



# GENERAL-PURPOSE GRAPHIC OPERATION TERMINAL

QCPU (Q Mode) Dedicated Bus Connection Interface Built-in GOT

QCPU (Q Mode) Dedicated Bus Connection Communication Board  
QCPU (Q Mode) Dedicated Bus Connection Communication Module  
QCPU (Q Mode) Dedicated Bus Extension Connector Box  
Software Package  
Bus Connection Communication Module  
Option Function Memory Board Attachment

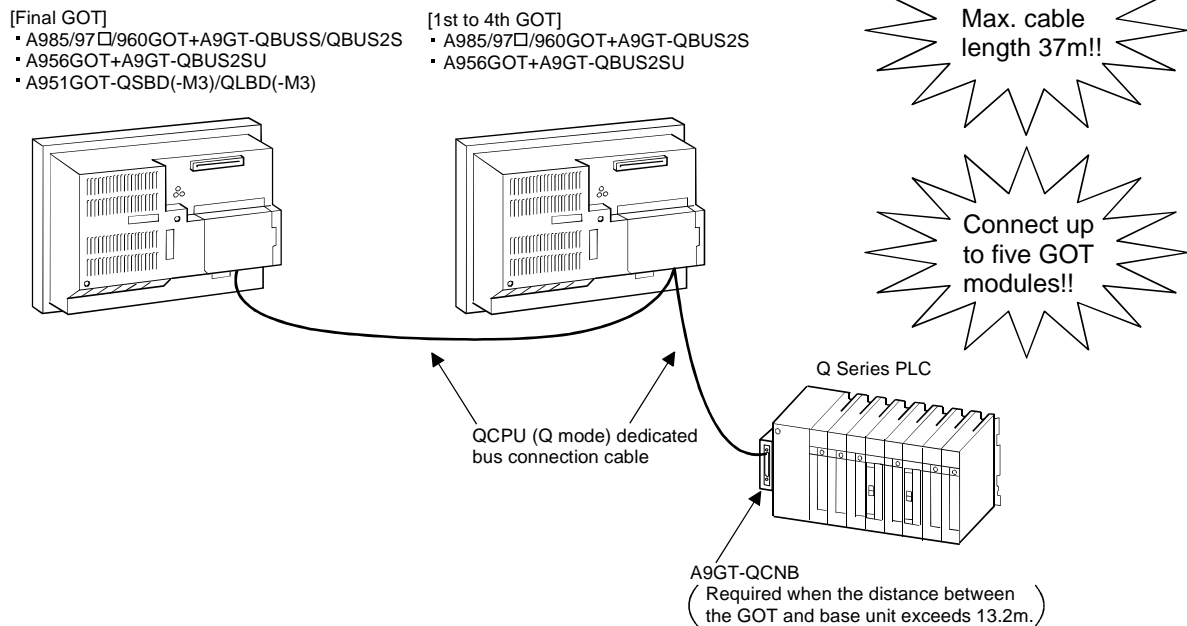
2000 No.114E

## NEW PRODUCT RELEASE

A951GOT-QSBD-M3, A951GOT-QSBD,  
A951GOT-QLBD-M3, A951GOT-QLBD  
A9GT-QBUSS, A9GT-QBUS2S  
A9GT-QBUS2SU  
A9GT-QCNB  
SW4D5C-GOTR-PACKE  
A9GT-BUSSU, A9GT-BUS2SU  
A9GT-QFNB8M, A9GT-FNB8M

**New!**

### 1. Bus connection of the GOT-A900 Series and QCPU (Q Mode) is now possible.



\* Connection with the QCPU (A mode) is not possible.

\* When using a bus connection with the QCPU(Q mode), the SW3D5C-GOTRE-PACK Version C or above is required.

#### 1) Comparison of QCPU (Q mode) and A/QnACPU bus connection

Item	When using QCPU	When using A/QnACPU
No. of connected GOT modules	Maximum 5 modules	Maximum 3 modules
Maximum cable length	37m	36.6m

The SW3D5C-GOTRE-PACK function can be used with the SW4D5C-GOTR-PACKE.

The Mitsubishi general-purpose programmable controller is manufactured at a factory certified for the environment management system standards (ISO14001) and the quality system standards (ISO9001)



EC97J1113

## 2) QCPU dedicated module lineup

Part name	Type	Remarks	
A951GOT-Q (QCPU (Q mode) dedicated bus connection interface built-in)	A951GOT-QSBD-M3	15cm(6inch), STN color liquid crystal, 24VDC power built-in, option OS compatible	
	A951GOT-QSBD	15cm(6inch), STN color liquid crystal, 24VDC power built-in	
	A951GOT-QLBD-M3	15cm(6inch), monochrome liquid crystal, 24VDC power built-in, option OS compatible	
	A951GOT-QLBD	15cm(6inch), monochrome liquid crystal, 24VDC power built-in	
QCPU (Q mode) dedicated bus connection communication board	A9GT-QBUSS	For A985/97□/960GOT, QCPU (Q mode) dedicated, for one GOT module connection	
QCPU (Q mode) dedicated multi-drop bus connection communication board	A9GT-QBUS2S	For A985/97□/960GOT, QCPU (Q mode) dedicated, for multiple GOT module connection	
QCPU (Q mode) dedicated multi-drop bus connection communication module	A9GT-QBUS2SU	For A956GOT, QCPU (Q mode) dedicated, for multiple GOT module connection	
Bus extension connector box	A9GT-QCNB	Use for long distance bus connection between Q base and GOT	
QCPU (Q mode) dedicated bus connection cable	A9GT-QC150BS	Cable length 15.0m	For connection between GOTs * These cables are Mitsubishi Electric System Service Co., Ltd. products.
	A9GT-QC200BS	Cable length 20.0m	
	A9GT-QC250BS	Cable length 25.0m	
	A9GT-QC300BS	Cable length 30.0m	
	A9GT-QC350BS	Cable length 35.0m	
	QC06B	Cable length 0.6m	For connection between Q bases For connection between Q base and GOT
	QC12B	Cable length 1.2m	
	QC30B	Cable length 3.0m	
	QC50B	Cable length 5.0m	
	QC100B	Cable length 10.0m	

[List of connection formats with QCPU that can be monitored with GOT]

○: Use possible, ×: Use not possible, △: Some limitations apply

Connection specifications		QCPU (A mode)	QCPU (Q mode)	Compatible software package
Bus connection		×	○	SW3D5C-GOTRE-PACK Version C or above
CPU direct connection		○	○	SW2D5C-GOTRE-PACK Version C or above
Computer link connection		○	○	
MELSECNET connection	MELSECNET/10H	×	×	
	MELSECNET/10* <sup>1</sup>	○	△* <sup>3</sup>	
	MELSECNET/B,(II)	○	×	
CC-Link connection	Intelligent device station	○	○	
	Remote device station* <sup>2</sup>	○	○	

\*1 Includes using the MELSECNET/10H with the NET/10 mode.

\*2 When connecting as the remote device station, only the link devices (RX, RY, RWw, RWr) assigned to the GOT can be monitored.

\*3 The range that can be monitored is that which can monitor the ACPU (equivalent to A3ACPU).

The PLC CPU that is monitored is the QCPU (Q mode.), but the PC type must be set to "MELSEC-A" with the screen creation software.

\*4 When using the QCPU with a direct CPU connection, computer link connection, MELSECNET connection or Control Communication Link (CC-Link) connection, the conventional parts are used for the communication board or connection module.

\*5 The GOT-F900 Series is not compatible with the QCPU connection.

## 2. New functions added to software package.

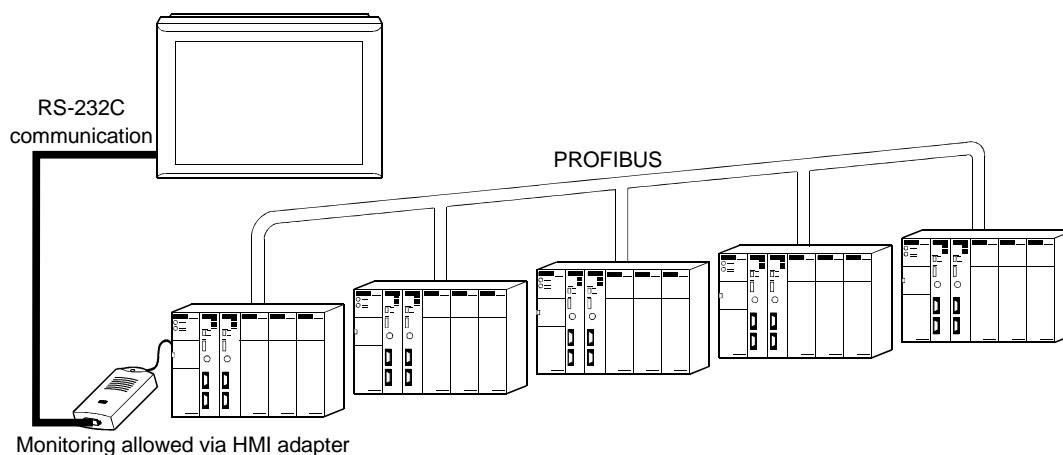
Part name	Type	Remarks
Software package	SW4D5C-GOTR-PACKE	Windows 95, 98, NT4.0 Workstation compatible

[Addition of connection format]

### 1) Compliance to SIEMENS PLC connection (GOT-A900 Series)

The GOT-A900 Series and SIEMENS PLC (SIMATIC S7-300 series, S7-400 series) can be connected, and monitoring carried out.

Connecting to the HMI adapter allows monitoring of multiple SIEMENS PLCs connected by PROFIBUS.



[Upgraded drawing software functions]

### 1) Addition of time action function. (GOT-A900 series, GOT-F900 series)

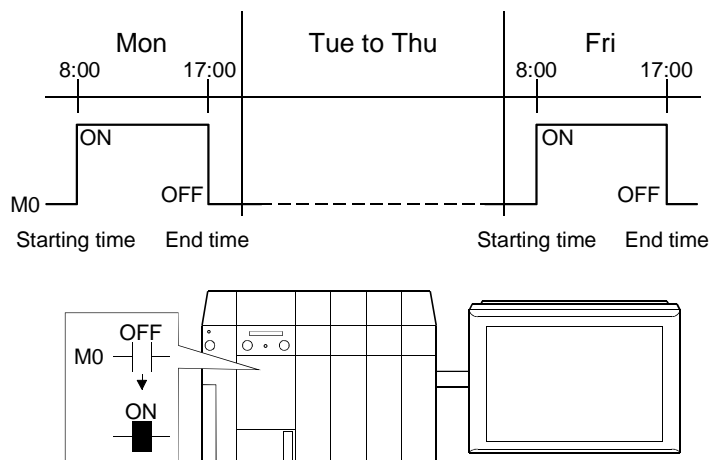
This function performs any of the following operations at the specified time of the day of the week.

- Turns a bit device ON/OFF.
- Writes a value to a word device.
- Plays a sound file (an external speaker is needed)

The start time on a designated date to the end time on a designated date can be set in a one-day unit or extending over two or more days.

Up to 32 points can be set for the GOT-A900 Series, and up to 8 points can be set for the GOT-F900 Series.

(Example) To turn M0 ON between 8:00 and 17:00 every day from Monday to Friday.

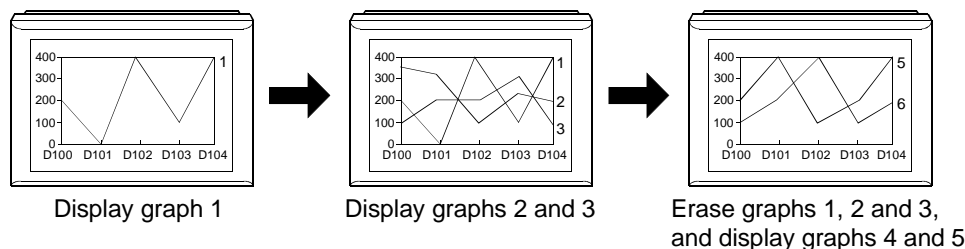


\* The time action function is unavailable if the PLC CPU connected with the GOT does not have a clock function.

## 2) Addition of tracking mode to polygonal line graph (GOT-A900 Series)

A graph can be overlapped and displayed on the polygonal line graph without erasing the previously displayed graph.

The overlapped and displayed graph can be erased and another graph displayed.



## 3) Addition of scatter graph function (GOT-A900 Series)

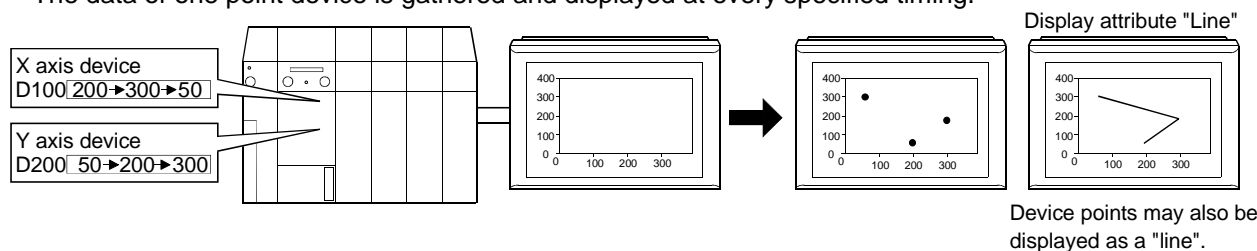
This function gathers the data stored in the word devices associated with the X and Y axes and displays them as a scatter chart.

You can choose either of the two types.

One is the type which gathers and displays the data of one point device at every specified timing (sample), and the other is the type which batch-gathers and batch-displays the data of multiple point devices (batch).

### • Sample type

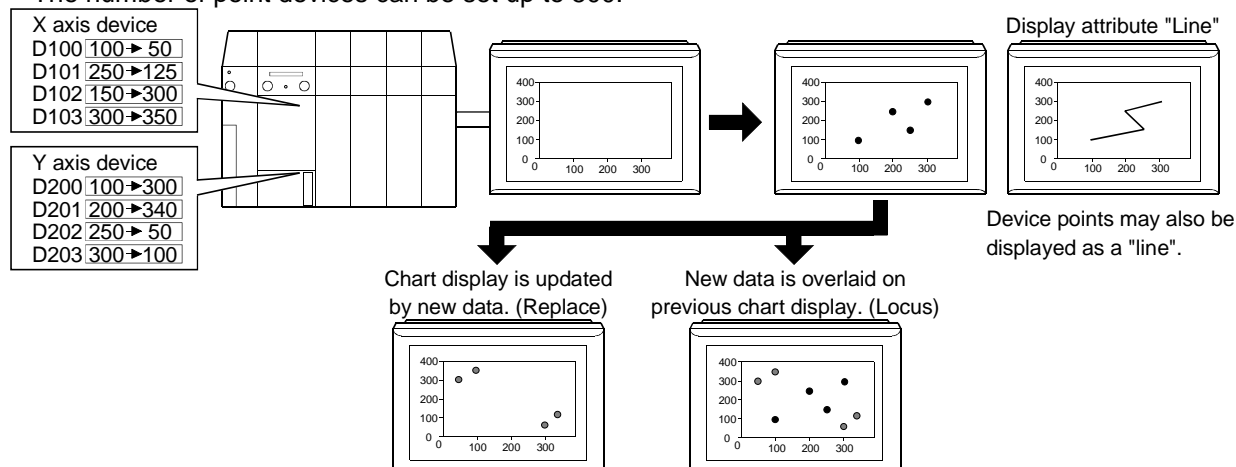
The data of one point device is gathered and displayed at every specified timing.



### • Batch type

Data of multiple point devices are gathered and batch-displayed.

The number of point devices can be set up to 500.



## 4) Addition of screen background setting function (GOT-A900 Series, GOT-F900 Series)

The background color of the screen creation software screen can be set.

- GOT-A900 Series: The background fill pattern, fill color and pattern background color can be set.
- GOT-F900 Series: The background color can be set.

[List of functions added to SW3D5C-GOTRE-PACK, SW4D5C-GOTR-PACKE]

●	Allowed for use
○	Allowed for use on the GOT-A900 series only
△	Allowed for use on the GOT-F900 series only
×	Not Allowed for use

#### 1) Connection forms added

Connection Form	Details	SW3D5C-GOTRE-PACK		SW4D5C-GOTR-PACKE
		Ver.A	Ver.C	Ver.A
Bus connection	Connection with QCPU (Q mode) supported.	×	○	○
Computer link connection	Transmission speed change (19200bps/38400bps) supported for connection of QC24N.	○	○	○
CC-Link Connection	Q-compatible intelligent device station supported.	×	×	○
YASUKAWA PLC connection	Connection with CP-9200(H), PROGIC-8 supported.	×	×	○
SIEMENS PLC connection	Connection with SIMATIC S7-300 series, S7-400 series supported.	×	×	○

#### 2) GOT unit functions added (extended, option and other functions)

Function	Details	SW3D5C-GOTRE-PACK		SW4D5C-GOTR-PACKE
		Ver.A	Ver.C	Ver.A
Utility	Addition of OS/Monitor data copy function.	○	○	○

#### 3) Drawing software functions added

Function	Details	SW3D5C-GOTRE-PACK		SW4D5C-GOTR-PACKE
		Ver.A	Ver.C	Ver.A
Screen background color setting	Addition of the function which sets a background color on a screen basis.	△	△	●
Panelkit save/read function	Addition of the function which allows a panelkit to be saved/read as a file.	×	×	●
Monochrome printer output compatibility	Addition of the function which allows adjustment for output to a monochrome printer.	×	×	●
Strengthening of project assistant setting function	Addition of function which allows serial communication settings, setup settings, menu call settings and language settings to be made on the project assistant setting dialog box.	×	×	△
Polygonal line	Addition of the function which display track.	×	×	○
ASCII display, input justify setting	Addition of function which allows ASCII displays and ASCII input justify display.	×	×	△
Scatter graph	Addition of the function which gathers data stored in word devices associated with the X and Y axes and displays them as a scatter graph.	×	×	○
Time action	Addition of the function which performs operation, such as device write, at the specified time of the day of the week.	×	×	●

#### 4) Other added functions

Function	Details	SW3D5C-GOTRE-PACK		SW4D5C-GOTR-PACKE
		Ver.A	Ver.C	Ver.A
Project copy function	Addition of the function which performs cut/copy/paste on a project basis. Enables backup onto multiple FDs.	×	×	●

### 3. Introducing the cable lead-in space saving type bus connection communication module.

(QnACPU, ACPU and motion controller CPU compatible part)

Part name	Type	Remarks
Bus connection communication module	A9GT-BUSSU	Compact connector type for bus connection
Multi-drop bus connection communication module	A9GT-BUS2SU	Compact connector type for multiple module bus connection

Compared to the bus connection board (A9GT-BUSS, A9GT-BUS2S) used for the conventional large GOT bus connection, this bus module has a structure that reduces the space required for the cable bending radius at the bottom of the GOT when used with the large GOT (A985/97□/960GOT).

Note that the module is thick, so more depth than the bus connection board will be required. (Refer to following drawings.)

Thus the application can be selected, such as to reduce the space for the cable at the bottom of the GOT, use the A9GT-BUSSU or A9GT-BUS2SU, and to reduce the depth in the panel, use the A9GT-BUSS or A9GT-BUS2S. This bus module can also be used with the A956GOT.

When using A985/960GOT

Type	A section dimension [mm] (inch)	B section dimension [mm] (inch)
A9GT-BUSSU/BUS2SU	30 (1.18)	72 (2.84)
A9GT-BUSS	100 (3.94)	43 (1.69)
A9GT-BUS2S	100 (3.94)	64 (2.51)

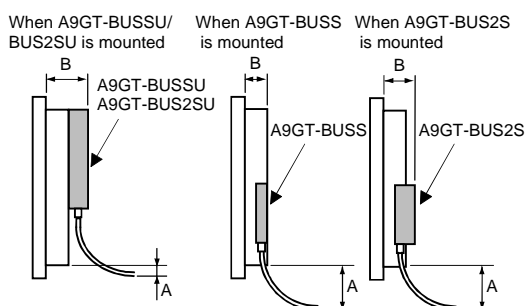
When using A97□GOT

Type	A section dimension [mm] (inch)	B section dimension [mm] (inch)
A9GT-BUSSU/BUS2SU	15 (0.59)	69 (2.72)
A9GT-BUSS	85 (3.35)	40 (1.58)
A9GT-BUS2S	85 (3.35)	61 (2.4)

When using A956GOT

Type	A section dimension [mm] (inch)	B section dimension [mm] (inch)
A9GT-BUSSU/BUS2SU	81 (3.19)	85 (3.35)

<Dimensions for bus connection module/board mounting>



\* This module cannot be connected with the QCPU (Q mode, A mode).

\* The bus connection module (A9GT-BUSSU/BUS2SU) and bus connection board (A9GT-BUSS/BUS2S) cannot be used together.

### 4. Introducing an 8MB memory board.

Part name	Type	Remarks
Option function memory board	A9GT-QFNB8M*	Option functions (special module monitor function, ACPU list edit function, network monitor function, audio output function, recipe function, A/FX/QnACPU circuit monitor function compatible) + 8MB internal memory expansion
	A9GT-FNB8M*	Option functions (special module monitor function, ACPU list edit function, network monitor function, audio output function, recipe function, A/FXCPU circuit monitor function compatible) + 8MB internal memory expansion

\* When using the A9GT-QFNB8M or A9GT-FNB8M, SW3D5C-GOTRE -PACK Version A or above (ROM\_BIOS Version J or above) is required.

## [ Manual ]

Manual name	Manual shipment type	IB/SH No.	Type code
A950GOT-SBD/LBD(-M3), A951GOT-QSBD/QLBD(-M3), A951GOT-SBD/LBD(-M3), A953GOT-SBD/LBD(-M3), A956GOT-SBD/LBD(-M3) User's Manual (Hardware)	Found in the packing of the A95□GOT	IB-0800018	13JQ26
A9GT-QBUSS type Bus connection communication board User's Manual	Found in the packing of the A9GT-QBUSS	IB-0800073	13JQ75
A9GT-QBUS2S type Multidrop bus connection communication board User's Manual	Found in the packing of the A9GT-QBUS2S	IB-0800074	13JQ76
A9GT-QBUS2SU type Multidrop bus connection communication module User's Manual	Found in the packing of the A9GT-QBUS2SU	IB-0800083	13JQ83
A9GT-QCNB type Bus extension connector box User's Manual	Found in the packing of the A9GT-QCNB	IB-0800082	13JQ82
SW4D5C-GOTR-PACKE(V) Operating Manual*	Found in the packing of the SW4D5C-GOTR-PACKE	IB-0800094	13J978
GOT-A900 Series Operating Manual (SW4D5C-GOTR-PACKE compatible Extended·Option Function Manual)*	Available as option	SH-080069	13J979
GOT-A900 Series User's Manual (SW4D5C-GOTR-PACKE compatible Connection System Manual)*	Available as option	SH-080070	13JR11
A9GT-BUSSU type Bus connection communication module User's Manual	Found in the packing of the A9GT-BUSSU	IB-0800076	13JQ78
A9GT-BUS2SU type Multidrop bus connection communication module User's Manual	Found in the packing of the A9GT-BUS2SU	IB-0800077	13JQ79
Memory board for option functions type A9GT-QFNB/A9GT-QFNB4M/A9GT-QFNB8M User's Manual	Found in the packing of the A9GT-QFNB, A9GT-QFNB□M	IB-0800051	13JQ62
Memory board for option functions type A9GT-FNB/A9GT-FNB1M/A9GT-FNB2M/A9GT-FNB4M/A9GT-FNB8M User's Manual	Found in the packing of the A9GT-FNB, A9GT-FNB□M	IB-68975	13JM91

\* Stored as PDF data in SW4D5C-GOTR-PACKE product.

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