7 Communicating with Multiple Device/PLCs

This chapter explains about communicating to the GP with multiple devices/PLCs, and the basic operations used to sever communication and change devices/PLCs. Please start by reading " "7.1 Settings Menu" (page 7-2), and then turn to the corresponding page.

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7.1 Settings Menu



7.2 Connecting to Multiple Devices (PLCs)

7.2.1 Details



Multiple devices/PLCs can be connected simultaneously to one GP using four drivers (COM1, COM2, and Ethernet (UDP/TCP)).

There is one model for which up to four drivers can be specified, and another model for which up to two drivers can be specified.

NOTE • The model for which up to two drivers can be specified is the AGP-330X series.

7.2.2 Setup Procedure

NOTE •

• Please refer to the settings guide for details. * "5.13.2 [New] Settings Guide" (page 5-67)

e.g.) COM1: Company A's PLC, PLC1 (e.g.: Omron, CS/CJ Series HOST Link) COM2: Company B's PLCs, PLC2, PLC3, PLC4 (e.g.: Mitsubishi, A Series Computer Link). Configure settings to add these 3 PLCs.



1 Select the [Project (F)] menu - [System Settings (C)] command, or click in and click the System Settings Window's [Device/PLC Settings]. The following [Device/PLC Settings] screen will appear.

System Settings Window 7 X Display Settings Device Settingd	Display Type Driver GP3000 Series Model AGP3550T Installation Method Horizontal
Main Unit Settings Logic Program Settings Video/Movie Settings	Device/PLC Settings Add Device/PLC Device/PLC Device/PLC
Font Settings	Summary Change Device/PLC Maker Mitsubishi Electric Corporation Driver Q/QnA Serial Communication Port COM1
Peripheral List Device/PLC Settings	Lest Data Mode 2 Lhange
Printer Settings Bar Code Settings	Speed 19200 ▼ Data Lendth C 7 C 8
Script Settings I/O Driver Settings	Parity CNONE CEVEN CODD Stop Bit C1 C2
FTP Server Settings Modem Settings	Flow Control C NONE C ER(DTR/CTS) C XON/XOFF Timeout 3 🗮 (sec)
Video Module Settings	Retry 2 💼 Wait To Send 0 💼 (ms)
	RI /VCC RI C VCC In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (BV Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default
	Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s) No. Device Name Settings 1 PLC1 Station No.=0.Network No.=0.PC No.=255.Request destination module I/O N
🕅 Syste 🇱 Addre 📓 Com 🔡 Scree	

2 Click [Add Device/PLC].

Device/PLC Settings	Add Device/PLC Delete Device/PLC	
Device/PLC 1		
Summary	Change Device/PLC	
Maker Mitsubishi Elect	Corporation Driver Q/QnA Serial Communication Port COM1	
Text Data Mode	Change	
Communication Settings		
SIO Type (RS232C O RS422/485(2wire) O RS422/485(4wire)	
Speed	3200	
Data Length (7 💿 8	
Parity (NONE C EVEN C ODD	
Stop Bit (1 0 2	
Flow Control (NONE • ER(DTR/CTS) C X0N/X0FF	
Timeout	(sec)	
Retry		
Wait To Send	<u>*</u> (ms)	
RI / VCC (RI O VCC	
In the case of RS2320 or VCC (5V Power Su Isolation Unit, please :	you can select the 9th pin to RI (Input) bly). If you use the Digital's RS232C lect it to VCC. Default	
Device-Specific Settings		
Allowable No. of Device	PLCs 16 Unit(s) 📊	
No. Device Name	Station No =0 Network No =0 PC No =255 Bequest destination module I/0 I	N

3 When the [Add Device/PLC 2] dialog box appears, set the [Maker], [Driver], and [Port] for the PLC you want to add, and click [Add].

Add Device/P	LC 2 X
Settings Device/PLC	
Maker	Mitsubishi Electric Corporation 📃
Driver	A Series Computer Link 💌
Allowable n	No. of Device/PLLs ToUnit(s)
Connection M	ethod
Port	СОМ2
	Refer to the manual of this Device/PLC
	Device Information
	Add Cancel

• Make sure not to choose a port that is already used by another PLC. If the port has multiple PLCs, • will appear to the right of the [Device/PLC Settings] screen's [Port] label.

4 When the [Device/PLC2] tab's Settings Screen appears, click the [Add Device Button] and add 2 PLCs.

Device/PLC 1 Device/Pl			
Summary			Change Device/PLC
Maker Mitsubishi E	lectric Corporation Driver A Seri	ies Computer Link	Port COM2
Text Data Mode	2 Change		
Communication Settings			
SIO Type	C RS232C RS422/485(2wire)	C RS422/485(4wire)	
Speed	19200 💌		
Data Length	• 7 C 8		
Parity	O NONE O EVEN	C ODD	
Stop Bit	O 1 O 2		
Flow Control	NONE O ER(DTR/CTS)	C XON/XOFF	
Timeout	3 🔆 (sec)		
Retry	2 +		
Wait To Send	0 👘 (ms)	Default	
Device-Specific Settings			
Allowable No. of Dev No Device No.	rice/PLCs 16 Unit(s)		
1 PLC2	ime Settings Station No.=	=0,PC No.=255	

NOTE • Every time the [Add Device Button] **is** clicked, 1 PLC is added.

5 Set the name of each added PLC with up to 20 single-byte characters.

Device-Specific Settings			
Allowable No. of Device/PLCs 16 Unit(s)			THE!
No	Device Name		Sett
	PLC2		1 E
	PLC3		11
	PLC4		16

NOTE • When adding the desired [Device Name], please ensure not to use a repeated name.

6 Click the [Device/PLC Settings Button] ______, and when the [Individual Device Settings] dialog box appears, set each corresponding PLC. (The following image shows the [Individual Device Settings] dialog box used for the Mitsubishi A Series Computer Link type.)



- The [Individual Device Settings] dialog box settings differ depending on the PLC. For more information on each PLC's settings, please refer to "GP-Pro EX Device/PLC Connection Manual".
- 7 The above multiple PLCs have now been added.

7.2.3 Structure

Multiple Connected Patterns

Direct Access Method

- Multiple PLCs can be connected.
- (1) When using COM1 and COM2
- e.g.) Company A's driver (serial communication) is set to COM1, and Company B's driver is set to COM2 (serial communication).



- COM port 1 can have multiple devices with the same driver connected to it. However, the number of devices that can be connected depends on the driver. For more information about the Allowable No. of Device/PLC s, please refer to "GP-Pro EX Device/PLC Connection Manual".
- (2) When using COM1and Ethernet port([UDP] / [TCP]communication)
- e.g.) Company A's driver (serial communication) is set to COM1, and Company B, C, and D's drivers are set to the Ethernet port (Ethernet communication).



• A maximum of 4 drivers can be setup for the Ethernet port. However, when using the COM port, only (4 – (No. of used COM ports)) drivers can be set up for the Ethernet port. In the above example, COM1 has one driver set up (Company A's PLC), so the Ethernet port can handle 3 additional types of drivers (Company B, C, and D).

• When using a Ethernet communication driver with multiple connections, [UDP] or [TCP] can not be set up in the same driver. e.g.) When [Device/PLC1] has been set to MELSEC A Ethernet [UDP] type, [Device/PLC2] can not be set to MELSEC A Ethernet [TCP] type.

Direct Access Method + Memory Link Method

- Devices/PLCs and hosts (PCs, Microcomputer boards, etc.) can be connected at the same time.
- (3) When using Direct Access Method and Memory Link Method
- e.g.) Company A's PLC is connected to COM1 by direct access method, and the microcomputer board is connected to COM2 by memory link method.



■ When multiple device/PLCs are usedsystem data area/LS area

For more information about the system data area, please refer to "A.1.4.4 Device/PLC's System Data Area Allotment Procedure" (page A-20) or the "GP-Pro EX Device/PLC Connection Manual".

Direct Access Method

When multiple PLCs are connected to the GP, the system data area can only have one PLC connected to it.

e.g.) As in the following image, when the GP unit has 4 connected PLCs, only one of those can be set to the system data area.



Direct Access Method + Memory Link Method

When communicating by both direct access method and memory link method, a separate area will be used for the LS area of each method. However, the system data area, the special relay area, and the LS9000 area will be mutually linked.

e.g.) As in the following image, when a PLC and microcomputer board are both connected to the GP, the GP has a direct access method LS area and a memory link method LS area.



7.3 Disconnecting Some of the Multiple Connected Devices/ PLCs

7.3.1 Details



You can stop each device/PLC's scan in the active mode by operating each bit for the communication ON/OFF.

7.3.2 Setup Procedure

NOTE	Please refer to the settings guide for details.
	"11.14.1 Bit Switch" (page 11-44)
	"7.5 Settings Guide" (page 7-27)
•	For details of the part placement method and the address, shape, color,

For details of the part placement method and the address, shape, color, and label setting method, refer to the "Part Editing Procedure".
 "9.6.1 Editing Parts" (page 9-37)



You can stop each device/PLC's scan in the active mode by operating each bit for the communication ON/OFF.

Stop Communications

Create a switch to reverse the Bit Address ON/OFF that controls each device/PLC's communication scan by touch.

- Select the [Part (P)] menu [Switch Lamp (C)] option [Bit Switch (B)] command or click
 to place a lamp on the screen.
- **2** Double-click the placed Switch part and the settings dialog box opens.

Switch/Lamp							×
Switch/Lamp Part ID SL_0000 Comment Normal Select Shape No Shape	Switch Feature Switch Common	Lamp Feature C Difference C Bit Switch Bit Address [PLC1]X0000 Copy from Lamp Bit Action Bit Set	olor Label	Screen Change	Special Switch	Selector Switch >>Detail	X
Help (<u>H</u>)					OK (<u>0</u>)	Cancel	

- **3** Select the Switch's shape from [Select Shape].
- 4 Set the Bit Address you want to operate by touch (e.g.: LS955000) to the [Bit Address].

Click the icon to display an address input keypad.

Select [#INTERNAL] for the [Device/PLC] and "LS" for the Device, input "955000" in the address, and press the "Ent" key.

Bit Address [FLC1]K00000 Click	Input Address Image: Constraint of the second		Bit Address [#INTERNAL]LS9550(
--------------------------------------	---	--	-----------------------------------

• The setting range of the bit addresses to control whether to execute or to stop the communication scan is the internal device address' LS9550 to LS9557. Each device/PLC address starting from Bit 0 is assigned sequentially to each driver's device/PLC starting from the first unit.

	LS Area
LS9550	Driver 1's Machine 1 to 16
LS9551	Driver 1's Machine 17 to 32
LS9552	Driver 2's Machine 1 to 16
LS9553	Driver 2's Machine 17 to 32
LS9554	Driver 3's Machine 1 to 16
LS9555	Driver 3's Machine 17 to 32
LS9556	Driver 4's Machine 1 to 16
LS9557	Driver 4's Machine 17 to 32
LS9558	Reserved
LS9559	Reserved

e.g.)

You can set the bit addresses controlling the communication scan of the Driver 1's first to 16th units to LS9550.

[LS9550]

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

Bit 0: Scans ON/OFF the Driver 1's first PLC.

Stops the scan (scans OFF) of the Driver 1's first PLC by turning ON Bit 0. Turn OFF Bit 0 to resume the scan.

• You cannot stop the communication scan of a device specified with the System Area Start Address. However, if you are not using the System Data Area, you can stop the communication scan.

⁽[€] "5.13.6 [System Settings Window] Settings Guide ♦ System Area Settings" (page 5-120)

- You can set the LS area's addresses with 32 bits on some devices/PLCs. In this case, the lower 16 bits are used for the bit addresses controlling the communication scan.
- When you turn OFF the communication scan, the displayed part's data will remain. However, if you change screens and then display the screen again, the part's data will not be displayed.

5 Choose [Bit Invert] from [Bit Action].

Bit Action	
Bit Invert	•

6 As needed, set the Switch's color and display text on the [Color] tab and [Label] tab, and click [OK].

Confirming the Communication State

Create a lamp to display the ON/OFF state of the Bit Address that monitors the device/PLC's communication state.

- 1 Select the [Part (P)] menu [Switch Lamp (C)] option [Lamp (L)] command or click **?** to place a lamp on the screen.
- 2 Double-click the placed Lamp part and the settings dialog box will be displayed.

💰 Switch/Lamp	×
Part ID SL_0000	Switch Feature Color Label
OFF Select Shape	SDetail Bit Address PLC1 K00000 T Copy to Switch Switch
Help (<u>H</u>)	Cancel

- **3** Select the lamp shape in [Select Shape].
- 4 Set the bit address to turn ON/OFF the lamp (e.g.: LS956000) to the [Bit Address].

 Input Address X Bit Address Bit Address Device/PLC #INTERNAL • [#INTERNAL]LS9560(-[PLC1]X00000 ▼ 956000 LS Back Clr Click 8 9 7 4 5 6 2 1 3 0 Ent

Click the icon to display an address input keypad.

Select [#INTERNAL] for the [Device/PLC] and "LS" for the Device, input "956000" in the address, and press the "Ent" key. • The setting range of the bit addresses to monitor the device/PLC's communication state is the internal device address' LS9560 to LS9567. Each device/PLC address starting from Bit 0 is assigned sequentially to each driver's device/PLC starting from the first unit.

	LS Area
LS9560	Driver 1's Machine 1 to 16
LS9561	Driver 1's Machine 17 to 32
LS9562	Driver 2's Machine 1 to 16
LS9563	Driver 2's Machine 17 to 32
LS9564	Driver 3's Machine 1 to 16
LS9565	Driver 3's Machine 17 to 32
LS9566	Driver 4's Machine 1 to 16
LS9567	Driver 4's Machine 17 to 32
LS9568	Reserved
LS9569	Reserved

e.g.)

You can set the bit addresses controlling the communication scan of the Driver 1's first to 16th units to LS9560. [LS9560]

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

Bit 0: Turns ON when the Driver 1's first unit is in the communication state and turns OFF when it is disconnected.

You can confirm that the Driver 1's first unit is in the communication state with Bit 0 turning ON. Bit 0 turns OFF when the device/PLC is disconnected.

• You can set the LS area's addresses with 32 bits on some devices/PLCs. In this case, the lower 16 bits are used for the bit addresses controlling the communication scan.

5 Click the [Color] tab and set the Lamp's display colors. Set a [Display Color], [Pattern] and [Border Color] for each case where the [Select State] is ON or OFF.

💰 Switch/Lamp		×
Part ID	Switch Feature Lamp Feature Color Label	
Comment	Select State OFF	
	Display Color 🗖 2 💽 Blink None 💌	
	Pattern 🔽	
OFF		
Select Shape		
Help (<u>H</u>)	Cancel	

6 Click the [Label] tab and set the label displayed at the top of the lamp parts. Specify its font and size, input display text into the rectangle field, and click [OK].

💰 Switch/Lamp	X
Part ID SL_0000 ** Comment OFF Select Shape	Switch Feature Lamp Feature Color Label
Help (<u>H</u>)	Cancel

7.4 Changing a Device/PLC

7.4.1 Details



When changing the type of PLC, addresses can be modified for multiple PLCs at the same time.

There are two methods for converting addresses when changing a device/PLC model: Converting the PLC type without designating an Address Conversion Range, or Designating an Address Conversion Range and Converting the PLC type.

7.4.2 Setup Procedure

Converting the PLC type without designating an Address Conversion Range

Change the type of device without specifying an address conversion pattern at the time of conversion.



e.g.) COM1: Company A's PLC, PLC1 (e.g.: Omron, CS/CJ Series HOST Link) COM2: <u>Company B's PLCs, PLC2, PLC3, PLC4 (e.g.: 3 units of Mitsubishi A</u> <u>Series Computer Link)</u>



COM1: Company A's PLC, PLC1 (e.g.: Omron, CS/CJ Series HOST Link) COM2: Company C's PLCs, 3 units (e.g.: 3 units of Yokogawa Electric Corp., Computer Link SIO)



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used in the project and correct the relevant addresses.

1 Select the [Project (F)] menu - [System Settings (C)] command, or click in and click the System Settings Window's [Device/PLC Settings]. The following [Device/PLC Settings] screen will appear.

evice/PLC 1 Device/F	2LC 2		
lummary		Change Device/P	<u>_C</u>
Maker Mitsubishi B	Electric Corporation	Driver Q/QnA Serial Communication Port COM1	
Text Data Mode	2 Change		
Communication Settings			
SIO Type	RS232C	C RS422/485(2wire) C RS422/485(4wire)	
Speed	19200	•	
Data Length	O 7	© 8	
Parity	C NONE	C EVEN C ODD	
Stop Bit	1 1	© 2	
Flow Control	C NONE	ER(DTR/CTS) C XON/XOFF	
Timeout	3 🕂	(sec)	
Retry	2 ÷		
Wait To Send	0 ÷	(ms)	
RI / VCC	RI	O VCC	
In the case of RS: or VCC (5V Powe Isolation Unit, plea	232C, you can sele r Supply). If you u: ase select it to VCC	act the 9th pin to RI (Input) se the Digital's RS232C 2. Default	
evice-Specific Settings			

2 Click the [Device/PLC2] tab, and click [Change Device/PLC].



3 When the following [Change Device/PLC] dialog box appears, set the [Maker] and [Driver] of the device/PLC you want to change to.

💣 Change Device/	/PLC	×		
Current Settings Device/PLC Maker Driver No. of Device Connection Meth Port	Mitsubishi Electric Corporation Q/QnA Serial Communication s/PLCs 1Unit(s) ood COM1			
Settings after Conv D avise/PLC	version			
Maker	YOKOGAWA Electric Corporation			
Driver	Personal Computer Link SIO			
Allowable No. of Device/PLCs 16Unit(s) Connection Method Port COM2				
Refer to the manual of this Device/PLC Go to Device/PLC Manual				
Change	Change Specifying Address Conversion Cancel			

4 Click [Change].

💰 Change Device/PLC	×
Current Settings Device/PLC Maker Driver No. of Device/PLC: Connection Method Port	Mitsubishi Electric Corporation Q/QnA Serial Communication s 1Unit(s) COM1
Settings after Conversion Device/PLC Maker YU	DKOGAWA Electric Corporation
Driver Pe	ersonal Computer Link SIO
Allowable No. of De	vice/PLCs 16Unit(s)
Connection Method	
Port [C	DM2
Refer to the manual of this	Device/PLC Go to Device/PLC Manual
Change	Change Specifying Address Conversion Cancel

5 The following message will appear. Click [OK] and the settings are complete.



NOTE	•	If you change the device/PLC by clicking the [Change] button in the [Change
		Device/PLC] dialog box, the address conversion pattern may not display
		correctly if there is no device code at the destination. Please reconfirm all device
		addresses used in the project and correct the relevant addresses.

- After converting a device/PLC, any parts, D-Scripts, Alarms, etc., must have their device addresses set again. Also, please save any screens that use a Special Switch set to [Screen Change].
- If using a Ethernet communication driver when converting multiple device/ PLCs, [UDP] and [TCP] cannot be set up in the same driver. e.g.) When [Device/PLC 1] has been set to MELSEC A Ethernet [UDP] type, [Device/PLC 2] cannot be set to MELSEC A Ethernet [TCP] type.

designating an address conversion range. converting the PLC type

Change the type of device by specifying an address conversion pattern at conversion time. Designate the previous address' range and the top address of the destination device/PLC.

Please refer to the settings guide for details. "7.5.1 [Change Device/PLC] Settings Guide" (page 7-27) "7.5.2 [Address Conversion Method Specification] Settings Guide" (page 7-28)

e.g.) COM1: Company A's PLC, PLC1 (e.g.: Omron, CS/CJ Series HOST Link) COM2: <u>Company B's PLCs, PLC2, PLC3, PLC4 (e.g.: 3 units of Mitsubishi A</u> <u>Series Computer Link)</u>



 COM1: Company A's PLC, PLC1 (e.g.: Omron, CS/CJ Series HOST Link)
 COM2: Company C's PLCs, 3units (e.g.: 3 units of Yokogawa Electric Corp., Computer Link SIO)



1 Select the [Project (F)] menu - [System Settings (C)] command, or click in and click the System Settings Window's [Device/PLC Settings]. The following [Device/PLC Settings] screen will appear.

Device/PLC1 Device/F	LC 2	Add Device/PLC Delete Device/PLC
Summary		Change Device/PLC
Maker Mitsubishi B	lectric Corporation	Driver Q/QnA Serial Communication Port COM1
Text Data Mode	2 Change	
Communication Settings		
SIO Type	RS232C	C RS422/485(2wire) C RS422/485(4wire)
Speed	19200	•
Data Length	O 7	© 8
Parity	O NONE	O EVEN O ODD
Stop Bit	⊙ 1	O 2
Flow Control	O NONE	ER(DTR/CTS) O XON/XOFF
Timeout	3 📫	(sec)
Retry	2 🔹	
Wait To Send	0 ÷	(ms)
RI / VCC	• RI	C VCC
In the case of RS; or VCC (5V Powe Isolation Unit, plea	232C, you can sele r Supply), If you us ise select it to VCC	ct the 9th pin to RI (Input) e the Digital's RS232C Default
Device-Specific Settings Allowable No. of De	vice/PLCs 16 Uni	(s)

2 Click the [Device/PLC 2] tab, and click [Change Device/PLC].

Device/PLC	Add Device/PLC	Delete Device/PLC
Summary		Change Device/PLC
Maker Mitsubishi Electric Corporation	Driver Q/QnA Serial Communication P	ort COM1

3 When the following [Change Device/PLC] dialog box appears, set the [Maker] and [Driver] of the device/PLC you want to change to.

💰 Change Device/PLC	×			
Current Settings Device/PLC Maker Driver No. of Device/PLCs Connection Method Port	Mitsubishi Electric Corporation Q/QnA Serial Communication 1Unit(s) COM1			
Settings after Conversion	KOGAWA Electric Corporation			
Driver Pe	rsonal Computer Link SID			
Allowable No. of Dev Connection Method Port CO	rice/PLCs 16Unit(s)			
Refer to the manual of this Device/PLC Go to Device/PLC Manual				
(Change C	Change Specifying Address Conversion Cancel			

4 Click [Change Specifying Address Conversion].

💰 Change Device/PLC	×
Current Settings Device/PLC Maker Driver No. of Device/PLCs Connection Method Port	Mitsubishi Electric Corporation Q/QnA Serial Communication 1Unit(s) COM1
Settings after Conversion Device/PLC Maker Y0K0	DGAWA Electric Corporation
Driver Perso Allowable No. of Devic Connection Method Port COM	onal Computer Link SIO 💌 e/PLCs 16Unit(s) 2 💌
Refer to the manual of this Du	evice/PLC Go to Device/PLC Manual ange Specifying Address Conversion Cancel

5 When the [Address Conversion Method Specification] dialog box appears, click [Add].

💰 Address Conv	ersion Method Specifica	tion		×
Before Change:	Mitsubishi Electric Corp	oration Q/QnA Serial Commu	unication	
After Change:	YOKOGAWA Electric C	orporation Personal Compute	r Link SIO	\frown
Туре	Top Before Conversion	End Before Conversion	Top After Conversion	<u>Add</u>
				Edit
				Delete
				Export
				Import
			Convert	Cancel

6 When the [Register Address Conversion Pattern] dialog box appears, set the [Address Type], the Before Conversion [Top] and [End] address, and the After Conversion [Top] address.

💰 Regi	ter Address Conversion Pattern
Addres	Туре
0.6	it 💿 Word
Before	Conversion: Mitsubishi Electric Corporation Q/QnA S
Тор	[PLC2]D00100
End	[PLC2]D00200
After Co	nversion
Тор	[PLC2]1W00200
	Register Cancel

7 Click [Register].

💰 Registe	r Address Conversion Pattern
Address Ty	ре
C Bit	Word
Before Cor	version: Mitsubishi Electric Corporation Q/QnA S
Тор	[FLC2]D00100
End	[PLC2]D00200
After Conv	ersion
Тор	[FLC2]1W00200
	Register Cancel

8 When the [Address Conversion Method Specification] dialog box appears and the conversion pattern is added, click [Convert].

đ	🖗 Address Con	version Method Specific	ation			×
	Before Change:	Mitsubishi Electric Corp	ooration Q/QnA Serial Comm	unication		
	After Change:	YOKOGAWA Electric (Corporation Personal Compute	er Link SIO		
	Туре	Top Before Conversion	End Before Conversion	Top After Conversion	Add	
	Word	[PLC2]D00100	[PLC2]D00200	[PLC2]1W00200	Edit	
					Delete	
					Europt	
					Export	
					<u>import</u>	
					_	
				Convert	Cancel	
						///

- After converting a device/PLC, any parts, D-Scripts, Alarms, etc., must have their device addresses set again. Also, please save any screens that use a Special Switch set to [Screen Change].
 - If using a Ethernet communication driver when converting multiple device/ PLCs, [UDP] and [TCP] cannot be set up in the same driver. e.g.) When [Device/PLC 1] has been set to MELSEC A Ethernet [UDP] type, [Device/PLC 2] cannot be set to MELSEC A Ethernet [TCP] type.

7.5 Settings Guide

7.5.1 [Change Device/PLC] Settings Guide

Select [Device/PLC Settings]- [Change Device/PLC Settings] to display the following dialog box. Select the model of Device/PLC you want to change.

change Device/PL	<u> </u>
Current Settings	
Device/PLC	
Maker	Mitsubishi Electric Corporation
Driver	Q/QnA Serial Communication
No. of Device/PL	.Cs 1Unit(s)
Connection Method	
Port	COM1
-Settings after Conversi Device/PLC	
Settings after Conversi Device/PLC Maker	on
Settings after Conversi Device/PLC Maker [Driver [on YOKOGAWA Electric Corporation Y Personal Computer Link SIO Y
Settings after Conversi Device/PLC Maker [Driver [Allowable No. of [on YOKOGAWA Electric Corporation Personal Computer Link SIO Device/PLCs 16Unit(s)
Settings after Conversi Device/PLC Maker [Driver [Allowable No. of [Connection Method]	ion YDK/DGAWA Electric Corporation Personal Computer Link SIO Device/PLCs 16Unit(s)
Settings after Conversi Device/PLC Maker [Driver [Allowable No. of [Connection Method Port	on YDKOGAWA Electric Corporation Personal Computer Link SID Device/PLCs 16Unit(s) CDM2
Settings after Conversi Device/PLC Maker Driver Allowable No. of I Connection Method Port Refer to the manual of t	on YDK0GAWA Electric Corporation YOK0GAWA Electric Corporation Personal Computer Link SI0 Device/PLCs 16Unit(s) COM2 this Device/PLC Go to Device/PLC Manual

S	etting	Description	
Current Settings	Maker	Displays the maker of the currently set device/PLC.	
	Driver	Displays the series of the currently set PLC.	
	No. of Device/PLCs	Displays the number of connected devices for the currently set PLC.	
	Port	Displays the connection port of the currently set device/PLC.	
	Maker	Sets the maker of the new PLC.	
Settings	Driver	Sets the series of the new PLC.	
after Conversion	Allowable No. of Devices/PLCs	Displays the number of devices that can be connected with the new PLC.	
	Port	Select a connection port for the new PLC from [COM1], [COM2], [Ethernet (UDP)], or [Ethernet (TCP)].	
Refer to the manual of this Device/PLC		Displays the page that mentions the new device/PLCs model in the "GP-Pro EX Device/PLC Connection Manual".	
Go to Device/PLC Manual		Displays the top page of the "GP-Pro EX Device/PLC Connection Manual".	
Change		Changes the model of device without specifying an address conversion pattern. NOTE NOTE	
		• Because no address conversion pattern is specified, if there is no destination address code, the address may not display correctly.	
Change Specifying Address Conversion		Changes the model of device by specifying an address conversion pattern. Designate the previous address' range and the top address of the destination device/PLC.	
Cancel		Cancels the settings of the new device/PLC.	

7.5.2 [Address Conversion Method Specification] Settings Guide

On the [Change Device/PLC] dialog box, click [Change Specifying Address Conversion] and the following dialog box appears. You can specify an Address Conversion Range when changing device/PLC models.

💰 Address Cor	version Method Specific	ation		×
Before Change:	Mitsubishi Electric Cor	poration Q/QnA Serial Comm	unication	
After Change:	YOKOGAWA Electric	Corporation Personal Compute	er Link SIO	
Туре	Top Before Conversion	End Before Conversion	Top After Conversion	Add
Word	[PLC2]D00100	[PLC2]D00200	[PLC2]1W00200	Edit
				Delete
				Funat
				Export
				import
_				
			Convert	Cancel

Setting	Description		
Before Change	Displays the PLC maker and series of the original PLC.		
After Change	Displays the PLC maker and series of the new PLC.		
Туре	Displays [Word] or [Bit], depending on which is the conversion address type.		
Top Before Conversion	Displays the start value of the device address used before the address conversion.		
End Before Conversion	Displays the end value of the device address used before the address conversion.		
Top After Conversion	Displays the start value of the device address used after the address conversion.		
Add/Edit	Add/edit new settings for an address conversion pattern. The following dialog box will appear.		
Address Type	Choose conversion address' type from [Bit] or [Word].		
Before Conversion	Displays the PLC maker and series of the original PLC.		
Тор	Set the source PLC and the start address.		
End	Set the source PLC and the end address.		



Continued



Continued

Setting	Description			
	Sample Output to a CSV File			
	Export data's CSV format will be displayed as follows.			
	Address conversion patterns before export			
	Address Conversion Method Specification X			
	After Change: Mitsubisti Electric Corporation A Series CPU Direct			
	Word [PLC1]DM0300 [PLC1]DM0300			
	Bit [PLC1]TIM0100 [PLC1]TIM0300 [PLC1]TS0200 Experi-			
	Convert Cancel			
	The CSV file created by exporting the above file			
	Pattern List Key Name ^{*1}			
	OMR_CSIO Convert-From driver			
	MIT_ACPU Convert-To driver			
	0,[PLC1]DM0200,[PLC1]DM0300,[PLC1]D0100			
Export/Import	[Type], [Device/PLC Name] Convert-From Top Address, [Device/PLC Name] Convert-From End Address, [Device/PLC Name] Convert-To Top Address *2			
	0,[PLC1]DM0300,[PLC1]DM0400,[PLC1]D0200			
	[Type] ² , [Device/PLC Name] Convert-From Top Address, [Device/PLC Name] Convert-From End Address, [Device/PLC Name] Convert-To Top Address			
	1,[PLC1]TIM0100,[PLC1]TIM0300,[PLC1]TS0200			
	[Type] ^{*2} , [Device/PLC Name] Convert-From Top Address, [Device/PLC Name] Convert-From End Address, [Device/PLC Name] Convert-To Top Address			
	When the above CSV file is represented in tabular format, it looks as follows.			
	Pattern Liet driver			
	OMR_CSIO Convert-To			
	MIT_ACPU driver			
	0 [PLC1]DM0200 [PLC1]DM0300 [PLC1]D0100			
	0 [PLC1]DM0300 [PLC1]DM0400 [PLC1]D0200 1 [PLC1]TIM0100 [PLC1]TIM0300 [PLC1]TS0200			
	Type David PLC Convert-From Convert-From Convert-To			
	Name Top Address End Address Top Address			
	*1 This is the special text used to identify the address conversion pat- tern's CSV file.			
	*2 [Word Address]: 0, [Bit Address]: 1			

7.6 Restrictions

- After converting a device/PLC, any parts, D-Scripts, Alarms, etc., must have their device addresses set again. Also, please save any screens that use a Special Switch set to [Screen Change].
- If you change the device/PLC by clicking the [Change] button in the [Change Device/ PLC] dialog box, the address conversion pattern may not display correctly if there is no device code at the destination. Please reconfirm all device addresses used in the project and correct the relevant addresses.
- When using a Ethernet communication driver with multiple connections, [UDP] or [TCP] can not be set up in the same driver.
 - e.g.) When [Device/PLC1] has been set to MELSEC A Ethernet [UDP] type, [Device/ PLC2] can not be set to MELSEC A Ethernet [TCP] type.
- When deleting the settings for multiple connected PLCs, connected devices whose addresses are already used inside a project can not be deleted. If you can not delete PLC settings, click [Project] menu [Utility] command and open [Cross Reference]. You can then check which addresses are being used. Next, delete the PLC settings after either replacing the address in use or deleting the unused address.
- You cannot stop the communication scan of a device specified with the System Area Start Address. However, if you are not using the System Data Area, you can stop the communication scan.
- ☞ "5.13.6 [System Settings Window] Settings Guide ◆ System Area Settings" (page 5-120)