Mitsubishi Electric Corporation

Q/QnA Series Ethernet Driver

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Introduction

This manual describes how to connect the display and the External Device (target PLC).

In this manual, the connection procedure will be described by following the below sections:



1 System Configuration

The system configuration in the case when the External Device and the Display are connected is shown.

Series	CPU	Link I/F	SIO Type	Setting Example
	Q00CPU Q00JCPU Q01CPU Q02CPU Q02HCPU Q06HCPU Q12HCPU Q25HCPU Q03UDECPU Q04UDEHCPU Q06UDEHCPU Q13UDEHCPU Q26UDEHCPU	0171571	Ethernet (UDP)	Setting Example 1 (page 9)
		QJ/IE/I	Ethernet (TCP)	Setting Example 2 (page 14)
		QJ71E71-B2	Ethernet (UDP)	Setting Example 1 (page 9)
			Ethernet (TCP)	Setting Example 2 (page 14)
MELSEC Q Series		0171571 05	Ethernet (UDP)	Setting Example 1 (page 9)
	Q02UCPU Q03UDCPU Q04UDHCPU	QJ/1E/1-B3	Ethernet (TCP)	Setting Example 2 (page 14)
	Q06UDHCPU Q13UDHCPU O26UDHCPU		Ethernet (UDP)	Setting Example 1 (page 9)
	Q03UDVCPU Q04UDVCPU Q06UDVCPU Q13UDVCPU Q26UDVCPU	QJ71E71-100	Ethernet (TCP)	Setting Example 2 (page 14)
	Q2ACPU Q2ACPU-S1	AJ71QE71	Ethernet (UDP)	Setting Example 3 (page 18)
			Ethernet (TCP)	Setting Example 4 (page 22)
	Q4ACPU Q4ACPU Q4ARCPU	A 1710E71 D5	Ethernet (UDP)	(page 22) Setting Example 3 (page 18)
MELSEC		AJ/IQE/I-D3	Ethernet (TCP)	Setting Example 4 (page 22)
Series	Q2ASCPU Q2ASHCPU Q2ASCPU-S1 Q2ASHCPU-S1	A1SJ71QE71-B2	Ethernet (UDP)	Setting Example 3 (page 18)
			Ethernet (TCP)	Setting Example 4 (page 22)
		41SI710F71-R5	Ethernet (UDP)	Setting Example 3 (page 18)
		1103/120/1-03	Ethernet (TCP)Setting Example 4 (page 22)	

Series	CPU	Link I/F	SIO Type	Setting Example
MELSEC L Series	L02CPU	Ethernet port on CPU unit	Ethernet (UDP)	Setting Example 5 (page 25)
	L26CPU-BT		Ethernet (TCP)	Setting Example 6 (page 28) Setting Example 7
	R04CPU R04ENCPU	Ethernet port on	Ethernet (UDP)	Setting Example 7 (page 31)
MELSEC	R08CPU R08ENCPU R16CPU	CPU	Ethernet (TCP)	Setting Example 8 (page 34)
Series	R16ENCPU R32CPU R32ENCPU	D 171 EN71	Ethernet (UDP) Setting Example 9 (page 37)	Setting Example 9 (page 37)
	R120CPU R120ENCPU	KJ/TEN/T	Ethernet (TCP)	Setting Example 10 (page 40)
MELSEC iQ-F Series	FX5UCPU	Ethernet port on	Ethernet (UDP)	Setting Example 11 (page 43)
	FX5UCCPU	CPU	Ethernet Setting Example (TCP) (page 46)	

IMPORTANT	 When you open the project file (which has been created with the Ver.1.12.04 or earlier Q/QnA series Ethernet driver) with GP-Pro EX where Ver.1.12.05 or later driver is installed, the [Multiple CPU system] checkbox in the [Basic] tab is checked. Specify [Multiple CPU system] according to the environment you use. Image: Image: Image
NOTE	• The time of GP4000 series can be automatically updated in [Clock Update Settings] of GP-Pro
·	EX, if you set the External Device bit address SM213 to ON. For details on [Clock Update Settings], refer to GP-Pro EX Reference Manual.

Connection Configuration

• 1:1 Connection



• 1:n Connection (when access station is source station)

Max. 16 units (TCP/IP connection) Max. 32 units (UDP/IP connection)



• 1:n Connection (access beyond network)



NOTE

- In case of communication via network, please set larger value than the response monitoring time of the relay station for timeout settings.
- When the relay station is iQ-R series, use units with firmware version 9 or later.
- The iQ-F series cannot be used as a relay station.

Setting examples for access beyond the network are shown below. Check the details of the setup items in "Setup Item"

```
"3.7 Setting Example 7" (page 31)
```



External Device to be Accessed	Port No.	Station No.	Network No.	PC No.	Request destination module I/O No.	Request destination module Station No.
External Device (1)	1025	5	0	255	1023	0
External Device (11)	1026	5	2	6	1023	0
External Device (22)	1027	5	3	8	32	15

n : 1 Connection



- *1 When transmitting data via the External Device's OPEN Setting feature instead of the Auto OPEN UDP Port feature, up to 16 Displays can be connected. Also, when using the External Device's Auto Open UDP Port feature, there is no limitation for the number of Display units that can be connected.
- *2 When transmitting data via the External Device's parameter setting instead of the Auto OPEN UDP Port feature, up to 8 Displays can be connected. Also, when using the External Device's Auto Open UDP Port feature, there is no limitation for the number of Displays that can be connected.
 - Multi CPU System



- For CPU's Unit No., No.1 is allocated to the CPU slot and No.2, 3, and 4 are allocated to the other slots from No.1 to right.
 - With Multi CPU System, it's possible to access a CPU unit that is not directly connected.

2 Selection of External Device

Select the External Device to be connected to the display.

#Welcome to GP-Pro EX		×
67-7ro	Device/PLC	ices/PLCs 1
		Device/PLC 1
	Manufacturer	Mitsubishi Electric Corporation
	Series	Q/QnA Series Ethernet
	Port	Ethernet (UDP)
		Refer to the manual of this Device/PLC
		Recent Device/PLC
	4	
	Use System	n Area <u>Device Information</u>
		Back (B) Communication Settings New Screen Cancel

Setup Items	Setup Description
Number of Devices/ PLCs	Enter an integer from 1 to 4 for the number of series to set.
Manufacturer	Select the manufacturer of the External Device to be connected. Select "Mitsubishi Electric Corporation".
Series	Select a model (series) of the External Device to be connected and connection method. Select "Q/QnA Series Ethernet". Check the External Device which can be connected in "Q/QnA Series Ethernet" in system configuration. "" "1 System Configuration" (page 3)
Port	Select the port of the display to be connected to the External Device from "Ethernet (UDP)" and "Ethernet (TCP)". NOTE When using PLC ladder monitor, select "Ethernet (UDP)."
Use System Area	Check this option when you synchronize the system data area of Display and the device (memory) of External Device. When synchronized, you can use the ladder program of External Device to switch the display or display the window on the display. Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)" This can also be set in GP-Pro EX or in the Display's offline mode. Cf. GP-Pro EX Reference Manual "Display Unit (System Area) Settings Guide" Cf. Maintenance/Troubleshooting Guide "Main Unit - System Area Settings"

3 Example of Communication Setting

Examples of communication settings of the Display and the External Device, recommended by Pro-face, are shown.

3.1 Setting Example 1

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Mitsub	ishi Electric Corporation Series Q/QnA Series Ethemet	Port Ethemet (UDP)
Text Data Mode	2 Change	
Communication Settings		
Port No.	1025 🚊	
Timeout	3 (sec)	
Retry	2	
Wait To Send	0 (ms) Default	
Device-Specific Setting	3	
Allowable Number of Devices/PLCs	Add Device 32	
No. Device Name	Settings	Add Indirect Device
1 PLC1	Series=Q/QnA Series,IP Address=192.168.000.001,Pc	5

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

🎒 Individual Devic	e Settings 🛛 🗶
PLC1	
Basic Other Station	Access Ladder Monitor
Series	Q/QnA Series
IP Address	192. 168. 0. 1
Port No.	1025
Communication data	code
Binary code	C ASCII code
Multiple CPU sys	stem
No. of CPU	1
Connected to G	Series E71 I/F Module
	Default
	Delaur
	OK (O) Cancel

[Basic] tab

[Other	Station	Access]	tab
--------	---------	---------	-----

🎒 Individual Device Se	ettings X
PLC1	
Basic Other Station Acce	ess Ladder Monitor
Network No. PC No.	0 ÷
Request destination mo	dule
I/O No.	1023 📫
Station No.	0 🕂
	Default
	OK (O) Cancel

[Ladder Monitor] tab

Findividual Device Settings	<
PLC1	
Basic Other Station Access Ladder Monitor	
Host network No. 1	
Default	
OK (0) Cancel	

- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device for IP address in Device-specific settings.
- You need to set IP address on the display in the offline mode of the display.
- Limitations when you use UDP/IP to access the multiple PLCs via network are shown below.
 - When you set the retry frequency to zero, the error message of "Response timed out for initial communication command" is displayed at startup.
 - At startup, you cannot read the device data until timeout time elapses once.

Setting of External Device

Perform the settings of External Device in "Network Parameter" of the Parameter Settings of the ladder software.

Network Parameter MNET/10H Ethernet Settings

Setup Items	Settings
Network Type	Ethernet
Head I/O No.	Option
Network No.	Option
Group No.	Option
Station No.	Option
Mode	On-line (Contraction of the second se

Ethernet Operation Settings

Setup Items	Settings
Communication Data Code Settings	Binary code communication
Initial Timing Settings	Always wait for OPEN
IP Address Setting	192.168.0.1
Send Frame Settings	Ethernet (V2.0)
TCP Living Confirmation Settings	Option
Enable Write during RUN	Enable

♦ Open Settings

Setup Items	Settings
Protocol	UDP
Open Method	Unused
Source Port No.	401H ^{*1*2}
Destination IP Address	192.168.0.2*1*3
Destination Port Number	401H ^{*1*2*3}
Fixed Buffer	Option
Update Procedure of Fixed Buffer	Procedure exist
Pairing Opening	Option
Living Confirmation	Option

*1 Check with a network administrator about setting value.

*2 Enter in hex number.

*3 Adjust to the setting on Display.

♦ Other Settings

The following settings are items only if necessary.

- Initial Settings Settings related to timer for TCP connection. Basically, communication is available with default settings. Change the settings when you want to customize (such as shortening timeout).
- Routing Information Set only when you use subnet mask or router.
- Auto Open UDP Port When you use the UDP port, you can communicate using the auto open UDP port (port No. 5000) on the PLC.

Notes

Check with a network administrator about IP address. Do not set the duplicate IP address.

3.2 Setting Example 2

- Setting of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer	Mitsubishi Electric Corporation Series Q/QnA Series Ethemet	Port Ethemet (TCP)
Text Data Mode	2 Change	
Communication S	lettings	
Port No.	1025 🖃 🔽 Auto	
Timeout	3 🕂 (sec)	
Retry	0 🚊	
Wait To Send	0 (ms) Default	
Device-Specific S	Settings	
Allowable Num of Devices/PLC	ber <u>Add Device</u> Ss 16	
No. Device I	Name Settings	Add Indirect Device
👗 1 🛛 PLC1	Series=Q/QnA Series,IP Address=192.168.000.001,Pc	F.

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

🎒 Individual Devic	e Settings 🛛 🗙		
PLC1			
Basic Other Station	Access Ladder Monitor		
Series	Q/QnA Series		
IP Address	192. 168. 0. 1		
Port No.	1025		
Communication data	a code		
Binary code	C ASCII code		
Multiple CPU sys	stem		
No. of CPU	1		
Connected to Q Series E71 I/F Module			
	Default		
	OK (O) Cancel		

[Basic] tab

<i> individu</i>	al Device Set	tings		×
PLC1				
Basic Ot	her Station Acces	s Ladder	Monitor	_
Network	c No.	0	*	
PC No.		255	÷	
Reques	t destination mod	ule		
I/O N	lo.	1023	* *	
Stati	on No.	0	÷	
			Default]
	0	IK (O)	Cancel	

[Ladder Monitor] tab

🚰 Individual Device Settings 🛛 🔀		
PLC1		
Basic Other Station Access	Ladder Monitor	
Host network No. Host station No. PC station No.		
	Default	
OK	(O) Cancel	

- · Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device for IP address in Device-specific settings.
- You need to set IP address on the display in the offline mode of the display.

Settings of External Device

Perform the settings of External Device in "Network Parameter" of the Parameter Settings of the ladder software.

Network Parameter MNET/10H Ethernet Settings

Setup Items	Settings
Network Type	Ethernet
Head I/O No.	Option
Network No.	Option
Group No.	Option
Station No.	Option
Mode	On-line (Contraction of the second se

Ethernet Operation Settings

Setup Items	Settings
Communication Data Code Settings	Binary code communication
Initial Timing Settings	Always wait for OPEN
IP Address Setting	192.168.0.1
Send Frame Settings	Ethernet (V2.0)
TCP Living Confirmation Settings	Option
Enable Write during RUN	Enable

♦ Open Settings

Setup Items	Settings
Protocol	ТСР
Open Method	Unpassive
Source Port No.	401H ^{*1*2}
Destination IP Address	Setting unnecessary
Destination Port Number	Setting unnecessary
Fixed Buffer	Option
Update Procedure of Fixed Buffer	Procedure exist
Pairing Opening	Option
Living Confirmation	Option

*1 Check with a network administrator about setting value.

*2 Enter in hex number.

♦ Other Settings

The following settings are items only if necessary.

- Initial Settings
 Settings related to timer for TCP connection. Basically, communication is available with default settings. Change the settings when you want to customize (such as shortening timeout).
- Routing Information Set only when you use subnet mask or router.
- Auto Open UDP Port When you use the UDP port, you can communicate using the auto open UDP port (port No. 5000) on the PLC.

Notes

Check with a network administrator about IP address. Do not set the duplicate IP address.

3.3 Setting Example 3

Setting of GP-Pro EX

Device/PLC 1	
Summary	Change Device/PLC
Manufacturer Mitsubishi Electric Corporation Series Q/QnA Series Ethernet	Port Ethemet (UDP)
Text Data Mode 2 Change	
Communication Settings	
Port No. 1025	
Timeout 3 😴 (sec)	
Retry 2	
Wait To Send 0 💼 (ms) Default	
Device-Specific Settings	
Allowable Number <u>Add Device</u>	
No. Device Name Settings	Add Indirect
1 PLC1 Series=Q/QnA Series,IP Address=192.168.000.001,Pc	.

TTo display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

🚰 Individual Device Settings 🛛 🛛 🗙				
PLC1				
Basic Other Station	Access Ladder Monitor			
Series	Q/QnA Series			
IP Address	192. 168. 0. 1			
Port No.	1025			
Communication data	code			
Binary code	C ASCII code			
Multiple CPU sys	stem			
No. of CPU	1 -			
Connected to Q	Series E71 I/F Module			
	Default			
[OK (O) Cancel			

[Basic] tab

🎒 Individual D	evice Settings
PLC1	
Basic Other St	ation Access Ladder Monitor
Network No.	
PC No.	255 ÷
Request dest	instion module
I/O No.	1023
Station No	
	Default
	OK (O) Cancel

[Ladder Monitor] tab

🎒 Individual Device Settings 🛛 🗙		
PLC1		
Basic Other Station Access	Ladder Monitor	
Host network No. Host station No. PC station No.	1 2 4 2 4	
	Default	
OK	(O) Cancel	

- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device for IP address in Device-specific settings.
- You need to set IP address on the display in the offline mode of the display.
- Limitations when you use UDP/IP to access the multiple PLCs via network are shown below.
 - When you set the retry frequency to zero, the error message of "Response timed out for initial communication command" is displayed at startup.
 - At startup, you cannot read the device data until timeout time elapses once.

Setting of External Device

You need the DIP switch settings and the ladder program for the setting of External Device.

Switch Settings

Mode Setting Switch

Settings	Setup Items
0	On-line

Communication Condition Setting Switch

DIP Switch	Settings	Setup Items
SW1	OFF	Selection of line processing at TCP timeout error
SW2	OFF	Data Code Setting
SW3	OFF	Operate along Y19
SW4	OFF	Disable (Fixed to OFF)
SW5	OFF	Disable (Fixed to OFF)
SW6	OFF	Disable (Fixed to OFF)
SW7	ON	CPU Communication Timing Settings
SW8	OFF	Initial Timing Settings

Example of Ladder Program

Example when you communicate with the auto open UDP port No. (Default: 5000) is shown below.

- IP address of External Device: 192.168.0.1
- Port No. of External Device: 5000

SM402 (1 scan only after RUN)	(Initial command)
-11	—————— [PLS MO] Initial trigger processing
MO X1F (WDT error detected)	
-II-/1	[DMOVP HC0A80001 D1000] IP address of PLC
	[DT0 H0 H0 D1000 K1] Copy to buffer memory
	[SET Y19] Initial request
	————— [END]

Above sample is the minimum ladder to enable UDP communication with Display. Please refer to the manual of External Device for more information about error processing and TCP communication, etc.

[•] You do not need to specify the IP address and the port No. on the PLC for communication with this function.

3.4 Setting Example 4

- Setting of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Mitsub	ishi Electric Corporation Series Q/QnA Series Ethernet	Port Ethemet (TCP)
Text Data Mode	2 Change	
Communication Settings		
Port No.	1025 🚽 🖌 Auto	
Timeout	3	
Retry	0	
Wait To Send	0 (ms) Default	
Device-Specific Setting	3	
Allowable Number of Devices/PLCs	Add Device	
No. Device Name	Settings	Add Indirect Device
👗 1 PLC1	Series=Q/QnA Series,IP Address=192.168.000.001,Pc	1

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

🎒 Individual Device Settings 🛛 🛛 🔀				
PLC1				
Basic Other Station	n Access Ladder Monitor			
Series	Q/QnA Series			
IP Address	192. 168. 0. 1			
Port No.	1025			
Communication dat	ta code			
Binary code	C ASCII code			
Multiple CPU sy	vstem			
No. of CPU	1			
Connected to	Q Series E71 I/F Module			
	Default			
	OK (0) Cancel			

[Basic] tab

<i> individu</i>	al Device Set	tings		×
PLC1				
Basic Ot	her Station Acces	s Ladder	Monitor	_
Network	c No.	0	*	
PC No.		255	÷	
Reques	t destination mod	ule		
I/O N	lo.	1023	* *	
Stati	on No.	0	÷	
			Default]
	0	IK (O)	Cancel	

[Ladder Monitor] tab

🎒 Individual Device Settings 🛛 🛛 🔀		
PLC1		
Basic Other Station Access	Ladder Monitor	
Host network No. Host station No. PC station No.		
	Default	
ОК	(O) Cancel	

- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device for IP address in Device-specific settings.
- You need to set IP address on the display in the offline mode of the display.

Settings of External Device

You need the DIP switch settings and the ladder program for the setting of External Device.

Switch Settings

Mode Setting Switch

Settings	Setup Items
0	On-line

Communication Condition Setting Switch

DIP Switch	Settings	Setup Items
SW1	OFF	Selection of line processing at TCP timeout error
SW2	OFF	Data Code Setting
SW3	OFF	Operate along Y19
SW4	OFF	Disable (Fixed to OFF)
SW5	OFF	Disable (Fixed to OFF)
SW6	OFF	Disable (Fixed to OFF)
SW7	ON	CPU Communication Timing Settings
SW8	OFF	Initial Timing Settings

Example of Ladder Program

Example when you communicate with the auto open UDP port No. (Default: 5000) is shown below.

- IP address of External Device: 192.168.0.1
- Port No. of External Device: 5000

SM402 (1 scan only after RUN)	(Initial command)
-11	————— [PLS MO] Initial trigger processing
MO X1F (WDT error detected)	
-II-#1-p	[DMOVP HC0A80001 D1000] IP address of PLC
	[DT0 H0 H0 D1000 K1] Copy to buffer memory
	[SET Y19] Initial request
	————— [END]

Above sample is the minimum ladder to enable UDP communication with AGP. Please refer to the manual of External Device for more information about error processing and TCP communication, etc.

[•] You do not need to specify the IP address and the port No. on the PLC for communication with this function.

3.5 Setting Example 5

- Setting of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Mitsubishi Elec	tric Corporation Series Q/QnA Series Ethemet	Port Ethemet (UDP)
Text Data Mode 2	Change	
Communication Settings		
Port No. 102	5 📑	
Timeout 3	• (sec)	
Retry 2	-	
Wait To Send 0	(ms) Default	
Device-Specific Settings		
Allowable Number of Devices/PLCs 32	Add Device	
No. Device Name	Settings	Add Indirect Device
🔏 1 PLC1	Series=Q/QnA Series,IP Address=192.168.000.001,Pc	

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

[Basic] tab				
🎒 Individual Device S	ettings X			
PLC1				
Basic Other Station Acc	cess Ladder Monitor			
Series	Q/QnA Series			
IP Address	192. 168. 0. 1			
Port No.	1025			
Communication data co	de			
Binary code	C ASCII code			
Multiple CPU system	n			
No. of CPU	1 🚊			
Connected to Q Se	ries E71 I/F Module			
	Default			
	OK (O) Cancel			

1	🚰 Individual Device Settings 🛛 🔀						
	PLC1						
	Basic	Other Stati	on Acces	s Ladde	er Monito	r]	
	Net PC I	work No. No.		0			
	Req	uest destina	ition modi	ule			
	I	/O No.		1023	=		
	5	Station No.		0	÷		
					[Default	
			0	K (O)		ancel	

[Ladder Monitor] tab

SIndividual Device Setti PLC1	ngs X
Basic Other Station Access	Ladder Monitor
Host network No. Host station No. PC station No.	
	Default
ОК	(O) Cancel

[Other Station Access] tab

- The check on [Connected to Q Series E71 I/F Module] is removed.
- · Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device for IP address in Device-specific settings.
- You need to set IP address on the display in the offline mode of the display.

Setting of External Device

To configure communication settings, use the ladder software (GX-Developer Ver.8.88S). After completing the settings, reboot the External Device to enable them. Please refer to the manual of the External Device for details.

- 1 Start up the ladder software.
- 2 Double-click [PC Parameter] under [Parameter].
- **3** Configure the following settings in the [Built-in Ethernet port] tab of the window that appears.

Setup Items	Settings
IP Address	192.168.0.1
Subnet Mask pattern	Option
Default Router IP Address	Option
Communication Data Code Settings	Binary code communication
Enable Write during RUN	Enable ^{*1}

- *1 It enables writing to the External Device even when the CPU is in RUN status.
- 4 Click [Open settings].
- **5** Configure the following settings in the window that appears.

Setup Items	Settings
Protocol	UDP
Open Method	MC Protocol
Source Port No.	401H ^{*1}

*1 Use an integer from "0401H to 1387H" and "1392H to FFFEH" to enter the source port No. Check with a network administrator about setting value.

• When connecting more than one Display, set for the number. Please set the source port No. so as not to overlap.

6 Click [End].

3.6 Setting Example 6

Setting of GP-Pro EX

♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Mi	tsubishi Electric Corporation Series Q/QnA Series Ethemet	Port Ethemet (TCP)
Text Data Mode	2 Change	
Communication Sett	ings	
Port No.	1025 🔄 🖌 Auto	
Timeout	3 📫 (sec)	
Retry	0 -	
Wait To Send	0 (ms) Default	
Device-Specific Set	tings	
Allowable Numbe of Devices/PLCs	r <u>Add Device</u>	
No. Device Na	me Settings	Add Indirect Device
👗 1 PLC1	Series=Q/QnA Series,IP Address=192.168.000.001,Pd	

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

[Basic] tab				
🎒 Individual Device S	ettings X			
PLC1				
Basic Other Station Acc	cess Ladder Monitor			
Series	Q/QnA Series			
IP Address	192. 168. 0. 1			
Port No.	1025			
Communication data co	de			
Binary code	C ASCII code			
Multiple CPU system	n			
No. of CPU	1			
Connected to Q Se	ries E71 I/F Module			
	Default			
	OK (0) Cancel			

🎒 Indivi	idual Device Se	ettings X
PLC1		
Basic	Other Station Acc	ess Ladder Monitor
Netw PC N	rork No. Io.	0 * 255 *
Requ	est destination mo	odule
1/	D No.	1023 📫
S	tation No.	0 😳
		D.C.II
		Default
		OK (O) Cancel

[Ladder Monitor] tab

🎒 Individual Device Settir	ngs X
PLC1	
Basic Other Station Access	Ladder Monitor
Host network No. Host station No.	
PC station No.	2 -
	Default
ОК	(O) Cancel

[Other Station Access] tab

- The check on [Connected to Q Series E71 I/F Module] is removed.
- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device for IP address in Device-specific settings.
- You need to set IP address on the display in the offline mode of the display.

Settings of External Device

To configure communication settings, use the ladder software (GX-Developer Ver.8.88S). After completing the settings, reboot the External Device to enable them. Please refer to the manual of the External Device for details.

- 1 Start up the ladder software.
- 2 Double-click [PC Parameter] under [Parameter].
- **3** Configure the following settings in the [Built-in Ethernet port] tab of the window that appears.

Setup Items	Settings
IP Address	192.168.0.1
Subnet Mask pattern	Option
Default Router IP Address	Option
Communication Data Code Settings	Binary code communication
Enable Write during RUN	Enable ^{*1}

- *1 It enables writing to the External Device even when the CPU is in RUN status.
- 4 Click [Open settings].
- **5** Configure the following settings in the window that appears.

Setup Items	Settings
Protocol	ТСР
Open Method	MC Protocol
Source Port No.	401H ^{*1}

*1 Use an integer from "0401H to 1387H" and "1392H to FFFEH" to enter the source port No. Check with a network administrator about setting value.

• When connecting more than one Display, set for the number. Please set the source port No. so as not to overlap.

6 Click [End].

3.7 Setting Example 7

- Setting of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Mitsu	bishi Electric Corporation Series Q/QnA Series Ethernet	Port Ethemet (UDP)
Text Data Mode	2 Change	
Communication Setting	js	
Port No.	1025	
Timeout	3 (sec)	
Retry	2 🕂	
Wait To Send	0 (ms) Default	
Device-Specific Setting	gs	
Allowable Number of Devices/PLCs	Add Device	
No. Device Name	e Settings	Add Indirect Device
👗 1 🛛 PLC1	Series=iQ-R Series,IP Address=192.168.000.001,Port I	

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

[Basic] tab		
🎒 Individual Device 🛛	Settings 🔀	
PLC1		
Basic Other Station Ad	ccess Ladder Monitor	
Series	iQ-R Series	
IP Address	192. 168. 0. 1	
Port No.	1025 🛨	
Communication data c	ode	
Binary code	C ASCII code	
Multiple CPU syste	m	
No. of CPU	1	
Connected to Q S	eries E71 I/F Module	
	Default	
	OK (O) Cancel	

Individual Device Set	tings X
PLC1	
Basic Other Station Access	s Ladder Monitor
Network No.	0 🗧
PC No.	255 ÷
Request destination mod	ule
I/O No.	1023 🕂
Station No.	0 🕂
	Default
0	K (O) Cancel

[Ladder Monitor] tab

🕌 Individual Device Settir	igs X
PLC1	
Basic Other Station Access	Ladder Monitor
Host network No. Host station No. PC station No.	
	Default
OK	(O) Cancel

[Other Station Access] tab

- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device for IP address in Device-specific settings.
- You need to set IP address on the display in the offline mode of the display.

Setting of External Device

Use the engineering software MELSOFT GX Works3 to set up communication settings on the External Device.

For details on communication settings, please refer to the manual for the External Device.

- **1** Start the engineering software.
- 2 From the tree view, expand the [Parameter] node and double-click [Module Parameter] for the External Device.
- **3** In the [Module Parameter] window, specify the following parameters.
 - Basic Settings (Own Node Settings)

Setup Items	Setup Description
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Enable/Disable Online Change	Enable All(SLMP)
Communication Data Code	Binary

- **4** From [External Device Configuration], click [Detailed Setting] and the [Ethernet Configuration] window opens.
- 5 From the [Module List] window's [Ethernet Device (General)] area, select [SLMP Connection Module] and dragand-drop to the settings screen.
- 6 In the settings screen's [SLMP Connection Module], set up the following.

Setup Items	Setup Description
Protocol	UDP
Port No.	1026

- 7 To save the settings, in the [Module Parameter] window click [Apply].
- **8** The project is saved and sent to the External Device.

Make sure the [Module Parameter] check box is selected.

9 Either turn the External Device power OFF/ON, or reset the External Device to verify the changes.

Notes

• Check with a network administrator about IP address. Do not set the duplicate IP address.

3.8 Setting Example 8

- Setting of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Mits	ubishi Electric Corporation Series Q/QnA Series Ethemet	Port Ethernet (TCP)
Text Data Mode	2 Change	
Communication Settir	igs	
Port No.	1025 🛨 🔽 Auto	
Timeout	3 (sec)	
Retry	0	
Wait To Send	0 (ms) Default	
Device-Specific Setti	ngs	
Allowable Number of Devices/PLCs	Add Device	
No. Device Nam	e Settings	Add Indirect Device
👗 1 PLC1	Series=iQ-R Series,IP Address=192.168.000.001,Port I	.

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

[Basic] tab		
🎒 Individual Device 🛛	Settings 🔀	
PLC1		
Basic Other Station Ad	ccess Ladder Monitor	
Series	iQ-R Series	
IP Address	192. 168. 0. 1	
Port No.	1025 🛨	
Communication data c	ode	
Binary code	C ASCII code	
Multiple CPU syste	m	
No. of CPU	1	
Connected to Q S	eries E71 I/F Module	
	Default	
	OK (O) Cancel	

Stational Device Set	ttings X
PLC1	
Basic Other Station Acces	ss Ladder Monitor
Network No. PC No.	0 +
Request destination mod	lule
I/O No.	1023 🔅
Station No.	0 🕂
	Default
	DK (O) Cancel

[Ladder Monitor] tab

🎒 Individual Device Settings 🛛 🔀	
PLC1	
Basic Other Station Access	s Ladder Monitor
Host network No.	1 🗮
Host station No.	1 🔅
PC station No.	2 🔹
	Default
0	K (O) Cancel

[Other Station Access] tab

- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device for IP address in Device-specific settings.
- You need to set IP address on the display in the offline mode of the display.

Setting of External Device

Use the engineering software MELSOFT GX Works3 to set up communication settings on the External Device.

For details on communication settings, please refer to the manual for the External Device.

- **1** Start the engineering software.
- 2 From the tree view, expand the [Parameter] node and double-click [Module Parameter] for the External Device.
- **3** In the [Module Parameter] window, specify the following parameters.
 - Basic Settings (Own Node Settings)

Setup Items	Setup Description
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Enable/Disable Online Change	Enable All(SLMP)
Communication Data Code	Binary

- **4** From [External Device Configuration], click [Detailed Setting] and the [Ethernet Configuration] window opens.
- 5 From the [Module List] window's [Ethernet Device (General)] area, select [SLMP Connection Module] and dragand-drop to the settings screen.
- 6 In the settings screen's [SLMP Connection Module], set up the following.

Setup Items	Setup Description
Protocol	ТСР
Port No.	1025

- 7 To save the settings, in the [Module Parameter] window click [Apply].
- **8** The project is saved and sent to the External Device.

Make sure the [Module Parameter] check box is selected.

9 Either turn the External Device power OFF/ON, or reset the External Device to verify the changes.

Notes

• Check with a network administrator about IP address. Do not set the duplicate IP address.
3.9 Setting Example 9

- Setting of GP-Pro EX
- ♦ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer M	itsubishi Electric Corporation Series Q/QnA Series Ethemet	Port Ethemet (UDP)
Text Data Mode	2 Change	
Communication Set	tings	
Port No.	1025	
Timeout	3 (sec)	
Retry	2 🕂	
Wait To Send	0 (ms) Default	
Device-Specific Set	ttings	
Allowable Number of Devices/PLCs	er <u>Add Device</u>	
No. Device Na	ame Settinas	Add Indirect
👗 1 PLC1	Series=iQ-R Series,IP Address=192.168.000.001,Port I	F

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

[Basic] tab		
🎒 Individual Device 🛛	Settings 🔀	
PLC1		
Basic Other Station Ad	ccess Ladder Monitor	
Series	iQ-R Series	
IP Address	192. 168. 0. 1	
Port No.	1025 🛨	
Communication data c	ode	
Binary code	C ASCII code	
Multiple CPU system		
No. of CPU		
Connected to Q Series E71 I/F Module		
Default		
	OK (O) Cancel	

Stational Device Set	ttings X
PLC1	
Basic Other Station Acces	ss Ladder Monitor
Network No. PC No.	0 +
Request destination mod	lule
I/O No.	1023 🔅
Station No.	0 🕂
	Default
	DK (O) Cancel

[Ladder Monitor] tab

🎒 Individual Device Sett	tings 🔀
PLC1	
Basic Other Station Access	s Ladder Monitor
Host network No.	1 -
Host station No.	1 🗄
PC station No.	2 🕂
	Default
0	K (O) Cancel

[Other Station Access] tab

Notes

- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device for IP address in Device-specific settings.
- You need to set IP address on the display in the offline mode of the display.

Setting of External Device

Use the engineering software MELSOFT GX Works3 to set up communication settings on the External Device.

For details on communication settings, please refer to the manual for the External Device.

- 1 Start the engineering software.
- **2** From the tree view, click the [Parameter] node, expand [Module Information] and double-click [Module Parameter] for the External Device.
- **3** In the [Module Parameter] window, specify the following parameters.
 - Basic Settings (Own Node Settings)

Setup Items	Setup Description
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.0.254
Enable/Disable Online Change	Enable All(SLMP)
Communication Data Code	Binary

- 4 From [External Device Configuration], click [Detailed Setting] and the [Ethernet Configuration] window opens.
- **5** From the [Module List] window's [Ethernet Device (General)] area, select [SLMP Connection Module] and dragand-drop to the settings screen.
- 6 In the settings screen's [SLMP Connection Module], set up the following.

Setup Items	Setup Description
Protocol	UDP
Port No.	1026

- 7 To save the settings, in the [Module Parameter] window click [Apply].
- **8** The project is saved and sent to the External Device.

Make sure the [Module Parameter] check box is selected.

- **9** Either turn the External Device power OFF/ON, or reset the External Device to verify the changes.
- Notes
 - Check with a network administrator about IP address. Do not set the duplicate IP address.

3.10 Setting Example 10

- Setting of GP-Pro EX
- ♦ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1	
Summary	Change Device/PLC
Manufacturer Mitsubishi Electric Corporation Series Q/QnA Series Ether	et Port Ethemet (TCP)
Text Data Mode 2 Change	
Communication Settings	
Port No. 1025 🛫 🔽 Auto	
Timeout 3 (sec)	
Retry 0	
Wait To Send 0 (ms) Default	
Device-Specific Settings	
Allowable Number <u>Add Device</u>	
No Device Name Settings	Add Indirect
1 PLC1 Series=iQ-R Series, IP Address=192.168.000.001,	Port I

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

[Basic] tab		
🎒 Individual Device 🛛	Settings 🔀	
PLC1		
Basic Other Station Ad	ccess Ladder Monitor	
Series	iQ-R Series	
IP Address	192. 168. 0. 1	
Port No.	1025 🛨	
Communication data c	ode	
Binary code	C ASCII code	
Multiple CPU system		
No. of CPU		
Connected to Q Series E71 I/F Module		
Default		
	OK (O) Cancel	

Individual Device Settings	<	
PLC1		
Basic Other Station Access Ladder Monitor		
Network No.		
PC No. 255		
Request destination module		
I/O No. 1023		
Station No. 0		
Default		
OK (0) Cancel		

[Ladder Monitor] tab

🕌 Individual Device Settir	igs X
PLC1	
Basic Other Station Access	Ladder Monitor
Host network No. Host station No. PC station No.	
	Default
OK	(O) Cancel

[Other Station Access] tab

Notes

- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device for IP address in Device-specific settings.
- You need to set IP address on the display in the offline mode of the display.

Setting of External Device

Use the engineering software MELSOFT GX Works3 to set up communication settings on the External Device.

For details on communication settings, please refer to the manual for the External Device.

- **1** Start the engineering software.
- **2** From the tree view, click the [Parameter] node, expand [Module Information] and double-click [Module Parameter] for the External Device.
- **3** In the [Module Parameter] window, specify the following parameters.
 - Basic Settings (Own Node Settings)

Setup Items	Setup Description
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.0.254
Enable/Disable Online Change	Enable All(SLMP)
Communication Data Code	Binary

- 4 From [External Device Configuration], click [Detailed Setting] and the [Ethernet Configuration] window opens.
- **5** From the [Module List] window's [Ethernet Device (General)] area, select [SLMP Connection Module] and dragand-drop to the settings screen.
- **6** In the settings screen's [SLMP Connection Module], set up the following.

Setup Items	Setup Description
Protocol	ТСР
Port No.	1025

- 7 To save the settings, in the [Module Parameter] window click [Apply].
- **8** The project is saved and sent to the External Device.

Make sure the [Module Parameter] check box is selected.

- **9** Either turn the External Device power OFF/ON, or reset the External Device to verify the changes.
- Notes
 - Check with a network administrator about IP address. Do not set the duplicate IP address.

3.11 Setting Example 11

- Setting of GP-Pro EX
- ♦ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1	
Summary	Change Device/PLC
Manufacturer Mitsubishi Electric Corporation Series Q/QnA Series Ethemet	Port Ethemet (UDP)
Text Data Mode 2 Change	
Communication Settings	
Port No. 1025	
Timeout 3 (sec)	
Retry 2	
Wait To Send 0 (ms) Default	
Device-Specific Settings	
Allowable Number <u>Add Device</u>	
No. Device Name Settings	Add Indirect Device
1 PLC1 Series=iQ-F Series, IP Address=192.168.000.001, Port N	F

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

[Basic] tab	
🎒 Individual Device 🕯	Settings 🔀
PLC1	
Basic Other Station Ac	ccess Ladder Monitor
Series	iQ-F Series
IP Address	192. 168. 0. 1
Port No.	1025
Communication data co	ode
 Binary code 	C ASCII code
Multiple CPU syste	m
No. of CPU	1 =
Connected to Q S	eries E71 I/F Module
	Default
	OK (O) Cancel

FIndividual Device Settings
PLC1
Basic Other Station Access Ladder Monitor
Network No.
Request destination module
I/O No. 1023
Station No.
Default
OK (0) Cancel

[Ladder Monitor] tab

🎒 Individual Device Sett	ings 😕
PLC1	
Basic Other Station Access	Ladder Monitor
Host network No. Host station No. PC station No.	
	Default
OF	((0) Cancel

[Other Station Access] tab

Notes

- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device for IP address in Device-specific settings.
- You need to set IP address on the display in the offline mode of the display.

Setting of External Device

Use the engineering software MELSOFT GX Works3 to set up communication settings on the External Device.

For details on communication settings, please refer to the manual for the External Device.

- **1** Start the engineering software.
- **2** From the tree view, click the [Parameter] node, expand [Module Parameter] for the External Device and doubleclick [Ethernet Port].
- **3** In the [Module Parameter Ethernet Port] window, specify the following parameters.
 - Basic Settings (Own Node Settings)

Setup Items	Setup Description
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Communication Data Code	Binary

- 4 From [External Device Configuration], click [Detailed Setting] and the [Ethernet Configuration] window opens.
- 5 From the [Module List] window's [Ethernet Device (General)] area, select [SLMP Connection Module] and dragand-drop to the settings screen.
- 6 In the settings screen's [SLMP Connection Module], set up the following.

Setup Items	Setup Description
Protocol	UDP
Port No.	1026

- 7 To save the settings, in the [Module Parameter] window click [Apply].
- **8** The project is saved and sent to the External Device.

Make sure the [Module Parameter] check box is selected.

9 Either turn the External Device power OFF/ON, or reset the External Device to verify the changes.

Notes

• Check with a network administrator about IP address. Do not set the duplicate IP address.

3.12 Setting Example 12

- Setting of GP-Pro EX
- ♦ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Mitsub	ishi Electric Corporation Series Q/QnA Series Ethemet	Port Ethemet (TCP)
Text Data Mode	2 Change	
Communication Setting	3	
Port No.	1025 Auto	
Timeout	3 🕂 (sec)	
Retry	0 💼	
Wait To Send	0 (ms) Default	
Device-Specific Setting	S	
Allowable Number of Devices/PLCs	Add Device	
No. Device Name	Settings	Add Indirect Device
👗 1 PLC1	Series=iQ-F Series,IP Address=192.168.000.001,Port N	.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

[Basic] tab	
🎒 Individual Device 🕯	Settings 🔀
PLC1	
Basic Other Station Ac	ccess Ladder Monitor
Series	iQ-F Series
IP Address	192. 168. 0. 1
Port No.	1025
Communication data co	ode
 Binary code 	C ASCII code
Multiple CPU syste	m
No. of CPU	1 =
Connected to Q S	eries E71 I/F Module
	Default
	OK (O) Cancel

FIndividual Device Settings
PLC1
Basic Other Station Access Ladder Monitor
Network No.
Request destination module
I/O No. 1023
Station No.
Default
OK (0) Cancel

[Ladder Monitor] tab

🎒 Individual Device Sett	ings 😕
PLC1	
Basic Other Station Access	Ladder Monitor
Host network No. Host station No. PC station No.	
	Default
OF	((0) Cancel

[Other Station Access] tab

Notes

- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device for IP address in Device-specific settings.
- You need to set IP address on the display in the offline mode of the display.

Setting of External Device

Use the engineering software MELSOFT GX Works3 to set up communication settings on the External Device.

For details on communication settings, please refer to the manual for the External Device.

- **1** Start the engineering software.
- **2** From the tree view, click the [Parameter] node, expand [Module Parameter] for the External Device and doubleclick [Ethernet Port].
- **3** In the [Module Parameter Ethernet Port] window, specify the following parameters.
 - Basic Settings (Own Node Settings)

Setup Items	Setup Description
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Communication Data Code	Binary

- 4 From [External Device Configuration], click [Detailed Setting] and the [Ethernet Configuration] window opens.
- 5 From the [Module List] window's [Ethernet Device (General)] area, select [SLMP Connection Module] and dragand-drop to the settings screen.
- 6 In the settings screen's [SLMP Connection Module], set up the following.

Setup Items	Setup Description
Protocol	ТСР
Port No.	1025

7 To save the settings, in the [Module Parameter] window click [Apply].

8 The project is saved and sent to the External Device.

Make sure the [Module Parameter] check box is selected.

9 Either turn the External Device power OFF/ON, or reset the External Device to verify the changes.

Notes

• Check with a network administrator about IP address. Do not set the duplicate IP address.

4 Setup Items

Set communication settings of the display with GP-Pro Ex or in offline mode of the display.

The setting of each parameter must be identical to that of External Device.

"3 Example of Communication Setting" (page 9)

• Set the Display's IP address in offline mode. Cf. Maintenance/Troubleshooting Guide "Ethernet Settings"

4.1 Setup Items in GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Mitsubishi Electric Corporation	Series Q/QnA Series Ethemet	Port Ethernet (TCP)
Text Data Mode 2 Change		
Communication Settings		
Port No. 1025 📻 🗹 Auto		
Timeout 3 🔆 (sec)		
Retry 0		
Wait To Send 0 📑 (ms)	Default	
Device-Specific Settings		
Allowable Number Add Device		
No. Device Name Settings		Add Indirect Device
1 PLC1 Series=Q/QnA Se	eries,IP Address=192.168.000.001,Pc	

Setup Items	Setup Description
	Use an integer from 1025 to 65535 to enter the port No. of the display. When you check the option of [Auto], the port No. will be automatically set.
Port No.	 • [Auto] option is available to set only when you select "Ethernet (TCP)" in [Connecting Method].
	Use an integer from 1 to 127 to enter the time (s) for which Display waits for the response from External Device.
Timeout	 NOTE In case of communicating via network please set larger value than the response monitoring time of the relay station for timeout settings.
Retry	In case of no response from the External Device, use an integer from 0 to 255 to enter how many times the display retransmits the command.
Wait To Send	Use an integer from 0 to 255 to enter standby time (ms) for the display from receiving packets to transmitting next commands.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

♦ [Basic] tab

<i>拳</i> Individual Device	Settings X
PLC1	
Basic Other Station A	Access Ladder Monitor
Series	Q/QnA Series
IP Address	192. 168. 0. 1
Port No.	1025
Communication data	code
Binary code	C ASCII code
Multiple CPU syst	lem
No. of CPU	1
Connected to Q	Series E71 I/F Module
	Default
	OK (O) Cancel

Setup Items	Setup Description		
Series	Select the series of the External Device.		
IP Address	 Set IP address of the External Device. NOTE Check with a network administrator about IP address. Do not set the duplicate IP address. 		
Port No.	 Use an integer from 1025 to 65535 to enter the port No. (Decimal) of the External Device. MPORTANT Do not use the following port No. because Ethernet unit reserves them in the system. UDP connection: 5001-5002 TCP connection: 5000-5002 		
Communication data Code	Select the data format to communicate with the External Device from "Binary code communication" or "ASCII code communication".		
Multiple CPU system	Check this option when you use Multiple CPU system.		
No. of CPU	Use an integer from 1 to 4 to enter the number of CPU units that is used with Multiple CPU system. NOTE • [No. of CPU] is available to set only when you check [Multiple CPU system].		
Connected to Q Series E71 I/F Module	Check this checkbox only when the Q Series E71 I/F unit is used. If this is checked when the Q Series E71 I/F unit is not used, the error may be displayed on the External Device.		

♦ [Other Station Access] tab

縃 Indiv	idual Device Set	tines	X
PLC1			_
Basic	Other Station Acces	ss Ladder	Monitor
Netv PC 1	vork No. No.	0	
Req	uest destination mod	lule	
l/	/O No.	1023	3
S	Station No.	0	3
			Default
)K (0)	Cancel

Setup Items	Setup Description		
Network No.	Set PC No. when you communicate via network. Use an integer from 0 to 239 to enter network No. of the External Device to communicate. If you do not communicate via network, enter 0.		
PC No.	Set PC No. when you communicate via network. Use an integer from 0 to 64 or 125 to 126 to enter PC No. of the External Device to communicate. If you do not communicate via network, enter 255.		
I/O No.	Set PC No. when you communicate via network. Use an integer from 0 to 511 to enter I/O No. of the External Device to communicate. If you do not communicate via network, enter 1023.		
Station No.	Enter a station number of the External Device, using 0 to 31.		

♦ [Ladder Monitor] tab

The content of [Ladder Monitor] tab is used on the PLC ladder monitor. If the PLC ladder monitor is not used, the set value becomes invalid. Refer to the Mitsubishi Electric Q Series PLC Ladder Monitor Operation Manual for details of the ladder monitor.

🕌 Individual Device Settir	ngs 🔀
PLC1	
Basic Other Station Access	Ladder Monitor
Host network No. Host station No. PC station No.	
	Default
ОК	(O) Cancel

Setup Items	Setup Description	
Host network No.	Input the network number that the Display is connected to from 1 through 239.	
Host station No.	Input the PC station number of the Display from 1 through 64.	
PC station No.	Input the PC station number of the External Device that is directly connected from 1 through 64.	
NOTE • D • If	Do not set the same PC station number within the same network. F an error is displayed on the PLC ladder monitor, set the same number as the one for [Host etwork No.] (in the [Ladder Monitor] tab) to [Network No.] (in the [Other Station Access]	
ta ta • T c	ab) to [PC No.] (in the [Other Station Access] tab). The PLC ladder monitor cannot be used for the External Device that is connected via the serial communication module.	

• Setting examples of [Ext. Setting] tab are shown below.



Setup Items	Settings
Host network No.	1
Host station No.	1
PC station No.	2

4.2 Setup Items in Offline Mode

NOTE

• Refer to the Maintenance/Troubleshooting guide for information on how to enter offline mode or about the operation.

Cf. Maintenance/Troubleshooting Guide "Offline Mode"

Communication Settings

To display the setting screen, touch [Device/PLC Settings] from [Peripheral Settings] in offline mode. Touch the External Device you want to set from the displayed list.

Comm.	Device			
Q/QnA Series Et	hernet		[UDP]	Page 1/1
	Port No.	• Fixed	O Auto 1025 ▼ ▲	1
	Timeout(s) Retry Wait To Send(ms)			
	Exit		Back	2016/08/04 10:51:24

Setup Items	Setup Description
Port No.	Set the Port No. of the display. In UDP connection, entered port No. will be assigned regardless of whether you select [Fixed] or [Auto]. In TCP connection, select either of [Fixed] or [Auto]. When you select [Fixed], use an integer from 1025 to 65535 to enter the port No. of the display. When you select [Auto], the port No. will be automatically assigned regardless of the entered value.
Timeout	 Use an integer from 1 to 127 to enter the time (s) for which Display waits for the response from External Device. NOTE In case of communicating via network, please set larger value than the response monitoring time of the relay station for timeout settings.
Retry	In case of no response from the External Device, use an integer from 0 to 255 to enter how many times the display retransmits the command.
Wait To Send	Use an integer from 0 to 255 to enter standby time (ms) for the display from receiving packets to transmitting next commands.

Device Setting

To display the setting screen, touch [Device/PLC Settings] from [Peripheral Settings]. Touch the External Device you want to set from the displayed list, and touch [Device].

(Page 1/2)

Comm.	Device			
Q/QnA Series Et	hernet		[UDP]	Page 1/2
Devic	e/PLC Name PLC	01		-
	Series IP Address Port No. Data Code	Q/QnA 192 • Bi	Series <u>168 Ø 1</u> 1025 ▼ nary ASCII	· ▲
	Multiple CPU	Not U	se	
	Q Series E71 I/F	OFF		-
				>
	Exit		Back	2016/08/04 10:51:26

Setup Items	Setup Description
Device/PLC Name	Select the External Device for device setting. Device name is a title of External Device set with GP-Pro EX.(Initial value [PLC1])
Series	Display the series of the External Device.
IP Address	 Set IP address of the External Device. NOTE Check with a network administrator about IP address. Do not set the duplicate IP address.
Port No.	 Use an integer from 1025 to 65535 to enter the port No. (Decimal) of the External Device. MPORTANT Do not use the following port No. because Ethernet unit reserves them in the system. UDP connection: 5001-5002 TCP connection: 5000-5002
Data Code	Select the data format to communicate with the External Device from "Binary code communication" or "ASCII code communication".
Multiple CPU	The setting of Multiple CPU system is displayed in "NotUse" or "1 to 4".
Q Series E71 I/F	Select "ON" and "OFF" respectively when the Q Series E71 I/F unit is used and when the Q Series E71 I/F unit is not used. If "ON" is selected when the Q Series E71 I/F unit is not used, the error may be displayed on the External Device.

(Page 2/2)

The content of [Ext. Setting] tab is used on the PLC ladder monitor. If the PLC ladder monitor is not used, the set value becomes invalid. Refer to the Mitsubishi Electric Q Series PLC Ladder Monitor Operation Manual for details of the ladder monitor.

Comm.	Device			
Q/QnA Series E	thernet		[UDP]	Page 2/2
Devi	ce/PLC Name PLC	1		•
	Network No. PC No.		0 ▼ ▲ 255 ▼ ▲	}
	Request destinati I/O No. Station No.	on module	1023 V A	1
	Ladder Monitor Se Host network No Host station No PC station No.	etting D D	1 ▼ ▲ 1 ▼ ▲ 2 ▼ ▲	
				+
	Exit		Back	2016/08/04 10:51:29

Setup Items	Setup Description
Device/PLC Name	Select the External Device for device setting. Device name is a title of External Device set with GP-Pro EX.(Initial value [PLC1])
Network No.	Set PC No. when you communicate via network. Use an integer from 0 to 239 to enter network No. of the External Device to communicate. If you do not communicate via network, enter 0.
PC No.	Set PC No. when you communicate via network. Use an integer from 0 to 64 or 125 to 126 to enter PC No. of the External Device to communicate. If you do not communicate via network, enter 255.
I/O No.	Set PC No. when you communicate via network. Use an integer from 0 to 511 to enter I/O No. of the External Device to communicate. If you do not communicate via network, enter 1023.
Station No.	Enter a station number of the External Device, using 0 to 31.
Host network No.	Input the network number that the Display is connected to from 1 through 239.
Host station No.	Input the PC station number of the Display from 1 through 64.
PC station No.	Input the PC station number of the External Device that is directly connected from 1 through 64.

NOTE

- Do not set the same PC station number within the same network.
- Refer to the [Ladder Monitor] tab of "Setup Items in GP-Pro EX" for the examples of [Ladder Monitor] tab.
 - I ← [Ladder Monitor] tab" (page 52)
- When the External Device is the iQ-R, the ladder monitor settings are ignored.
- When the External Device is the iQ-F, the all settings on this page are ignored.

Supported Device 5

Range of supported device address is shown in the table below. Please note that the actually supported range of the devices varies depending on the External Device to be used. Please check the actual range in the manual of your External Device.

Input address of external device in the dialog below.



- 1. Unit Number Select the number of a CPU unit to communicate with from 1 to 4. Select "0" to access a CPU unit that is directly connected like the Single CPU System.
- 2. Device
- Specify a device. 3. Address Specify an address.

5.1 MELSEC Q (High performance model, Basic model) / MELSEC QnA Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Notes
Input Relay	X0000-X1FFF	X0000-X1FF0		***
Output Relay	Y0000-Y1FFF	Y0000-Y1FF0		<u>* * *</u> 0]
Internal Relay	M00000-M32767	M00000-M32752		÷16)
Special Relay	SM0000-SM2047	SM0000-SM2032		÷16)
Latch Relay	L00000-L32767	L00000-L32752		÷16)
Annunciator	F00000-F32767	F00000-F32752		÷ 16)
Edge Relay	V00000-V32767	V00000-V32752		÷16)
Step Relay	S0000-S8191	S0000-S8176		÷16)
Link Relay	B0000-B7FFF	B0000-B7FF0		<u>* * *</u> 0]
Special Link Relay	SB000-SB7FF	SB000-SB7F0		<u>* * *</u> 0]
Timer (Contact)	TS00000-TS23087			
Timer (Coil)	TC00000-TC23087			
Retentive Timer (Contact)	SS00000-SS23087			
Retentive Timer (Coil)	SC00000-SC23087			
Counter (Contact)	CS00000-CS23087			
Counter (Coil)	CC00000-CC23087			
Timer (Current Value)		TN00000-TN23087		
Retentive Timer (Current Value)		SN00000-SN23087		
Counter (Current Value)		CN00000-CN23087		
Data Register		D00000-D25983		Bit
Special Register		SD0000-SD2047		Bit
Link Register		W0000-W657F		Bit
Special Link Register		SW000-SW7FF		Bit
File Register (Normal)		R00000-R32767		Bit F] *1
File Register (Block switching is not necessary)		ZR0000000-ZR1042431		<u>₿;</u> ŧ₽]*1

Device	Bit Address	Word Address	32 bits	Notes
File Register (0R - 31R) ^{*2}		0R0000-0R32767		
		1R0000-1R32767	· [L/H]	<u>_Bit</u> F] *1
		2R0000-2R32767		
	:	:		
		31R0000-31R26623		

*1 It is different by the memory card which uses the range of file register.

*2 Set the block No. on the head of device name. This is the device name for conversion with GP-Pro/PBIII for Windows. When you newly specify the device, we recommend that you should use the file register (Block switching is not necessary).



• The notation of addresses differs depending on a selected Unit No. <Ex.>When 0 is selected for Unit No.,



<Ex.>When 1 is selected for Unit No.,



- Please refer to the GP-Pro EX Reference Manual for system data area.
- Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)"
- Please refer to the precautions on manual notation for icons in the table.

^C "Manual Symbols and Terminology"

5.2 MELSEC Q (Universal model) Series

This address can be specified as system data area.

Device	First 5 digits of the serial No. in the CPU unit: Less than 10042		First 5 digits of the serial No. in the CPU unit: 10042 or later		32bits	Notes
	Bit Address	Word Address	Bit Address	Word Address		
Input Relay	X0000-X1FFF	X0000-X1FF0	X0000-X1FFF	X0000-X1FF0		<u>***</u> 0]
Output Relay	Y0000-Y1FFF	Y0000-Y1FF0	Y0000-Y1FFF	Y0000-Y1FF0		<u>***</u> 0]
Internal Relay	M00000- M32767	M00000- M32752	M00000- M61439	M00000- M61424		÷16)
Special Relay	SM0000- SM2047	SM0000- SM2032	SM0000- SM2047	SM0000- SM2032		÷16)
Latch Relay	L00000- L32767	L00000- L32752	L00000- L32767	L00000- L32752		÷16)
Annunciator	F00000- F32767	F00000- F32752	F00000- F32767	F00000- F32752		÷16)
Edge Relay	V00000- V32767	V00000- V32752	V00000- V32767	V00000- V32752		÷16)
Step Relay	S0000-S8191	S0000-S8176	S00000- S16383	S00000- S16368		÷16)
Link Relay	B0000-B7FFF	B0000-B7FF0	B0000-BEFFF	B0000-BEFF0		<u>***</u> 0]
Special Link Relay	SB0000 - SB7FFF	SB0000 - SB7FF0	SB0000 - SB7FFF	SB0000 - SB7FF0		<u>***</u> 0)
Timer (Contact)	TS00000- TS25023	-	TS00000- TS32767	-		
Timer (Coil)	TC00000- TC25023	-	TC00000- TC32767	-		
Retentive Timer (Contact)	SS00000- SS25023	-	SS00000- SS32767	-		
Retentive Timer (Coil)	SC00000- SC25023	-	SC00000- SC32767	-		
Counter (Contact)	CS00000- CS25023	-	CS00000- CS32767	-		
Counter (Coil)	CC00000- CC25023	-	CC00000- CC32767	-		
Timer (Current Value)	-	TN00000- TN25023	-	TN00000- TN32767		

Device	First 5 digits of t the CP Less tha	the serial No. in 20 unit: in 10042	First 5 digits of the serial No. in the CPU unit: 10042 or later		32bits	Notes
	Bit Address	Word Address	Bit Address	Word Address		
Retentive Timer (Current Value)	-	SN00000- SN25023	-	SN00000- SN32767		
Counter (Current Value)	-	CN00000- CN25023	-	CN00000- CN32767		
Data Register / External Data Register ^{*1}	-	D00000- D28159	-	D0000000- D4910079 *2		<u>ві т</u> F)
Special Register	-	SD0000- SD2047	-	SD0000- SD2047		Bit F
Link Register / External Link Register ^{*3}	-	W0000- W6DFF	-	W000000- W4AEBFF ^{*2}		Bit F
Special Link Register	-	SW0000- SW6DFF	-	SW0000- SW7FFF		вit
File Register (Normal)	-	R00000- R32767	-	R00000- R32767	<u>[L/H</u>]	<u>₿ i t</u> F] *4
File Register (Block switching is not necessary)	-	ZR0000000- ZR4184063	-	ZR0000000- ZR4849663		<u>₿;</u> ₹ F) *4
	-	0R0000- 0R32767	-	0R0000- 0R32767		
	-	1R0000- 1R32767	-	1R0000- 1R32767		
File Register (0R - 31R) ^{*5}	-	2R0000- 2R32767	-	2R0000- 2R32767		<u>₿;</u> †F] *4
	:	:	:	:		
	-	30R0000- 30R32767	-	30R0000- 30R32767		
	-	31R0000- 31R26623	-	31R0000- 31R26623		

*1 External Data Register can be used in the CPU of which first 5 digits of serial No. is 09042 or later.

*2 To use addresses D0065536 or higher, or addresses W010000 or higher, the Ethernet interface unit must meet the following requirements:

- The top 5 digits of the serial number are 10042 or later.

- The function version is D or later.
- *3 External Link Register can be used in the CPU of which first 5 digits of serial No. is 09042 or later.
- *4 It is different by the memory card which uses the range of file register.

*5 Set the block No. on the head of device name. This is the device name for conversion with GP-Pro/PB III for Windows. When you newly specify the device, we recommend that you should use the file register (Block switching is not necessary).

• The notation of addresses differs depending on a selected Unit No. <Ex.>When 0 is selected for Unit No.,



<Ex.>When 1 is selected for Unit No.,



- Please refer to the GP-Pro EX Reference Manual for system data area.
 Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)"
- Please refer to the precautions on manual notation for icons in the table.

"Manual Symbols and Terminology"

5.3 MELSEC L Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Notes
Input Relay	X0000-X1FFF	X0000-X1FF0		***0]
Output Relay	Y0000-Y1FFF	Y0000-Y1FF0		<u>* * *</u> 0]
Internal Relay	M00000-M61439	M00000-M61424		÷16)
Special Relay	SM0000-SM2047	SM0000-SM2032		÷16)
Latch Relay	L00000-L32767	L00000-L32752		÷16)
Annunciator	F0000-F32767	F00000-F32752		÷16)
Edge Relay	V00000-V32767	V00000-V32752		÷16)
Step Relay	S0000-S8191	S0000-S8176		÷16)
Link Relay	B0000-BEFFF	B0000-BEFF0		***0]
Special Link Relay	SB0000-SB7FFF	SB0000-SB7FF0		<u>***</u> 0]
Timer (Contact)	TS00000-TS25471			
Timer (Coil)	TC00000-TC25471			
Retentive Timer (Contact)	SS00000-SS25471			
Retentive Timer (Coil)	SC00000-SC25471			
Counter (Contact)	CS00000-CS25471			
Counter (Coil)	CC00000-CC25471			
Timer (Current Value)		TN00000-TN25471		
Retentive Timer (Current Value)		SN00000-SN25471		
Counter (Current Value)		CN00000-CN25471		
Data Register		D00000-D65535		Bit F
Special Register		SD0000-SD2047	Ī	Bit F
Link Register		W0000-WFFFF		Bit F
Special Link Register		SW0000-SW6FFF		Bit
File Register (Normal)		R00000-R32767]	Bit F) *1
File Register (Block switching is not necessary)		ZR000000-ZR393215		Bit F] *1

Device	Bit Address	Word Address	32 bits	Notes
File Register (0R - 11R) ^{*2}		0R00000-0R32767		
		1R00000-1R32767	· [L/H]	<u>(Bit</u> F) *1
		2R00000-2R32767		
	:	:		
		11R00000-11R32767		

*1 It is different by the memory card which uses the range of file register.

*2 Set the block No. on the head of device name. This is the device name for conversion with GP-Pro/PBIII for Windows. When you newly specify the device, we recommend that you should use the file register (Block switching is not necessary).

NOTE

• Please refer to the GP-Pro EX Reference Manual for system data area.

Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)"Please refer to the precautions on manual notation for icons in the table.

"Manual Symbols and Terminology"

5.4 MELSEC iQ-R Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Notes
Input Relay	X0000 - X2FFF	X0000 - X2FF0		<u>***</u>
Output Relay	Y0000 - Y2FFF	Y0000 - Y2FF0	Ī	
Internal Relay	M00000000 - M999999999	M00000000 - M99999984	1	÷ 16)
Special Relay	SM0000 - SM4095	SM0000 - SM4080	Ī	÷ 16)
Latch Relay	L00000 - L32767	L000000 - L32752	Ī	÷ 16)
Annunciator	F00000 - F32767	F00000 - F32752	1	÷ 16)
Edge Relay	V00000 - V32767	V00000 - V32752	1	÷16)
Link Relay	B000000 - B9A61FF	B0000000 - B9A61F0	1	<u>***</u> 0]
Special Link Relay	SB000000 - SB9A61FF	SB0000000 - SB9A61F0	1	<u>***</u> 0]
Timer (contact)	TS0000000 - TS8993439		1	
Timer (coil)	TC0000000 - TC8993439		1	
Retentive Timer (contact)	SS0000000 - SS8993439		1	
Retentive Timer (coil)	SC0000000 - SC8993439		1	
Counter (Contact)	CS0000000 - CS8993439		1	
Counter (coil)	CC0000000 - CC8993439		İ	
Timer (Current Value)		TN0000000 - TN8993439	_ ⊺L/H)	
Retentive Timer (Current value)		SN0000000 - SN8993439		
Counter (Current Value)		CN0000000 - CN8993439	Ī	
Data Register		D00000000 - D 10117631		Bit F
Special Register		SD0000 - SD4095	Ţ	Bit F
Link Register		W000000 - W9A61FF	1	Bit F
Special Link Register		SW00000 - SW9A61FF	Ī	Bit F
File Register		R00000 - R32767	1	Bit F
File Register (Block switching is not necessary)		ZR0000000 - ZR10027007		<u>ві</u> т F)
		0R00000 - 0R32767	1	
File Register (Up to 1042432 points can		1R00000 - 1R32767	1	
		2R00000 - 2R32767	1	F\
be used by block	:	:	1	Віт
Switching)		30R00000 - 30R32767	1	
		31R00000 - 31R32767	1	

NOTE	Please refer to the GP-Pro EX Reference Manual for system data area.
	Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)"Please refer to the precautions on manual notation for icons in the table.
	"Manual Symbols and Terminology"

5.5 MELSEC iQ-F Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Notes
Input Relay	X0000 - X1777	X0000 - X1760		***0]
Output Relay	Y0000 - Y1777	Y0000 - Y1760		***0]
Internal Relay	M00000 - M32767	M00000 - M32752		÷16)
Special Relay	SM0000 - SM9999	SM0000 - SM9984		÷16)
Latch Relay	L00000 - L32767	L000000 - L32752		÷16)
Annunciator	F00000 - F32767	F00000 - F32752		÷16)
Step Relay	S0000 - S4095	S0000 - S4080		÷16)
Link Relay	B0000 - B7FFF	B0000 - B7FF0		*** 0]
Special Link Relay	SB0000 - SB7FFF	SB0000 - SB7FF0		*** 0
Timer (contact)	TS0000 - TS1023			
Timer (coil)	TC0000 - TC1023			
Retentive Timer (contact)	SS0000 - SS1023		rL/H)	
Retentive Timer (coil)	SC0000 - SC1023			
Counter (Contact)	CS0000 - CS1023			
Counter (coil)	CC0000 - CC1023			
Timer (Current Value)		TN0000 - TN1023		
Retentive Timer (Current value)		SN0000 - SN1023		
Counter (Current Value)		CN0000 - CN1023		
Data Register		D0000 - D7999		Bit F
Special Register		SD00000 - SD11999		Bit F
Link Register		W0000 - W7FFF		Bit F
Special Link Register		SW0000 - SW7FFF		Bit F
File Register		R00000 - R32767		Bit F

NOTE

• Please refer to the GP-Pro EX Reference Manual for system data area.

Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)" • Please refer to the precautions on manual notation for icons in the table.

"Manual Symbols and Terminology"

6 Device Code and Address Code

Use device code and address code when you select "Device & Address" for the address type in data displays.

6.1 MELSEC Q, QnA, L, iQ-R Series

Device	Device Name	Device Code (HEX)	Address Code
	Х	0080	
	1/X	0180	Value of word address divided by 0x10
Input Relay	2/X	0280	
	3/X	0380	
	4/X	0480	
	Y	0081	
	1/Y	0181	
Output Relay	2/Y	0281	Value of word address divided by 0x10
	3/Y	0381	
	4/Y	0481	
	М	0082	Value of word address divided by 16
	1/M	0182	
Internal Relay	2/M	0282	
	3/M	0382	
	4/M	0482	
	SM	0083	
	1/SM	0183	
Special Relay	2/SM	0283	Value of word address divided by 16
	3/SM	0383	
	4/SM	0483	
Latch Relay	L	0084	
	1/L	0184	
	2/L	0284	Value of word address divided by 16
	3/L	0384	
	4/L	0484	

Device	Device Name	Device Code (HEX)	Address Code
	F	0085	Value of word address divided by 16
	1/F	0185	
Annunciator	2/F	0285	
	3/F	0385	
	4/F	0485	
	V	0086	
	1/V	0186	
Edge Relay	2/V	0286	Value of word address divided by 16
	3/V	0386	<i>by</i> 10
	4/V	0486	
	S	0087	
	1/S	0187	
Step Relay	2/S	0287	Value of word address divided by 16
	3/S	0387	
	4/S	0487	
	В	0088	Value of word address divided by 0x10
	1/B	0188	
Link Relay	2/B	0288	
	3/B	0388	
	4/B	0488	
	SB	0089	Value of word address divided by 0x10
Special Link Relay	1/SB	0189	
	2/SB	0289	
	3/SB	0389	
	4/SB	0489	
Timer (Current Value)	TN	0060	Word Address
	1/TN	0160	
	2/TN	0260	
	3/TN	0360	
	4/TN	0460	

Device	Device Name	Device Code (HEX)	Address Code
	SN	0062	
	1/SN	0162	
Retentive Timer (Current Value)	2/SN	0262	Word Address
	3/SN	0362	
	4/SN	0462	
	CN	0061	
	1/CN	0161	
Counter (Current Value)	2/CN	0261	Word Address
	3/CN	0361	
	4/CN	0461	
	D	0000	
	1/D	0100	
Data Register / External Data Register	2/D	0200	Word Address
	3/D	0300	
	4/D	0400	
	SD	0001	
	1/SD	0101	
Special Register	2/SD	0201	Word Address
	3/SD	0301	
	4/SD	0401	
	W	0002	
Link Register / External Link Register	1/W	0102	
	2/W	0202	Word Address
	3/W	0302	
	4/W	0402	
Special Link Register	SW	0003	
	1/SW	0103	
	2/SW	0203	Word Address
	3/SW	0303	
	4/SW	0403	

Device	Device Name	Device Code (HEX)	Address Code
File Register (Normal)	R	000F	
	1/R	010F	
	2/R	020F	Word Address
	3/R	030F	
	4/R	040F	
File Register (Block switching is not necessary)	ZR	000E	
	1/ZR	010E	
	2/ZR	020E	Word Address
	3/ZR	030E	
	4/ZR	040E	

Device	Device Name	Device Code (HEX)	Address Code
	0R	0010	
	1/0R	0110	
	2/0R	0210	Word Address
	3/0R	0310	
	4/0R	0410	
	1R	0011	
	1/1R	0111	
	2/1R	0211	Word Address
	3/1R	0311	
	4/1R	0411	
	2R	0012	
	1/2R	0112	
File Register	2/2R	0212	Word Address
(0R-31R)	3/2R	0312	
	4/2R	0412	
	:	:	:
	30R	002E	
	1/30R	012E	
	2/30R	022E	Word Address
	3/30R	032E	
	4/30R	042E	
	31R	002F	
	1/31R	012F	
	2/31R	022F	Word Address
	3/31R	032F	
	4/31R	042F	
6.2 MELSEC iQ-F Series

Device	Device Name	Device Code (HEX)	Address Code
Input Relay	Х	0080	Value of word address divided by 0x10
Output Relay	Y	0081	Value of word address divided by 0x10
Internal Relay	М	0082	Value of word address divided by 16
Special Relay	SM	0083	Value of word address divided by 16
Latch Relay	L	0084	Value of word address divided by 16
Annunciator	F	0085	Value of word address divided by 16
Step Relay	S	0087	Value of word address divided by 16
Link Relay	В	0088	Value of word address divided by 0x10
Special Link Relay	SB	0089	Value of word address divided by 0x10
Timer(Current Value)	TN	0060	Word Address
Retentive Timer(Current Value)	SN	0062	Word Address
Counter(Current Value)	CN	0061	Word Address
Data Register	D	0000	Word Address
Special Register	SD	0001	Word Address
Link Register	W	0002	Word Address
Special Link Register	SW	0003	Word Address
File Register	R	000F	Word Address

7 Error Messages

Error messages are displayed on the screen of Display as follows: "No. : Device Name: Error Message (Error Occurrence Area)". Each description is shown below.

Item	Description		
No.	Error No.		
Device Name	Name of External Device where error occurs. Device name of External Device is a title of External Device set with GP-Pro EX.(Initial value [PLC1])		
Error Message	Displays messages related to the error which occurs.		
Error Occurrence Area	Displays IP address or device address of External Device where error occurs, or error codes received from External Device.		
	 NOTE IP address is displayed such as "IP address (Decimal): MAC address (Hex)". Device address is displayed such as "Address: Device address". Received error codes are displayed such as "Decimal [Hex]". 		

Display Examples of Error Messages

"RHAA035: PLC1: Error has been responded for device write command (Error Code: 2 [02H])"

NOTE
Refer to your External Device manual for details on received error codes.
Refer to "Display-related errors" in "Maintenance/Troubleshooting Guide" for details on the error messages common to the driver.

Error Messages Specific to the External Device

Error No.	Message	Description
RHxx128	(Node Name): AGP cannot read or write when "I/O No." and "Station No." are set.	When both "I/O No." and "Station No." in "Request destination module" are set and then access is made to other station, the Display reads or writes data to the Control CPU only in Multiple CPU system.
RHxx129	(Node Name): The specified CPU in the Device Address exceeded the set value of Multiple CPU System. (Address:(Device Address))	The specified CPU No.1 for read or write does not exist.
RHxx130	(Node Name): The specified CPU in the Device Address exceeded the set value of Multiple CPU System. (Address:(Device Address))	The specified CPU No.2 for read or write does not exist.
RHxx131	(Node Name): The specified CPU in the Device Address exceeded the set value of Multiple CPU System. (Address:(Device Address))	The specified CPU No.3 for read or write does not exist.
RHxx132	(Node Name): The specified CPU in the Device Address exceeded the set value of Multiple CPU System (Address:(Device Address))	The specified CPU No.4 for read or write does not exist.