MITSUBISHI
Mitsubishi Graphic Operation Terminal

Graphic Operation Terminal
900 series

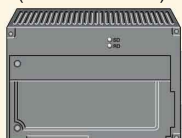2001   No.160E
NEW PRODUCT RELEASE

GOT-A900 Series

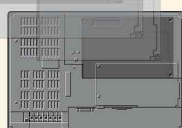## Announcement of the Compatibility with Ethernet Connection

NEW Ethernet communication modul (A9GT-J71E71-T)

With a GOT unit

Ethernet communication module is avairable to realize Ethernet connection with a GOT unit.

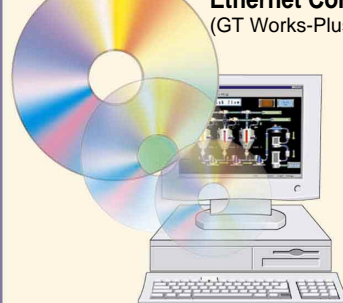GOT unit (front)   GOT unit (back)

Version up GT SoftGOT Compatibility with Ethernet Connection (GT Works-Plus)

MELSOFT

With a PC

< Ethernet Connection>
GT SoftGOT is compatible with Ethernet connection.

<E-mail function>
It sends Alarm via e-mail.

Personal computer

Personal computer (GT SoftGOT)

Ethernet connection provides the remote maintenance of the production site from the office.

It displays the same screen on an office PC as on the PC at the site.

Office

Production Site

Hub

Ethernet

Remote site

E-mail function
• It sends alarm occurrence and recovery via e-mail.
• It sends alarm history data, recipe data and screen images at regular intervals via e-mail.

GOT-A900 Series

PLC

• Personal computer   • Mobile phone

GOT-A900 Series compatible with Ethernet connection
A985GOT(-V), A975GOT, A970GOT, A960GOT, A956WGOT, A956GOT, GT SoftGOT

Ethernet modules that can be connected
• MELSEC-A Series compatible E71 ········ AJ71E71-S3, A1SJ71E71-B2-S3, A1SJ71E71-B5-S3
• MELSEC-QnA Series compatible E71 ····· AJ71QE71, A1SJ71QE71-B2, AJ71QE71-B5, A1SJ71QE71-B5
• MELSEC-Q Series compatible E71 ········ QJ71E71, QJ71E71-B2, QJ71E71-100

【Specification of the A9GT-J71E71-T 】

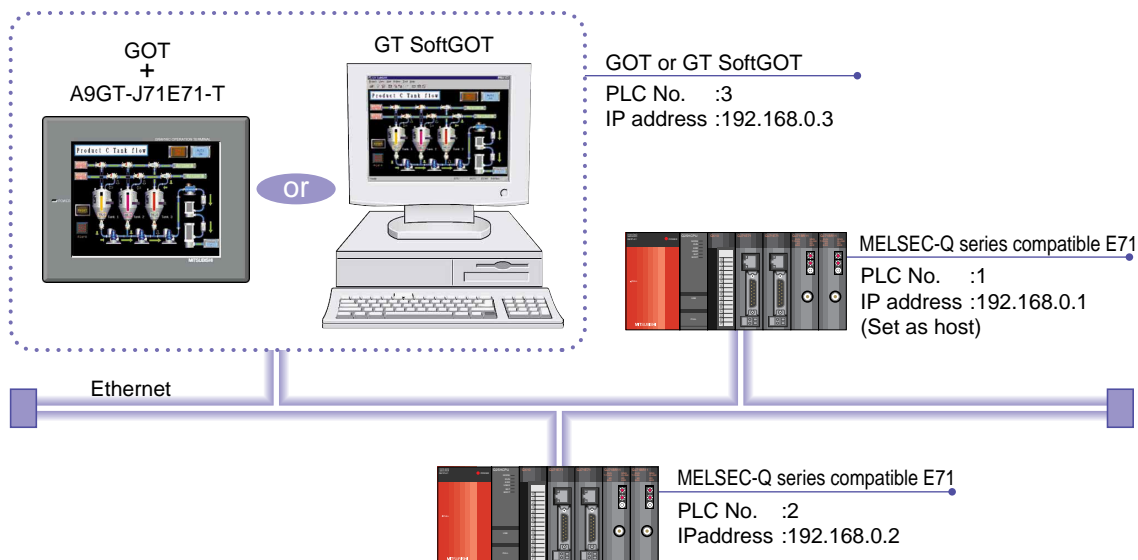| Item		Specification
Transmission specification	Data transmission speed	10Mbps
	Transmission method	Base band
	Maximum node to mode distance	4000m (1312ft)
	Maximum segment length	100m (328.1ft)
	Maximum number of nodes	1024unit/all hubs (12unit)
Internal consumed current (DC5V)[mA]		50
External dimensions [mm] (inch)		149(5.87)(W) x 99(3.90)(H) x 30.2(1.19)(D)
Weight [g] (lb)		160(0.35)

【Specification of the related devices 】
Use the connection cable and the hub which meet the IEEE802.3 10BASE-T standard.

Item	Specification
Cable	Non-shielded twisted pair wire (category3(4,5))
Connector	RJ45jack
Hub	10Mbps hub

GOT-A900 Series

GOT/GT SoftGOT can monitor an Ethernet module only with the PLC No. and the IP address.

GOT
+
A9GT-J71E71-T

GT SoftGOT

or

GOT or GT SoftGOT
PLC No.   :3
IP address :192.168.0.3

MELSEC-Q series compatible E71
PLC No.   :1
IP address :192.168.0.1
(Set as host)

Ethernet

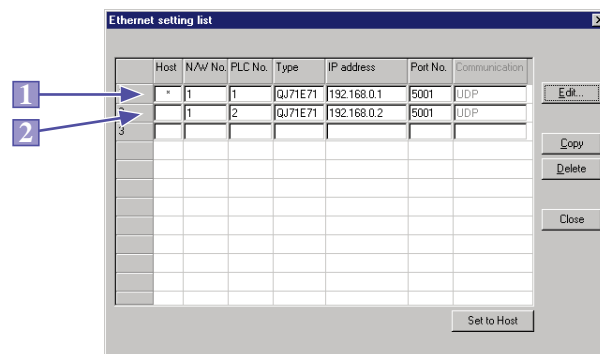**MELSEC-Q series compatible E71**
PLC No.   :2
IPaddress :192.168.0.2

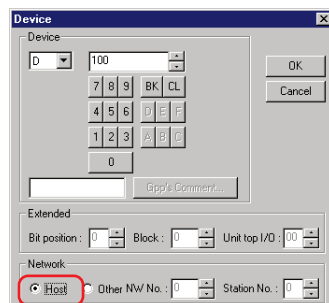## How to set the PLC No. and the IP address

Set the PLC No., IP address, etc., of the Ethernet module on "Ethernet setting list" screen of GT Designer.
One Ethernet module must be set as the host then.
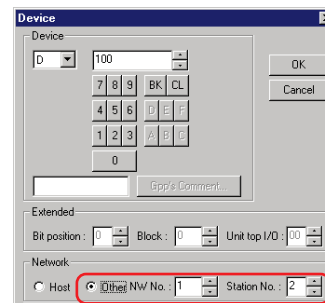The setting of the devices monitored, depends on whether the Ethernet module is the host or not.

Ethernet setting list

Host	N/W No.	PLC No.	Type	IP address	Port No.	Communication
*	1	1	QJ71E71	192.168.0.1	5001	UDP
	1	2	QJ71E71	192.168.0.2	5001	UDP
		3				

Edit...
Copy
Delete
Close
Set to Host

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1 Setting the devices of a host Ethernet module

Device

Device
D 100
7 8 9 BK CL
4 5 6 D E F
1 2 3 A B C
0
Gpp's Comment...

OK
Cancel

Extended
Bit position : 0   Block : 0   Unit top I/O : 00

Network
⦿ Host ○ Other NW No. : 0   Station No. : 0

Specify the network setting to "Host" on "Device setting" screen of GT Designer, for monitoring the Ethernet module set as the host.

2 Setting the devices of a non-host module.

Device

Device
D 100
7 8 9 BK CL
4 5 6 D E F
1 2 3 A B F
0
Gpp's Comment...

OK
Cancel

Extended
Bit position : 0   Block : 0   Unit top I/O : 00

Network
○ Host ⦿ Other NW No. : 1   Station No. : 2

Specify the network setting to "Other" on "Device setting" screen of GT Designer, for monitoring the Ethernet module that is not set as the host.

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*1 The PC number and the IP address on "Ethernet setting list" screen should be the same values set in the Parameter setting using GX Developer.
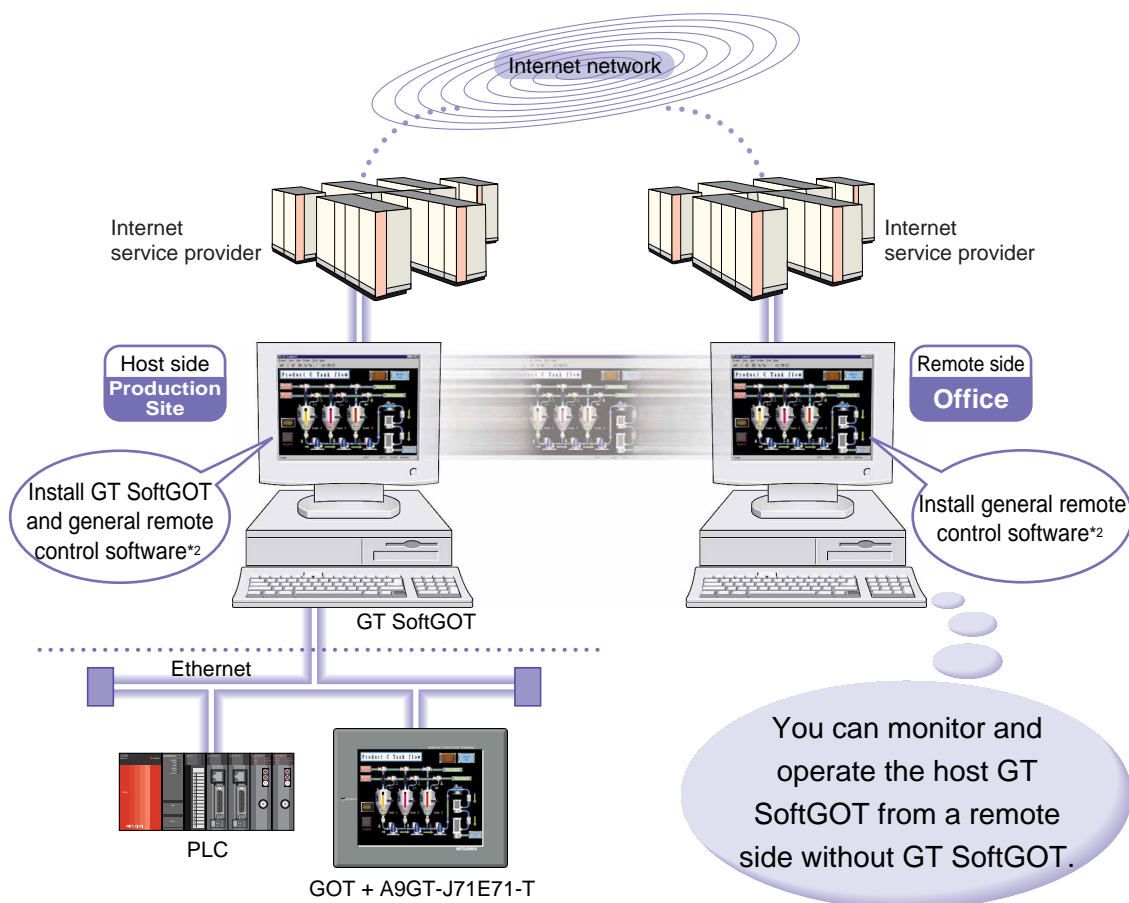
*2 The Ethernet setting of GOT/GT SoftGOT itself can be configured in the GOT/GT SoftGOT (GOT: Use the utility function of the GOT itself, GT SoftGOT: Set Options of GT SoftGOT). (Monitor screen data does not include the settings of the main unit of the GOT.)

You can achieve the following using our new product

Remote maintenance of the production site is enabled from the office by remote operation!

A remote PC can operate GT SoftGOT on the host side by using general remote control software that performs file transfer and remote operation of applications. This allows you to obtain the site information in the office without going to a remote factory or production site.
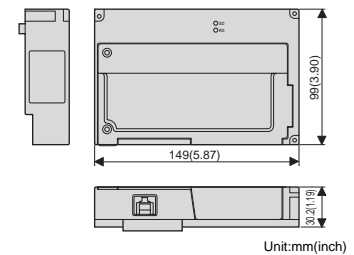
Example of remote control via the Internet [1]

Internet network

Internet service provider

Internet service provider

Host side
Production Site

Remote side
Office

Install GT SoftGOT and general remote control software[2]

Install general remote control software[2]

GT SoftGOT

Ethernet

PLC

GOT + A9GT-J71E71-T

You can monitor and operate the host GT SoftGOT from a remote side without GT SoftGOT.

Operation examples

1. You can start, monitor and operate the host GT SoftGOT from a remote side. (The remote side does not need a GT SoftGOT license.)

2. You can edit the monitor screen data from a remote side by starting GT Designer on the host side. Therefore, the monitor screen data of GT SoftGOT can be modified without going to the remote side.

3. You can immediately monitor GT SoftGOT from a remote side in a trouble at the host, so it is easy to check the status.
By using the e-mail function of GT SoftGOT at the host, it sends a message indicating alarm occurrence to a remote side.

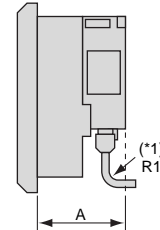*1 Remote operation can be performed using public line, mobile phones, or mobile cards.

*2 The remote control software Mitsubishi confirmed the operation with is pcAnywhere 10.0. Resetting of firewall may be required depending on the connection pattern.

Upgraded functions of GT Works Version 5/GT Designer Version 5, Version P (products shipped in May)

	Item	Description
Upgrade of maintenance functions	Enhanced multiple PLC monitoring	PLCs other than the one controlling the GOT can be monitored, when using multiple PLCs with the ladder monitor/system monitor/special module monitor.
	7-inch wide screen ladder monitor	The A956WGOT can use the QCPU ladder monitor function. (The A956WGOT complies with only the ladder monitor function with the QCPU (Q mode)).
	Larger ladder monitor display	The sequence program display area of the QCPU ladder monitor function is enlarged in the A985GOT (-V). (8-digit display changes to 15-digit display.)
	System monitoring with products of other manufacturers	GOT internal devices (GD/GB/GS) can be monitored using the PLCs of other companies.
	Enhanced special module monitor with multiple PLCs	The control PLC of each module is displayed on the system configuration screen during multiple PLC connection.
Upgrade of connection patterns	Compatibility with QUTE connection (GOT/GT SoftGOT)	Connection with the Q00J/Q00/Q01CPU is enabled.
	Compatibility with Ethernet connection (GOT)	Ethernet connection is enabled. (Complied with GT Works Version 5, Version K (products shipped in February, 2001).
	Addition of other PLC connection (GOT)	Connection with PLC MEWNET-FP Series (Matsushita) is enabled. Connection with PLC MP940 and CP-9300MS compatible with CP-9300MC (Yasukawa), is enabled.
	Support for G4 connection (GOT)	The QCPU (mater station/local station) can be monitored through the AJ65BT -G4-S3-type peripheral connection module integrated into the CC-Link system.
Upgrade of other functions	Auto setting of decimal point display	"Adjust decimal point range" setting is added to the numerical display function. If "Adjust decimal point range" is checked, the decimal point can be displayed easily without setting data calculation.
	Use of various display patterns	With the lamp/part (part movement)/numerical display function, display properties can be changed according to the status of specified devices (ON/OFF/device value).
	Any recipe file name	Any recipe file names can be set (maximum eight alphanumeric characters).
	Partial display of comments	It is possible to change the first line and display from the new line for creating a multi-line comment.
	Detailed setting possible for each screen	The key window/cursor display settings and key window screen number that were set for each project can now be set for each screen.
	Select printing color	The hard copy function now allows the color selection of 256 colors, 16 colors or black & white for output to the printer.
	Alarm history data editing	Alarm history data can be saved on a PC card in CSV format using the alarm history display function. Alarm history data can be checked and edited using applications such as a spreadsheet program for PCs. (Complied with GT Works Version 5/ GT Designer Version 5, Version F (products shipped in November, 2000).)

Out line dimension drawing of the A9GT-J71E71-T

149(5.87)   99(3.90)   30.2(1.19)

Unit:mm(inch)

Depth dimensions for the installation of the A9GT-J71E71-T

(*1) R1

A

*1 The bending raius (R1:standard value) in the proximity of connector should be at least 4 times the external from of the cable.

GOT model to be installed	Dimension of section A [mm](inch)
A985GOT/A960GOT	73.2(2.88)
A975GOT/A970GOT	70.2(2.76)
A956WGOT	96.0(3.78)
A956GOT-TBD	89.2(3.51)
A956GOT-SBD/LBD	81.2(3.20)

【Product configuration】

Item	Type
A9GT-J71E71-T type Ethernet communication module	A9GT-J71E71-T
GT Works-Plus (GT Works + License key for GT SoftGOT)	SW5D5C-GTWORKS-SE
GT Works (GT Designer + GT Simulator + GT SoftGOT)	SW5D5C-GTWORKS-E
License key for GT SoftGOT	A9GTSOFT-LKEY-P

【Manual】

Manual name	Manual shipping from	IB/SH No.	Type code
A9GT-J71E71-T type Ethernet communication modul User's Manual (Hardware)	Enclosed with product	IB-0800199	(13JT61)
GT Works Version5/GT Designer Version5 Reference Manual	Optional *1	SH-080117	(13JF95)
GOT-A900 Series Operating Manual (GT Works Version5/GT Designer Version5 compatible Extended•Option Functions Manual)	Optional *1	SH-080118	(13JU08)
GOT-A900 Series User's Manual (GT Works Version5/GT Designer Version5 compatible Connection System Manual)	Optional *1	SH-080119	(13JR20)
GT SoftGOT Version5 Operating Manual	Optional *1	SH-080156	(13JU12)

*1 GT Works includes the electrical data of the manual in PDF format. (GT Works also includes the program required to view PDF-formatted manuals on a PC (Acrobat Reader).)

MITSUBISHI ELECTRIC CORPORATION

Specifications subject to change without notice.
Printed in Japan on recycled paper.

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