

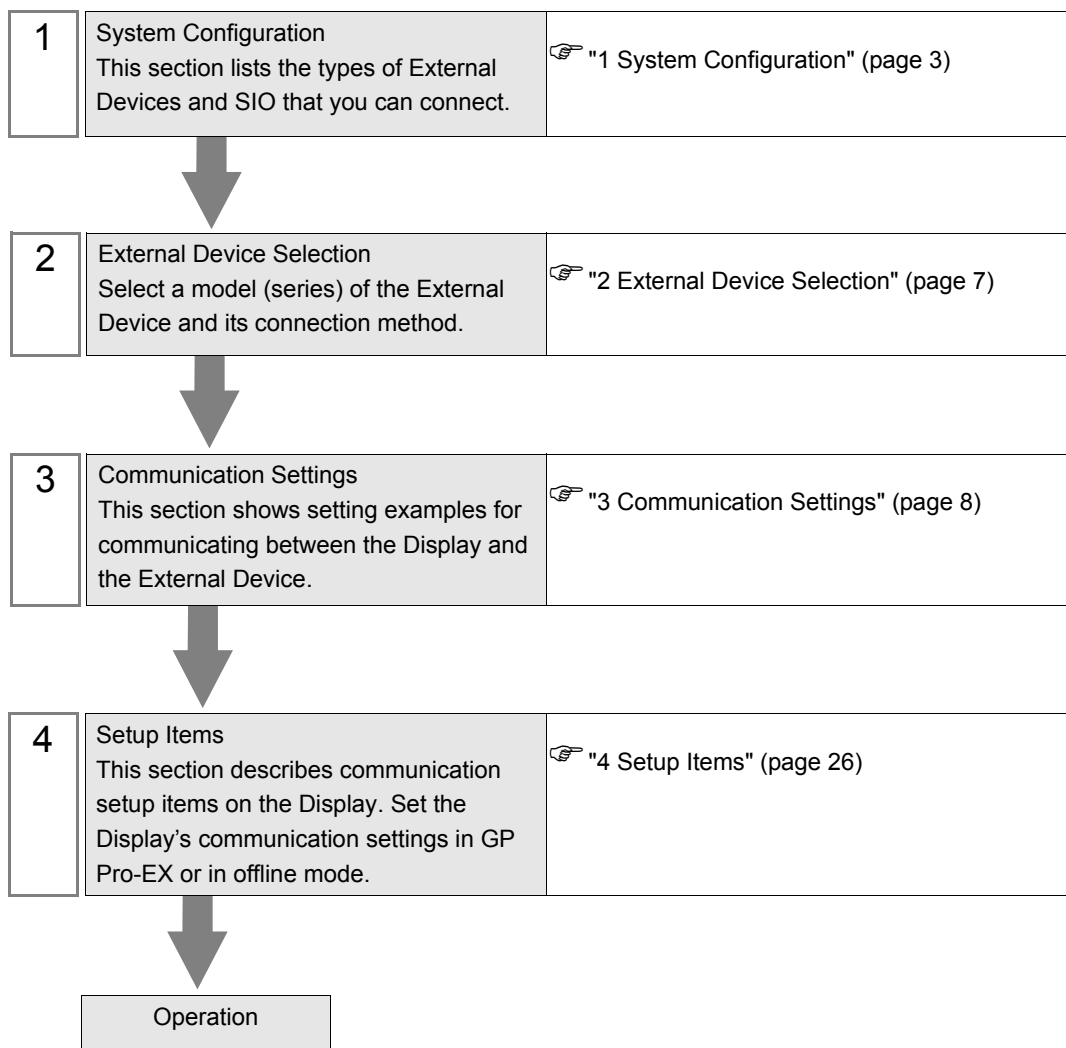
iQ-R/F Ethernet (SLMP Client) Driver

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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 in the sections identified below:



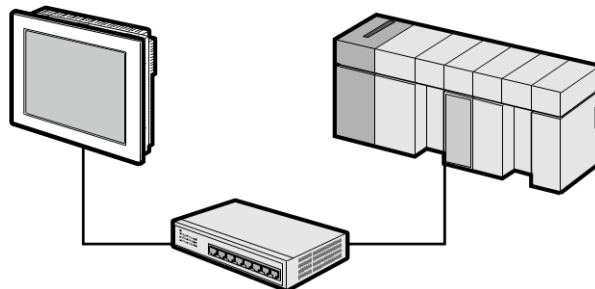
1 System Configuration

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

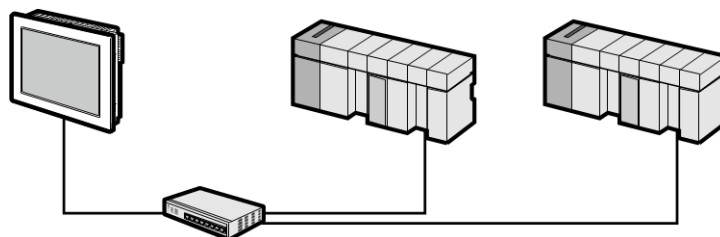
Series	CPU	Link I/F	SIO Type	Setting Example
iQ-R Series	R00CPU	Ethernet Port on CPU Unit	Ethernet (UDP)	Setting Example 1 (page 8)
	R01CPU			
	R02CPU		Ethernet (TCP)	Setting Example 2 (page 11)
	R04CPU			
	R08CPU	RJ71EN71	Ethernet (UDP)	Setting Example 3 (page 14)
	R16CPU			
	R32CPU			
	R120CPU			
	R04ENCPU			
	R08ENCPU			
	R16ENCPU			
	R32ENCPU			
	R120ENCPU			
	R08PCPU			
	R16PCPU			
	R32PCPU			
	R120PCPU			
	R08SF CPU			
	R16SF CPU			
	R32SF CPU			
	R120SF CPU			
	R08PSF CPU			
	R16PSF CPU			
	R32PSF CPU			
	R120PSF CPU			
iQ-F Series	FX5UCPU	Ethernet Port on CPU Unit	Ethernet (UDP)	Setting Example 5 (page 20)
	FX5UCCPU		Ethernet (TCP)	Setting Example 6 (page 23)

Connection Configuration

- 1:1 Connection



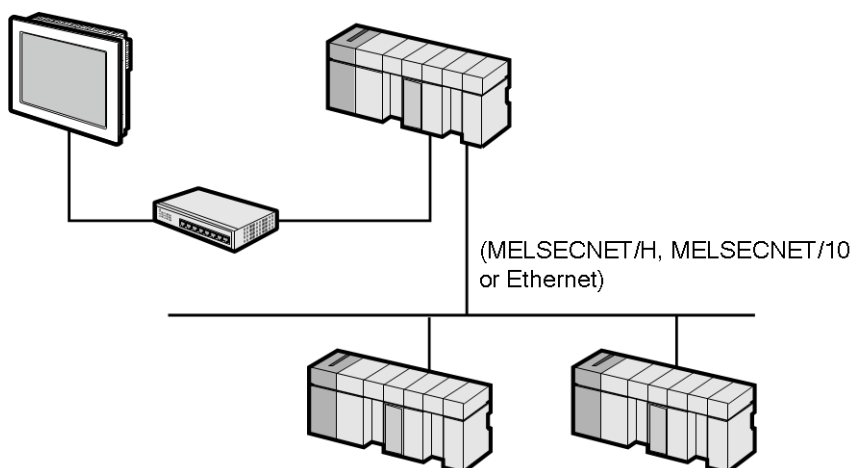
- 1:n Connection



NOTE

- The maximum number of External Devices you can connect is as follows.
TCP/IP connection: 16
UDP/IP connection: 32

- 1:n Connection (When using the iQ-R Series as a relay to access the network)

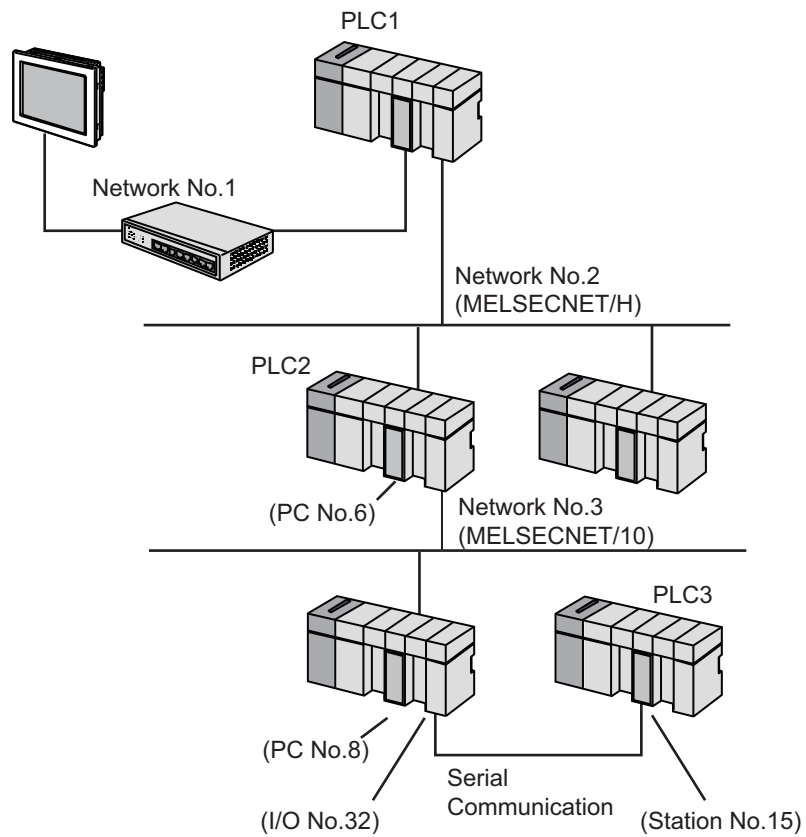


NOTE

- When communication over the network, set the timeout to a value greater than the relay station's response monitoring time.
- The maximum number of External Devices you can connect is as follows.
TCP/IP connection: up to 16
UDP/IP connection: up to 32

The following is an example setup on a network. Check the details of the setup items in "Setup Items"

☞ "4 Setup Items" (page 26)



Communication settings

	IP Address	Port No.
Display	192.168.1.1	1025

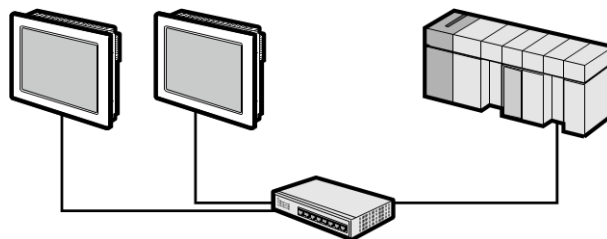
[Individual Device Settings] dialog box

External Device to Access	IP Address ^{*1}	Port No. ^{*2}	Network No.	PC No.	Request destination module I/O No.	Request destination module Station No.
PLC1	192.168.1.2	1025	0	255	1023	0
PLC2	192.168.1.2	1026	2	6	1023	0
PLC3	192.168.1.2	1027	3	8	32	15

*1 Set the IP address of the relay station (PLC1).

*2 The defined port number must be opened on the relay station (PLC1).

- n:1 Connection



NOTE

- The maximum number of Displays you can connect is as follows.

iQ-R series

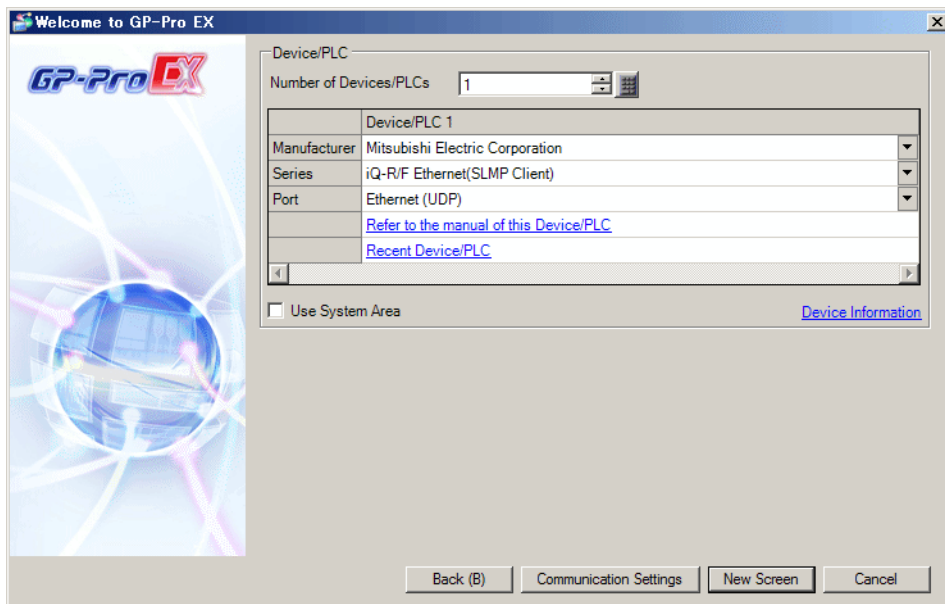
CPU unit's Ethernet port: 16

RJ71EN71: 64

iQ-F series: 8

2 External Device Selection

Select the External Device to be connected to the Display.



Setup Items	Setup Description
Number of Devices/PLCs	Enter an integer from 1 to 4 to define the number of Devices/PLCs to connect to the display.
Manufacturer	Select the manufacturer of the External Device to connect. Select "Mitsubishi Electric Corporation".
Series	Select the External Device model (series) and the connection method. Select "iQ-R/F Ethernet(SLMP Client)". In System configuration, make sure the External Device you are connecting is supported by "iQ-R/F Ethernet(SLMP Client)". ☞ "1 System Configuration" (page 3)
Port	Select the Display port to be connected to the External Device.
Use System Area	Check this option to synchronize the system data area of the Display and the device (memory) of the External Device. When synchronized, you can use the External Device's ladder program to switch the display or display the window on the Display. Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)" This feature can also be set in GP-Pro EX or in the Display's offline mode. Cf. GP-Pro EX Reference Manual "System Settings [Display Unit] - [System Area] Settings Guide" Cf. Maintenance/Troubleshooting Guide "Main Unit - System Area Settings"

3 Communication Settings

This section provides examples of communication settings recommended by Pro-face for the Display and the External Device.

3.1 Setting Example 1

■ Settings of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

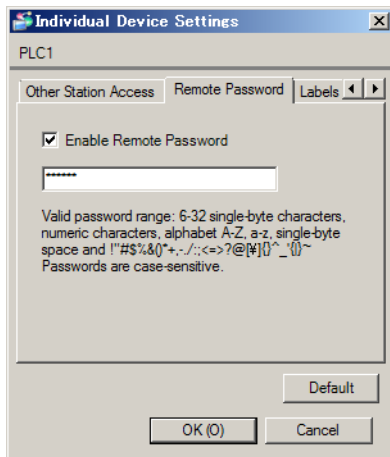
To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the External Device and click [Settings] .

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

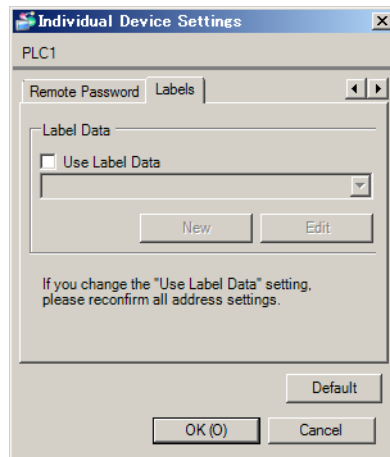
[Basic] tab

[Other Station Access] tab

[Remote Password] tab



[Labels] tab



◆ Notes

- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device address in the [Individual Device Settings] dialog box.
- You need to set IP address on the Display in the offline mode of the Display.

■ External Device Settings

Use the programming 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 programming software.
- 2 Open the [Module Parameter] window for the target CPU.
- 3 From the [Basic Settings], set up the following in [Own Node Settings].

Setup Items	Setup Description
IP Address	192.168.3.39
Subnet Mask	255.255.255.0
Enable/Disable Online Change	Enable All(SLMP)
Communication Data Code	Binary
Opening Method	Do Not Open by Program

- 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 drag and drop to the settings screen.
- 6 In the settings screen's [SLMP Connection Module], set up the following.

Setup Items	Setup Description
Protocol	UDP
PLC Port No.	1025
Existence Confirmation	UDP

- 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.

3.2 Setting Example 2

■ Settings of GP-Pro EX

◆ Communication Settings

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

◆ 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

[Other Station Access] tab

[Remote Password] tab

Individual Device Settings

PLC1

Other Station Access Remote Password Labels

☒ Enable Remote Password

Valid password range: 6-32 single-byte characters, numeric characters, alphabet A-Z, a-z, single-byte space and !\"#\$%&'()*+,-./:;<=>?@[\\]^_`{|}~
Passwords are case-sensitive.

Default

OK (O) Cancel

[Labels] tab

Individual Device Settings

PLC1

Remote Password Labels

Label Data

☐ Use Label Data

New Edit

If you change the "Use Label Data" setting,
please reconfirm all address settings.

Default

OK (O) Cancel

◆ Notes

- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device address in the [Individual Device Settings] dialog box.
- You need to set IP address on the Display in the offline mode of the Display.

■ External Device Settings

Use the programming 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 programming software.
- 2 Open the [Module Parameter] window for the target CPU.
- 3 From the [Basic Settings], set up the following in [Own Node Settings].

Setup Items	Setup Description
IP Address	192.168.3.39
Subnet Mask	255.255.255.0
Enable/Disable Online Change	Enable All(SLMP)
Communication Data Code	Binary
Opening Method	Do Not Open by Program

- 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 drag and drop to the settings screen.
- 6 In the settings screen's [SLMP Connection Module], set up the following.

Setup Items	Setup Description
Protocol	TCP
PLC Port No.	1025
Existence Confirmation	KeepAlive(Default)

- 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.

3.3 Setting Example 3

■ Settings of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

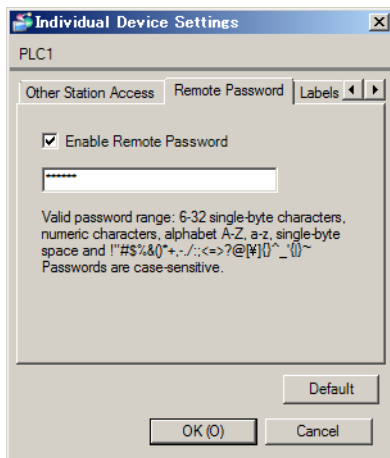
To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the External Device and click [Settings] .

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

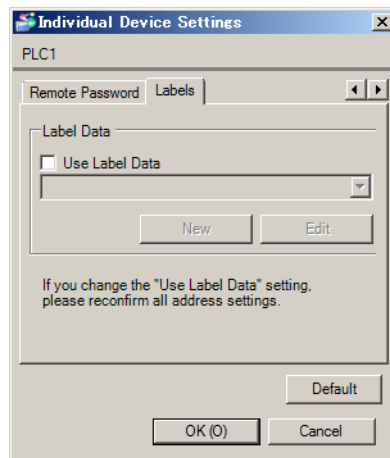
[Basic] tab

[Other Station Access] tab

[Remote Password] tab



[Labels] tab



◆ Notes

- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device address in the [Individual Device Settings] dialog box.
- You need to set IP address on the Display in the offline mode of the Display.

■ External Device Settings

Use the programming 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 programming software.
- 2 From the navigation window's [Module Information], open the [Port 1 Module Parameter] window for the target link I/F.
- 3 From the [Basic Settings], set up the following in [Own Node Settings].

Setup Items	Setup Description
IP Address	192.168.3.40
Subnet Mask	255.255.255.0
Enable/Disable Online Change	Enable All(SLMP)
Communication Data Code	Binary
Opening Method	Do Not Open by Program
Communications by Network No./ Station No.	Disable

- 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 drag and drop to the settings screen.
- 6 In the settings screen's [SLMP Connection Module], set up the following.

Setup Items	Setup Description
Protocol	UDP
PLC Port No.	1025
Existence Confirmation	UDP

- 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.

3.4 Setting Example 4

■ Settings of GP-Pro EX

◆ Communication Settings

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

◆ 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

[Other Station Access] tab

[Remote Password] tab

Individual Device Settings

PLC1

Other Station Access Remote Password Labels

☒ Enable Remote Password

Valid password range: 6-32 single-byte characters, numeric characters, alphabet A-Z, a-z, single-byte space and !"#\$%&'()*+,-./:;<=>?@[]^_`~ Passwords are case-sensitive.

Default

OK (O) Cancel

[Labels] tab

Individual Device Settings

PLC1

Remote Password Labels

Label Data

☐ Use Label Data

New Edit

If you change the "Use Label Data" setting, please reconfirm all address settings.

Default

OK (O) Cancel

◆ Notes

- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device address in the [Individual Device Settings] dialog box.
- You need to set IP address on the Display in the offline mode of the Display.

■ External Device Settings

Use the programming 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 programming software.
- 2 From the navigation window's [Module Information], open the [Port 1 Module Parameter] window for the target link I/F.
- 3 From the [Basic Settings], set up the following in [Own Node Settings].

Setup Items	Setup Description
IP Address	192.168.3.40
Subnet Mask	255.255.255.0
Enable/Disable Online Change	Enable All(SLMP)
Communication Data Code	Binary
Opening Method	Do Not Open by Program
Communications by Network No./ Station No.	Disable

- 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 drag and drop to the settings screen.
- 6 In the settings screen's [SLMP Connection Module], set up the following.

Setup Items	Setup Description
Protocol	TCP
PLC Port No.	1025
Existence Confirmation	KeepAlive(Default)

- 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.

3.5 Setting Example 5

■ Settings of GP-Pro EX

◆ Communication Settings

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

The 'Device/PLC 1' dialog box is shown with the following settings:

- Summary:**
 - Manufacturer: Mitsubishi Electric Corporation
 - Series: iQ-R/F Ethernet(SLMP Client)
 - Port: Ethernet (UDP)
 - Text Data Mode: 2
- Communication Settings:**
 - Port No.: 1025
 - Timeout: 3 (sec)
 - Retry: 2
 - Wait To Send: 0 (ms)
- Device-Specific Settings:**
 - Allowable Number of Devices/PLCs: 32
 - No. Device Name: 1 PLC1
 - Settings: Series=iQ-F, IP Address=192.168.003.250, Port No.=10

◆ 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

The 'Individual Device Settings' dialog box, Basic tab, shows the following settings for PLC1:

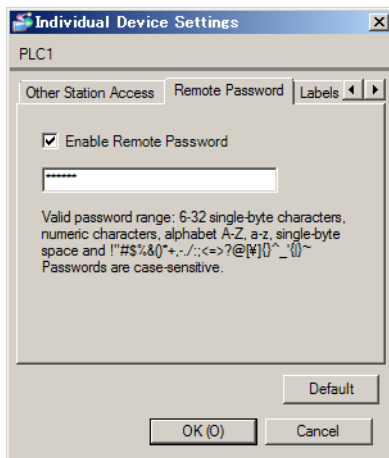
- Series: iQ-F
- IP Address: 192.168.3.250
- Port No.: 1025

[Other Station Access] tab

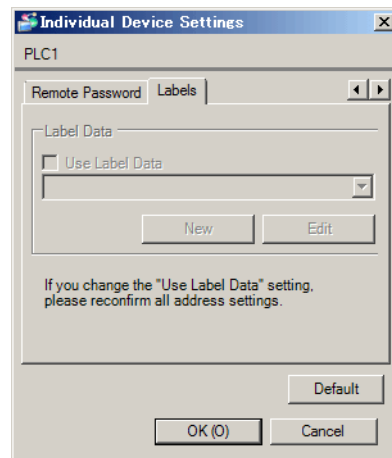
The 'Individual Device Settings' dialog box, Other Station Access tab, shows the following settings for PLC1:

- Network No.: 0
- PC No.: 255
- Request destination module:
 - I/O No.: 1023
 - Station No.: 0

[Remote Password] tab



[Labels] tab



◆ Notes

- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device address in the [Individual Device Settings] dialog box.
- You need to set IP address on the Display in the offline mode of the Display.

■ External Device Settings

Use the programming 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 programming software.
- 2 Open the [Module Parameter] window for the target CPU.
- 3 From the [Basic Settings], set up the following in [Own Node Settings].

Setup Items	Setup Description
IP Address	192.168.3.250
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 drag and drop to the settings screen.
- 6 In the settings screen's [SLMP Connection Module], set up the following.

Setup Items	Setup Description
Protocol	UDP
PLC Port No.	1025
Sensor/Device IP Address	192.168.3.10 (Display's IP Address)

- 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.

3.6 Setting Example 6

■ Settings of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

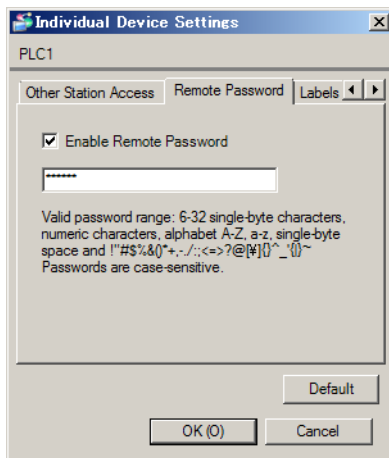
To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the External Device and click [Settings] .

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

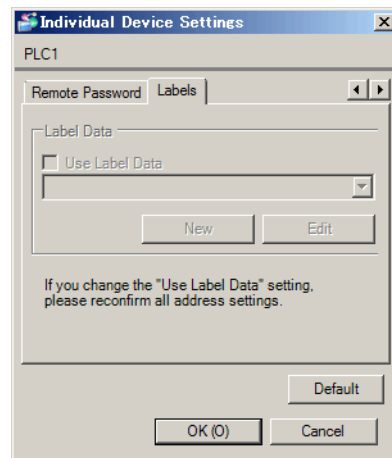
[Basic] tab

[Other Station Access] tab

[Remote Password] tab



[Labels] tab



◆ Notes

- Check with a network administrator about IP address. Do not set the duplicate IP address.
- Set IP address on the External Device address in the [Individual Device Settings] dialog box.
- You need to set IP address on the Display in the offline mode of the Display.

■ External Device Settings

Use the programming 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 programming software.
- 2 Open the [Module Parameter] window for the target CPU.
- 3 From the [Basic Settings], set up the following in [Own Node Settings].

Setup Items	Setup Description
IP Address	192.168.3.250
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 drag and drop to the settings screen.
- 6 In the settings screen's [SLMP Connection Module], set up the following.

Setup Items	Setup Description
Protocol	TCP
PLC 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 up the Display's communication settings in GP-Pro EX or in the Display's offline mode.

The setting of each parameter must match that of the External Device.

 "3 Communication Settings" (page 8)

NOTE

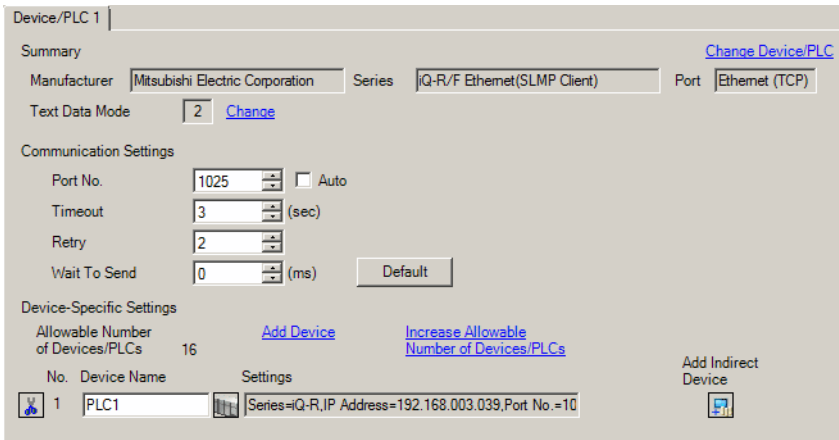
- Set the Display's IP address in offline mode.

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

Manufacturer Series Port [Change Device/PLC](#)

Text Data Mode [Change](#)

Communication Settings

Port No. ☐ Auto

Timeout (sec)

Retry

Wait To Send (ms)

Device-Specific Settings

Allowable Number of Devices/PLCs 16 [Add Device](#) [Increase Allowable Number of Devices/PLCs](#)

No.	Device Name	Settings
1	PLC1	Series=iQ-R,IP Address=192.168.003.039,Port No.=10

[Add Indirect Device](#)

Setup Items	Setup Description
Port No.	Enter a port number of the External Device, using 1025 to 65535. Check into [Auto], and a port number is set automatically. NOTE [Auto] option is available to set only when you select "Ethernet (TCP)" in [Connecting Method].
Timeout	Use an integer from 1 to 127 to enter the time (s) for which Display waits for the response from External Device.
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.

NOTE

- Refer to the GP-Pro EX Reference Manual for Indirect Device.

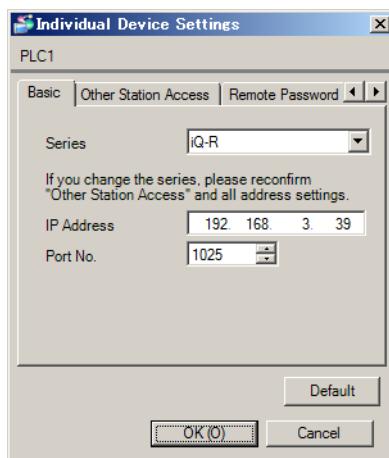
Cf. GP-Pro EX Reference Manual "Changing the Device/PLC at Runtime (Indirect Device)"

■ 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



Setup Items	Setup Description
Series	Select a model 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. of the External Device.

◆ Other Station Access] tab

The screenshot shows the 'Individual Device Settings' dialog box for PLC1. The 'Other Station Access' tab is selected. It contains four numeric input fields: 'Network No.' with value 0, 'PC No.' with value 255, 'Request destination module I/O No.' with value 1023, and 'Station No.' with value 0. At the bottom, there are three buttons: 'Default', 'OK (O)', and 'Cancel'.

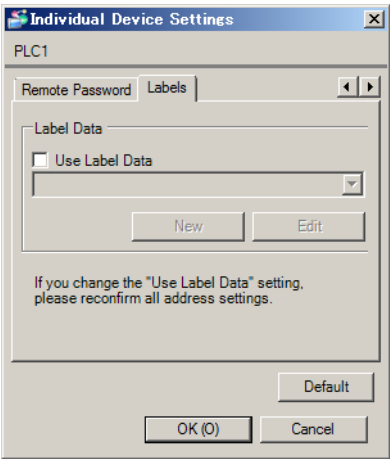
Setup Items	Setup Description
Network No.	Set up this property when you communicate via the network. Use an integer from 0 to 239 or 254 to define the Network No. of the associated External Device. If communication is not done via a network, enter 0.
PC No.	Set up this property when you communicate via the network. Use an integer from 0 to 120 or 125 to 126 to define the PC No. of the associated External Device. If communication is not done via a network, enter 255.
I/O No.	Set up this property when you communicate via the network. Use an integer from 0 to 511 to define the I/O No. of the associated External Device. If communication is not done via a network, enter 1023.
Station No.	Enter the station number of the External Device, from 0 to 31.

◆ [Remote Password] tab

The screenshot shows the 'Individual Device Settings' dialog box for PLC1, with the 'Remote Password' tab selected. The 'Enable Remote Password' checkbox is checked. Below it is a password input field filled with asterisks. A text box below the field states: 'Valid password range: 6-32 single-byte characters, numeric characters, alphabet A-Z, a-z, single-byte space and !\"#\$%&()*+,-./:;<=>?@[\\]^_`{|}~ Passwords are case-sensitive.' At the bottom are 'Default', 'OK (O)', and 'Cancel' buttons.

Setup Items	Setup Description
Enable Remote Password	To use a remote password, select the check box and enter the remote password.

◆ [Labels] tab



Setup Items	Setup Description
Use Label Data	Select The check box when using the label data (Symbol Address), and select the label data to be used. ☞ "5.3 MELSEC iQ-R Series (Label)" (page 36)

- NOTE**
- When iQ-F series is selected, you cannot select Use Label Data.
 - When GP-4100 series is selected, you cannot select Use Label Data.

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 list that appears.

Comm.	Device			
iQ-R/F Ethernet(SLMP Client)			[UDP]	Page 1/1
Port No. ☒ Fixed ☐ Auto 1025 ▼ ▲ Timeout(s) 3 ▼ ▲ Retry 2 ▼ ▲ Wait To Send(ms) 0 ▼ ▲				
Exit		Back		2016/10/05 14:34:43

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.
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].

Comm.	Device			
iQ-R/F Ethernet(SLMP Client)		[UDP]	Page 1/1	
Device/PLC Name PLC1				
Series	iQ-R			
IP Address	192 168 0 1			
Port No.	1025 ▼ ▲			
Network No.	0 ▼ ▲			
PC No.	255 ▼ ▲			
Request destination module				
I/O No.	1023 ▼ ▲			
Station No.	0 ▼ ▲			
Remote Password	☒ Do not use ☐ Use 			
Exit		Back		2016/10/05 14:34:46

Setup Items	Setup Description
Device/PLC Name	Select the External Device to set. Device/PLC name is the title of the External Device set with GP-Pro EX. (Initial value [PLC1])
Series	Display a model of the External Device.
IP Address	Set IP addresses used by 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. of the External Device.
Network No.	Set up this property when you communicate via the network. Use an integer from 0 to 239 or 254 to define the Network No. of the associated External Device. If communication is not done via a network, enter 0.
PC No.	Set up this property when you communicate via the network. Use an integer from 0 to 120 or 125 to 126 to define the PC No. of the associated External Device. If communication is not done via a network, enter 255.
I/O No.	Set up this property when you communicate via the network. Use an integer from 0 to 511 to define the I/O No. of the associated External Device. If communication is not done via a network, enter 1023.
Station No.	Enter the station number of the External Device, from 0 to 31.
Remote Password	Set whether or not to use the Remote Password. Enter the Remote Password when using this feature.

5 Supported Devices

The following table shows the range of supported device addresses. Please note that the actual 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.

5.1 MELSEC iQ-R Series

 : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Input Relay	X0000 - X2FFF	X0000 - X2FF0	L/H	***0 ^{*1}
Output Relay	Y0000 - Y2FFF	Y0000 - Y2FF0		***0 ^{*2}
Internal Relay	M00000000 - M99999999	M00000000 - M99999984		÷16
Special Relay	SM0000 - SM4095	SM0000 - SM4080		÷16
Latch Relay	L00000 - L32767	L000000 - L32752		÷16
Annunciator	F00000 - F32767	F00000 - F32752		÷16
Edge Relay	V00000 - V32767	V00000 - V32752		÷16
Link Relay	B0000000 - B9A61FFF	B0000000 - B9A61FF0		***0
Special Link Relay	SB0000000 - SB9A61FFF	SB0000000 - SB9A61FF0		***0
Timer (Contact)	TS0000000 - TS8993439	-		
Timer (Coil)	TC0000000 - TC8993439	-		
Retentive Timer (Contact)	SS0000000 - SS8993439	-		
Retentive Timer (Coil)	SC0000000 - SC8993439	-		
Counter (Contact)	CS0000000 - CS8993439	-		
Counter (Coil)	CC0000000 - CC8993439	-		
Timer (Current Value)	-	TN0000000 - TN8993439		
Retentive Timer (Current value)	-	SN0000000 - SN8993439		
Long Timer (Current Value)	-	L_TN0000000 - L_TN2529407		
Long Retentive Timer (Current value)	-	L_SN0000000 - L_SN2529407		
Counter (Current Value)	-	CN0000000 - CN8993439		
Long Counter (Current Value)	-	L_CN0000000 - L_CN4761215		
Data Register	-	D00000000 - D10117631		Bit F
Special Register	-	SD0000 - SD4095		Bit F
Link Register	-	W000000 - W9A61FF		Bit F
Special Link Register	-	SW000000 - SW9A61FF		Bit F
Link Input	J001-X0000 - J255-X3FFF	J001-X0000 - J255-X3FF0		***0 ^{*3}

Device	Bit Address	Word Address	32 bits	Remarks
Link Output	J001-Y0000 - J255-Y3FFF	J001-Y0000 - J255-Y3FFF0	L/H	 *3
Link Relay	J001-B0000 - J255-B7FFF	J001-B0000 - J255-B7FFF0		 *3
Link Special Relay	J001-SB0000 - J255-SB1FFF	J001-SB0000 - J255-SB1FFF0		 *3
Link Register	-	J001-W00000 - J255-W1FFFF		 *3
Link Special Register	-	J001-SW000 - J255-SW1FF		 *3
Module Access Device	-	U000-G00000000 - U1FF-G99999999		 *4
CPU Buffer Memory Access Device	-	U3E0-G00000000 - U3E3-G99999999		 *5
CPU Buffer Memory (Periodic Communication Area)	-	U3E0-HG00000 - U3E3-HG12287		 *5
File Register (Normal)	-	R00000 - R32767		
File Register (Block switching is not necessary)	-	ZR00000000 - ZR10027007		
File Register (0R - 31R)	-	0R00000 - 0R32767		
	-	1R00000 - 1R32767		
	-	2R00000 - 2R32767		
	:	:		
	-	30R00000 - 30R32767		
	-	31R00000 - 31R32767		

- *1 If the CPU is R00CPU/R01CPU/R02CPU, the bit address is "X0000 - X1FFF" and the word address is "X0000 - X1FFF0".
- *2 If the CPU is R00CPU/R01CPU/R02CPU, the bit address is "Y0000 - Y1FFF" and the word address is "Y0000 - Y1FFF0".
- *3 Link direct device to access the network link module's internal memory. The first three digits of the address is the network number (1-255).
- *4 Device for accessing SLMP compatible devices, as well as the intelligent function unit's buffer memory. The first three digits of the address specifies the intelligent module's starting I/O number.
- *5 Device that can access CPU buffer memory. The first three digits of the address specifies the CPU number:
 3E0H: CPU No.1
 3E1H: CPU No.2
 3E2H: CPU No.3
 3E3H: CPU No.4

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)"

- Refer to the precautions on manual notation for icons in the table.



"Manual Symbols and Terminology"

5.2 MELSEC iQ-R Series (when communicating via the network)

 : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Input Relay	X0000 - X2FFF	X0000 - X2FF0	L/H	***0 *1
Output Relay	Y0000 - Y2FFF	Y0000 - Y2FF0		***0 *2
Internal Relay	M000000 - M999999	M000000 - M999984		÷16 *3
Special Relay	SM0000 - SM4095	SM0000 - SM4080		÷16
Latch Relay	L00000 - L32767	L00000 - L32752		÷16
Annunciator	F00000 - F32767	F00000 - F32752		÷16
Edge Relay	V00000 - V32767	V00000 - V32752		÷16
Link Relay	B000000 - BFFFFFFF	B000000 - BFFFFFF0		***0 *3
Special Link Relay	SB000000 - SBFFFFFFF	SB000000 - SBFFFFFF0		***0 *3
Timer (Contact)	TS000000 - TS999999	-		*3
Timer (Coil)	TC000000 - TC999999	-		*3
Retentive Timer (Contact)	SS000000 - SS999999	-		*3
Retentive Timer (Coil)	SC000000 - SC999999	-		*3
Counter (Contact)	CS000000 - CS999999	-		*3
Counter (Coil)	CC000000 - CC999999	-		*3
Timer (Current Value)	-	TN000000 - TN999999		*3
Retentive Timer (Current value)	-	SN000000 - SN999999		*3
Counter (Current Value)	-	CN000000 - CN999999		*3
Data Register	-	D000000 - D999999		Bit F *3
Special Register	-	SD0000 - SD4095		Bit F
Link Register	-	W000000 - W9A61FF		Bit F
Special Link Register	-	SW000000 - SW9A61FF		Bit F
Link Input	J001-X0000 - J255-X3FFF	J001-X0000 - J255-X3FF0		***0 *4
Link Output	J001-Y0000 - J255-Y3FFF	J001-Y0000 - J255-Y3FF0		***0 *4
Link Relay	J001-B0000 - J255-B7FFF	J001-B0000 - J255-B7FF0		***0 *4
Link Special Relay	J001-SB0000 - J255-SB1FFF	J001-SB0000 - J255-SB1FF0		***0 *4
Link Register	-	J001-W00000 - J255-W1FFFF		Bit F *4
Link Special Register	-	J001-SW000 - J255-SW1FF		Bit F *4
CPU Buffer Memory Access Device	-	U3E0-G000000 - U3E3-G999999		Bit F *5
CPU Buffer Memory (Periodic Communication Area)	-	U3E0-HG00000 - U3E3-HG12287		Bit F *5

Device	Bit Address	Word Address	32 bits	Remarks
File Register (Normal)	-	R00000 - R32767	L/H	
File Register (Block switching is not necessary)	-	ZR00000000 - ZR10027007		
File Register (0R - 31R)	-	0R00000 - 0R32767		
	-	1R00000 - 1R32767		
	-	2R00000 - 2R32767		
	:	:		
	-	30R00000 - 30R32767		
	-	31R00000 - 31R32767		

- *1 If the CPU is R00CPU/R01CPU/R02CPU, the bit address is "X0000 - X1FFF" and the word address is "X0000 - X1FF0".
- *2 If the CPU is R00CPU/R01CPU/R02CPU, the bit address is "Y0000 - Y1FFF" and the word address is "Y0000 - Y1FF0".
- *3 Device range is limited.
- *4 Link direct device to access the network link module's internal memory. The first three digits of the address is the network number (1-255).
- *5 Device that can access CPU buffer memory. The first three digits of the address specifies the CPU number:
 3E0H: CPU No.1
 3E1H: CPU No.2
 3E2H: CPU No.3
 3E3H: CPU No.4

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)"

- Refer to the precautions on manual notation for icons in the table.



"Manual Symbols and Terminology"

5.3 MELSEC iQ-R Series (Label)

 : This address can be specified as system data area.

Data Type		Bit Address	Word Address	32bits	Note
BOOL	Single Tag	<LABELNAME>	-	-	*1 *2 *3
	1D Array	<LABELNAME>[xl] - <LABELNAME>[xh]			
	2D Array	<LABELNAME>[xl,yl] - <LABELNAME>[xh,yh]			
	3D Array	<LABELNAME>[xl,yl,zl] - <LABELNAME>[xh,yh,zh]			
INT WORD	Single Tag	<LABELNAME>.00 - <LABELNAME>.15	<LABELNAME>	L/H	*1 *2 *3
	1D Array	<LABELNAME>[xl].00 - <LABELNAME>[xh].15	<LABELNAME>[xl] - <LABELNAME>[xh]		
	2D Array	<LABELNAME>[xl,yl].00 - <LABELNAME>[xh,yh].15	<LABELNAME>[xl,yl] - <LABELNAME>[xh,yh]		
	3D Array	<LABELNAME>[xl,yl,zl].00 - <LABELNAME>[xh,yh,zh].15	<LABELNAME>[xl,yl,zl] - <LABELNAME>[xh,yh,zh]		
REAL TIME	Single Tag	-	<LABELNAME>	-	*1 *2 *3
	1D Array		<LABELNAME>[xl] - <LABELNAME>[xh]		
	2D Array		<LABELNAME>[xl,yl] - <LABELNAME>[xh,yh]		
	3D Array		<LABELNAME>[xl,yl,zl] - <LABELNAME>[xh,yh,zh]		
DINT DWORD	Single Tag	<LABELNAME>.00 - <LABELNAME>.31	<LABELNAME>	-	*1 *2 *3
	1D Array	<LABELNAME>[xl].00 - <LABELNAME>[xh].31	<LABELNAME>[xl] - <LABELNAME>[xh]		
	2D Array	<LABELNAME>[xl,yl].00 - <LABELNAME>[xh,yh].31	<LABELNAME>[xl,yl] - <LABELNAME>[xh,yh]		
	3D Array	<LABELNAME>[xl,yl,zl].00 - <LABELNAME>[xh,yh,zh].31	<LABELNAME>[xl,yl,zl] - <LABELNAME>[xh,yh,zh]		
STRING	Single Tag	-	<LABELNAME>	-	*1 *2 *3 *4
	1D Array		<LABELNAME>[xl] - <LABELNAME>[xh]		
	2D Array		<LABELNAME>[xl,yl] - <LABELNAME>[xh,yh]		
	3D Array		<LABELNAME>[xl,yl,zl] - <LABELNAME>[xh,yh,zh]		

Data Type		Bit Address	Word Address	32bits	Note
TIMER	C	<LABELNAME>.C	-	-	*5
	S	<LABELNAME>.S			
	N	-	<LABELNAME>.N	[L/H]	
RETENTIVE TIMER	C	<LABELNAME>.C	-	-	*5
	S	<LABELNAME>.S			
	N	-	<LABELNAME>.N	[L/H]	
COUNTER	C	<LABELNAME>.C	-	-	*5
	S	<LABELNAME>.S			
	N	-	<LABELNAME>.N	[L/H]	
LTIMER	C	<LABELNAME>.C	-	-	*6
	S	<LABELNAME>.S			
	N	-	<LABELNAME>.N		
LRETENTIVE TIMER	C	<LABELNAME>.C	-	-	*6
	S	<LABELNAME>.S			
	N	-	<LABELNAME>.N		
LCOUNTER	C	<LABELNAME>.C	-	-	*6
	S	<LABELNAME>.S			
	N	-	<LABELNAME>.N		

*1 <LABELNAME>: For structures, the LABELNAME will include the structure name. The maximum number of characters for the LABELNAME is 255, which includes the delimiter and address.

Example)

BOOL type single Label:	"BOOLVAR"
BOOL array element:	"BOOLARRAY[0012]"
INT type single Label:	"INTVAR"
DINT type bit address:	"DINTVAR.30"
REAL type 3D array:	"REALARRAY[1,2,3]"
INT member of a structure ("TIMER"):	"TIMERVER.N"
STRING type variable:	"MYSTRINGVAR"

The following input rules apply to LABELNAME and member names.

- Maximum of 255 single-byte characters.
 - You can use alphanumeric characters (uppercase, lowercase), underscore, and double-byte characters (such as kanji).
 - The first character cannot be a number.
 - You cannot start names with any of the following text:
LS, USR, SCR, PRT
 - You cannot use ! " # \$ % ' * & + , . / : ; < = > ? @ [\] ^ ` { | } ~ and spaces.
 - You cannot use data type keywords. ("WORD", "BOOL", "ARRAY", and so on)
 - Label names are case-insensitive.
 - You cannot use names reserved by IEC instructions. (*)
 - You cannot use device names defined in MELSEC. (*)
 - You cannot use function blocks or function names defined by the manufacturer or MELSEC instruction names. (*)
- * GP-Pro EX error check cannot identify these names. If you use these names, a communication error will occur. Please refer to the External Device manual for names that are used.

- *2 The number of elements in each dimension is displayed as l (minimum number of elements) to h (maximum number of elements).
- *3 Array element numbers defined on a label start from 0.
You can calculate the size of the array with the number of elements in each dimension.
Example)
Word array "Array [0 ...15, 0 ...14, 0 ...13]", evaluates to array size of 3360 (= 16 × 15 × 14).
The maximum size of each device is as follows.
BOOL, INT, WORD, TIMER, COUNTER, RETENTIVETIMER: 2147483648
DINT, DWORD, LTIMER, LCOUNTER, LRETENTIVETIMER, TIME: 1073741824
STRING: 2147483648 ÷ size of STRING device
- *4 The STRING label defines the maximum number of characters (up to 255) in the data type settings.
- *5 C (coil) and S (contact) are BOOL type devices. N (current value) is a WORD type device.
- *6 C (coil) and S (contact) are BOOL type devices. N (current value) is a DWORD type device.

IMPORTANT

- When using the tag, it is necessary to import the label data (symbol address).
Please refer to the GP-Pro EX Reference Manual for import procedure.

Cf. GP-Pro EX Reference Manual "Using Device/PLC Tags"

- If the CPU is R00CPU/R01CPU/R02CPU, you cannot import label data (symbol address).
- The tag import feature is supported in GP-Pro EX V3.01.000 or later (or in the case of GP-4*01TM, V3.10.000 or later).

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)"

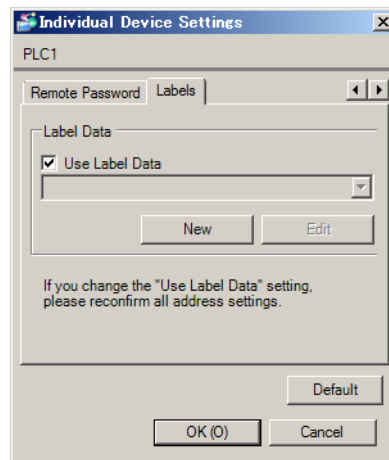
- Refer to the precautions on manual notation for icons in the table.



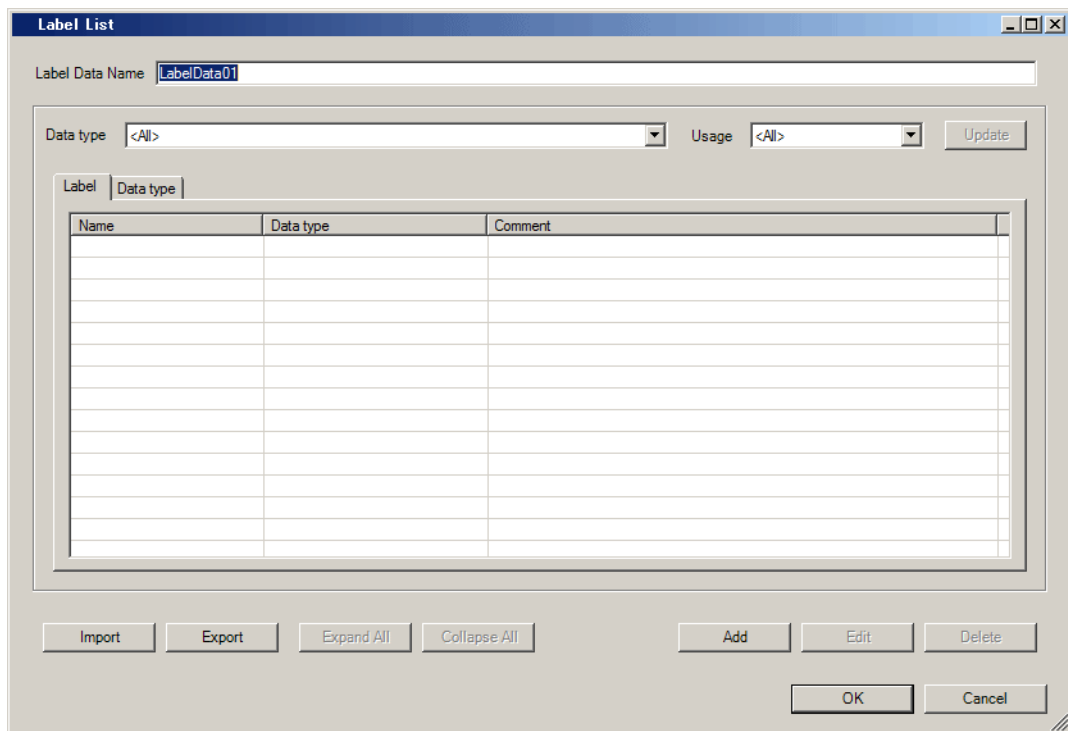
"Manual Symbols and Terminology"

■ Importing Label Data

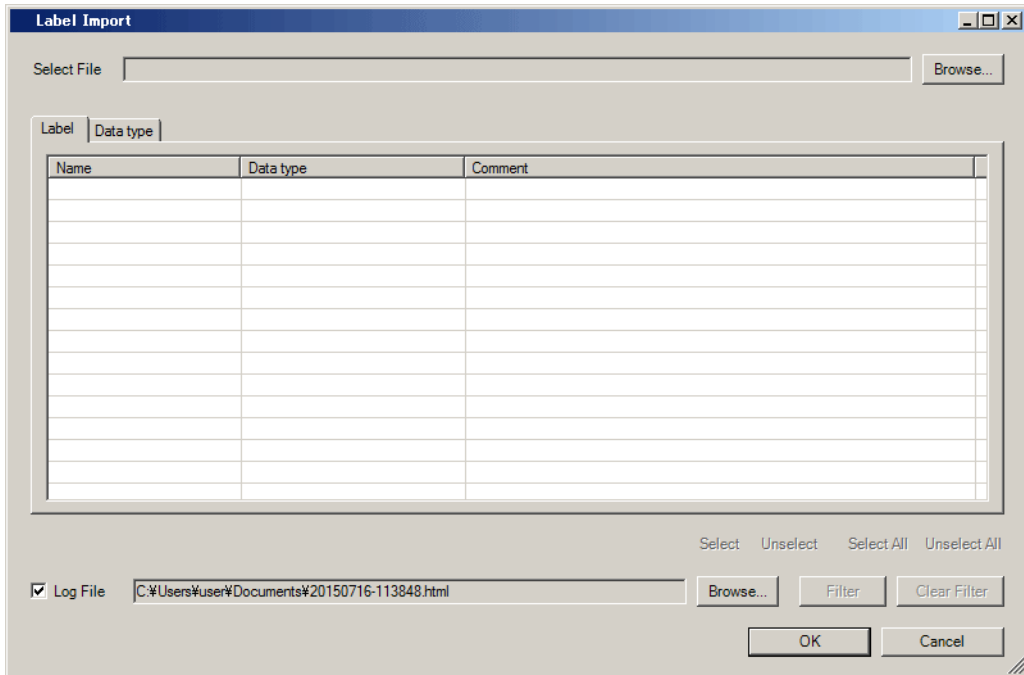
- 1 In GP-Pro EX, open the [Individual Device Settings] dialog box, and from the [Series] drop-down list, select "iQ-R".
- 2 From the [Labels] tab, select the [Use Label Data] check box.



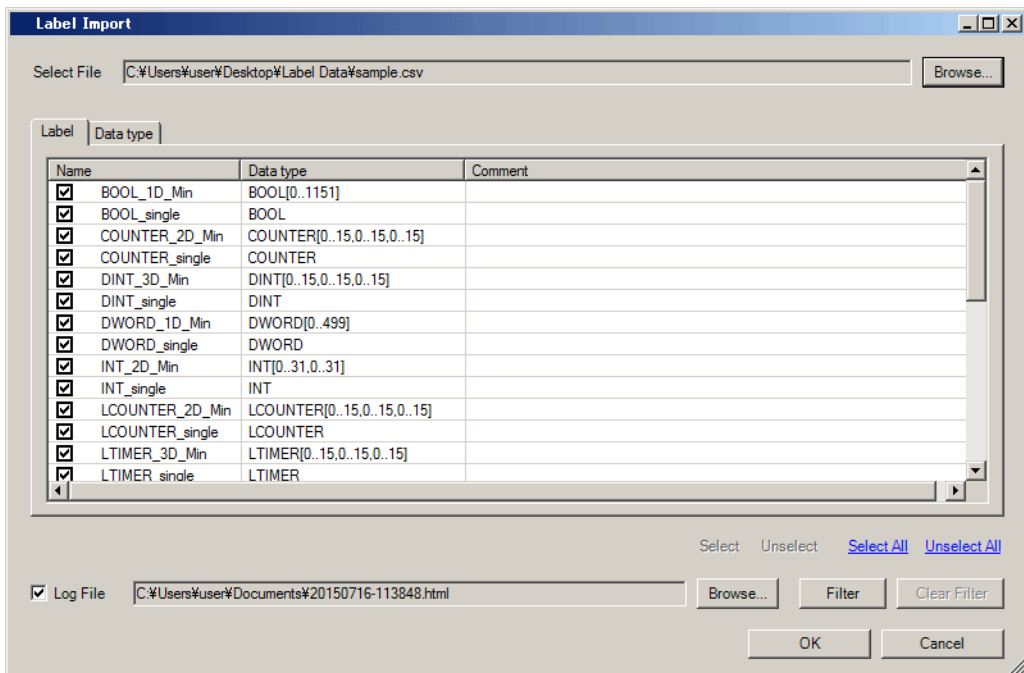
- 3** Click [New] to open the [Label List] window.



4 Click [Import].



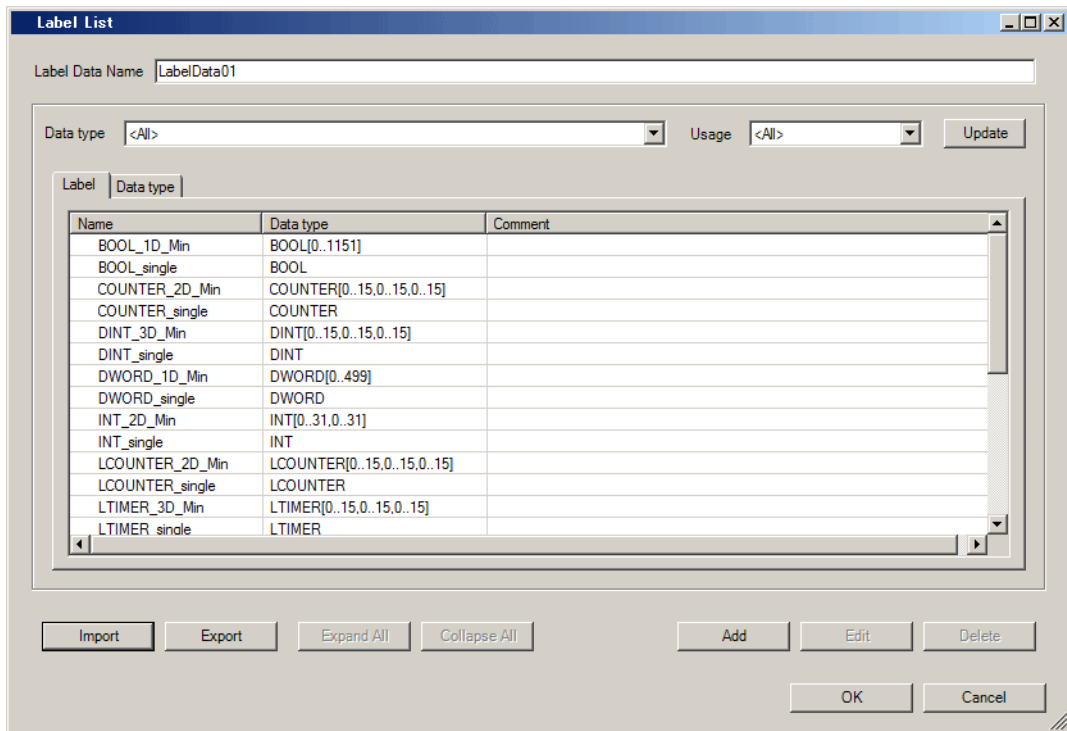
5 From the [Select File] field, click [Browse..], and then select the CSV file.



IMPORTANT

- Generate the label data using the programming software (MELSOFT GX Works 3). Labels you can import into GP-Pro EX include "Global Label File", "User Defined Data Structure File" and "Module-Defined Data Structure File".
- Place in the same folder, the label data you want to import.
In GP-Pro EX, when you select [Global Label File] as the label data to import, imported data includes "User Defined Data Structure File" and "Module-Defined Data File" in the same folder.

6 Check the labels to import, and click [OK].



5.4 MELSEC iQ-F Series

 : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Input Relay	X0000 - X1777	X0000 - X1760	L/H	OCT 8 *1
Output Relay	Y0000 - Y1777	Y0000 - Y1760		OCT 8 *1
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		
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	-		
Retentive Timer (Coil)	SC0000 - SC1023	-		
Counter (Contact)	CS0000 - CS1023	-		
Counter (Coil)	CC0000 - CC1023	-		
Long Counter (Contact)	L_CS0000 - L_CS1023	-		
Long Counter (Coil)	L_CC0000 - L_CC1023	-		
Timer (Current Value)	-	TN0000 - TN1023		
Retentive Timer (Current value)	-	SN0000 - SN1023		
Counter (Current Value)	-	CN0000 - CN1023		
Long Counter (Current Value)	-	L_CN0000 - L_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
Module Access Device	-	U000-G00000 - U1FF-G65535		Bit F *2
File Register	-	R00000 - R32767		Bit F

*1 Define the word address in increments of 20 (octal).
Example: X0000, X0020, X0040...X1760

*2 Device for accessing SLMP compatible devices, as well as the intelligent function unit's buffer memory.
The first three digits of the address specifies the intelligent module's starting I/O number.

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)"

- 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 Type & Address" for the address type in data displays.

NOTE

- When using the label, the device code and address code can not be used.

6.1 MELSEC iQ-R Series

Device	Device Name	Device Code (HEX)	Address Code
Input Relay	X	0x0080	Word Address ÷ 0x10
	1/X	0x0180	
	2/X	0x0280	
	3/X	0x0380	
	4/X	0x0480	
Output Relay	Y	0x0081	Word Address ÷ 0x10
	1/Y	0x0181	
	2/Y	0x0281	
	3/Y	0x0381	
	4/Y	0x0481	
Internal Relay	M	0x0082	Word Address ÷ 16
	1/M	0x0182	
	2/M	0x0282	
	3/M	0x0382	
	4/M	0x0482	
Special Relay	SM	0x0083	Word Address ÷ 16
	1/SM	0x0183	
	2/SM	0x0283	
	3/SM	0x0383	
	4/SM	0x0483	
Latch Relay	L	0x0084	Word Address ÷ 16
	1/L	0x0184	
	2/L	0x0284	
	3/L	0x0384	
	4/L	0x0484	
Annunciator	F	0x0085	Word Address ÷ 16
	1/F	0x0185	
	2/F	0x0285	
	3/F	0x0385	
	4/F	0x0485	

Device	Device Name	Device Code (HEX)	Address Code
Edge Relay	V	0x0086	Word Address ÷ 16
	1/V	0x0186	
	2/V	0x0286	
	3/V	0x0386	
	4/V	0x0486	
Link Relay	B	0x0088	Word Address ÷ 0x10
	1/B	0x0188	
	2/B	0x0288	
	3/B	0x0388	
	4/B	0x0488	
Special Link Relay	SB	0x0089	Word Address ÷ 0x10
	1/SB	0x0189	
	2/SB	0x0289	
	3/SB	0x0389	
	4/SB	0x0489	
Timer (Current Value)	TN	0x0060	Word Address
	1/TN	0x0160	
	2/TN	0x0260	
	3/TN	0x0360	
	4/TN	0x0460	
Retentive Timer (Current Value)	SN	0x0062	Word Address
	1/SN	0x0162	
	2/SN	0x0262	
	3/SN	0x0362	
	4/SN	0x0462	
Long Timer (Current Value)	L_TN	0x0063	Word Address
	1/L_TN	0x0163	
	2/L_TN	0x0263	
	3/L_TN	0x0363	
	4/L_TN	0x0463	
Long Retentive Timer (Current Value)	L_SN	0x0064	Word Address
	1/L_SN	0x0164	
	2/L_SN	0x0264	
	3/L_SN	0x0364	
	4/L_SN	0x0464	
Counter (Current Value)	CN	0x0061	Word Address
	1/CN	0x0161	
	2/CN	0x0261	
	3/CN	0x0361	
	4/CN	0x0461	

Device	Device Name	Device Code (HEX)	Address Code
Long Counter (Current Value)	L_CN	0x0065	Word Address
	1/L_CN	0x0165	
	2/L_CN	0x0265	
	3/L_CN	0x0365	
	4/L_CN	0x0465	
Data Register	D	0x0000	Word Address
	1/D	0x0100	
	2/D	0x0200	
	3/D	0x0300	
	4/D	0x0400	
Special Register	SD	0x0001	Word Address
	1/SD	0x0101	
	2/SD	0x0201	
	3/SD	0x0301	
	4/SD	0x0401	
Link Register	W	0x0002	Word Address
	1/W	0x0102	
	2/W	0x0202	
	3/W	0x0302	
	4/W	0x0402	
Special Link Register	SW	0x0003	Word Address
	1/SW	0x0103	
	2/SW	0x0203	
	3/SW	0x0303	
	4/SW	0x0403	
Link Input	Jn-X	0x0170 - 0xFF70	Word Address $\div 0x10^{*1}$
Link Output	Jn-Y	0x0171 - 0xFF71	Word Address $\div 0x10^{*1}$
Link Relay	Jn-B	0x0172 - 0xFF72	Word Address $\div 0x10^{*1}$
Link Special Relay	Jn-SB	0x0173 - 0xFF73	Word Address $\div 0x10^{*1}$
Link Register	Jn-W	0x0174 - 0xFF74	Word Address *1
Link Special Register	Jn-SW	0x0175 - 0xFF75	Word Address *1
Module Access Device	U000-G - U1FF-G	0x0076 - 0x1F76	Word Address *2
CPU Buffer Memory Access	U3En-G	0x3E76	Word Address
CPU Buffer Memory (Periodic)	U3En-HG	0x3E78	Word Address
File Register (Normal)	R	0x000F	Word Address
	1/R	0x010F	
	2/R	0x020F	
	3/R	0x030F	
	4/R	0x040F	

Device	Device Name	Device Code (HEX)	Address Code
File Register (Block switching is not necessary)	ZR	0x000E	Word Address
	1/ZR	0x010E	
	2/ZR	0x020E	
	3/ZR	0x030E	
	4/ZR	0x040E	
File Register (0R - 31R)	0R	0x0010	Word Address
	1/0R	0x0110	
	2/0R	0x0210	
	3/0R	0x0310	
	4/0R	0x0410	
	1R	0x0011	Word Address
	1/1R	0x0111	
	2/1R	0x0211	
	3/1R	0x0311	
	4/1R	0x0411	
	2R	0x0012	Word Address
	1/2R	0x0112	
	2/2R	0x0212	
	3/2R	0x0312	
	4/2R	0x0412	
	:	:	
	29R	0x002D	Word Address
	1/29R	0x012D	
	2/29R	0x022D	
	3/29R	0x032D	
	4/29R	0x042D	
	30R	0x002E	Word Address
	1/30R	0x012E	
	2/30R	0x022E	
	3/30R	0x032E	
	4/30R	0x042E	
	31R	0x002F	Word Address
	1/31R	0x012F	
	2/31R	0x022F	
	3/31R	0x032F	
	4/31R	0x042F	

*1 Network number is defined in the device code's high byte.

*2 Specify the Device Name with the Device Code (HEX) and the value in bits 28 to 31 for the address number. For example, for **UIFF-G**, the device code is "0x1F76", and bits 28 to 31 in the address part is set to "F".

6.2 MELSEC iQ-F Series

Device	Device Name	Device Code (HEX)	Address Code
Input Relay	X	0x0080	Word Address ÷ 20 (octal)
Output Relay	Y	0x0081	Word Address ÷ 20 (octal)
Internal Relay	M	0x0082	Word Address ÷ 16
Special Relay	SM	0x0083	Word Address ÷ 16
Latch Relay	L	0x0084	Word Address ÷ 16
Annunciator	F	0x0085	Word Address ÷ 16
Step Relay	S	0x0087	Word Address ÷ 16
Link Relay	B	0x0088	Word Address ÷ 0x10
Special Link Relay	SB	0x0089	Word Address ÷ 0x10
Timer (Current Value)	TN	0x0060	Word Address
Retentive Timer (Current Value)	SN	0x0062	Word Address
Counter (Current Value)	CN	0x0061	Word Address
Long Counter (Current Value)	L_CN	0x0065	Word Address
Data Register	D	0x0000	Word Address
Special Register	SD	0x0001	Word Address
Link Register	W	0x0002	Word Address
Special Link Register	SW	0x0003	Word Address
Module Access Device	U000-G - U1FF-G	0x0076 - 0x1F76	Word Address ^{*1}
File Register	R	0x000F	Word Address

*1 Specify the Device Name with the Device Code (HEX) and the value in bits 28 to 31 for the address number. For example, for U1FF-G, the device code is "0x1F76", and bits 28 to 31 in the address part is set to "F".

7 Error Messages

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

Item	Description
No.	Error No.
Device Name	Name of the External Device where error occurs. Device name is a title of the 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 the External Device where error occurs, or error codes received from the 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 Unique to External Device

Message ID	Error Message	Description
RHxx133	(Node Name): The specified password is incorrect (Error Code:[(Hex)]).	Unable to unlock because the password is incorrect.
RHxx134	(Node Name): Remote Password: Illegal Format.	Invalid password format.

NOTE

- If an error related to Remote Password occurs, communication stops, regardless of the Retry setting. Reset the Remote Password in either GP-Pro EX or the offline screen.