MITSUBISHI ELECTRIC

TECHNICAL BULLETIN [1 / 4]

[Issue No.] GOT-A-0085
[Title] List of SLMP-compatible Equipment Validated to Operate with the GOT2000 Series
[Date of Issue] July 2015
[Relevant Models] GOT2000 Series

Thank you for your continued support of Mitsubishi Graphic Operation Terminal (GOT).
This bulletin provides information on SLMP-compatible equipment validated to operate with the GOT2000 series.
For the production status and specifications of each product, contact the relevant manufacturer.

Recommended Product
A product that complies with our standard.
Make sure that you use the product compliant with the specification (standard).
Compatible Product
A product that satisfies the requirements to be interfaced with Mitsubishi products.
(Note that satisfaction of Mitsubishi specifications is not guaranteed.)
Therefore, make sure to comply with the specifications for that product when using it together with Mitsubishi products.
Even when Compatible Products are used, some products may not be compatible with the GOT 2000 series. Because the specifications of the products are changed according to the date of manufacture. When using Compatible Products, examine the products fully and decide whether to use or not.
Discontinued Product
A product that has been introduced as Recommended Product or Compatible Product in the bulletin before. We think that you will have difficulty to obtain the product because of production discontinuation and others.
Incompatible Product
A product that does not satisfy the requirements to be interfaced with Mitsubishi products.
Use Compatible Product.

Contents

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1. Overview

The GOT2000 series can communicate with SLMP-compatible equipment by using the Ethernet(SLMP) communication driver.
The GOT2000 series operates as a client and is connectable to SLMP-compatible equipment operating as a server.
Table 1-1 below shows the status of support for the Ethernet(SLMP) communication driver according to the GOT2000 series models.

Table 1-1 Status of support for the communication driver according to the GOT models

Connection type	Communication type	Communication driver	GT27	GT25	GT23	GT SoftGOT2000
SLMP connection	Ethernet *1	Ethernet(SLMP), Gateway	Supported	Supported	Supported	Not Supported

*1 TCP and UDP are supported.

For the settings to connect the GOT2000 series to SLMP-compatible equipment, refer to the following manual.

➟ GOT2000 Series Connection Manual (Microcomputers, MODBUS/Fieldbus Products, Peripherals) (SH-081200ENG)

2. Precautions

The maximum number of devices that can be processed by the GOT in one communication varies depending on the monitoring target equipment. In the communication detail settings, set [Device read points(Points)], [Device write points(Points)], [Device read random points(Points)], and [Device write random points(Points)] according to the equipment specifications.
Table 2-1 below shows the maximum number of devices settable for each setting item.

Table 2-1 Maximum number of devices settable for each setting item

Setting item	Maximum number of devices	Remarks
[Device read points(Points)]	960	The number indicates the maximum number of word devices. To obtain the maximum number of bit devices, multiply the number by 16.
[Device write points(Points)]	960	The number indicates the maximum number of word devices. To obtain the maximum number of bit devices, multiply the number by 16.
[Device read random points(Points)]	192	The number indicates the maximum number of word devices. * Reading data from separate bit devices is not supported.
[Device write random points(Points)]	160	The number indicates the maximum number of word devices. To obtain the maximum number of bit devices, multiply the number by 16.

The maximum number of devices is automatically adjusted according to the setting of [Communication data code] (ASCII code or binary code) in the communication detail settings and the setting of [Communication] (TCP or UDP) in the Ethernet setting. Table 2-2 below shows the maximum number of devices after the automatic adjustment.

Table 2-2 Maximum number of devices after the automatic adjustment

Setting item	Setting value	Maximum number of devices after the automatic adjustment							
		Word device				Bit device			
		TCP		UDP		TCP		UDP	
		ASCII code	Binary code	ASCII code	Binary code	ASCII code	Binary code	ASCII code	Binary code
[Device read points(Points)]	960	960	960	344	680	3584	7168	344	680
[Device write points(Points)]	960	960	960	344	680	3584	7168	344	680
[Device read random points(Points)]	192	192	192	110	160	-	-	-	-
[Device write random points(Points)]	160	160	160	110	160	188	188	110	160

To connect the GOT to Mitsubishi SLMP-compatible equipment, it is recommended to set the values shown in the [Setting value] column in table 2-2.

3. List of validated SLMP-compatible equipment

Table 3-1 below shows SLMP-compatible equipment validated to operate with the GOT2000 series.

Table 3-1 Validated SLMP-compatible equipment (Compatible Product)

Manufacturer	Model	Setting method
Mitsubishi Electric Corporation	Refer to Section 3.1.	Refer to Section 3.1.1.

3.1 Mitsubishi equipment

Table 3-2 below shows Mitsubishi SLMP-compatible equipment validated to operate with the GOT2000 series.

Table 3-2 Validated SLMP-compatible equipment (Recommended Product)

Series name	Communication module	Communication type	Connection cable
MELSEC iQ-R series	Ethernet port built in the CPU	Ethernet	*3
	RJ71EN71		
MELSEC-Q	QJ71E71-100 *1		
MELSEC-L	LJ71E71-100 *2		
MELSEC iQ-F series	Ethernet port built in the CPU		
Network-related product NZ2GF-ETB	Ethernet port built in the CPU		

*1 The serial number must include "15042" in the first five digits, and the function version must be D or later.
*2 The serial number must include "15042" in the first five digits, and the function version must be A or later.
*3 For the connection cable, refer to the following manual.
➟ GOT2000 Series Connection Manual (Microcomputers, MODBUS/Fieldbus Products, Peripherals) (SH-081200ENG)

3.1.1 Setting method

(1) MELSEC iQ-R series and MELSEC iQ-F series
Set the MELSEC iQ-R series or MELSEC iQ-F series with GX Works3.
For the details, refer to the following manuals.
➟ MELSEC iQ-R Ethernet User's Manual (Application) (SH-081257ENG)
MELSEC iQ-F FX5 User's Manual (Ethernet Communication) (JY997D56201)

(2) MELSEC-Q and MELSEC-L (Ethernet interface module)
Set the MELSEC-Q or MELSEC-L Ethernet interface module with GX Works2.
For the details, refer to the following manuals.
➟ Q Corresponding Ethernet Interface Module User's Manual (Basic) (SH-080009)
MELSEC-L Ethernet Interface Module User's Manual (Basic) (SH-081105ENG)

(3) MELSEC-L (Ethernet adapter module)
Set the MELSEC-L Ethernet adapter module with the Ethernet adapter module configuration tool.
For the details, refer to the following manual.
➟ CC-Link IE Field Network Ethernet Adapter Module User's Manual (SH-080939ENG)

4. Appendices

4.1 Commands issued by the GOT

Table 4-1 below shows the commands issued by the GOT.

Table 4-1 Commands issued by the GOT

Command	Subcommand	Command name	Description
0401	0001	Reading data from consecutive bit devices	Read data from consecutive bit devices in 1-point units.
	0000	Reading data from consecutive word devices	Read data from consecutive word devices in 1-point units.
1401	0001	Writing data to consecutive bit devices	Write data to consecutive bit devices in 1-point units.
	0000	Writing data to consecutive word devices	Write data to consecutive word devices in 1-point units.
0403	0000	Reading data from separate word devices	Read data from separate word devices in 1-point units.
1402	0001	Writing data to separate bit devices	Write data to separate bit devices in 1-point units.
	0000	Writing data to separate word devices	Write data to separate word devices in 1-point units.

For the details of the commands, refer to the following manual.

➟ SLMP Reference Manual (SH-080956ENG)

4.2 Operating the GOT as an SLMP server

To operate the GOT as an SLMP server, use the Ethernet(MICROCOMPUTER) communication driver. In the communication detail settings for the Ethernet(MICROCOMPUTER) communication driver, set [Format] to 6 or 7 (4E frame), or 8 or 9 (QnA compatible 3E frame).

For the setting details, refer to the following manual.

➟ GOT2000 Series Connection Manual (Microcomputers, MODBUS/Fieldbus Products, Peripherals) (SH-081200ENG)

REVISIONS

Version	Print Date	Revision
-	July 2015	- First edition