(Black and white)	24VDC	0			
	A970GOT-LBD		uispiay	(black and write)	100-240VAC	0		0	
ACCOCCT		0.0040 - 400 4-4-1	1 Patrick Committee E1	N4			-	0	
A960GOT	A960GOT-EBA	9 [640 x 400 dots]	High-intensity EL	Monochrome	100-240VAC				
	A960GOT-EBD	-		(Black and	24VDC	0			
	A960GOT-EBA-EU			yellowish orange)	100-240VAC	0		0	
A956WGOT	A956WGOT-TBD	7 [480 x 234 dots]	High-intensity TFT color display	256	24VDC	0		0	
A956GOT	A956GOT-TBD-M3	6 [320 x 240 dots]	High-intensity TFT color display	256	24VDC		0		
A95	A956GOT-TBD				(Communication unit is	0			
	A956GOT-SBD-M3		STN color display	8	required)		0	0	
	A956GOT-SBD					0		0	
	A956GOT-LBD-M3		STN monochrome	Monochrome			0	0	
	A956GOT-LBD		display	(Black and white)		0_		0	
A953GOT	A953GOT-TBD-M3		High-intensity	256	24VDC		0		
	A953GOT-TBD		TFT color display		(Built-in RS-232C	0			
	A953GOT-SBD-M3		STN color display	8	communication interface)		0	0	
	A953GOT-SBD	1				0		0	
	A953GOT-LBD-M3		STN monochrome	Monochrome			0	0	
	A953GOT-LBD	1	display	(Black and white)		0		0	
A951GOT	A951GOT-QTBD-M3	1	High-intensity	256	24VDC		0		
	A951GOT-QTBD		TFT color display		(Built-in Q bus	0			
	A951GOT-QSBD-M3	1	STN color display	8	communication interface)		0		
	A951GOT-QSBD				,	0	Ť		
	A951GOT-QLBD-M3	1	STN monochrome	Monochrome	-		0		
	A951GOT-QLBD		display	(Black and white)		0	<u> </u>		
	A951GOT-TBD-M3	1	High-intensity	256	24VDC	+	0	0	
	A951GOT-TBD-WS	1	TFT color display	230	(Built-in QnA/A bus	0	\vdash	0	
	A951GOT-1BD A951GOT-SBD-M3	+	STN color display	8	 	\vdash	0		
		-	STIN COIDE display	0	communication interface)	0			
	A951GOT-SBD	-	CTN managhmana	Managhuana	-		\vdash		
	A951GOT-LBD-M3		STN monochrome	Monochrome (Diagle and white)			0	0	
10500T	A951GOT-LBD		display	(Black and white)	0.0/20	0_		0	
A950GOT	A950GOT-TBD-M3	1	High-intensity	256	24VDC		0		
	A950GOT-TBD		TFT color display		(Built-in RS-422	0			
	A950GOT-SBD-M3		STN color display	8	communication interface)		0	0	
	A950GOT-SBD					0		0	
	A950GOT-LBD-M3		STN monochrome	Monochrome			0	0	
	A950GOT-LBD		display	(Black and white)		0		0	

^{*1:} Some combinations of GOT main unit and communication interface do not conform to the safety standards (UL/cUL/CE).

Software

			Include	d product				
Software	Software Versions	Drawing Software GT Designer2	Simulator function GT Simulator2	Easy data convert function GT Converter	SoftGOT function GT SoftGOT2	Remarks		
GT Designer2 Version□	SW□D5C-GTD2-J) 0	-	0	0	Japanese version		
	SW□D5C-GTD2-E) 0	_	0	0	English version		
	SW□D5C-GTD2-JV (No.	Version upgrade softw	Version upgrade software (upgrade GT Designer 2 to the latest version)					
GT Works2 Version□	SW□D5C-GTWK2-J (New	0	0	0	0	Japanese version		
	SW□D5C-GTWK2-E) 0	0	0	0	English version		
	SW□D5C-GTWK2-JV (No.	Version upgrade softw	Version upgrade software (upgrade GT Works 2 to the latest version)					
License key for	A9GTSOFT-LKEY-P							
GT SoftGOT *2		DOS/V License key (fo	OS/V License key (for Dsub 25 pin and parallel port)					
License key FD for	SW5D5F-SGLKEY-J					Japanese version		
GT SoftGOT2 *2	SW5D5F-SGLKEY-E New	7. License registration	icense registration package for computer CPU module					

^{*2:} GT Soft GOT2 License key is required for every DOS/V computer, and GT SoftGOT2 license key FD is required for every computer CPU unit

List of products



List of products

Communication interface

Product name	Model name		Specifications		Regulation compliance ¹
Bus connection board	A9GT-QBUSS	QCPU (Q mode) bus connection	For A985(-V)/975/970/960GOT	1 connector	
	A9GT-QBUS2S			2 connectors	
	A9GT-50WQBUSS		For A956WGOT	1 connector	
	A9GT-BUSS	QnA/ACPU bus connection	For A985(-V)/975/970/960GOT	1 connector	0
	A9GT-BUS2S			2 connectors	0
	A9GT-50WBUSS		For A956WGOT	1 connector	0
Bus connection unit	A9GT-QBUS2SU	QCPU (Q mode) bus connection	For A985(-V)/975/970/960/956(W)GOT	2 connectors	
	A9GT-BUSSU	QnA/ACPU bus connection		1 connector	0
	A9GT-BUS2SU			2 connectors	0
Serial communication	A9GT-RS4	RS-422 connection (QnA/A/FXCPU direct connection,	For A985(-V)/975/970/960GOT	Without clock function	0
board	A9GT-50WRS4	computer link connection, microcomputer connection)	For A956WGOT		0
	A9GT-RS2	RS-232C connection (QCPU direct connection,	For A985(-V)/975/970/960GOT		0
		computer link connection, microcomputer connection)			0
	A9GT-RS2T	RS-232C connection (microcomputer connection)	For A985(-V)/975/970/960GOT	Built-in clock function	
	A9GT-50WRS2	RS-232C connection (QCPU direct connection,	For A956WGOT	Without clock function	
		computer link connection, microcomputer connection)			0
Network connection unit	A7GT-J71LP23	MELSECNET/10	Inter-PC optical loop		
	A7GT-J71BR13		Inter-PC coaxial bus		
Data link connection unit	A7GT-J71AP23	MELSECNET (II)	Optical loop		
	A7GT-J71AR23		Coaxial loop		
	A7GT-J71AT23B	MELSECNET/B	Twisted pair bus		
CC-Link connection unit	A8GT-J61BT13	CC-Link (intelligent device station)	Twisted pair	0	
	A8GT-J61BT15	CC-Link (remote device station)			0
	AJ65BT-G4-S3	CC-Link peripheral connection	RS-422 + CC-Link		
Ethernet communication unit	A9GT-J71E71-T (New)	Ethernet	10BASE-T		0

^{*1:} Some combinations of GOT main unit and communication interfaces do not conform to safety standards (UL/cUL/CE).

Ontions O

Product name	Model name	Specifications Specifications Specifications Specifications Specifications Specifications Specification Specificat				
Video/RGB composite	A9GT-80V4R1 New	For A985GOT-V	Video display function: NTSC/PAL input system, 4CH			
input interface unit		(Required when using the video display function, RGB display function)	RGB display function: Analog RGB input system, 1CH			
Video input interface unit	A9GT-80V4	For A985GOT-V (Required when using the video display function)	NTSC/PAL input system			
RGB input interface unit	A9GT-80R1	For A985GOT-V(Required when using the RGB display function)	analog RGB input system			
Backlight	A9GT-80LTT	For A985GOT(-V)	TFT color LCD HMI replacement backlight (1)			
	A9GT-70LTTB	For A975/970GOT-TB□-B				
		For A975/970GOT-TBA (hardware version D or later)				
		For A975/970GOT-TBD (hardware version B or later)				
	A9GT-70LTT	For A975/970GOT-TBA (hardware version C or earlier)				
		For A975/970GOT-TBD (hardware version A)				
	A9GT-70LTS	For A970GOT-SB□/LB□	D-STN color/monochrome LCD HMI replacement backlight (a set of 2			
	A9GT-50LT	For A95□GOT-(Q)SBD/(Q)LBD(-M3)	STN color/monochrome LCD HMI replacement backlight (1)			
Memory board	A9GT-FNB	Memory for optional function	(Without expansion memory)			
(For A985(-V)/975/970/	A9GT-FNB1M	(A/FX ladder monitor compatible)	1MB expansion memory			
A960GOT(-B)/	A9GT-FNB2M	i i	2MB expansion memory			
A956WGOT)	A9GT-FNB4M		4MB expansion memory			
*Refer to Memory board selection	A9GT-FNB8M		8MB expansion memory			
on page 58.	A9GT-QFNB	Memory for optional functions	(Without expansion memory)			
	A9GT-QFNB4M	(Q/QnA/A/FX ladder monitor compatible)	4MB expansion memory			
	A9GT-QFNB8M	' '	8MB expansion memory			
Protection sheet	A9GT-80PSC	For A985GOT(-V)	A Set of 5 (logo removable, The HMI is supplied with one)			
	A9GT-70PSC	For A975/970GOT(-B)	· ·			
	A9GT-60PSC	For A960GOT				
	A9GT-50WPSC	For A956WGOT				
	A9GT-50PSC	For A95□GOT(-M3)				
Stand	A9GT-80STAND	For A985GOT(-V)				
	A9GT-70STAND	For A975/970/960GOT(-B)				
	A9GT-50WSTAND	For A956WGOT				
	A9GT-50STAND	For A95□GOT(-M3)				
Flash PC card	A9GTMEM-10MF	Memory capacity 16MB	For A985(-V)/A975/A970/A960GOT(-B)			
	A9GTMEM-20MF	Memory capacity 32MB	JEIDA Ver. 4.2 compliant (PCMCIA2.1 compliant)			
	A9GTMEM-40MF	Memory capacity 64MB				
PC card interface unit	A1SD59J-MIF	For A95 GOT(-M3)/A956WGOT	For SRAM PC card (optional)			
External input/output	A9GT-70KBF	For A985/975/970/A960GOT(-B)	Proximity input/output: 8 DC inputs or			
interface unit	A8GT-50KBF	For A95□GOT(-M3)/A956WGOT	Keyboard: 64 DC inputs, 16 transistor outputs			
Numerical keypad	A8GT-TK	For external input/output interface unit connection				
Printer interface unit	A9GT-50PRF	For A95□(-M3)/A956WGOT	For parallel printer connection (1CH)			
Attachment		Conventional models	Replaceable models			
	A87GT-97ATT	A870GOT-TWS/SWS	A97□GOT(-B)			
		A8GT-70GOT-TW/TB/SW/SB				
	A87GT-96ATT	A870GOT-EWS, A8GT-70GOT-EW/EB	A960GOT			
		A77GOT-EL-S5/EL-S3/EL				
	A77GT-96ATT	A77GOT-CL-S5/CL-S3/CL/L-S5/L-S3/L				
	A85GT-95ATT	A85□GOT(-M3)	A95□GOT(-M3)			

Cables O

Product name		Model name	Cable length	3rd party products*1	Applications
Q bus connection	Q extension cable	QC06B	0.6m	p. oadoto	For connection between QCPU and GOT
cable *2	Inter-GOT connection	QC12B	1.2m	1	For connection between GOT and GOT
(For QCPU	cable	QC30B	3m	-	1 of confidence of contract and con
(Q mode))	Cabic	QC50B	5m		
(Q IIIoue))					
		QC100B	10m		5
	Q long-distance	A9GT-QC150BS	15m		For connection between QCPU and GOT
	connection cable	A9GT-QC200BS	20m		(A9GT-QCNB is required)
	Inter-GOT long-distance	A9GT-QC250BS	25m		For connection between GOT and GOT
	connection cable	A9GT-QC300BS	30m	1	
		A9GT-QC350BS	35m	1	
Bus extension con	nector box	A9GT-QCNB	-	_	*Used for QCPU long-distance bus connection
A bus connection	Large CPU	A8GT-C12NB	1.2m		For connection between QnA/ACPU/motion controller (A series/extension base)
cable *2	extension cable	A8GT-C30NB	3m	0	and GOT
(For QnA/ACPU/	extension cable	A8GT-C50NB	5m	1 –	and GOT
`					F
motion controller		AC06B	0.6m		For connection between QnA/ACPU/motion controller (A series/extension base)
(A series))		AC12B	1.2m		and A7GT-CNB
		AC30B	3m]	
		AC50B	5m		
		AC12B-R	1.2m		For connection between QnA/ACPU/motion controller (A series/extension base)
		AC30B-R	3m	0	and A7GT-CNB (one-end right angle connector)
		AC50B-R	5m	1 ~	and the division of the tight and the tight
		A370C12B-S1	1.2m		For connection between motion controller (A series/main base) and GOT
				1	i or connection between motion controller (A selles/main base) and GOT
		A370C25B-S1	2.5m	-	For connection between motion controller (A series/weig been) and AZOT CND
		A370C12B	1.2m		For connection between motion controller (A series/main base) and A7GT-CNB
		A370C25B	2.5m		
	Small CPU extension	A1SC07B	0.7m		For connection between QnAS/AnSCPU/motion controller (A series) and GOT
	cable	A1SC12B	1.2m		For connection between GOT and GOT
	Inter-GOT connection	A1SC30B	3m	1 -	
3	cable	A1SC50B	5m		
	Small CPU extension cable	A1SC05NB	0.5m		For connection between QnAS/AnSCPU and A7GT-CNB
		A1SC07NB	0.7m		1 of conficction between Ghao/Andor o and A7 of ord
				-	
		A1SC30NB	3m	-	
		A1SC50NB	5m		
	Small CPU long-distance	A8GT-C100EXSS-1	10.6m		For connection between QnAS/AnSCPU/motion controller (A series) and GOT
	connection cable	A8GT-C200EXSS-1	20.6m	0	For connection between A7GT-CNB and GOT
		A8GT-C300EXSS-1	30.6m	1	*Combination of A8GT-EXCNB and A8GT-C□BS
	Inter-GOT long-distance	A8GT-C100BS	10m		For connection between GOT and GOT
	connection cable	A8GT-C200BS	20m	1 _	
	comiconom cabic	A8GT-C300BS	30m	0	
	A0J2HCPU connection cable		1m	1	For connection between A0J2HCPU power supply unit (A0J2-PW) and GOT
Dua sannastar san					
Bus connector con		A7GT-CNB			*Used for QnA/ACPU long-distance bus connection
Buffer circuit cable		A8GT-EXCNB	0.5m		*Can be used with A8GT-C□BS as A8GT-C□EXSS-1.
RS-422 cable	A/FXCPU direct connection cable		3m		For connection between QnA/A/FX(FX1, FX2, FX2C)CPU and GOT, for connection between FA-CNV □CBL and
	Computer link connection cable	AC100R4-25P	10m		GOT, for connection between FX-2PIF and GOT, for connection between FX-422AW0 and GOT, for connection
	AJ65BT-G4 cable	AC300R4-25P	30m		between serial communication unit (AJ71QC24(N)-R4) and GOT, for connection between AJ65BT-G4-S3 and G
	FXCPU direct connection cable		1.5m		For connection between FXCPU (FX0, FX0s, FX0N, FX1s, FX1N, FX2N, FX2NC) and GC
	FX function extension board		3m	-	for connection between FXCPU extension board (FX1N-422-BD, FX2N-422-BD) and GC
	connection cable	FX9GT-CAB-10M	10m	1	and other states of the states
	RS232C/422				For connection between OCDU and ACCD4 25D
		FA-CNV2402CBL	0.2m	-	For connection between QCPU and AC□R4-25P
	conversion cable	FA-CNV2405CBL	0.5m		
	Cable adaptor	FX-422AW0	1.5m		For connection between FXCPU and AC□R4-25P
	2PIF connection cable	FX-422CAB0	1.5m		For connection between FXCPU and FX-2PIF
	Junction adaptor	AC006-25PEXT	6cm	0	For junction connection (horizontal extension) between GOT (D-sub 25 pins: male) and RS422 cable (D-sub 25 pins: fem
2-port interface		FX-2PIF	-	_	*Used for FXCPU direct connection
RS-232C cable	QCPU direct connection cable		3m	_	For connection between QCPU and GOT
	FX function extension board connection cable		3m	0	For connection between FXCPU extension board (FX1N-232-BD) and GOT
	Data transfer cable	FX-232CAB-1	3m		For connection between Personal computer (drawing software) (D-sub 9 pins: female) and GOT (D-sub 9 pins: fem
				_	
	Data transfer cable	AC30R2-9P	3m	0	For connection between personal computer (drawing software) (D-sub 25 pins: male) and GOT (D-sub 9 pins: fen
		F2-232CAB-1	3m	_	
		AC30R2	3m		For connection between personal computer (drawing software) (D-sub 25 pins: male)
		AC30N2A	3m	_	and GOT(D-sub 25 pins: male *25 pin-9 pin converter is required)
	Junction adaptor	AC006-9PEXT	6cm	0	For junction connection (horizontal extension) between GOT (D-sub 9 pins: female) and RS232C cable (D-sub 9 pins: remains a pins of the connection (horizontal extension) between GOT (D-sub 9 pins: female) and RS232C cable (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: female) and RS232C cable (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: female) and RS232C cable (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (D-sub 9 pins: remains of the connection (horizontal extension) between GOT (horizontal extension) between GOT (horizontal extension) between GOT (h
Printer cable		AC30PIO-20P	3m		For connection between GOT and parallel printer
PC card interface unit connection cable		A85GT-C05H	0.5m	0	For connection between GOT and PC card interface unit (A1SD59J-MIF)
		AC50VG	5m	_	For connection between GOT and CRT
	able				
CRT connection ca		AC300VG	30m	_	
PC card interface of CRT connection card A800 series → A90 conversion cable			30m 0.3m	0	Bus connector conversion cable package (connector conversion module A7GT-CNB-BUS and conversion cable A8GT-C0:

^{*1:} Recommend products are available at Mitsubishi Electric System Service. Please contact your local sales office for details.
*2: Confirm the connector dimensions/shapes of the bus connection cables on page 52 "Bus connection cables".

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All manuals are shipped as an optional product. Please contact your local Mitsubishi representatives.					
Manual title	Overview				
GT Works2 Version1/GT Designer2 Version1 Operating Manual (Startup-Introductory Manual)	Installing method of GT Designer2, screen creation guide for beginner.				
GT Designer2 Version1 Operating Manual	GT Designer2 operation, data transmitting method, etc.				
GT Designer2 Version1 Reference Manual	Objects specification, functions, settings, etc.				
GOT-A900 Series Operating Manual	Extended functions and optional functions including utility, ladder monitor, special				
(GT Works2 Version1/GT Designer2 Version1 compatible Extended-Option Functions Manual)	module monitor, network monitor, list program edit, motion monitor, and servo amplifier.				
GOT-A900 Series User's Manual (GT Works2 Version1/GT Designer2 Version1 compatible Connection System Manual)	System configuration, cabling procedure, etc.				
GOT-A900 Series Operating Manual (GT Works2 Version1/GT Designer2 Version1 compatible Gateway Functions Manual)	Gateway function, system configuration, settings, etc.				
GT Simulator2 Version1 Operating Manual	GT Simulator2's screen configuration, specification, etc.				
GT SoftGOT2 Version1 Operating Manual	GT SoftGOT2's screen configuration, specification, etc.				
A985GOT/A975GOT/A970GOT/A960GOT User's Manual	Specification, Installation procedure, communication board/communication unit Installation.				
A950GOT/A951GOT/A953GOT/A956GOT User's Manual	Specification, Installation procedure, communication board/communication unit Installation.				

Safety Standards

■Safety Standards







Beginning with UL Certification, we have met the safety standards of regulatory agencies.

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cUL	CSA (Canada)	A GOT
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Spain	Mitsubishi Electric Europe B.V. Spanish Branch Carretera de Rubi 76-80 08190 Sant Cugat del Valles, 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: +33-1-5568-5685
South Africa	Circuit Breaker Industries LTD Tripswitch Drive, Elandsfontein Gauteng, South Africa	Tel: +27-11-928-2000 Fax: +27-11-392-2354
Hong Kong	Ryoden Automation Ltd. 10th Floor, Manulife Tower, 169 Electric Road, North Point, HongKong	Tel: +852-2887-8870 Fax: +852-2887-7984
China	Ryoden Automation Shanghai Ltd. 3F Block5 Building Automation Instrumentation Plaza 103 Cao Bao Rd. Shanghai 200233 China	Tel: +86-21-6475-3228 Fax: +86-21-6484-6996
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