Mitsubishi Electric Corporation

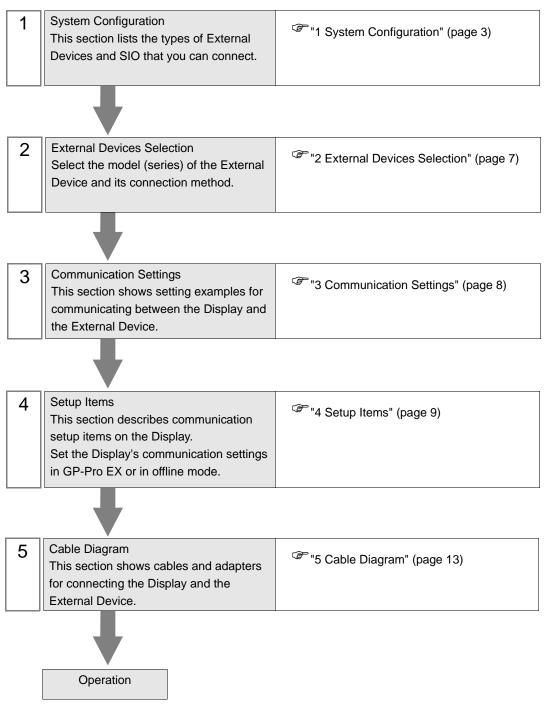
# Q Series CPU Direct Driver

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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 is 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	Cable Diagram
MELSEC Q Series	Q02CPU Q02HCPU Q06HCPU Q12HCPU Q25HCPU	RS-232C port on CPU unit	RS232C	C Setting Example 1 (page 8)	Cable Diagram 1 (page 13)
	Q00UJCPU Q00UCPU Q01UCPU Q02UCPU Q03UDCPU Q04UDHCPU Q06UDHCPU Q10UDHCPU Q13UDHCPU Q20UDHCPU Q26UDHCPU				
	Q03UDECPU Q04UDEHCPU Q06UDEHCPU Q10UDEHCPU Q13UDEHCPU Q20UDEHCPU Q26UDEHCPU	RS-232C port on High Performance Model QCPU or Universal Model QCPU *1*2			
	Q172HCPU	RS-232C port on High Performance Model QCPU <sup>*3</sup>			
	Q172DCPU Q173DCPU	RS-232C port on Universal Model QCPU <sup>*1*3</sup>			

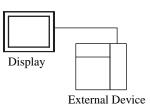
\*1 Except Q00UJCPU, Q00UCPU and Q01UCPU.

\*2 Since the Built-in Ethernet port QCPU (Q03UDECPU, Q04UDEHCPU, Q06UDEHCPU, Q10UDEHCPU, Q13UDEHCPU, Q20UDEHCPU, Q26UDEHCPU) cannot be directly connected to the Display, use it with a Multi CPU System.

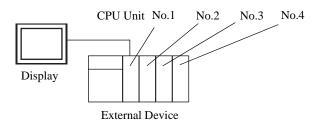
\*3 Since the motion CPU (Q172HCPU, Q172DCPU, Q173DCPU) cannot be directly connected to the Display, use it with a Multi CPU System.

## Connection Configuration

Single CPU System



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. Regarding the external devices that can be used for Multi CPU System, please refer to the manual of the External Device.
  - Use the motion CPU within the No. 2 to No. 4 range. The motion CPU cannot be used as No. 1.

#### ■ IPC COM Port

When connecting IPC with an External Device, the COM port used depends on the series and SIO type. Please refer to the IPC manual for details.

#### Usable port

Series	Usable Port			
Genes	RS-232C	RS-422/485(4 wire)	RS-422/485(2 wire)	
PS-2000B	COM1 <sup>*1</sup> , COM2, COM3 <sup>*1</sup> , COM4	-	-	
PS-3450A, PS-3451A, PS3000-BA, PS3001-BD	COM1, COM2 <sup>*1*2</sup>	COM2 <sup>*1*2</sup>	COM2 <sup>*1*2</sup>	
PS-3650A (T41 model), PS-3651A (T41 model)	COM1 <sup>*1</sup>	-	-	
PS-3650A (T42 model), PS-3651A (T42 model)	COM1 <sup>*1*2</sup> , COM2	COM1 <sup>*1*2</sup>	COM1 <sup>*1*2</sup>	
PS-3700A (Pentium®4-M) PS-3710A	COM1 <sup>*1</sup> , COM2 <sup>*1</sup> , COM3 <sup>*2</sup> , COM4	COM3 <sup>*2</sup>	COM3 <sup>*2</sup>	
PS-3711A	COM1 <sup>*1</sup> , COM2 <sup>*2</sup>	COM2 <sup>*2</sup>	COM2 <sup>*2</sup>	
PS4000 <sup>*3</sup>	COM1, COM2	-	-	
PL3000	COM1 <sup>*1*2</sup> , COM2 <sup>*1</sup> , COM3, COM4	COM1 <sup>*1*2</sup>	COM1 <sup>*1*2</sup>	

\*1 The RI/5V can be switched. Use the IPC's switch to change if necessary.

\*2 Set up the SIO type with the DIP Switch. Please set up as follows according to SIO type to be used.

\*3 When making communication between an External Device and COM port on the Expansion slot, only RS-232C is supported. However, ER (DTR/CTS) control cannot be executed because of the specification of COM port.

For connection with External Device, use user-created cables and disable Pin Nos. 1, 4, 6 and 9. Please refer to the IPC manual for details of pin layout.

DIP Switch setting: RS-232C

DIP Switch	Setting	Description	
1	OFF <sup>*1</sup>	Reserved (always OFF)	
2	OFF	SIO type: RS-232C	
3	OFF	510 type. K5-252C	
4	OFF	Output mode of SD (TXD) data: Always output	
5	OFF	Terminal resistance (220 $\Omega$ ) insertion to SD (TXD): None	
6	OFF	Terminal resistance (220 $\Omega$ ) insertion to RD (RXD): None	
7	OFF	Short-circuit of SDA (TXA) and RDA (RXA): Not available	
8	OFF	Short-circuit of SDB (TXB) and RDB (RXB): Not available	
9	OFF	- RS (RTS) Auto control mode: Disabled	
10	OFF		

\*1 When using PS-3450A, PS-3451A, PS3000-BA and PS3001-BD, turn ON the set value.

DIP Switch setting: RS-422/485 (4 wire)

DIP Switch	Setting	Description	
1	OFF	Reserved (always OFF)	
2	ON	SIO type: RS-422/485	
3	ON	SIO type. K3-422/465	
4	OFF	Output mode of SD (TXD) data: Always output	
5	OFF	Terminal resistance (220 $\Omega$ ) insertion to SD (TXD): None	
6	OFF	Terminal resistance (220 $\Omega$ ) insertion to RD (RXD): None	
7	OFF	Short-circuit of SDA (TXA) and RDA (RXA): Not available	
8	OFF	Short-circuit of SDB (TXB) and RDB (RXB): Not available	
9	OFF	- RS (RTS) Auto control mode: Disabled	
10	OFF		

#### DIP Switch setting: RS-422/485 (2 wire)

DIP Switch	Setting	Description	
1	OFF	Reserved (always OFF)	
2	ON	SIO type: RS-422/485	
3	ON	510 type. NS-422/403	
4	OFF	Output mode of SD (TXD) data: Always output	
5	OFF	Terminal resistance (220 $\Omega$ ) insertion to SD (TXD): None	
6	OFF	Terminal resistance (220 $\Omega$ ) insertion to RD (RXD): None	
7	ON	Short-circuit of SDA (TXA) and RDA (RXA): Available	
8	ON	Short-circuit of SDB (TXB) and RDB (RXB): Available	
9	ON	– RS (RTS) Auto control mode: Enabled	
10	ON		

# 2 External Devices Selection

Select the External Device to be connected to the Display.

💰 Welcome to GP-Pro EX		×
67-7ro <b>E</b> X	Device/PLC Number of Devi	ces/PLCs
		Device/PLC 1
	Manufacturer	Mitsubishi Electric Corporation
	Series	Q Series CPU Direct
	Port	COM1 💌
		Refer to the manual of this Device/PLC
		Recent Device/PLC
		<u> </u>
	Use System	Area Device Information
	Back (B	Communication Settings New Logic New Screen Cancel

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 "Q Series CPU Direct". In System configuration, make sure the External Device you are connecting is supported by "Q Series CPU Direct".	
Port	Select the Display port to connect 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"	

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## 3 Communication Settings

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

## 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/PLC 1		
Summary		Change Device/PLC
Manufacturer Mitsub	ishi Electric Corporation Series Q Series CPU Direct	Port COM1
Text Data Mode	2 Change	
Communication Settings		
SIO Type	RS232C     RS422/485(2wire)     RS422/485(4wire)	
Speed	19200 💌	
Data Length	O7 ©8	
Parity	O NONE O EVEN @ ODD	
Stop Bit	© 1 O 2	
Flow Control	O NONE O ER(DTR/CTS) O XON/XOFF	
Timeout	3 📑 (sec)	
Retry	2	
Wait To Send	0 📑 (ms)	
RI / VCC	RI      VCC	
In the case of RS2	232C, you can select the 9th pin to RI (Input)	
or VLL (5V Power Isolation Unit, plea	r Supply). If you use the Digital's RS232C sse select it to VCC. Default Default	
Device-Specific Settings		
Allowable Number	Add Device	
of Devices/PLCs No. Device Name	1 Settings	Add Indirect
No. Device Name		Device
· _/ 201	Refer 1	<b>•</b>

## Settings of External Device

There is no setting on the External Device. The speed automatically switches according to the Display setting.

# 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.

<sup>(C)</sup> "3 Communication Settings" (page 8)

### 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 Mitsubi	shi Electric Corporation Series Q Series CPU Direct	Port COM1
Text Data Mode	2 Change	
Communication Settings		
SIO Type	RS232C O RS422/485(2wire) O RS422/485(4wire)	
Speed	19200	
Data Length	C 7 © 8	
Parity	O NONE O EVEN O ODD	
Stop Bit	© 1 O 2	
Flow Control	○ NONE	
Timeout	3 📑 (sec)	
Retry	2 *	
Wait To Send	0 (ms)	
RI / VCC	© RI O VCC	
	32C, you can select the 9th pin to RI (Input) Supply). If you use the Digital's RS232C se select it to VCC. Default	
Device-Specific Settings		
Allowable Number of Devices/PLCs	Add Device	
No. Device Name	' Settinas	Add Indirect Device
🔏 1 PLC1		

Setup Items	Setup Description
SIO Type	Select the SIO type to communicate with the External Device.
Speed	Select speed between the External Device and the Display.
Data Length	Data length is displayed.
Parity	The parity check method is displayed.
Stop Bit	Stop bit length is displayed.
Flow Control	The communication control method to prevent overflow of transmission and reception data is displayed.
Timeout	Use an integer from 1 to 127 to enter the time (s) for which the Display waits for the response from the 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.

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Setup Items	Setup Description
RI/VCC         Switches RI/VCC of the 9th pin.           It is necessary to change RI/5V by changeover switch of IPC when connect with IP           Please refer to the manual of the IPC for more detail.	
NOTE	<ul> <li>Refer to the GP-Pro EX Reference Manual for Indirect Device.</li> <li>Cf. GP-Pro EX Reference Manual "Changing the Device/PLC at Runtime (Indirect</li> </ul>

Device)"

#### 4.2 Setup Items in OffLine Mode

#### NOTE

• Please refer to Maintenance/Troubleshooting Guide for more information on how to enter offline mode or about operation.

- Cf. Maintenance/Troubleshooting Guide "Offline Mode"
- The number of the setup items to be displayed for 1 page in the offline mode depends on the Display in use. Please refer to the Reference manual for details.

#### 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.

Option			
rect	,,	[COM1]	Page 1/1
SIO Type Speed Data Length Parity Stop Bit Flow Control Timeout(s) Retry Wait To Send(ms)	RS232C   19200 8 ODD 1 ER(DTR/CTS)		
Exit.	[	Back	2005/09/02 12:36:39
	rect SIO Type Speed Data Length Parity Stop Bit Flow Control Timeout(s) Retry	rect SIO Type RS232C Speed [19200 Data Length 8 Parity ODD Stop Bit 1 Flow Control ER(DTR/CTS) Timeout(s) Retry Wait To Send(ms)	rect [COM1] SIO Type RS232C Speed 19200 - Data Length 8 Parity ODD Stop Bit 1 Flow Control ER(DTR/CTS) Timeout(s) 3 • • Retry 2 • • Wait To Send(ms) 0 • •

Setup Items	Setup Description
	SIO type to communicate with the External Device is displayed.
SIO Type	To make the communication settings correctly, confirm the serial interface specifications of Display unit for [SIO Type]. We cannot guarantee the operation if a communication type that the serial interface does not support is specified. For details concerning the serial interface specifications, refer to the manual for Display unit.
Speed	Select speed between the External Device and the Display.
Data Length	Data length is displayed.
Parity	The parity check method is displayed.
Stop Bit	Stop bit length is displayed.
Flow Control	The communication control method to prevent overflow of transmission and reception data is displayed.
Timeout	Use an integer from 1 to 127 to enter the time (s) for which the Display waits for the response from the External Device.

Setup Items	Setup Description
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.

## Option

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 [Option].

Comm.	Option			
Q Series CPU Di	rect		[COM1]	Page 1/1
	the 9th pin Power Supply	● RI f RS232C, you lo RI(Input) o . If you use t .ion Unit, ple	r VCC(5V he Digital's	
	Exit		Back	2005/09/02 12:36:41

Setup Items	Setup Description
RI/VCC	Switches RI/VCC of the 9th pin. It is necessary to change RI/5V by changeover switch of IPC when connect with IPC. Please refer to the manual of the IPC for more detail.
NOTE • C	P-4100 series and GP-4*01TM do not have the [Option] setting in the offline mode.

## 5 Cable Diagram

The following cable diagrams may be different from cable diagrams recommended by Mitsubishi Electric Corporation.

Please be assured there is no operational problem in applying the cable diagram shown in this manual.

- The FG pin of the External Device body must be grounded according to your country's applicable standard. Refer to your External Device manual for details.
- SG and FG are connected inside the Display. When connecting the External Device to SG, design your system to avoid short-circuit loops.
- Connect an isolation unit if the communication is not stable due to noise or other factors.

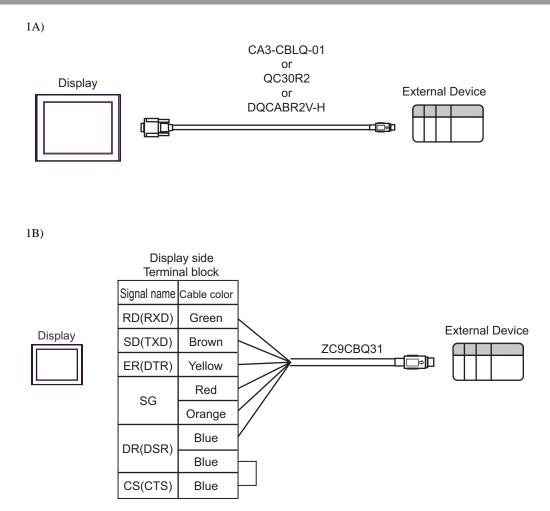
Display (Connection Port)		Cable	Notes
GP3000 (COM1) GP4000 <sup>*1</sup> (COM1) ST (COM1) IPC <sup>*2</sup> PC/AT	1A	Mitsubishi Q connection cable by Pro-face CA3-CBLQ-01(5m) or RS-232C cable by Mitsubishi Electric Corp. QC30R2 (3m) or RS-232C cable for MELSEC-Q CPU connection by Diatrend Corp. DQCABR2V-H	Available to order the length of DQCABR2V-H by Diatrend Corp. up to 15m.
GP-4105 (COM1)	1B	Mitsubishi PLC Q Series CPU I/F Cable (3m) ZC9CBQ31	

#### Cable Diagram 1

\*1 All GP4000 models except GP-4100 series and GP-4203T

\*2 Only the COM port which can communicate by RS-232C can be used.

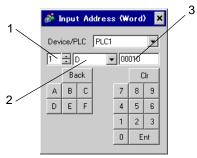
IPC COM Port (page 5) ■



## 6 Supported Device

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 NumberSelect 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.

#### 6.1 Q02CPU/Q02HCPU/Q06HCPU/Q12HCPU/Q25HCPU

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		* * * 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		
Timer (Contact)	TS00000 - TS23087			
Timer (Coil)	TC00000 - TC23087		-	
Retentive Timer (Contact)	SS00000 - SS23087			
Retentive Timer (Coil)	SC00000 - SC23087			

Device	Bit Address	Word Address	32 bits	Notes
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		*1 віt <b>F</b>
Special Register		SD0000 - SD2047	Ī	Bit F
Link Register		W0000 - W657F		Bit F
Special Link Register		SW000 - SW7FF		Bit F
File Register (Normal)		R00000 - R32767	[L/H]	Bit F
File Register (Block switching is not necessary)		ZR0000000 - ZR1042431		<sub>ві t</sub> F
		0R00000 - 0R32767		вit
		1R00000 - 1R32767		Bit F
		2R00000 - 2R32767		Bit F
File Register (0R-31R) <sup>*2</sup>	:	:	]	:
		30R00000 - 30R32767		<sub>ві +</sub> F]
		31R00000 - 31R26623		Bit F

\*1 The setting of the Multi CPU System is possible also in the system data area.

\*2 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).

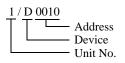


• The notation of addresses differs depending on a selected Unit No.

<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"

6.2 Q00UJCPU/Q00UCPU/Q01UCPU/Q02UCPU/Q03UDCPU/Q04UDHCPU/ Q06UDHCPU/Q10UDHCPU/Q13UDHCPU/Q20UDHCPU/Q26UDHCPU/ Q03UDECPU/Q04UDEHCPU/Q06UDEHCPU/Q10UDEHCPU/ Q13UDEHCPU/Q20UDEHCPU/Q26UDEHCPU

Input RelayX0000-X1FFFX0000-X1FF0X0000-X1FF0IOutput RelayY0000-Y1FFFY0000-Y1FF0IIInternal RelayM0000-M32767M0000-M32762IISpecial RelaySM000-SM2047SM000-SM2032IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Device	Bit Address	Word Address	32 bits	Notes
Internal Relay         M00000-M32767         M00000-M32752           Special Relay         SM0000-SM2047         SM0000-SM2032           Latch Relay         L00000-L32767         L00000-L32752           Annunciator         F00000-F32767         F00000-F32752           Edge Relay         V00000-V32767         V00000-V32752           Step Relay         S0000-S8191         S0000-S81767           Link Relay         B0000-BFFF         B0000-BFFF0           B0000-BEFFF         B0000-BFFF0         :0           Special Link Relay         SB0000-S825471         :0           Timer (Contact)         TS00000-T252502         :0           Timer (Coil)         TC00000-T252512         :0           Retentive Timer (Contact)         SS0000-S825023        0           Retentive Timer (Coil)         SC00000-S252523        0           Counter (Coil)         CS00000-CS25471        0           Counter (Coil)         CC00000-CC25023	Input Relay	X0000-X1FFF	X0000-X1FF0		*** 0
Internal Relay         M00000-M61439         M00000-M61424           Special Relay         SM0000-SM2047         SM0000-SM2032           Latch Relay         L00000-L32767         L00000-L32752           Annunciator         F00000-F32767         F00000-F32752           Edge Relay         V00000-V32767         V00000-V32752           Step Relay         S0000-S8191         S0000-S81760           Link Relay         B0000-BFFF         B0000-BFFF           B0000-TS25023            Timer (Contact)         TS0000-TS2503            Timer (Coli)         TC00000-TS25023            Timer (Coli)         SS0000-SS25023            Retentive Timer (Coli)         SS0000-SS25471            SC00000-SS25471          *1           Counter (Contact)         SS0000-SS25023            SC00000-CS25023          *1           Counter (Coli)         CS00000-CS25023            Counter (Coli)         CC00000-CS25023            Timer (Current Value)          *1           Timer (Current Value)          *1           Timer (Current Value) <td>Output Relay</td> <td>Y0000-Y1FFF</td> <td>Y0000-Y1FF0</td> <td></td> <td><u>***</u>0]</td>	Output Relay	Y0000-Y1FFF	Y0000-Y1FF0		<u>***</u> 0]
M00000-M61439         M0000-M61424         Image: fight symmetry fight	Internal Palay	M00000-M32767	M00000-M32752		÷16) *1
Latch Relay         L00000-L32767         L00000-L32752           Annunciator         F00000-F32767         F00000-F32752           Edge Relay         V00000-V32767         V00000-V32752           Step Relay         S0000-S8191         S0000-S8176           Link Relay         B0000-BFFF         B0000-BFFF           B0000-BEFFF         B0000-BFFF0           Special Link Relay         SB0000-S87FF         SB0000-S87FF0           Timer (Contact)         TS00000-TS25023            TS00000-TS25471            Timer (Coil)         TC00000-TC25023            Timer (Coil)         SS00000-S825023            Retentive Timer (Coil)         SS00000-S825023            Retentive Timer (Coil)         SC00000-S25251            Counter (Coil)         SS00000-S25023            Counter (Coil)         CS00000-CS25023            Counter (Coil)         CC00000-CC25023            Counter (Coil)         CC00000-CC25023            Timer (Current Value)          TN00000-TN25471           Timer (Current Value)          TN00000-TN25471           Time	Internal Relay	M00000-M61439	M0000-M61424		÷16) *2
Annunciator         F00000-F32767         F00000-F32752           Edge Relay         V0000-V32767         V00000-V32752           Step Relay         S0000-S8191         S0000-S8176           Step Relay         S0000-S8191         S0000-S8176           Link Relay         B0000-BEFFF         B0000-BEFF0         Immediator           Special Link Relay         SB0000-S87FFF         SB0000-SB7FF0         Immediator           Timer (Contact)         TS00000-TS25023          "1           Timer (Contact)         TC00000-TC25023          "1           Retentive Timer (Contact)         SS0000-SS25023          "1           SC0000-SS25471          "1         "2           Retentive Timer (Coll)         SS0000-SS25023          "1           SC0000-SS25471          "1         "2           Counter (Coll)         SC0000-S252023          "1           Counter (Coll)         CS00000-S252023          "1           Counter (Coll)         CS00000-CS25471          "1           Counter (Coll)         CC00000-CC25471          "1           Timer (Current Value)	Special Relay	SM0000-SM2047	SM0000-SM2032		÷16)
Edge Relay         V00000-V32767         V00000-V32752           Step Relay         S0000-S8191         S0000-S8176           Link Relay         B0000-BFFF         B0000-BFFF           B0000-BEFFF         B0000-S87FF0           Special Link Relay         SB0000-S87FFF         SB0000-S87FF0           Timer (Contact)         TS00000-TS25023            Timer (Contact)         TC00000-TC25471            Timer (Coil)         TC00000-TC25471            Timer (Coil)         SS00000-SS25023            Retentive Timer (Coil)         SS00000-SS25471            SC00000-SC25471          *1           Counter (Contact)         SC00000-SC25471            Counter (Coil)         CS00000-CS25471            Counter (Coil)         CS00000-CS25471            Counter (Coil)         CS00000-CS25471            CO0000-CC25471          *1           Timer (Current Value)          TN00000-TN25023         *1           Timer (Current Value)          TN00000-TN25471         *1	Latch Relay	L00000-L32767	L00000-L32752		÷16)
Step Relay         S0000-S8191         S0000-S8176           Link Relay         B0000-BFFF         B0000-BFFF0           B0000-BEFFF         B0000-SB7FF0           Special Link Relay         SB0000-SB7FFF         SB0000-SB7FF0           Timer (Contact)         TS00000-TS25023            Timer (Contact)         TC00000-TC25023            Timer (Coil)         TC00000-TC25471            TC00000-TC25471          *1           Retentive Timer (Contact)         SS0000-SS25471            SS0000-SS25471          *1           Retentive Timer (Coil)         SC00000-SC25023            SC00000-SC25471          *2           Counter (Contact)         SC00000-SC25023            Counter (Coil)         CS00000-SC25471            Counter (Coil)         CC00000-CC25023            CC00000-CC25023          *2           Timer (Current Value)          TN00000-TN25023           Timer (Current Value)          *1           Timer (Current Value)          *1           Timer (Current Value)	Annunciator	F00000-F32767	F00000-F32752		÷16)
Link Relay         B0000-B7FFF         B0000-B7FF0           Special Link Relay         SB0000-SB7FFF         B0000-BFFF0           Special Link Relay         SB0000-SB7FFF         SB0000-SB7FF0           Timer (Contact)         TS00000-TS25023            TS00000-TS25471          *1           Timer (Coil)         TC00000-TC25471            TC00000-TC25471          *1           Retentive Timer (Contact)         SS00000-SS25471            SS00000-SS25471          *1           Retentive Timer (Coil)         SC00000-SC25471            SC00000-SC25471          *1           Counter (Contact)         SC00000-CS25471            Counter (Coil)         CC00000-CC25023            CC00000-CC25023          *1           Timer (Current Value)          TN00000-TN25023         *1           Timer (Current Value)          TN00000-TN25471         *2           *1         *2         *1         *2           *1         *2         *1         *2           Timer (Current Value)          TN0000	Edge Relay	V00000-V32767	V00000-V32752		<u>+ 16</u>
Link Relay         B0000-BEFFF         B0000-BEFF0           Special Link Relay         SB0000-SB7FFF         SB0000-SB7FF0           Timer (Contact)         TS00000-TS25023            TS00000-TS25471          *1           Timer (Coil)         TC00000-TC25023            TC00000-TC25471          *1           Timer (Coil)         TC00000-TC25023            TC00000-TC25471          *1           Retentive Timer (Contact)         SS0000-SS25471            SS00000-SS25471          *1           Counter (Contact)         SS00000-CS25023            Counter (Coil)         CS00000-CS25023            Counter (Coil)         CS00000-CS25023            Counter (Coil)         CC00000-CC25023            CC00000-CC25023          *1           *2         *1         *2           Timer (Current Value)          TN00000-TN25023           Timer (Current Value)          TN00000-TN25023           Timer (Current Value)          *1           *1         *2	Step Relay	S0000-S8191	S0000-S8176		÷16)
B0000-BEFFF         B0000-BEFF0           Special Link Relay         SB0000-SB7FFF         SB0000-SB7FF0           Timer (Contact)         TS00000-TS25023            TS00000-TS25471          *1           Timer (Coil)         TC00000-TC25023            TC00000-TC25471          *1           Timer (Coil)         SS0000-SS25023            Retentive Timer (Coil)         SS0000-SS25471            SC0000-SS25471          *1           SC0000-SS25471          *1           SC00000-SS25471          *1           Counter (Coil)         SC00000-SS25471            Counter (Coil)         CS00000-CS25023            Counter (Coil)         CC00000-CC25471            Counter (Coil)         CC00000-CC25471            CC00000-CC25471          *1           Timer (Current Value)          TN00000-TN25023         *1           Timer (Current Value)          TN00000-TN25471         *1           Retentive Timer (Current Value)          SN00000-SN25023         *1	Link Dolov	B0000-B7FFF	B0000-B7FF0		*** 0 *1
Timer (Contact)         TS00000-TS25023          *1           Timer (Coil)         TC00000-TC25023          *1           Timer (Coil)         TC00000-TC25023          *1           TC00000-TC25471          *1           Retentive Timer (Contact)         SS0000-SS25023          *1           SS0000-SS25471          *1         *2           Retentive Timer (Coil)         SC00000-SC25023          *1           SC00000-SC25471          *1         *2           Counter (Contact)         SC00000-SC25471          *1           Counter (Coil)         CC00000-CS25471          *1           Counter (Coil)         CC00000-CS25471          *1           Counter (Coil)         CC00000-CC25023          *1           Timer (Current Value)          TN00000-TN25023         *1           Timer (Current Value)          TN00000-TN25471         *1           *1         *2         *1         *2           *1          TN00000-TN25023         *1           *2         *1         *		B0000-BEFFF	B0000-BEFF0		*** () *2
Timer (Contact)       TS0000-TS25023        *2         Timer (Coil)       TC00000-TC25023        *1         Timer (Coil)       SS0000-SS25023        *1         Retentive Timer (Contact)       SS0000-SS25023        *1         Retentive Timer (Coil)       SS0000-SS25023        *1         Retentive Timer (Coil)       SC00000-SC25023        *1         Counter (Contact)       SC00000-SC25023        *1         Counter (Coil)       CS00000-CS25023        *1         Counter (Coil)       CC00000-CS25023        *1         Counter (Coil)       CC00000-CS25023        *1         Timer (Current Value)        TN00000-TN25023       *1         Timer (Current Value)        TN00000-TN25023       *1         Retentive Timer (Current        SN00000-SN25023       *1	Special Link Relay	SB0000-SB7FFF	SB0000-SB7FF0		*** 0
TS00000-TS25471          *2           Timer (Coil)         TC00000-TC25023          *1           TC00000-TC25471          *2           Retentive Timer (Contact)         SS0000-SS25023          *1           SS0000-SS25471          *1         *2           Retentive Timer (Coil)         SC00000-SC25023          *1           SC00000-SC25471          *1         *2           Counter (Contact)         CS00000-CS25023          *1           CS00000-CS25471          *1         *2           Counter (Coil)         CS00000-CS25023          *1           Counter (Coil)         CC00000-CC25023          *1           Counter (Coil)         CC00000-CC25023          *1           Timer (Current Value)          TN00000-TN25023         *1           Timer (Current Value)          TN00000-TN25023         *1           Retentive Timer (Current Value)          SN00000-SN25023         *1	Timer (Contect)	TS00000-TS25023		<u>г∟/Н</u> ј	*1
Timer (Coil)       TC00000 TC25471          Retentive Timer (Contact)       SS00000-SS25023          SS00000-SS25471        *1         Retentive Timer (Coil)       SC00000-SC25023          SC00000-SC25471        *1         Retentive Timer (Coil)       SC00000-SC25471          SC00000-SC25471        *1         Counter (Contact)       CS00000-CS25471          CS00000-CS25471        *1         Counter (Coil)       CC00000-CC25023          CC00000-CC25471        *1         Timer (Current Value)        TN00000-TN25023       *1         Retentive Timer (Current        SN0000-SN25023       *1	nmer (Contact)	TS00000-TS25471			*2
TC00000-TC25471          *2           Retentive Timer (Contact)         SS00000-SS25023          *1           Retentive Timer (Coil)         SC00000-SC25023          *1           Retentive Timer (Coil)         SC00000-SC25471          *1           Counter (Contact)         CS00000-CS25023          *1           Counter (Contact)         CS00000-CS25023          *1           Counter (Coil)         CS00000-CS25023          *1           Counter (Coil)         CC00000-CC25023          *1           Timer (Current Value)          TN00000-TN25023         *1           Retentive Timer (Current Value)          TN00000-TN25471         *1           Retentive Timer (Current Value)          SN00000-SN25023         *1		TC00000-TC25023			*1
Retentive Timer (Contact)         SS0000-SS25023          *2           Retentive Timer (Coil)         SC00000-SC25023          *1           Retentive Timer (Coil)         SC00000-CS25023          *1           Counter (Contact)         CS00000-CS25023          *1           Counter (Contact)         CS00000-CS25023          *1           Counter (Coil)         CC00000-CC25023          *1           Counter (Coil)         CC00000-CC25023          *1           Timer (Current Value)          TN00000-TN25023         *1           Retentive Timer (Current Value)          TN00000-TN25023         *1           Retentive Timer (Current Value)          SN0000-SN25023         *1		TC00000-TC25471			*2
SS0000-SS25471          *2           Retentive Timer (Coil)         SC0000-SC25023          *1           SC0000-SS25471          *2         *1           Counter (Contact)         CS00000-CS25023          *1           CS00000-CS25471          *2         *1           Counter (Coil)         CC00000-CS25471          *1           Counter (Coil)         CC00000-CS25471          *1           Counter (Coil)         CC00000-CC25471          *1           Timer (Current Value)          TN00000-TN25023         *1           Retentive Timer (Current          SN00000-SN25023         *1           Value)          SN00000-SN25023         *1	Detentive Timer (Contact)	SS00000-SS25023			*1
Retentive Timer (Coil)         SC00000-SC25023          *2           Counter (Contact)         CS00000-CS25023          *1           Counter (Contact)         CS00000-CS25471          *2           Counter (Coil)         CC00000-CC25023          *1           Counter (Coil)         CC00000-CC25023          *1           Counter (Coil)         CC00000-CC25471          *1           Timer (Current Value)          TN00000-TN25023         *1           Retentive Timer (Current          SN00000-SN25023         *1	Retentive filmer (Contact)	SS00000-SS25471			*2
SC00000-SC25471          *2           Counter (Contact)         CS00000-CS25023          *1           CS00000-CS25471          *2           Counter (Coil)         CC00000-CC25023          *1           CC00000-CC25023          *1         *2           Timer (Current Value)          TN00000-TN25023         *1           Retentive Timer (Current          SN00000-SN25023         *1		SC00000-SC25023			*1
Counter (Contact)         CS00000-CS25023            CS00000-CS25471          *2           Counter (Coil)         CC00000-CC25023          *1           CC00000-CC25471          *2           Timer (Current Value)          TN00000-TN25023         *1           Retentive Timer (Current          SN00000-SN25023         *1	Retentive Timer (Coll)	SC00000-SC25471			*2
CS00000-CS25471          *2           Counter (Coil)         CC00000-CC25023          *1           CC00000-CC25471          *2           Timer (Current Value)          TN00000-TN25023         *1           Retentive Timer (Current          SN00000-SN25023         *1	Occurrente and Occurrently	CS00000-CS25023			*1
Counter (Coil)         CC00000-CC25023          *2           Timer (Current Value)          TN00000-TN25023         *1           Retentive Timer (Current          SN00000-SN25023         *1	Counter (Contact)	CS00000-CS25471			*2
CC00000-CC25471          *2           Timer (Current Value)          TN00000-TN25023         *1           Retentive Timer (Current          SN00000-SN25023         *1		CC00000-CC25023			*1
Timer (Current Value)         TN00000-TN25023           Retentive Timer (Current            Value)	Counter (Coll)	CC00000-CC25471			*2
TN00000-TN25471         *2           Retentive Timer (Current          SN00000-SN25023         *1	Timer (Current Value)		TN00000-TN25023	1	*1
Retentive Timer (Current SN00000-SN23025			TN00000-TN25471		*2
	Retentive Timer (Current		SN00000-SN25023		*1
			SN00000-SN25471	1	*2

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Notes
Counter (Current )/alue)		CN00000-CN25023		*1
Counter (Current Value)		CN00000-CN25471		*2
		D0000000-D0028159		<sub>віt</sub> F] <sup>*1 *3</sup>
		D0000000-D4212223		<u>віт</u> <b>F</b> ) *1 *3 *4 *8
Data Danistan		D0000000-D0093695		<u>ві</u> <b>F</b> *1 *3 *4 *5 *8
Data Register		D000000-D0028671		<sub>віt</sub> F] *2 *3
		D0000000-D4212735		<b>B</b> i t <b>F</b> *2 *3 *4 *8
		D0000000-D0094207		<b>B</b> i t <b>F</b> *2 *3 *4 *5 *8
Special Register		SD0000-SD2047	ſ	<sub>віt</sub> F
		W000000-W006DFF		<sub>₿;t</sub> F] *1
		W000000-W4045FF	- - [L/H] -	<sub>віt</sub> F) <sup>*1 *6 *8</sup>
Link Deviator		W000000-W016DFF		<u>■ ; +</u> <b>F</b> ) *1 *5 *6 *8
Link Register		W000000-W006FFF		<u>[Bit</u> F] *2
		W000000-W4047FF		Bit F] *2*6*8
		W000000-W016FFF		<b>B</b> i t <b>F</b> ] *2 *5 *6 *8
Special Link Desister		SW0000-SW6DFF		<u>віt</u> F) *1
Special Link Register		SW0000-SW6FFF	]	<u>⊨it</u> F] *2
		U3E0-10000 - U3E0-24335		<sub>₿it</sub> F)
Common device for Multiple		U3E1-10000 - U3E1-24335		(Bit F)
CPU <sup>*7</sup>		U3E2-10000 - U3E2-24335		(B i t F)
		U3E3-10000 - U3E3-24335		(B i t F)
File Register (Normal) <sup>*8</sup>		R00000-R32767		<sub>ві t</sub> F
File Register (Block switching is not necessary) <sup>*8</sup>		ZR0000000- ZR4184063		<u>ві т</u> F)

Device	Bit Address	Word Address	32 bits	Notes
		0R00000-0R32767		<sub>Bit</sub> F)
File Register (0R-31R) <sup>*8 *9</sup>		1R00000-1R32767		<sub>вit</sub> F)
		2R00000-2R32767		Bit F
	:	:	[L/H]	:
		30R00000-30R32767		Bit F
		31R00000-31R32767		Bit

- \*1 For the universal model QCPU with a serial number whose first 5 digits is less than "10042".
- \*2 For the universal model QCPU with a serial number whose first 5 digits is "10042" or more.
- \*3 The setting of the Multi CPU System is possible also in the system data area.
- \*4 For the use of Extended Data Register.
- \*5 For the Q00UCPU or Q01UCPU.
- \*6 For the use of Extended Link Register.
- \*7 For the Multi CPU System configuration, the available points should be as follows:

2 CPUs: 14k points or less

3 CPUs: 13k points or less

4 CPUs: 12k points or less

- \*8 File Register, Extended Data Register and Extended Link Register cannot be used in the Q00UJCPU.
- \*9 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.,

1/1	D 0010	
Γ		Address
		Device
		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"

#### 6.3 Q172HCPU

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Notes
Input Relay	X0000-X1FFF X0000-X1FF0			<u>***</u> 0
Output Relay	Y0000-Y1FFF	Y0000-Y1FF0		*** 0
Internal Relay	M00000-M08191	M00000-M08176		÷ 16)
Special Relay	SM0000-SM0255	SM0000-SM0240		÷ 16)
Latch Relay	L00000-L08191	L00000-L08176		÷ 16)
Annunciator	F00000-F02047	F00000-F02032		÷ 16)
Link Relay	B0000-B1FFF	B0000-B1FF0	[L/H]	<u>***</u> 0
Data Register		D0000000-D0008191		Bit
Special Register		SD0000-SD0255	ſ	Bit
Link Register		W0000-W1FFF		Bit
Motion Register (#) <sup>*1</sup>		%MR0000- %MR8191 <sup>*2</sup>		Bit

\*1 No. 2 to No. 4 can be allocated to the motion CPU.

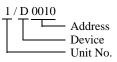
\*2 Device name with motion CPU is #.

NOTE

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"

6.4 Q172DCPU / Q173DCPU

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		* * * 0]
Internal Relay	M00000-M12287	M00000-M12272		÷16)
Special Relay	SM0000-SM2255	SM0000-SM2240		÷16)
Annunciator	F00000-F02047	F00000-F02032		÷16)
Link Relay	B0000-B1FFF	B0000-B1FF0		***0]
Data Register		D0000000-D0008191		вit
Special Register		SD0000-SD2255	ſ	Bit
Link Register		W0000-W1FFF	ΓL/H)	Bit
Common device for Multiple CPU <sup>*1</sup>		U3E0-10000 - U3E0-24335		<sub>ві t</sub> F]
		U3E1-10000 - U3E1-24335		<sub>ві t</sub> F]
		U3E2-10000 - U3E2-24335		<sub>в і t</sub> F)
		U3E3-10000 - U3E3-24335		<sub>ві t</sub> F)
Motion Register (#) <sup>*2</sup>		%MR00000- %MR12287 <sup>*3</sup>		<sub>в і t</sub> F)

\*1 For the Multi CPU System configuration, the available points should be as follows: 2 CPUs: 14k points or less

3 CPUs: 13k points or less

4 CPUs: 12k points or less

\*2 No. 2 to No. 4 can be allocated to the motion CPU.

\*3 Device name with motion CPU is #.

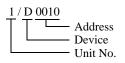


• The notation of addresses differs depending on a selected Unit No.

<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"

# 7 Device Code and Address Code

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

Device	Device Name	Device Code (HEX)	Address Code
	X	0080	
	1/X	0180	
Input Relay	2/X	0280	Value of word address divided by 0x10
	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	
	1/M	0182	
Internal Relay	2/M	0282	Value of word address divided by 16
	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
Annunciator	F	0085	
	1/F	0185	
	2/F	0285	Value of word address divided by 16
	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	
	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	
	1/B	0188	
Link Relay	2/B	0288	Value of word address divided by 0x10
	3/B	0388	
	4/B	0488	
	SB	0089	
Special Link Relay	1/SB	0189	
	2/SB	0289	Value of word address divided by 0x10
	3/SB	0389	
	4/SB	0489	
Timer (Current Value)	TN	0060	
	1/TN	0160	
	2/TN	0260	Word Address
	3/TN	0360	
	4/TN	0460	

Device	Device Name	Device Code (HEX)	Address Code
Retentive Timer (Current Value)	SN	0062	
	1/SN	0162	
	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	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	
	1/W	0102	
Link Register	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
	U3E0-	0035	
	1/U3E0-	0135	
	2/U3E0-	0235	Word Address
	3/U3E0-	0335	
	4/U3E0-	0435	
	U3E1-	0036	
	1/U3E1-	0136	
	2/U3E1-	0236	Word Address
	3/U3E1-	0336	
Common device for Multi-	4/U3E1-	0436	
ple CPU	U3E2-	0037	
	1/U3E2-	0137	
	2/U3E2-	0237	Word Address
	3/U3E2-	0337	
	4/U3E2-	0437	
	U3E3-	0038	
	1/U3E3-	0138	
	2/U3E3-	0238	Word Address
	3/U3E3-	0338	
	4/U3E3-	0438	
	R	000F	
	1/R	010F	
File Register (Normal)	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	1

Device	Device Name	Device Code (HEX)	Address Code
	OR	0010	
	1/0R	0110	
	2/0R	0210	Word Address
	3/0R	0310	
	4/0R	0410	
	1 <b>R</b>	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	
Motion Register (#)	2/% MR	0234	
	3/% MR	0334	Word Address
	4/% MR	0434	

## 8 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 is a title of External Device set with GP-Pro EX.(Initial value [PLC1])
Error Message	Displays messages related to the error which occurs.
	Displays IP address or device address of External Device where error occurs, or error codes received from External Device.
Error Occurrence Area	<ul> <li>NOTE</li> <li>IP address is displayed such as "IP address (Decimal): MAC address (Hex)".</li> <li>Device address is displayed such as "Address: Device address".</li> <li>Received error codes are displayed such as "Decimal [Hex]".</li> </ul>

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.