OMRON Corporation

C/CV Series HOST Link Driver

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Introduction

This manual describes how to connect the Display (GP3000 series) and the External Device (target PLC).

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

1	System Configuration This section shows the types of External Devices which can be connected and SIO type.	"1 System Configuration" (page 3)
2	Selection of External Device This section describes how to select a driver corresponding to the External Device to be connected.	"2 Selection of External Device" (page 8)
3	Example of Communication Settings This section shows setting examples for communicating between the Display and the External Device.	"3 Example of Communication Setting" (page 9)
4	Communication Settings Perform the communication settings between the Display and the External Device. Set communication settings of the Display with GP-Pro EX or in off-line mode.	^{ক্টেল} "4 Setup Items" (page 64)
5	Cable Diagram This section shows cables and adapters for connecting the Display and the External Device.	টি "5 Cable Diagram" (page 69)
	Operation	

1 System Configuration

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

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
	С200Н	C200H-LK202 ^{*1} C120-LK201-V1 ^{*2}	RS232C	Setting Example 1 (page 9)	Cable Diagram 1 (page 69)
		C200H-LK202 ^{*1} C120-LK202-V1 ^{*2}	RS422/485 (4wire)	Setting Example 2 (page 13)	Cable Diagram 2 (page 70)
		C200H-LK201 ^{*1} C120-LK201-V1 ^{*2}	RS232C	Setting Example 1 (page 9)	Cable Diagram 1 (page 69)
	C200HS	C200H-LK202 ^{*1}	RS422/485 (4wire)	Setting Example 2 (page 13)	Cable Diagram 2 (page 70)
	C200113	Link I/F on the CPU unit ^{*3}	RS232C	Setting Example 3 (page 16)	Cable Diagram 3 (page 74)
		Peripheral port on the CPU unit	RS232C	Setting Example 4 (page 18)	(page 74)4Cable Diagram 4 (page 75) *41Cable Diagram 1 (page 69)2Cable Diagram 2 (page 70)5Cable Diagram 1 (page 69)6Cable Diagram 2
		C120-LK201-V1*2	RS232C	Setting Example 1 (page 9)	
	C500 C500F C1000H C2000 C2000H	C120-LK202-V1 ^{*2}	RS422/485 (4wire)	Setting Example 2 (page 13)	
SYSMAC C		C500-LK201-V1*2	RS232C	Setting Example 5 (page 20)	Ū.
			RS422/485 (4wire)	Setting Example 6 (page 23)	Cable Diagram 2 (page 70)
		C500-LK203 ^{*2}	RS232C	Setting Example 5 (page 20)	Cable Diagram 1 (page 69)
			RS422/485 (4wire)	Setting Example 6 (page 23)	Cable Diagram 5 (page 76)
		C500-LK201-V1 ^{*2}	RS232C	Setting Example 5 (page 20)	Cable Diagram 1 (page 69)
	C1000HE		RS422/485 (4wire)	Setting Example 6 (page 23)	Cable Diagram 2 (page 70)
	C1000HF	C500-LK203 ^{*2}	RS232C	Setting Example 5 (page 20)	Cable Diagram 1 (page 69)
			RS422/485 (4wire)	Setting Example 6 (page 23)	Cable Diagram 5 (page 76)
	C20H C28H C40H	Link I/F on the CPU unit ^{*3}	RS232C	Setting Example 7 (page 26)	Cable Diagram 6 (page 80)

continued to next page

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
	C20PF C28PF	C120-LK201-V1 ^{*2}	RS232C	Setting Example 1 (page 9)	Cable Diagram 1 (page 69)
	C40PF C60PF	C120-LK202-V1 ^{*2}	RS422/485 (4wire)	Setting Example 2 (page 13)	Cable Diagram 2 (page 70)
	C120	C120-LK201-V1 ^{*2}	RS232C	Setting Example 1 (page 9)	Cable Diagram 1 (page 69)
	C120F	C120-LK202-V1 ^{*2}	RS422/485 (4wire)	Setting Example 2 (page 13)	Cable Diagram 2 (page 70)
	CQM1-CPU11	Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 28)	Cable Diagram 4 (page 75) ^{*4}
	CQM1-CPU21 CQM1-CPU41 CQM1-CPU42 CQM1-CPU43 CQM1-CPU44 CQM1-CPU41-V1 CQM1-CPU42-V1 CQM1-CPU43-V1 CQM1-CPU44-V1	RS232C port on the CPU unit	RS232C	Setting Example 9 (page 30)	Cable Diagram 3 (page 74)
SYSMAC C		Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 28)	Cable Diagram 4 (page 75) ^{*4}
	CPM1 CPM1A CPM1A-V1	Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 28)	Cable Diagram 4 (page 75) ^{*4}
		CPM1-CIF01	RS232C	Setting Example 10 (page 32)	Cable Diagram 3 (page 74)
		CPM1-CIF11	RS422/485 (4wire)	Setting Example 11 (page 34)	Cable Diagram 7 (page 81)
	SRM1-C02 CPM2A	RS232C port on the CPU unit	- RS232C	Setting Example 9 (page 30)	Cable Diagram 3
		CPM1-CIF01	N3232C	Setting Example 10 (page 32)	(page 74)
		CPM1-CIF11	RS422/485 (4wire)	Setting Example 11 (page 34)	Cable Diagram 7 (page 81)

continued to next page

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
		Peripheral port on	RS232C	Setting Example 8 (page 28)	Cable Diagram 4 (page 75) ^{*4}
		the CPU unit	K5252C	Setting Example 8 (page 28)	Cable Diagram 8 (page 85)
	CPM2C	Peripheral port on CPM2C-CIF01	RS232C	Setting Example 12 (page 36)	Cable Diagram 9 (page 86)
	CT WIZC	RS232C port on CPM2C-CIF01	RS232C	Setting Example 13 (page 38)	Cable Diagram 3 (page 74)
		RS232C port on CPM2C- CIF11	RS232C	Setting Example 14 (page 40)	Cable Diagram 3 (page 74)
		Terminal block on CPM2C-CIF11	RS422/485 (4wire)	Setting Example 15 (page 42)	Cable Diagram 10 (page 87)
SYSMAC C	CQM1H-CPU11 CQM1H-CPU21	Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 28)	Cable Diagram 4 (page 75) ^{*4}
STSMAC C				Setting Example 8 (page 28)	Cable Diagram 8 (page 85)
		RS232C port on the CPU unit	RS232C	Setting Example 9 (page 30)	Cable Diagram 3 (page 74)
	CQM1H-CPU51 CQM1H-CPU61	Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 28)	Cable Diagram 4 (page 75) ^{*4}
				Setting Example 8 (page 28)	Cable Diagram 8 (page 85)
		RS232C port on the CPU unit	RS232C	Setting Example 9 (page 30)	Cable Diagram 3 (page 74)
		RS232C port on CQM1H-SCB41	RS232C	Setting Example 16 (page 44)	Cable Diagram 3 (page 74)
		RS422A/485 port on CQM1H-SCB41	RS422/485 (4wire)	Setting Example 17 (page 46)	Cable Diagram 11 (page 91) ^{*5}

continued to next page

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
		RS232C port on the CPU unit	RS232C	Setting Example 18 (page 48)	Cable Diagram 3 (page 74)
		C200HW-COM02- V1	RS232C	Setting Example 19 (page 50)	Cable Diagram 3 (page 74)
	C200HE-CPU42 C200HG-CPU63	C200HW-COM03- V1	RS422 (4wire)	Setting Example 20 (page 52)	Cable Diagram 11 (page 91)
	C200HG-CPU43 C200HX-CPU64 C200HX-CPU44	C200HW-COM04- V1	RS232C	Setting Example 19 (page 50)	Cable Diagram 3 (page 74)
	C200HE-CPU42-Z C200HG-CPU63-Z C200HG-CPU43-Z	C200HW-COM05- V1	RS232C	Setting Example 19 (page 50)	Cable Diagram 3 (page 74)
	C200HX-CPU85-Z C200HX-CPU65-Z	C200HW-COM06-	RS232C	Setting Example 19 (page 50)	Cable Diagram 3 (page 74)
	C200HX-CPU64-Z C200HX-CPU44-Z	V1	RS422 (4wire)	Setting Example 20 (page 52)	Cable Diagram 11 (page 91)
		C200H-LK201-V1	RS232C	Setting Example 1 (page 9)	Cable Diagram 1 (page 69)
		C200H-LK202-V1	RS422 (4wire)	Setting Example 2 (page 13)	Cable Diagram 2 (page 70)
SYSMAC α	C α C200HX-CPU34 C200HX-CPU54 C200HX-CPU34-Z C200HX-CPU54-Z C200HE-CPU32	C200HW-COM02- V1	RS232C	Setting Example 19 (page 50)	Cable Diagram 3 (page 74)
		C200HW-COM03- V1	RS422 (4wire)	Setting Example 20 (page 52)	Cable Diagram 11 (page 91)
		C200HW-COM04- V1	RS232C	Setting Example 19 (page 50)	Cable Diagram 3 (page 74)
		C200HW-COM05- V1	RS232C	Setting Example 19 (page 50)	Cable Diagram 3 (page 74)
	C200HE-CPU32-Z C200HG-CPU33 C200HG-CPU33-Z	00HG-CPU33 00HG-CPU33-Z 00HG-CPU53 V1	RS232C	Setting Example 19 (page 50)	Cable Diagram 3 (page 74)
	C200HG-CPU53 C200HG-CPU53-Z		RS422 (4wire)	Setting Example 20 (page 52)	Cable Diagram 11 (page 91)
		C200H-LK201-V1	RS232C	Setting Example 1 (page 9)	Cable Diagram 1 (page 69)
		C200H-LK202-V1	RS422 (4wire)	Setting Example 2 (page 13)	Cable Diagram 2 (page 70)
	C200HE-CPU11 C200HE-CPU11-Z	C200H-LK201-V1	RS232C	Setting Example 1 (page 9)	Cable Diagram 1 (page 69)
		C200H-LK202-V1	RS422 (4wire)	Setting Example 2 (page 13)	Cable Diagram 2 (page 70)

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
			RS232C (connecting port 2)	Setting Example 21 (page 54)	Cable Diagram 1 (page 69)
	CV500 CV1000 CV2000 CVM1 CVM1D	CV500-LK201	RS232C (connecting port 2)	Setting Example 22 (page 56)	Cable Diagram 12 (page 95)
SYSMAC CV			RS422/485 (4wire) (connecting port 2)	Setting Example 23 (page 58)	Cable Diagram 13 (page 96)
		Link I/F on the CPU unit ^{*6}	RS232C	Setting Example 24 (page 60)	Cable Diagram 12 (page 95)
			RS422/485 (4wire)	Setting Example 25 (page 62)	Cable Diagram 13 (page 96)

*1 Base mounting type.

*2 CPU mounting type.

*3 Connect to RS232C port.

- *4 Commercial 9 pin-25 pin conversion adapter is required.
- *5 Set the 2wire/4wire toggle switch to 4wire (Only 4wire type is available to use).
- *6 Connect to the HOSTLINK port.

MPORTANT 1

• For SYSMAC- α Series, please note as below.

- We cannot guarantee the operation when you access the nonexistent data memory area (DM6656 to DM6999).
- We cannot guarantee the operation when you access to DM7000 to DM9999 without the extension fixed DM setting.
- We cannot guarantee the operation when you specify the area within the range in the models in which the bank of the extension memory area does not exist.

2 Selection of External Device

Select the External Device to be connected to the Display.

ð	💰 New Project File 🛛 🗙 🗙					
	Device/PLC					
	Maker	OMRON Corporation				
	Driver	C/CV Series HOST Link				
	Use System Area Refer to the manual of this Device/PLC					
	Connection Port	Method COM1				
	Back	Go to Device/PLC Manual Communication Detail Settings Cancel Communication				

Setup Items	Setup Description
Maker	Select the maker of the External Device to be connected. Select "OMRON Corporation".
Driver	Select a model (series) of the External Device to be connected and connection method. Select "C/CV Series HOST Link". Check the External Device which can be connected in "C/CV Series HOST Link" in system configuration. "I System Configuration" (page 3)
Use System Area	 Check this option when you synchronize the system data area of the Display and the device (memory) of the External Device. When synchronized, you can use the ladder program of the External Device to switch the display or display the window on the Display. Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)" This can be also set with GP-Pro EX or in off-line mode of the Display. Cf. GP-Pro EX Reference Manual "System Area Setting, 6.13.6 Setting Guide of [System Setting Window]" Cf. GP3000 Series User Manual "4.3.6 System Area Setting"
Port	Select the Display port to be connected to the External Device.

3 Example of Communication Setting

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

3.1 Setting Example 1

Setting of GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1				
Summary	Change Device/PLC			
Maker OMRON Corporation	Series C/CV Series HOST Link Port COM1			
Text Data Mode 3 Cha	ige			
Communication Settings				
SIO Type 💿 RS23.	2C O RS422/485(2wire) O RS422/485(4wire)			
Speed 19200				
Data Length 💿 7	O 8			
Parity O NONE	● EVEN ○ ODD			
Stop Bit 📀 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 RS232C, you ca or VCC (5V Power Supply). If y Isolation Unit, please select it to				
Device-Specific Settings				
Allowable No. of Device/PLCs 16 Unit(s)				
No. Device Name	Settings Series=CV Link,Unit No.=0,Change to Monitor Mode=ON			

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual De	vice Settings 🛛 🔀
PLC1	
Series	⊙ C Link ⊂ CV Link
	nfirm all of address settings that you are using changed the series.
Unit No.	0 *
Operating Mode	🔽 Change to Monitor Mode
You can w	ite data only in Monitor Mode in Operating mode.
	Default
	OK (<u>0</u>) Cancel

Set the HOST link unit attached to the External Device as below. Please refer to the manual of the External Device for more details.

C200H-LK201

Rotary Switch	Settings	Setup Description
SW1	0	Unit No. x 10
SW2	0	Unit No. x 1
SW3	6	Transmission speed: 19.2Kbps
SW4	2	7-bit data length, 2 stop bits, Even
DIP Switch (rear panel)	Settings	Setup Description
SW1	OFF	Unused
SW2	OFF	Unused
SW3	ON	1:N step
SW4	OFF	Without 5V supply

Set the CTS control to 0V (always ON).

♦ C120-LK201-V1

DIP Switch 1	Settings	Setup Description
SW1	OFF	
SW2	OFF	
SW3	OFF	Unit No.: 0
SW4	OFF	
SW5	OFF	
SW6	OFF	Unused
SW7	OFF	Unused
SW8	ON	Operation

DIP Switch 2	Settings	Setup Description
SW1	OFF	
SW2	OFF	Transmission speed 10 2Khrs
SW3	ON	Transmission speed: 19.2Kbps
SW4	OFF	
SW5	OFF	Unused
SW6	OFF	1:N step
SW7	ON	Lovel 1, 2, 2 Enchlad
SW8	ON	Level 1, 2, 3 Enabled
DIP Switch 3	Settings	Setup Description
DIP Switch 3 SW1	Settings ON	
		Setup Description CTS always ON
SW1	ON	
SW1 SW2	ON OFF	CTS always ON
SW1 SW2 SW3	ON OFF ON	
SW1 SW2 SW3 SW4	ON OFF ON OFF	CTS always ON
SW1 SW2 SW3 SW4 SW5	ON OFF ON OFF ON	CTS always ON

3.2 Setting Example 2

Setting of GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1		
Summary		Change Device/PLC
Maker OMRON Corporation	Series C/CV Series HOST Link	Port COM1
Text Data Mode 3 Change		
Communication Settings		
SIO Type ORS232C OF	S422/485(2wire) • RS422/485(4wire)	
Speed 19200	•	
Data Length 💿 7 💿 8	}	
Parity C NONE 💿 E	VEN O ODD	
Stop Bit 🔿 1 💿 2	2	
Flow Control 💿 NONE 💿 E	R(DTR/CTS) © XON/XOFF	
Timeout 3 📑 (sec)		
Retry 2		
Wait ToSend 🛛 📑 (ms)		
RI / VCC © RI O V	/CC	
In the case of RS232C, you can select the S or VCC (5V Power Supply). If you use the D		
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	Series=CV Link,Unit No.=0,Change to Monitor	Mode=ON

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Devi	e Settings	×
PLC1		
Series	C Link	C CV Link
	irm all of address s anged the series.	ettings that you are using
Unit No.	0 .	[
Operating Mode	🔽 Change to	Monitor Mode
You can write	data only in Monit	or Mode in Operating mode.
		Default
	OK ((<u>0)</u> Cancel

Set the HOST link unit attached to the External Device as below. Please refer to the manual of the External Device for more details.

C200H-LK202

Rotary switch	Settings	Setup Description
SW1	0	Unit No. x 10
SW2	0	Unit No. x 1
SW3	6	Transmission speed: 19.2Kbps
SW4	2	7-bit data length, 2 stop bits, Even

Set the rear switch as below.

- 1:N step (OFF)
- When the External Device is located at the end of the communication connection due to system configuration, set the switch to "With termination resistance connection (ON)"; in other cases, set it to "Without termination resistance connection (OFF)"

◆ C120-LK202-V1

DIP Switch 1	Settings	Setup Description
SW1	OFF	
SW2	OFF	
SW3	OFF	Unit No.: 0
SW4	OFF	
SW5	OFF	
SW6	OFF	Unused
SW7	OFF	Onused
SW8	ON	Operation

DIP Switch 2	Settings	Setup Description
SW1	OFF	
SW2	OFF	Transmission group 10 2Khrs
SW3	ON	Transmission speed: 19.2Kbps
SW4	OFF	
SW5	OFF	Unused
SW6	OFF	1:N step
SW7	ON	Level 1, 2, 3 Enabled
SW8	ON	Level 1, 2, 5 Ellabled

• When the External Device is located at the end of the communication connection due to system configuration

DIP Switch 3	Settings	Setup Description
SW1	ON	
SW2	OFF	
SW3	ON	Attach termination resistance
SW4	OFF	
SW5	ON	
SW6	OFF	
SW7	OFF	Unused
SW8	OFF	Onased

• In Other Cases

DIP Switch 3	Settings	Setup Description
SW1	ON	
SW2	OFF	
SW3	OFF	Not attach termination resistance
SW4	OFF	
SW5	OFF	
SW6	OFF	
SW7	OFF	Unused
SW8	OFF	Unused

3.3 Setting Example 3

Setting of GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device	e/PLC1			
Sumr	nary		Change Device/PLC	
	Maker OMRON Cor	poration	Series C/CV Series HOST Link Port COM1	
	Text Data Mode	3 <u>Change</u>		
Comr	nunication Settings			
	SIO Type	• RS232C	C RS422/485(2wire) C RS422/485(4wire)	
	Speed	19200		
	Data Length	• 7	C 8	
	Parity	○ NONE	EVEN ODD	
	Stop Bit	0.1	@ 2	
	Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF	
	Timeout	3 📫 (s	(sec)	
	Retry	2 +		
,	Wait To Send	n) 🗧 🛛	(ms)	
	RI / VCC	• BI	C VCC	
		Supply). If you use	ect the 9th pin to RI (Input) ee the Digital's RS232C - Default	
Devid	ce-Specific Settings			
	Allowable No. of Devi			
Г	No. Device Nar	ne	Settings	_
L	👗 1 PLC1		Series=CV Link,Unit No.=0,Change to Monitor Mode=ON	

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💣 Individual Devi	e Settings	×
PLC1		
Series	C Link	C CV Link
	irm all of address s anged the series.	ettings that you are using
Unit No.	0 .	[
Operating Mode	🔽 Change to	Monitor Mode
You can write	data only in Monit	or Mode in Operating mode.
		Default
	OK ((<u>0)</u> Cancel

When setting with the ladder tool

Open [PC System Setting] in the ladder tool and set the HOST link port in [HOST Link Port]. Please refer to the manual of the External Device for more details on the ladder tool.

Setup Items	Setting Value
Communication Settings	User setting
Speed	19200
Parameter	7, 2, E
Mode	HOST link
Unit No.	0 unit
Delay	0
CS Control	Enable

When setting the value in the data register

Use the ladder tool or etc. and set the value as below.

Set SW5 to OFF.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6645	0001(HEX)	Mode selection: HOST link
DM6646	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6648	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

3.4 Setting Example 4

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device	e/PLC1			
Sumn	nary		Change Device/PLC	
I	Maker OMRON Corp	ooration	Series C/CV Series HOST Link Port COM1	
	Text Data Mode	3 <u>Change</u>		
Comn	nunication Settings			
:	SIO Type	RS232C	C RS422/485(2wire) C RS422/485(4wire)	
:	Speed	19200		
1	Data Length	● 7	O 8	
I	Parity	C NONE	EVEN O ODD	
:	Stop Bit	O 1	© 2	
I	Flow Control	C NONE	ER(DTR/CTS) O XON/XOFF	
	Timeout	3 📫 (s	(sec)	
I	Retry	2 📫		
١	Wait To Send	n) 🗧 O	(ms)	
	RI / VCC	• RI	O VCC	
		Supply). If you use	ct the 9th pin to RI (Input) e the Digital's RS232C Default	
Devid	ce-Specific Settings			
,	Allowable No. of Devi			
Г	No. Device Nan X 1 PLC1	ne	Settings Settings Image: Series=CV Link, Unit No.=0, Change to Monitor Mode=DN	
L	👗 1 PLC1		Joenes-CA, Fluk, our Morentialitie rollande rollande en a	

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💣 Individual Devi	ce Settings	2	ĸ
PLC1			
Series	C Link	O CV Link	
	irm all of address s langed the series.	settings that you are using	
Unit No.	0 🗧	[
Operating Mode	🔽 Change to l	Monitor Mode	
You can write	data only in Monit	tor Mode in Operating mode.	
		Default	
	OK ((<u>0)</u> Cancel	

When setting with the ladder tool

Open [PC System Setting] in the ladder tool and set the peripheral port in [Peripheral Port]. Please refer to the manual of the External Device for more details on the ladder tool.

Setup Items	Setting Value
Communication Settings	User setting
Speed	19200
Parameter	7, 2, E
Mode	HOST link
Unit No.	0 unit
Delay	0
CS Control	Enable

When setting the value in the data register

Use the ladder tool or etc. and set the value as below.

Set SW5 to OFF.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6650	0001(HEX)	Mode selection: HOST link
DM6651	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6653	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

3.5 Setting Example 5

Setting of GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC	1		
Summary			Change Device/PLC
Make	OMRON Cor	poration	Series C/CV Series HOST Link Port COM1
Text [)ata Mode	3 <u>Change</u>	
Communica	ation Settings		
SIO T	уре	RS232C	C RS422/485(2wire) O RS422/485(4wire)
Speed	ł	19200	
Data I	ength	● 7	C 8
Parity		C NONE	EVEN ODD
Stop B	Bit	O 1	© 2
Flow (Control	C NONE	ER(DTR/CTS) C XON/XOFF
Timeo	ut	3 🕂 (;	(sec)
Retry		2 ÷	
Wait 1	lo Send	0 🔅 (1	(ms)
RI / V	CC	• BI	O VCC
or V	CC (5V Power !		et the 9th pin to RI (Input) ee the Digital's RS232C - Default
Device-Sp	ecific Settings		
		ice/PLCs_16 Unit(
	lo. Device Nar 1 PLC1	ne	Settings Terries=CV Link,Unit No.=0,Change to Monitor Mode=DN
<u></u>	' JELUI		Series=CV Link, Unit No.=0, Change to Monitor Mode=ON

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💣 Individual Devi	ce Settings		×
PLC1			
Series	C Link	O CV Link	
	firm all of address si hanged the series.	ettings that you are using	
Unit No.	0 📫		
Operating Mode	🔽 Change to f	Monitor Mode	
You can write	edata only in Monito	or Mode in Operating mode	э.
		Default	
	OK ((<u>0)</u> Cancel	

Set the HOST link unit attached to the External Device as below. Please refer to the manual of the External Device for more details on settings.

♦ C500-LK201-V1

DIP Switch 1	Settings	Setup Description	
SW1	OFF		
SW2	OFF		
SW3	OFF	Unit No.: 0	
SW4	OFF		
SW5	OFF		
SW6	OFF	Unused	
SW7	OFF	Unused	
SW8	ON	Operation	
DIP Switch 2	Settings	Setup Description	
DIP Switch 2 SW1	Settings OFF	Setup Description	
SW1	OFF	Setup Description Transmission speed: 19.2Kbps	
SW1 SW2	OFF OFF		
SW1 SW2 SW3	OFF OFF ON		
SW1 SW2 SW3 SW4	OFF OFF ON OFF	Transmission speed: 19.2Kbps	
SW1 SW2 SW3 SW4 SW5	OFF OFF ON OFF OFF	Transmission speed: 19.2Kbps Unused	

Mode Control Switch (front of the unit): HOST link

I/O Port (rear of the unit): RS-232C

Synchronize (rear of the unit): Internal

Termination resistance (rear of the unit): None

CTS (rear of the unit): 0V

◆ C500-LK203

DIP Switch 1	Settings	Setup Description	
SW1	OFF		
SW2	OFF		
SW3	OFF	Unit No.: 0	
SW4	OFF		
SW5	OFF		
SW6	OFF	7-bit data length, 2 stop bits, Even	
SW7	OFF	7-on data tengui, 2 stop ons, Even	
SW8	OFF	Normal	
DIP Switch 2	Settings	Setup Description	
DIP Switch 2 SW1	Settings OFF	Setup Description	
	-		
SW1	OFF	Setup Description Transmission speed: 19.2Kbps	
SW1 SW2	OFF		
SW1 SW2 SW3	OFF OFF ON		
SW1 SW2 SW3 SW4	OFF OFF ON OFF	Transmission speed: 19.2Kbps	
SW1 SW2 SW3 SW4 SW5	OFF OFF ON OFF ON	Transmission speed: 19.2Kbps System #0	

Mode Control Switch (front of the unit): HOST link

5V supply (rear of the unit): OFF

I/O Port (rear of the unit): RS-232C

Synchronize (rear of the unit): Internal

Termination resistance (rear of the unit): None

CTS (rear of the unit): 0V

3.6 Setting Example 6

Setting of GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/	/PLC 1				
Summa	ary				Change Device/PLC
М	laker OMRON Corp	poration	Series C/CV	/ Series HOST Link	Port COM1
T	ext Data Mode	3 Change			
Commu	unication Settings				
SI	Ю Туре	C RS232C	C RS422/485(2wire)) 💿 RS422/485(4wire)	
S	peed	19200	•		
D	ata Length	• 7	O 8		
P	arity	C NONE	EVEN	O ODD	
SI	top Bit	O 1	⊙ 2		
FI	low Control	C NONE	• ER(DTR/CTS)	C XON/XOFF	
Ti	imeout	3 📫 (s	ec)		
R	etry	2 📫			
₩	/ait To Send	n) 🛨 (n	ns)		
B	I / VCC	© RI	O VCC		
		Supply). If you use	the 9th pin to RI (Inpu the Digital's RS232C	t) Default	
Device	e-Specific Settings				
	llowable No. of Devi				
	No. Device Nan	ne	Settings	Link,Unit No.=0,Change to Monito	r Mode-ON
ð			TE Denez=CA	Enrictonic Nootenange to Monito	

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Dev	ice Settings	×
PLC1		
Series	C Link	C CV Link
	ifirm all of address s hanged the series.	ettings that you are using
Unit No.	0 +	
Operating Mode	🔽 Change to	Monitor Mode
You can writ	e data only in Monit	or Mode in Operating mode.
		Default
	OK ((<u>0)</u> Cancel

Set the HOST link unit attached to the External Device as below. Please refer to the manual of the External Device for more details on settings.

C500-LK201-V1

DIP Switch 1	Settings	Setup Description				
SW1	OFF					
SW2	OFF					
SW3	OFF	Unit No.: 0				
SW4	OFF					
SW5	OFF					
SW6	OFF	Unused				
SW7	OFF	Unused				
SW8	ON	Operation				
DIP Switch 2	Settings	Setup Description				
DIP Switch 2 SW1	Settings OFF	Setup Description				
SW1	OFF	Setup Description Transmission speed: 19.2Kbps				
SW1 SW2	OFF OFF					
SW1 SW2 SW3	OFF OFF ON					
SW1 SW2 SW3 SW4	OFF OFF ON OFF	Transmission speed: 19.2Kbps				
SW1 SW2 SW3 SW4 SW5	OFF OFF ON OFF OFF	Transmission speed: 19.2Kbps Unused				

Mode Control Switch (front of the unit): HOST link

I/O Port (rear of the unit): RS-422

Synchronize (rear of the unit): Internal

Termination resistance (rear of the unit): When the External Device is located at the end of the communication connection due to system configuration, set it to [With]; in other cases, set it to [Without].

CTS (rear of the unit): 0V

♦ C500-LK203

DIP Switch 1	Settings	Setup Description				
SW1	OFF					
SW2	OFF	Unit No.: 0				
SW3	OFF					
SW4	OFF					
SW5	OFF					
SW6	OFF	7 hit data langth 2 stop hits Evan				
SW7	OFF	7-bit data length, 2 stop bits, Even				
SW8	OFF	Normal				
DIP Switch 2	Settings	Setup Description				
DIP Switch 2 SW1	Settings OFF	Setup Description				
	-					
SW1	OFF	Setup Description Transmission speed: 19.2Kbps				
SW1 SW2	OFF OFF					
SW1 SW2 SW3	OFF OFF ON					
SW1 SW2 SW3 SW4	OFF OFF ON OFF	Transmission speed: 19.2Kbps				
SW1 SW2 SW3 SW4 SW5	OFF OFF ON OFF ON	Transmission speed: 19.2Kbps System #0				

Mode Control Switch (front of the unit): HOST link

5V supply (rear of the unit): OFF

I/O Port (rear of the unit): RS-422

Synchronize (rear of the unit): Internal

Termination resistance (rear of the unit): When the External Device is located at the end of the communication connection due to system configuration, set it to [With]; in other cases, set it to [Without].

CTS (rear of the unit): 0V

3.7 Setting Example 7

Setting of GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Devic	æ/PLC 1		
Sum	mary		Change Device/PLC
	Maker OMRON Cor	poration	Series C/CV Series HOST Link Port COM1
	Text Data Mode	3 <u>Change</u>	
Com	munication Settings		
	SIO Type	RS232C	C RS422/485(2wire) C RS422/485(4wire)
	Speed	9600	
	Data Length	• 7	C 8
	Parity	C NONE	EVEN ODD
	Stop Bit	0.1	€ 2
	Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF
	Timeout	3 📫 (s	(sec)
	Retry	2 📫	
	Wait To Send	0 📫 (n	(ms)
	RI / VCC	• RI	C VCC
		Supply). If you use	et the 9th pin to RI (Input) e the Digital's RS232C . Default
Dev	ice-Specific Settings		
	Allowable No. of Devi		
	No. Device Nar X 1 PLC1	ne	Settings Series=C Link,Unit No.=0,Change to Monitor Mode=ON
	👗 1 PLC1		Johnse Einkjohn No ojenange to Monitor Mode-ON

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Devi	ce Settings	×
PLC1		
Series	C Link	O CV Link
	firm all of address si hanged the series.	ettings that you are using
Unit No.	0 📫	
Operating Mode	🔽 Change to f	Monitor Mode
You can write	e data only in Monito	or Mode in Operating mode.
		Default
	ΟΚ (0) Cancel

Perform the communication in the standard settings (default).

Please refer to the manual of the External Device for more details on settings.

Setup Items	Setting Value
Speed	9600bps
Start Bit	1 bit
Data Length	7 bits
Stop Bit	2 bits
Parity Bit	Even
Unit No.	No.0 unit

3.8 Setting Example 8

Setting of GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Devic	e/PLC1								
Sum	mary						<u>C</u>	hange Device/PLC	
	Maker OMRON Cor	poration	Seri	es C/CV	Series HOST Link	k	Port	COM1	
	Text Data Mode	3 <u>Change</u>							
Com	munication Settings								
	SIO Type	RS232C	O RS422/-	485(2wire)	O RS422/	/485(4wire)			
	Speed	19200	•						
	Data Length	• 7	O 8						
	Parity	○ NONE	• EVEN		O ODD				
	Stop Bit	0.1	● 2						
	Flow Control	○ NONE	• ER(DTR	/CTS)	C XON/XOFF				
	Timeout	3 📫 (s	sec)						
	Retry	2 ÷							
	Wait To Send	n) 🗧 🛛	ms)						
	RI / VCC	• RI	O VCC						
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC, Default									
Devi	ce-Specific Settings								
	Allowable No. of Devi								
	No. Device Nar X 1 PLC1	ne	Setting		Link,Unit No.=0,Cł	hange to Monitor	Mode	-ON	
	👗 1 PLC1			enes=Cv I	LINK,ONICINO.=0,CI	nange to Monitor	moue:	-014	

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💣 Individual Devi	ce Settings	×
PLC1		
Series	C Link	C CV Link
	irm all of address se hanged the series.	ttings that you are using
Unit No.	0 📑	
Operating Mode	🔽 Change to M	fonitor Mode
You can write	data only in Monito	r Mode in Operating mode.
		Default
	OK (()) Cancel

Use the ladder tool etc. and set the value as below.

When connecting to CPM1 or CPM1H, set SW5 to OFF.

When connecting to CPM2C, set SW1 for "Connecting port function switch setting" to OFF, SW2 to ON. Please refer to the manual of the External Device for more details on settings.

Register	Settings Setup Description			
DM6650	0001(HEX)	Mode selection: HOST link		
DM6651	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity		
DM6653	0000(HEX)	HOST link, Unit No.: 0		

Write the data in each register and reset the External Device.

3.9 Setting Example 9

Setting of GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device	e/PLC1					
Sumr	nary		Change Device/PLC			
	Maker OMRON Cor	poration	Series C/CV Series HOST Link Port COM1			
	Text Data Mode	3 <u>Change</u>				
Comr	nunication Settings					
1	SIO Type	• R\$232C	O RS422/485(2wire) O RS422/485(4wire)			
1	Speed	19200	•			
	Data Length	• 7	O 8			
	Parity	O NONE	EVEN C ODD			
1	Stop Bit	0.1	© 2			
	Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF			
	Timeout	3 📫 (s	(sec)			
	Retry	2 +				
,	Wait To Send	() ÷	(ms)			
	RI / VCC	• BI	O VCC			
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.						
Devid	ce-Specific Settings					
	Allowable No. of Devi					
Г	No. Device Nar X 1 PLC1	ne	Settings			
	👗 1 PLC1		Series=CV Link,Unit No.=0,Change to Monitor Mode=ON			

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💣 Individual Devi	ce Settings		×
PLC1			
Series	C Link	O CV Link	
	firm all of address si hanged the series.	ettings that you are using	
Unit No.	0 📫		
Operating Mode	🔽 Change to f	Monitor Mode	
You can write	edata only in Monito	or Mode in Operating mode	э.
		Default	
	OK ((<u>0)</u> Cancel	

Use the ladder tool etc. and set the value as below.

Set SW5 to OFF.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6645	0001(HEX)	Mode selection: HOST link
DM6646	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6648	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

3.10 Setting Example 10

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Devic	e/PLC1								
Sum	mary						<u>C</u>	hange Device/PLC	
	Maker OMRON Cor	poration	Seri	es C/CV	Series HOST Link	k	Port	COM1	
	Text Data Mode	3 <u>Change</u>							
Com	munication Settings								
	SIO Type	RS232C	O RS422/-	485(2wire)	O RS422/	/485(4wire)			
	Speed	19200	•						
	Data Length	• 7	O 8						
	Parity	○ NONE	• EVEN		O ODD				
	Stop Bit	0.1	● 2						
	Flow Control	○ NONE	• ER(DTR	/CTS)	C XON/XOFF				
	Timeout	3 📫 (s	sec)						
	Retry	2 ÷							
	Wait To Send	n) 🗧 🛛	ms)						
	RI / VCC	• RI	O VCC						
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC, Default									
Devi	ce-Specific Settings								
	Allowable No. of Devi		-						
	No. Device Nar X 1 PLC1	ne	Setting		Link,Unit No.=0,Cł	hange to Monitor	Mode	-ON	
	👗 1 PLC1			enes=Cv I	LINK,ONICINO.=0,CI	nange to Monitor	moue:	-014	

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Device Settings 🛛 🛛 🔀			
PLC1			
Series	C Link	C CV Link	
	irm all of address s hanged the series.	settings that you are using	
Unit No.	0 🛨	[
Operating Mode	🔽 Change to l	Monitor Mode	
You can write data only in Monitor Mode in Operating mode.			
		Default	
	OK ((<u>0)</u> Cancel	

Use the ladder tool etc. and set the value as below.

Always set the mode setting SW on the conversion adapter to [HOST].

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6650	0001(HEX)	Mode selection: HOST link
DM6651	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6653	0000(HEX)	HOST link, Unit No.: 0

*Connect the conversion adapter to the peripheral port on the CPU.

3.11 Setting Example 11

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1						
Summary					Change Device/PLC	
Maker 0	MRON Corpora	ation	Series C.	/CV Series HOST Link	Port COM1	
Text Data	Mode 3	<u>Change</u>				
Communication	Settings					
SIO Type	C	RS232C	O RS422/485(2v	vire) 💿 RS422/485(4w	vire)	
Speed	1	9200	•			
Data Leng	th 🔎	7	08			
Parity	C	NONE	EVEN	O ODD		
Stop Bit	C	1	● 2			
Flow Contr	ol C	NONE	• ER(DTR/CTS)	C XON/XOFF		
Timeout	3	÷ (se	ec)			
Retry	2	•				
Wait To S	end O	÷ (m	is)			
RI / VCC	G	BI	O VCC			
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C						
	Unit, please se		une origitaris mozoz		fault	
Device-Specific	Settings					
Allowable No. of Device/PLCs 16 Unit(s)						
	No. Device Name Settings X 1 PLC1					
<u>ø</u> ' I	201		HILL JOCHES	ov Enik,onkrivo.=o,onange (

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Device Settings 🛛 🛛 🗙			
PLC1			
Series	C Link	C CV Link	
	irm all of address s anged the series.	ettings that you are using	
Unit No.	0 .	[
Operating Mode	🔽 Change to	Monitor Mode	
You can write data only in Monitor Mode in Operating mode.			
		Default	
	OK ((<u>0)</u> Cancel	

Use the ladder tool or etc. and set the value as below.

Always set the mode setting SW on the conversion adapter to [HOST].

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6650	0001(HEX)	Mode selection: HOST link
DM6651	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6653	0000(HEX)	HOST link, Unit No.: 0

*Connect the conversion adapter to the peripheral port on the CPU.

3.12 Setting Example 12

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1				
Summary				Change Device/PLC
Maker OMRON Corpo	ration	Series C/CV	Series HOST Link	Port COM1
Text Data Mode 🛛 🗌	3 <u>Change</u>			
Communication Settings				
SIO Type 🤇	RS232C	C RS422/485(2wire)	C RS422/485(4wire)	
Speed	19200	•		
Data Length (• 7	C 8		
Parity (O NONE	EVEN	C ODD	
Stop Bit 0	01			
Flow Control	O NONE	ER(DTR/CTS)	C XON/XOFF	
Timeout	3 📑 (se	ec)		
Retry	2 🕂			
Wait To Send	0 🕂 (m	s)		
RI / VCC (• RI	O VCC		
In the case of RS2320 or VCC (5V Power Su Isolation Unit, please s	ipply). If you use t	the 9th pin to RI (Input the Digital's RS232C) Default	
Device-Specific Settings				
Allowable No. of Device				
No. Device Name		Settings	ink,Unit No.=0,Change to Monitor	Mode=ON

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Device Settings 🛛 🛛 🔀		
PLC1		
Series	⊙ C Link ⊂ CV Link	
	firm all of address settings that you are using nanged the series.	
Unit No.	0 📫	
Operating Mode	Change to Monitor Mode	
You can write data only in Monitor Mode in Operating mode.		
	Default	
	OK (<u>0</u>) Cancel	

When using the peripheral port on the CPM2C-CIF01

Use the ladder tool or etc. and set the value as below.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6650	0001(HEX)	Mode selection: HOST link
DM6651	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6653	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

Connecting Port Function Setting Switch on the Unit

DIP Switch	Settings
SW1	OFF
SW2	ON

*Connect the conversion adapter to the peripheral port on the CPU.

3.13 Setting Example 13

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Devic	e/PLC1								
Sum	mary						<u>C</u>	hange Device/PLC	
	Maker OMRON Cor	poration	Seri	es C/CV	Series HOST Link	k	Port	COM1	
	Text Data Mode	3 <u>Change</u>							
Com	munication Settings								
	SIO Type	RS232C	O RS422/-	485(2wire)	O RS422/	/485(4wire)			
	Speed	19200	•						
	Data Length	• 7	O 8						
	Parity	○ NONE	• EVEN		O ODD				
	Stop Bit	0.1	● 2						
	Flow Control	○ NONE	• ER(DTR	/CTS)	C XON/XOFF				
	Timeout	3 📫 (s	sec)						
	Retry	2 ÷							
	Wait To Send	n) 🗧 🛛	ms)						
	RI / VCC	• RI	O VCC						
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	Supply). If you use			t)	Default			
Devi	Device-Specific Settings								
	Allowable No. of Device/PLCs 16 Unit(s) 📷								
	No. Device Nar X 1 PLC1	ne	Setting		Link,Unit No.=0,Cł	hange to Monitor	Mode	-ON	
	👗 1 PLC1			enes=Cv I	LINK,ONICINO.=0,CI	nange to Monitor	moue-	-014	

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Dev	ice Settings	×
PLC1		
Series	C Link	O CV Link
	nfirm all of address se hanged the series.	ttings that you are using
Unit No.	0 📫	
Operating Mode	🔽 Change to M	Ionitor Mode
You can writ	e data only in Monitor	r Mode in Operating mode.
		Default
	OK (<u>O</u>	I) Cancel

When using the RS232C port on the CPM2C-CIF01

Use the ladder tool etc. and set the value as below.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6645	0001(HEX)	Mode selection: HOST link
DM6646	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6648	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

Connecting Port Function Setting Switch on the Unit

DIP Switch	Settings
SW1	OFF
SW2	ON

*Connect the conversion adapter to the peripheral port on the CPU.

3.14 Setting Example 14

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device	e/PLC1					
Sumr	nary		Change Device/PLC			
	Maker OMRON Cor	poration	Series C/CV Series HOST Link Port COM1			
	Text Data Mode	3 <u>Change</u>				
Comr	nunication Settings					
	SIO Type	• RS232C	C RS422/485(2wire) C RS422/485(4wire)			
	Speed	19200				
	Data Length	• 7	C 8			
	Parity	○ NONE	EVEN ODD			
	Stop Bit	0.1	@ 2			
	Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF			
	Timeout	3 📫 (s	(sec)			
	Retry	2 +				
,	Wait To Send	n) 🗧 🛛	(ms)			
	RI / VCC	• BI	C VCC			
		Supply). If you use	ect the 9th pin to RI (Input) ee the Digital's RS232C - Default			
Devid	Device-Specific Settings					
	Allowable No. of Device/PLCs 16 Unit(s) 📷					
Г	No. Device Nar	ne	Settings	_		
L	👗 1 PLC1		Series=CV Link,Unit No.=0,Change to Monitor Mode=ON			

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💣 Individual Devi	ce Settings	×
PLC1		
Series	C Link	C CV Link
	irm all of address se hanged the series.	ttings that you are using
Unit No.	0 📑	
Operating Mode	🔽 Change to M	fonitor Mode
You can write	data only in Monito	r Mode in Operating mode.
		Default
	OK (()) Cancel

When using the RS232C port on the CPM2C-CIF11

Use the ladder tool etc. and set the value as below.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6645	0001(HEX)	Mode selection: HOST link
DM6646	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6648	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

3.15 Setting Example 15

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1					
Summary				Change Device/PLC	
Maker OMRON	Corporation	Series C/	CV Series HOST Link	Port COM1	
Text Data Mode	3 Change				
Communication Settings					
SIO Type	C RS232C	C RS422/485(2wi	ire) 💿 RS422/485(4wi	ire)	
Speed	19200	-			
Data Length	• 7	C 8			
Parity	O NONE	EVEN	O ODD		
Stop Bit	O 1	2 2			
Flow Control	O NONE	ER(DTR/CTS)	C XON/XOFF		
Timeout	3 +	(sec)			
Retry	2 🔅				
Wait To Send	0 ÷	(ms)			
RI / VCC	© BI	O VCC			
or VCC (5V Pov	ver Supply). If you us	ct the 9th pin to RI (In e the Digital's RS2320			
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			V Link,Unit No.=0,Change to) Monitor Mode=ON	

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💣 Individual Devi	ce Settings	×
PLC1		
Series	C Link	C CV Link
	irm all of address se hanged the series.	ttings that you are using
Unit No.	0 📑	
Operating Mode	🔽 Change to M	fonitor Mode
You can write	data only in Monito	r Mode in Operating mode.
		Default
	OK (()) Cancel

When using the RS232C port on the CPM2C-CIF11

Use the ladder tool etc. and set the value as below.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6645	0001(HEX)	Mode selection: HOST link
DM6646	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6648	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

When the External Device is located at the end of the communication connection due to system configuration, set the switch to "With termination resistance connection (ON)"; in other cases, set it to "Without termination resistance connection (OFF)"

RS-485 Interface Toggle Switch

DIP Switch 2	Settings	Setup Description
SW1	OFF	4 wire communication
SW2	OFF	4 wire communication
SW3	OFF	RS control function of the CPU unit
SW4	ON	KS control function of the CPU that

3.16 Setting Example 16

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device	e/PLC1			
Sumr	nary		Change Device/PLC	
	Maker OMRON Cor	poration	Series C/CV Series HOST Link Port COM1	
	Text Data Mode	3 <u>Change</u>		
Comr	nunication Settings			
	SIO Type	• RS232C	C RS422/485(2wire) C RS422/485(4wire)	
	Speed	19200		
	Data Length	• 7	C 8	
	Parity	○ NONE	EVEN ODD	
	Stop Bit	0.1	@ 2	
	Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF	
	Timeout	3 📫 (s	(sec)	
	Retry	2 +		
,	Wait To Send	n) 🗧 🛛	(ms)	
	RI / VCC	• BI	C VCC	
		Supply). If you use	ect the 9th pin to RI (Input) ee the Digital's RS232C - Default	
Devid	ce-Specific Settings			
	Allowable No. of Devi			
Г	No. Device Nar	ne	Settings	_
L	👗 1 PLC1		Series=CV Link,Unit No.=0,Change to Monitor Mode=ON	

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Devi	ce Settings	×
PLC1		
Series	C Link	C CV Link
	firm all of address sett hanged the series.	ings that you are using
Unit No.	0 📫	
Operating Mode	🔽 Change to Mo	onitor Mode
You can write	e data only in Monitor	Mode in Operating mode.
		Default
	OK (<u>0</u>)	Cancel

When using RS232C on CQM1H - SCB41B

Use the ladder tool etc. and set the value as below.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6555	0001(HEX)	Mode selection: HOST link
DM6556	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6558	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

Switch setting on the front unit

Switch	Settings
TERM	OFF
FIRE	Option

3.17 Setting Example 17

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Devic	e/PLC1						
Sum	mary				2	hange Device/PLC	
	Maker OMRON Cor	poration	Series C/C	V Series HOST Link	Port	COM1	
	Text Data Mode	3 <u>Change</u>					
Com	munication Settings						
	SIO Type	C RS232C	C RS422/485(2wire	e) 💿 RS422/485(4wire)			
	Speed	19200	•				
	Data Length	7	C 8				
	Parity	C NONE	EVEN	O ODD			
	Stop Bit	O 1					
	Flow Control	C NONE	• ER(DTR/CTS)	C XON/XOFF			
	Timeout	3 📫 (s	ec)				
	Retry	2 +					
	Wait To Send	0 ÷ (r	ns)				
	RI / VCC	© BI	O VCC				
			t the 9th pin to RI (Inp the Digital's RS232C	ut)			
	Isolation Unit, pleas		the Digital's Hozozo	Default	1		
Dev	Device-Specific Settings						
	Allowable No. of Device/PLCs 16 Unit(s)						
	No. Device Nar 1 PLC1	me	Settings	/Link,Unit No.=0,Change to Moni	tor Mode	== <u>NN</u>	
			Lin Joenes-ev	Entryohic Noo,ondrige to Moni			

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Devi	ce Settings	×
PLC1		
Series	C Link	C CV Link
	firm all of address sett hanged the series.	ings that you are using
Unit No.	0 📫	
Operating Mode	🔽 Change to Mo	onitor Mode
You can write	e data only in Monitor	Mode in Operating mode.
		Default
	OK (<u>0</u>)	Cancel

When using RS422/485 port on CQM1H-SCB41B

Use the ladder tool etc. and set the value as below.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6550	0001(HEX)	Mode selection: HOST link
DM6551	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6553	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

Switch setting on the front unit

Switch	Settings
TERM	ON
FIRE	4

When the External Device is located at the end of the communication connection due to system configuration, set the switch to "With termination resistance connection (ON)"; in other cases, set it to "Without termination resistance connection (OFF)"

3.18 Setting Example 18

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Devic	e/PLC1							
Sum	mary						<u>0</u>	hange Device/PLC
	Maker OMRON Cor	poration		Series C/CV	Series HOST Lin	k	Port	COM1
	Text Data Mode	3 <u>Change</u>						
Com	munication Settings							
	SIO Type	• RS232C	O RS43	22/485(2wire)	C RS422	/485(4wire)		
	Speed	19200	-					
	Data Length	• 7	O 8					
	Parity	O NONE	• EVER	N	C ODD			
	Stop Bit	0.1	€ 2					
	Flow Control	O NONE	• ER(D	DTR/CTS)	O XON/XOFF			
	Timeout	3 ÷ (s	ec)					
	Retry	2 ÷						
	Wait To Send	0 🔅 (n	ns)					
	RI / VCC	• RI	O VCC					
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	Supply). If you use			t)	Default		
Dev	Device-Specific Settings							
	Allowable No. of Device/PLCs 16 Unit(s) 📷							
	No. Device Nar	ne	Se	ttings Series=CV	Link,Unit No.=0,C	hange to Monitor	Mode:	=ON
			100	100000000				

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Devi	ce Settings	×
PLC1		
Series	C Link	C CV Link
	firm all of address sett hanged the series.	ings that you are using
Unit No.	0 📫	
Operating Mode	🔽 Change to Mo	onitor Mode
You can write	e data only in Monitor	Mode in Operating mode.
		Default
	OK (<u>0</u>)	Cancel

Use the ladder tool etc. and set the value as below.

Set SW5 to OFF.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6645	0001(HEX)	Mode selection: HOST link
DM6646	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6648	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

3.19 Setting Example 19

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Devic	e/PLC1								
Sum	mary						<u>C</u>	hange Device/PLC	
	Maker OMRON Cor	poration	Seri	es C/CV	Series HOST Link	k	Port	COM1	
	Text Data Mode	3 <u>Change</u>							
Com	munication Settings								
	SIO Type	RS232C	O RS422/-	485(2wire)	O RS422/	/485(4wire)			
	Speed	19200	•						
	Data Length	• 7	O 8						
	Parity	○ NONE	• EVEN		O ODD				
	Stop Bit	0.1	● 2						
	Flow Control	○ NONE	• ER(DTR	/CTS)	C XON/XOFF				
	Timeout	3 📫 (s	sec)						
	Retry	2 ÷							
	Wait To Send	n) 🗧 🛛	ms)						
	RI / VCC	• RI	O VCC						
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	Supply). If you use			t)	Default			
Devi	Device-Specific Settings								
	Allowable No. of Devi								
	No. Device Nar X 1 PLC1	ne	Setting		Link,Unit No.=0,Cł	hange to Monitor	Mode	-ON	
	👗 1 PLC1			enes=Cv I	LINK,ONICINO.=0,CI	nange to Monitor	moue-	-014	

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Dev	ice Settings 🛛 🔀
PLC1	
Series	● C Link
	nfirm all of address settings that you are using hanged the series.
Unit No.	0
Operating Mode	Change to Monitor Mode
You can wr	e data only in Monitor Mode in Operating mode.
	Default
	OK (<u>D</u>) Cancel

Use the ladder tool etc. and set the value as below.

Set SW5 to OFF.

Please refer to the manual of the External Device for more details on settings.

When using the port A

Register	Settings	Setup Description
DM6555	0001(HEX)	Mode selection: HOST link
DM6556	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6558	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

♦ When using the port B

Register	Settings	Setup Description
DM6550	0001(HEX)	Mode selection: HOST link
DM6551	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6553	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

3.20 Setting Example 20

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1						
Summary	Change Device/PLC					
Maker OMRON Corporation	Series C/CV Series HOST Link Port COM1					
Text Data Mode 3 Change						
Communication Settings						
SIO Type C RS232C	C RS422/485(2wire) © RS422/485(4wire)					
Speed 19200						
Data Length 📀 7	C 8					
Parity C NONE	EVEN ODD					
Stop Bit 🔿 1	• 2					
Flow Control C NONE	ER(DTR/CTS) O XON/XOFF					
Timeout 3 📑 (sec)					
Retry 2 🕂						
Wait To Send 🛛 📑 (ms)					
RI/VCC © RI	O VCC					
In the case of RS232C, you can select or VCC (5V Power Supply). If you use						
Isolation Unit, please select it to VCC.	Default					
Device-Specific Settings						
Allowable No. of Device/PLCs 16 Unit No. Device Name	s) 🚮 Settings					
No. Device Name	Series=CV Link,Unit No.=0,Change to Monitor Mode=ON					

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💣 Individual Devi	ce Settings	×
PLC1		
Series	C Link	C CV Link
	irm all of address s anged the series.	settings that you are using
Unit No.	0 +	
Operating Mode	🔽 Change to l	Monitor Mode
You can write	data only in Monit	tor Mode in Operating mode.
		Default
	OK ((<u>0)</u> Cancel

Use the ladder tool etc. and set the value as below.

Set SW5 to OFF.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6555	0001(HEX)	Mode selection: HOST link
DM6556	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6558	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

Set the DIP switch on the communication board as below.

- SW1: ON
- SW2: When the External Device is located at the end of the communication connection due to system configuration, set the switch to "With termination resistance (ON)"; in other cases, set it to "Without termination resistance (OFF)".

3.21 Setting Example 21

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/P	2LC 1					
Summary	y		Change Device/PLC			
Ma	ker OMRON Corp	ooration	Series C/CV Series HOST Link Port COM1			
Tex	xt Data Mode	3 <u>Change</u>				
Commun	nication Settings					
SIC) Туре	RS232C	C RS422/485(2wire) O RS422/485(4wire)			
Spe	eed	19200	•			
Dat	ta Length	● 7	C 8			
Par	rity	C NONE	EVEN ODD			
Sto	op Bit	O 1	© 2			
Flor	w Control	C NONE	ER(DTR/CTS) C XON/XOFF			
Tim	neout	3 📫 (s	(sec)			
Ret	try	2 ÷				
Wa	ait To Send	n) 🗧 🛛 🔾	(ms)			
BL/	/VCC	• RI	O VCC			
or		Supply). If you use	et the 9th pin to RI (Input) ee the Digital's RS232C - Default			
Device-9	Device-Specific Settings					
Allo	wable No. of Devi					
V	No. Device Nan	ne	Settings Text Series=CV Link, Unit No.=0, Change to Monitor Mode=ON			
.			In Jacuss-CA Fill K, Ohk NOO, Change to Mohkol Mode-ON			

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Devi	ce Settings	×
PLC1		
Series	O C Link	CV Link
	irm all of address se langed the series.	ettings that you are using
Unit No.	0 +	
Operating Mode	🔽 Change to N	Monitor Mode
You can write	data only in Monito	or Mode in Operating mode.
		Default
	OK ((<u>)</u> Cancel

When using the port 1 (RS232C)

Rotary Switch ^{*1}	Settings	Setup Description
SW3	0	Unit No.: 0
SW4	0	Unit No. 0

*1 SW1 and SW2 settings have no relations with the communication of the Display.

	Settings	Setup Description
5V Output Setting SW	Lower	Not supply

	Settings	Setup Description
Termination resistance SW	Lower	Termination resistance: Without

DIP Switch	Settings Setup Description	
SW1	OFF	9600bps, 7-bit data length, 2 stop bits, Even parity ^{*1}
SW2	ON	Port 1: Always CTS signal ON
SW3	ON	Port 2: Always CTS signal ON
SW4	OFF	Reserved: Always OFF
SW5	OFF	Wrap communication test: Execute normal operation.
SW6	OFF	Unused

*1 Use the ladder software etc. to change the transmission speed to 19200bps.

3.22 Setting Example 22

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Devic	e/PLC1								
Sum	mary						<u>C</u>	hange Device/PLC	
	Maker OMRON Cor	poration	Seri	es C/CV	Series HOST Link	k	Port	COM1	
	Text Data Mode	3 <u>Change</u>							
Com	munication Settings								
	SIO Type	RS232C	O RS422/-	485(2wire)	O RS422/	/485(4wire)			
	Speed	19200	•						
	Data Length	• 7	O 8						
	Parity	○ NONE	• EVEN		O ODD				
	Stop Bit	0.1	● 2						
	Flow Control	○ NONE	• ER(DTR	/CTS)	C XON/XOFF				
	Timeout	3 📫 (s	sec)						
	Retry	2 ÷							
	Wait To Send	n) 🗧 🛛	ms)						
	RI / VCC	• RI	O VCC						
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	Supply). If you use			t)	Default			
Devi	ce-Specific Settings								
	Allowable No. of Device/PLCs 16 Unit(s) 🔢								
	No. Device Nar X 1 PLC1	ne	Setting		Link,Unit No.=0,Cł	hange to Monitor	Mode	-ON	
	👗 1 PLC1			enes=Cv I	LINK,ONICINO.=0,CI	nange to Monitor	moue-	-014	

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Dev	ice Settings	×
PLC1		
Series	O C Link	CV Link
	ifirm all of address se hanged the series.	ttings that you are using
Unit No.	0 🕂	
Operating Mode	🔽 Change to M	fonitor Mode
You can writ	e data only in Monito	r Mode in Operating mode.
		Default
	OK (<u>C</u>)) Cancel

When using the port 2 (RS232C)

Rotary Switch ^{*1}	Settings	Setup Description
SW3	0	Unit No.: 0
SW4	0	One NO. 0

*1 SW1 and SW2 settings have no relations with the communication of the Display.

	Settings	Setup Description
5V Output Setting SW	Lower	Not supply

	Settings	Setup Description
Channel toggle SW	Lower	RS232C

	Settings	Setup Description
Termination resistance SW	Lower	Termination resistance: Without

DIP Switch	Settings	Setup Description	
SW1	OFF	9600bps, 7-bit data length, 2 stop bits, Even parity ^{*1}	
SW2	ON	Port 1: Always CTS signal ON	
SW3	ON	Port 2: Always CTS signal ON	
SW4	OFF	Reserved: Always OFF	
SW5	OFF	Wrap communication test: Execute normal operation.	
SW6	OFF	Unused	

*1 Use the ladder software etc. to change the transmission speed to 19200bps.

3.23 Setting Example 23

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1							
Summary						<u>Ch</u>	ange Device/PLC
Maker C	MRON Corporation	า	Series C/CV	Series HOST Link		Port	COM1
Text Data	Mode 3	<u>Change</u>					
Communication	Settings						
SIO Type	OB	S232C O F	(S422/485(2wire)	RS422/-	485(4wire)		
Speed	1920)0	·				
Data Lenj	gth 💽 7	08					
Parity	O N	ONE 📀 E	VEN	O ODD			
Stop Bit	O 1	• 2					
Flow Con	rol O N	ONE 🔍 E	R(DTR/CTS)	C XON/XOFF			
Timeout	3	÷ (sec)					
Retry	2	-					
Wait To S	end 0	🔹 (ms)					
RI / VCC	© R	I O V	/CC				
or VCC	ase of RS232C, yo (5V Power Supply)	. If you use the D)			
Isolation	Unit, please selec				Default		
Device-Specifi	-		5				
	No. of Device/PLC Device Name	Us 16 Unit(s) 🏢	1 Settinas				
	PLC1			.ink,Unit No.=0,Ch	ange to Monitor	Mode=	ON

Device Setting

To display the setting screen, click I [Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

Individual Devi	ce Settings	×
PLC1		
Series	🔿 C Link	CV Link
	firm all of address s hanged the series.	settings that you are using
Unit No.	0 🕂	
Operating Mode	🔽 Change to I	Monitor Mode
You can write	e data only in Moniti	tor Mode in Operating mode.
		Default
	ΟΚ ((<u>0)</u> Cancel

When using the port 2 (RS422)

Rotary Switch ^{*1}	Settings	Setup Description
SW3	0	Unit No.: 0
SW4	0	One NO. 0

*1 SW1 and SW2 settings have no relations with the communication of the Display.

	Settings	Setup Description
5V Output Setting SW	Lower	Not supply

	Settings	Setup Description	
Channel toggle SW	Upper	RS422	

Settings Setup I		Setup Description
Termination resistance SW	Upper	Termination resistance: With ^{*1}

*1 Set to ON the termination resistance selection switch of only the unit which is located at the end of the system.

DIP Switch	Settings	Setup Description	
SW1	OFF	9600bps, 7-bit data length, 2 stop bits, Even parity ^{*1}	
SW2	ON	Port 1: Always CTS signal ON	
SW3	ON	Port 2: Always CTS signal ON	
SW4	OFF	Reserved: Always OFF	
SW5	OFF	Wrap communication test: Execute normal operation.	
SW6	OFF	Unused	

*1 Use the ladder software etc. to change the transmission speed to 19200bps.

3.24 Setting Example 24

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Devic	e/PLC1								
Sum	mary						<u>C</u>	hange Device/PLC	
	Maker OMRON Cor	poration	Seri	es C/CV	Series HOST Link	k	Port	COM1	
	Text Data Mode	3 <u>Change</u>							
Com	munication Settings								
	SIO Type	RS232C	O RS422/-	485(2wire)	O RS422/	/485(4wire)			
	Speed	19200	•						
	Data Length	• 7	O 8						
	Parity	○ NONE	• EVEN		O ODD				
	Stop Bit	0.1	● 2						
	Flow Control	○ NONE	• ER(DTR	/CTS)	C XON/XOFF				
	Timeout	3 📫 (s	sec)						
	Retry	2 ÷							
	Wait To Send	n) 🗧 🛛	ms)						
	RI / VCC	• RI	O VCC						
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	Supply). If you use			t)	Default			
Devi	ce-Specific Settings								
	Allowable No. of Devi								
	No. Device Nar X 1 PLC1	ne	Setting		Link,Unit No.=0,Cł	hange to Monitor	Mode	-ON	
	👗 1 PLC1			enes=Cv I	LINK,ONICINO.=0,CI	nange to Monitor	moue-	-014	

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💣 Individual Devi	ce Settings	×
PLC1		
Series	O C Link	CV Link
	irm all of address set anged the series.	tings that you are using
Unit No.	0 🔹	
Operating Mode	🔽 Change to M	onitor Mode
You can write	data only in Monitor	Mode in Operating mode.
		Default
	OK (<u>O</u>) Cancel

When connecting the RS232C port

	Settings	Setup Description
Communication Setting Toggle SW	Upper	RS232C SIO Type

DIP Switch ^{*1}	Settings	Setup Description	
SW4	OFF	19200bps, 7-bit data length, 2 stop bits, Even parity, Unit No.: 0	
SW6	OFF	Termination resistance: Without	

*1 Other DIP SW settings have no relations with the communication with GP.

3.25 Setting Example 25

- Setting of GP-Pro EX
- Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/	/PLC 1				
Summa	ary				Change Device/PLC
м	laker OMRON Cor	poration	Series C/C	/ Series HOST Link	Port COM1
T	ext Data Mode	3 Change			
Commu	unication Settings				
SI	Ю Туре	O R\$232C	C RS422/485(2wire) 💿 RS422/485(4wire)	
S	peed	19200	•		
D	ata Length	• 7	C 8		
P	arity	O NONE	EVEN	C ODD	
S	top Bit	O 1	⊙ 2		
FI	low Control	O NONE	ER(DTR/CTS)	C XON/XOFF	
Ti	imeout	3 <u>*</u> (s	ec)		
R	etry	2 ÷			
W	/ait To Send	n) 🗧 (r	ns)		
B	I / VCC	© BI	C VCC		
			t the 9th pin to RI (Inpu the Digital's RS232C	ıt)	
	Isolation Unit, please		and Digitalis Hiszbec	Default	
Device	e-Specific Settings				
A	llowable No. of Devi				
J	No. Device Nar	ne	Settings	Link,Unit No.=0,Change to Monito	n Mode=0N
1				and a second sec	

Device Setting

To display the setting screen, click I ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Devic	e Settings	×
PLC1		
Series	O C Link	 CV Link
	rm all of address s anged the series.	settings that you are using
Unit No.	0 +	
Operating Mode	🔽 Change to	Monitor Mode
You can write	data only in Monil	tor Mode in Operating mode.
		Default
	OK	(<u>0)</u> Cancel

When connecting the RS422 port

	Settings	Setup Description
Communication Setting Toggle SW	Lower	RS422 SIO Type

DIP Switch ^{*1}	Settings	Setup Description	
SW4	OFF	19200bps, 7-bit data length, 2 stop bits, Even parity, Unit No.: 0	
SW6	ON	Termination resistance: With ^{*2}	

*1 Other DIP SW settings have no relations with the communication with GP.

*2 Set to ON the termination resistance selection switch of only the unit which is located at the end of the system.

4 Setup Items

Set communication settings of the Display with GP-Pro EX or in off-line mode of the Display.

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

"3 Example of Communication Setting" (page 9)

4.1 Setup Items in GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

)evice/PLC 1				Change Device/PLC
Summary		o :		
Maker OMRON (iorporation	Series (C/D	/ Series HOST Link	Port COM1
Text Data Mode	3 Change			
Communication Settings				
SIO Type	RS232C	C RS422/485(2wire)) C RS422/485(4wire)
Speed	19200	-		
Data Length	• 7	○ 8		
Parity	O NONE	EVEN	O ODD	
Stop Bit	O 1	● 2		
Flow Control	O NONE	ER(DTR/CTS)	C XON/XOFF	
Timeout	3 📑 (sec)		
Retry	2 🔅			
Wait To Send	0 📫 (ms)		
RI / VCC	⊙ BI	O VCC		
or VCC (5V Pow		t the 9th pin to RI (Inpu the Digital's RS232C	it) Defai	a 1
				ar
Device-Specific Setting Allowable No. of D	s evice/PLCs 16 Unit)	s) Det		
No. Device 1		Settings		
👗 1 PLC1		Series=C L	ink,Unit No.=0,Change to Mo	onitor Mode=ON

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	Select data length.		
Parity	Select how to check parity.		
Stop Bit	Select stop bit length.		
Flow Control	Select the communication control method to prevent overflow of transmission and reception data.		
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.		
RI/VCC	You can switch RI/VCC of the 9th pin when you select RS232C for SIO type.		

Device Setting

To display the setting screen, click 🌆 ([Setting]) of the External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When [Allowable No. of Device/PLCs] is multiple, you can click **m** from [Device-Specific Settings] of [Device/PLC Settings] to add the External Device which is available to set.

💕 Individual Devi	ce Settings	×
PLC1		
Series	C Link	O CV Link
	irm all of address si anged the series.	ettings that you are using
Unit No.	0 +	
Operating Mode	🔽 Change to P	Monitor Mode
You can write	data only in Monito	or Mode in Operating mode.
		Default
	OK (<u>(0)</u> Cancel

Setup Items	Setup Description
Series Select the model of the External Device to be connected.	
Unit No.	Set the unit No. of the External Device.
Operating Mode	Set the change to the monitor mode whether enable or disable.

• The External Device does not receive write from the Display in operation mode. When the "Operating Mode" is enabled, the External Device will be changed to the monitor mode at startup, which allows you to write to the External Device.

4.2 Setup Items in Off-Line Mode

NOTE

• Please refer to GP3000 Series User Manual for more information on how to enter off-line mode or about operation.

Cf. GP3000 Series User Manual "Chapter 4 Setting"

Communication Settings

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

Comm.	Device	Option		
C/CV Series HO	ST Link		[COM1]	Page 1/1
	SIO Type Speed Data Length Parity Stop Bit Flow Control	RS232C 19200 • 7 • NONE 1 ER(DTR/CTS	• EVEN • 2	DDD
	Timeout(s) Retry Wait To Send(ms)			
	Exit		Back	2005/09/02 12:44:02

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	Select data length.		
Parity	Select how to check parity.		
Stop Bit	Select stop bit length.		
Flow Control	Select the communication control method to prevent overflow of transmission and reception data.		
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.		

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 Settings].

Comm,	Device	Option		
C/CV Series HOS	TLink		[COM1]	Page 1/1
Devic	e/PLC Name PLC	01		•
	Series	C Link		
	Unit No.		0 💌 🔺	
	Monitor Mode	🔿 Disabl	e 💿 Enable	
	Exit		Back	2005/09/02 12:44:04

Setup Items	Setup Description		
Device/PLC Name	Select the External Device to set. Device/PLC name is a title of the External Device set with GP-Pro EX. (Initial value [PLC1])		
Series	Select the model of the External Device to be connected.		
Unit No.	Set the unit No. of the External Device.		
Monitor Mode	Set the change to the monitor mode whether enable or disable.		

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.	Device	Option		
C/CV Series HOS	T Link		[COM1]	Page 1/1
	the 9th pin Power Suppl	 RI of RS232C, you to RI(Input) or y). If you use th ation Unit, plea 	can select VCC(5V e Digital's	
	Exit		Back	2005/09/02 12:44:06

Setup Items	Setup Description		
RI/VCC	You can switch RI/VCC of the 9th pin when you select RS232C for SIO type.		

5 Cable Diagram

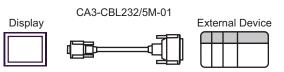
The cable diagram shown below may be different from the cable diagram recommended by OMRON Corporation. Please be assured there is no operational problem in applying the cable diagram shown in this manual.

- The FG pin of the main body of the External Device must be D-class grounded. Please refer to the manual of the External Device for more details.
- SG and FG are connected inside the Display. When connecting SG to the External Device, design the system not to form short-circuit loop.

Cable Diagram 1

Display	Cable	Remarks
AGP3000 Series (COM1)	A RS232C cable by Pro-face CA3-CBL232/5M-01	
	B Your own cable	Cable length: 15m or less

A) When using the RS232C cable by Pro-face (CA-3CBL232/5M-01)



External Device

B) When using your own cable

I	D-sub 9 p	in (socket)			al Device 5 pin (plug)
	Pin	Signal name	Shield	Pin	Signal name
Display	3	SD		2	SD
	2	RD		3	RD
	8	CS		4	RS
	5	SG		5	CS
	1	CD		7	SG
	4	ER		20	ER
	7	RS		1	FG

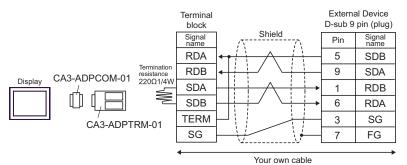
Cable Diagram 2

Display	Cable	Remarks	
GP ^{*1} (COM1) AGP3302 (COM2)	A Connector terminal block conversion adapter by Pro-face CA3-ADPCOM-01 + A Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable		
	B Your own cable		
GP ^{*1} (COM2)	C Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	The cable length must be 500m or less.	
	D Online adapter by Pro-face CA4-ADPONL-01 + Your own cable		

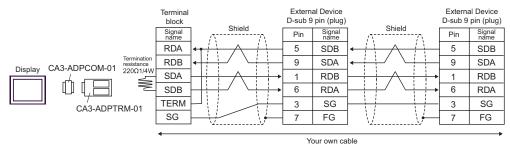
*1 Except AGP-3302 Series

A) When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable

• 1:1 Connection

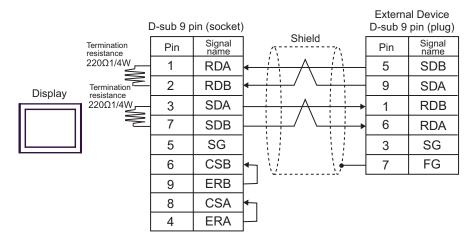


• 1:n Connection

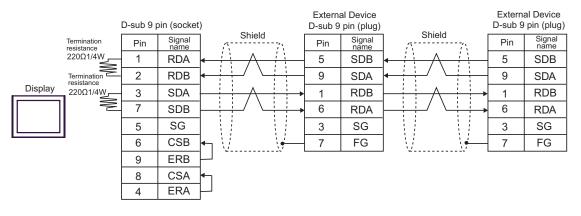


B) When using your own cable

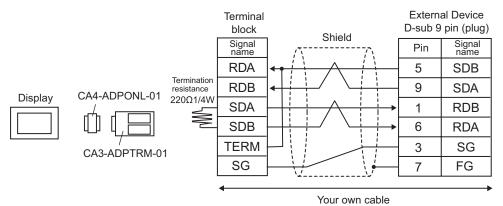
• 1:1 Connection



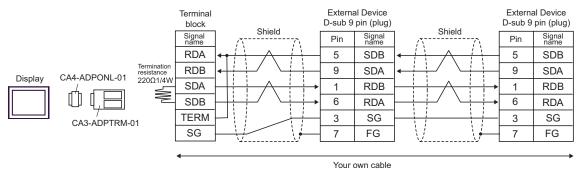
• 1:n Connection



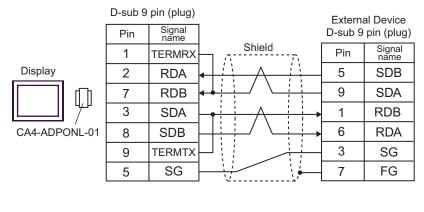
- C) When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable
- 1:1 Connection



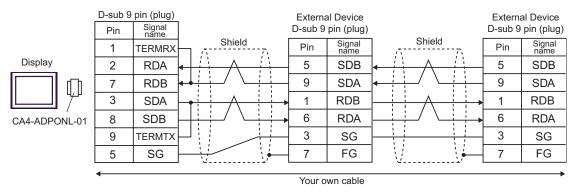
• 1:n Connection



- D) When using the online adapter (CA4-ADPONL-01) by Pro-face and your own cable
- 1:1 Connection

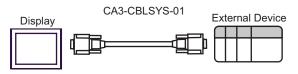


Your own cable



Display	Cable	Remarks
GP (COM1)	A OMRON SYSMAC link cable by Pro-face CA3-CBLSYS-01	
	B Your own cable	The cable length must be 15m or less.

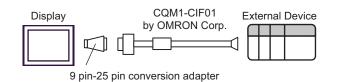
A) When using OMRON SYSMAC link cable (CA3-CBLSYS-01) by Pro-face



B) When using your own cable

D-sub 9 p	oin (socket			al Device pin (plug)
Pin	Signal name	Shield	Pin	Signal name
3	SD		2	SD
2	RD		3	RD
7	RS		4	RS
8	CS	┎┙┊┊╴╴┊╞┓	5	CS
5	SG		9	SG
			1	FG
	Pin 3 2 7 8	PinSignal name3SD2RD7RS8CS	name 3 SD 2 RD 7 RS 8 CS	D-sub 9 pin (socket) Pin Signal 3 SD 2 RD 7 RS 8 CS 4 5

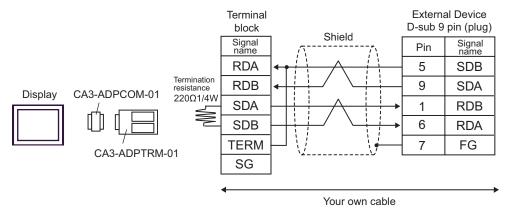
Display	Cable	Remarks
GP (COM1)	Isolation cable by OMRON Corporation CQM1-CIF01	Commercial 9 pin-25 pin conversion adapter is required.

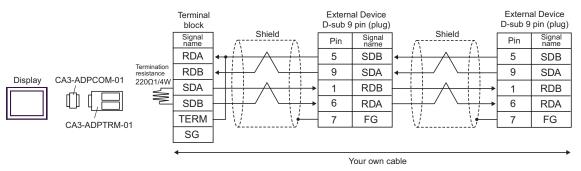


Display	Cable	Remarks
GP ^{*1} (COM1) AGP-3302 (COM2)	A COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	B Your own cable	
GP ^{*1} (COM2)	C Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	The cable length must be 500m or less.
	D Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

*1 All GP models except AGP-3302 Series

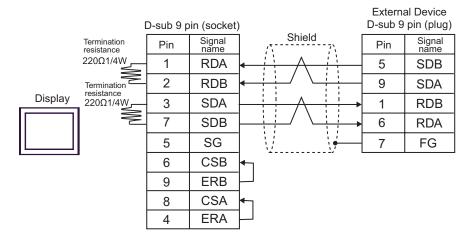
- A) When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable
- 1:1 Connection

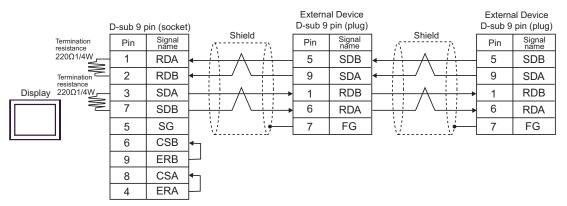




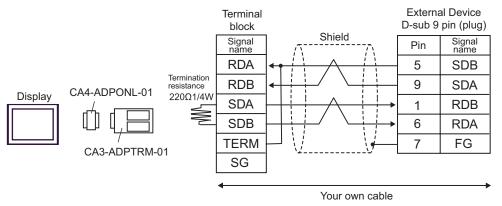
B) When using your own cable

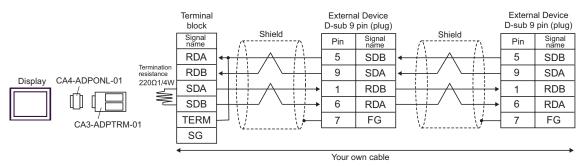
• 1:1 Connection



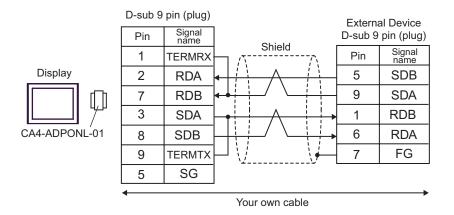


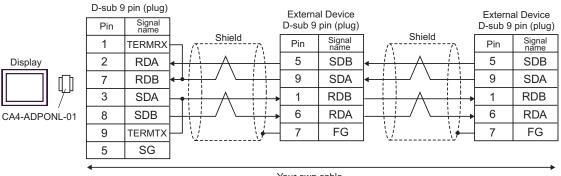
- C) When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable
- 1:1 Connection





- D) When using the online adapter (CA4-ADPONL-01) by Pro-face and your own cable
- 1:1 Connection





Your own cable

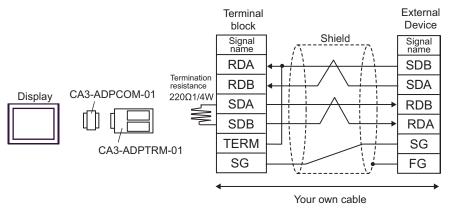
Display	Cable	Remarks
GP (COM1)	Your own cable	The cable length must be 15m or less.

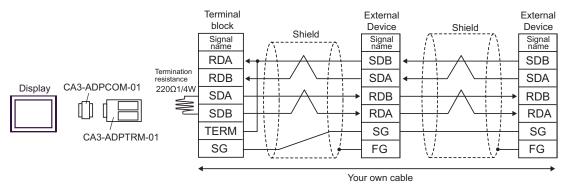
	D-sub 9 p	oin (socket	,		ll Device pin (plug)
	Pin	Signal name	Shield	Pin	Signal name
Display	3	SD		2	SD
	2	RD		3	RD
	7	RS		4	RS
	8	CS	┝┛┊┊╴╴┊┆└╼║	5	CS
	5	SG		7	SG
				1	FG

Display	Cable	Remarks
GP ^{*1} (COM1) AGP-3302 (COM2)	A COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	B RS422 cable by Pro-face CA3-CBL422/5M-01	
	C Your own cable	The cable length must be
GP ^{*1} (COM2)	D Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	500m or less.
	E Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

*1 All GP models except AGP-3302 Series

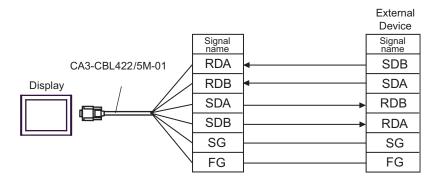
- A) When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable
- 1:1 Connection

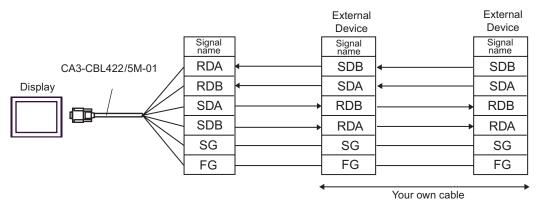




B) When using the RS422 cable (CA3-CBL422/5M-01) by Pro-face

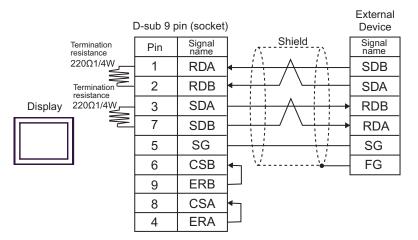
• 1:1 Connection

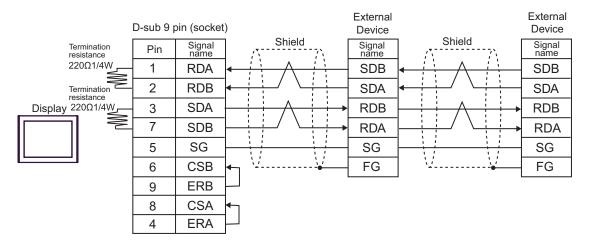




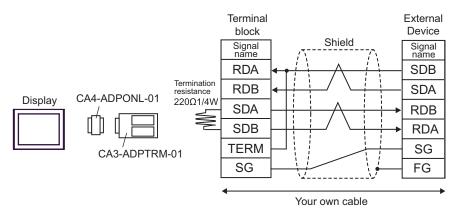
C) When using your own cable

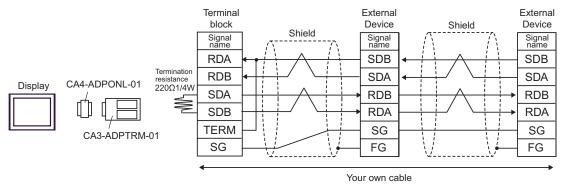
• 1:1 Connection



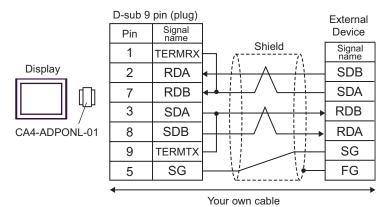


- D) When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable
- 1:1 Connection

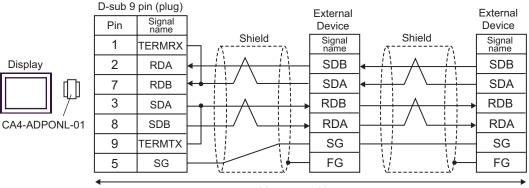




- E) When using the online adapter (CA4-ADPONL-01) by Pro-face and your own cable
- 1:1 Connection



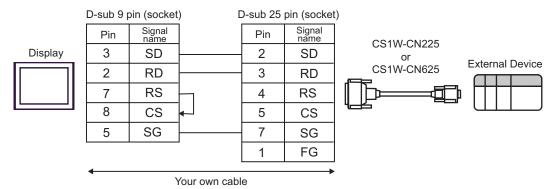
• 1:n Connection



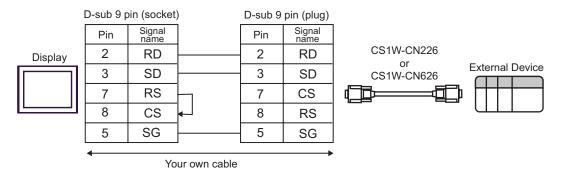
Your own cable

Display	Cable	Remarks
GP (COM1)	A CS1W-CN225 (2m) or CS1W-CN625 (6m) by OMRON Corporation + Your own cable	The cable length must be
	B CS1W-CN226 (2m) or CS1W-CN626 (6m) by OMRON Corporation + Your own cable	15m or less.

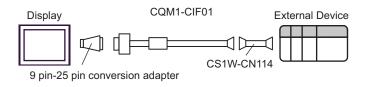
A) When using CS1W-CN225 (2m) or CS1W-CN625 (6m) by OMRON Corporation or your own cable



B) When using CS1W-CN226 (2m) or CS1W-CN626 (6m) by OMRON Corporation or your own cable



Display	Cable	Remarks
GP (COM1)	Isolation cable by OMRON Corporation CQM1-CIF01 + Connector conversion cable by OMRON Corporation CS1W-CN114	Commercial 9 pin/25 pin conversion adapter is required.

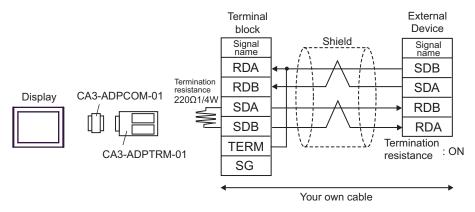


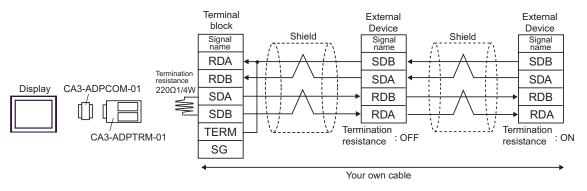
Display	Cable	Remarks
GP ^{*1} (COM1) AGP-3302 (COM2)	A COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	B RS422 cable by Pro-face CA3-CBL422/5M-01	
	C Your own cable	The cable length must be
GP ^{*1} (COM2)	D Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	500m or less.
	E Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

*1 All GP models except AGP-3302 Series

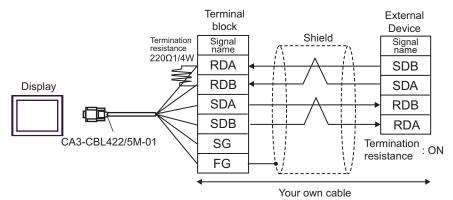
▲ CAUTION • When connecting the External Device, use the link adapter B500-AL001 or the terminal block by OMRON Corporation.

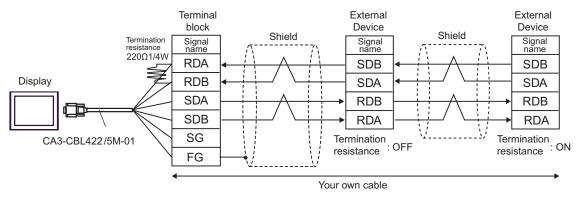
- A) When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable
- 1:1 Connection





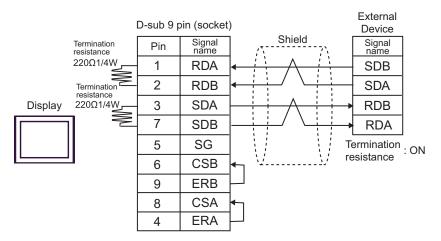
- B) When using the RS422 cable (CA3-CBL422/5M-01) by Pro-face
- 1:1 Connection

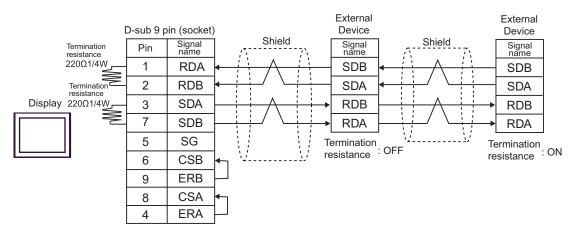




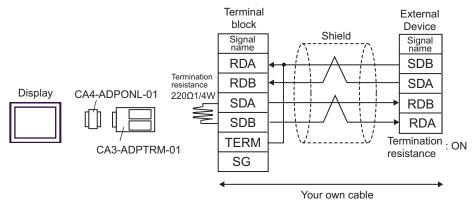
C) When using your own cable

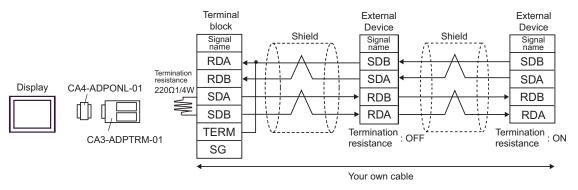
1:1 Connection



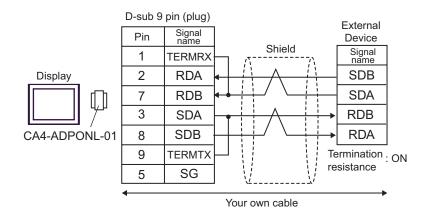


- D) When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable
- 1:1 Connection

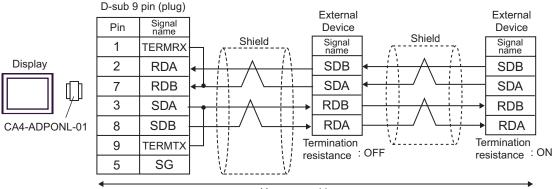




- E) When using the online adapter (CA4-ADPONL-01) by Pro-face and your own cable
- 1:1 Connection



• 1:n Connection



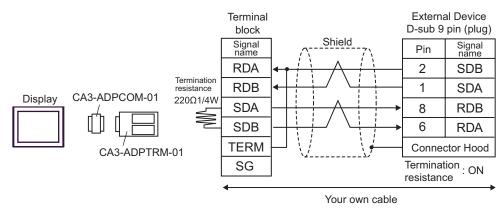
Your own cable

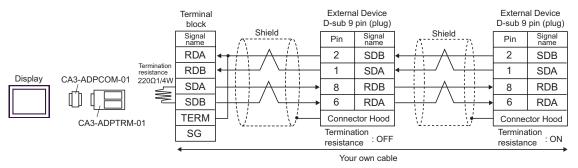
Display	Cable	Remarks
GP ^{*1} (COM1) AGP-3302 (COM2)	A COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	B RS422 cable by Pro-face CA3-CBL422/5M-01	
	C Your own cable	The cable length must be
GP ^{*1} (COM2)	D Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	500m or less.
	E Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

*1 All GP models except AGP-3302 Series

* When connecting the External Device, use the link adapter B500-AL001 or the terminal block by OMRON Corporation.

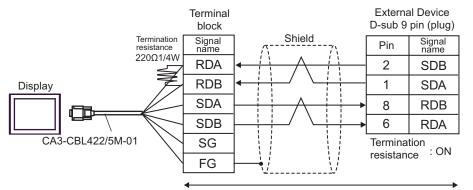
A) When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable



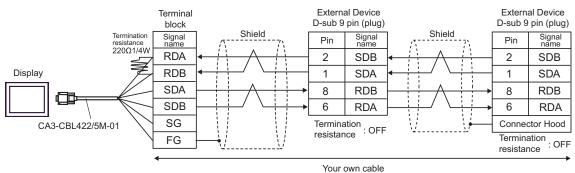


B) When using the RS422 cable (CA3-CBL422/5M-01) by Pro-face

• 1:1 Connection

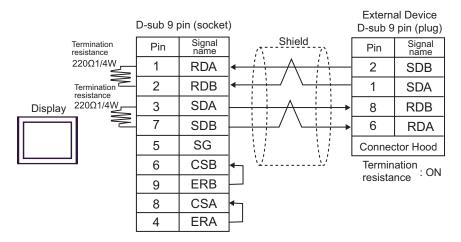


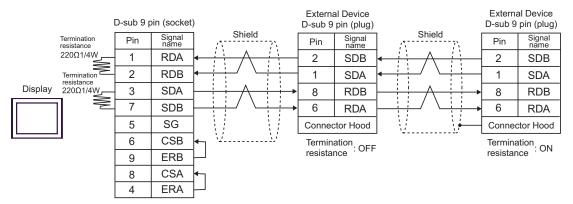
Your own cable



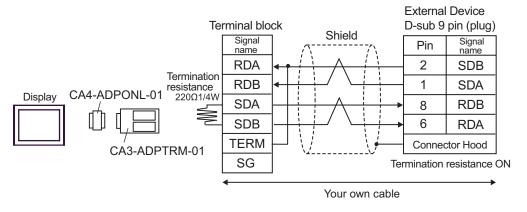
C) When using your own cable

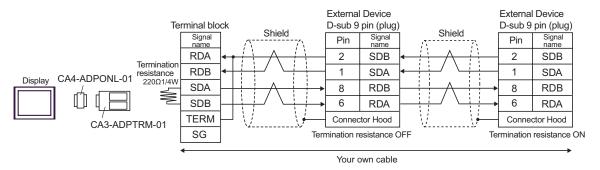
• 1:1 Connection



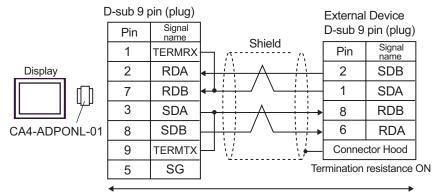


- D) When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable
- 1:1 Connection

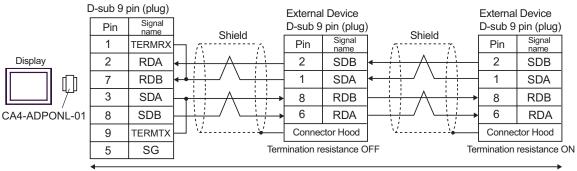




- E) When using the online adapter (CA4-ADPONL-01) by Pro-face and your own cable
- 1:1 Connection



Your own cable



Your own cable

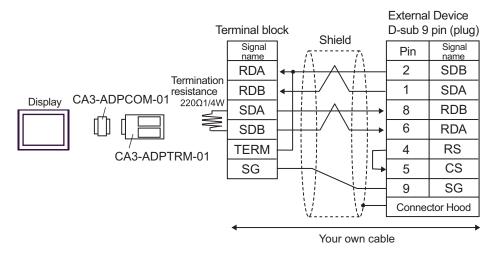
Display	Cable	Remarks
GP (COM1)	Your own cable	The cable length must be 15m or less.

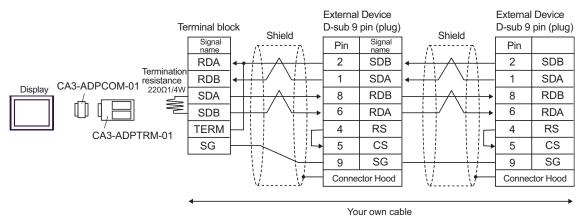
				External	Device
E	D-sub 9 p	oin (socke		D-sub 9	pin (plug)
	Pin	Signal name	Shield	Pin	Signal name
Display	3	SD		2	SD
	2	RD		3	RD
	7	RS		4	RS
	8	CS	┍┛┊┊┊┝╸	5	CS
	5	SG		9	SG
				Connec	tor Hood

Display	Cable	Remarks
GP ^{*1} (COM1) AGP-3302 (COM2)	A COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	B Your own cable	
GP ^{*1} (COM2)	C Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	The cable length must be 500m or less.
	D Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

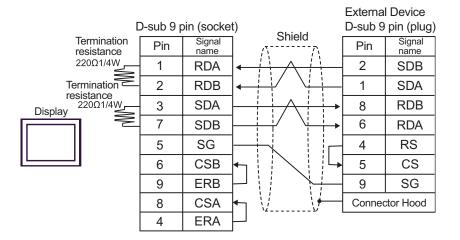
*1 All GP models except AGP-3302 Series

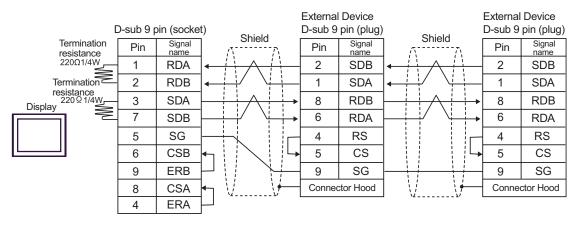
- A) When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable
- 1:1 Connection



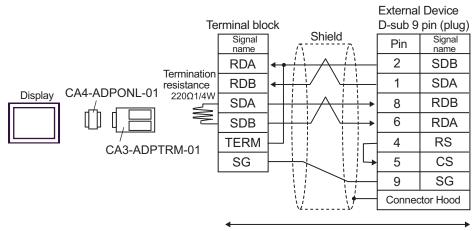


- B) When using your own cable
- 1:1 Connection



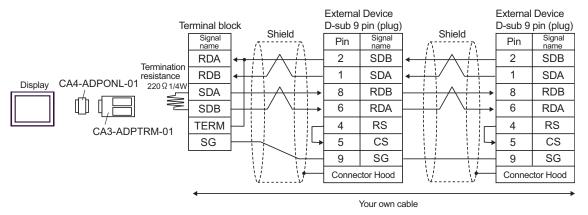


- C) When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable
- 1:1 Connection

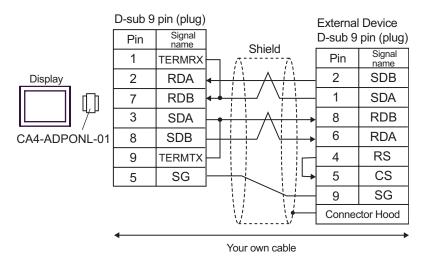


Your own cable

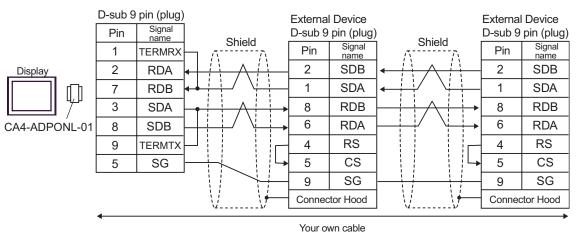
1:n Connection



- D) When using the online adapter (CA4-ADPONL-01) by Pro-face and your own cable
- 1:1 Connection



GP-Pro EX Device/PLC Connection Manual



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.

6.1 SYSMAC-C Series

:Available to set to the head address of the system device

Device	Bit Address	Word Address	32bits	Remarks
I/O Relay				
Internal Auxiliary Relay	000.00 - 511.15	000-511		*1 *3
Special Auxiliary Relay				
Analog Setting Value Stored Area	220.00 - 223.15	220 - 223		*2 *3
Data Link Relay	LR00.00 - LR63.15	LR00-LR63		*3
Auxiliary Memory Relay	AR00.00 - AR27.15	AR00-AR27	<u>[L/H</u>]	*3
Latch Relay	HR00.00 - HR99.15	HR00-HR99		*3
Timer (Contact)	TIM000-TIM511			*4
Counter (Contact)	CNT000-CNT511			*4
Timer (Current Value)		TIM000-TIM511		*5
Counter (Current Value)		CNT000-CNT511		*5
Data Memory		DM0000-DM6655		<u>вт</u> 15]

*1 Note that the actually supported range of the devices and whether write enable or disable may vary depending on the CPU. Please refer to the CPU manual for checking.

- *2 Can be used only in CQM1-CPU42.
- *3 When you write the bit address, the Display reads the word address corresponding to that of the External Device first. Then, it changes the target bit address among the word data once read and returns the word data to the External Device. Note that the correct data may not be written if you change the word address value in the ladder program while the Display reads the data of the External Device and returns it to the External Device.

*4 Write disable

*5 BCD only

NOTE

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

Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"

• Please refer to the precautions on manual notation for icons in the table.

"Manual Symbols and Terminology"

6.2 SYSMAC-C Series (CQM1H-CPU51/CQM1H-CPU61)

:Available to set to the head address of the system device

Device	Bit Address	Word Address	32bits	Remarks
I/O Relay	000.00 - 243.15	000-243		*1 *3
Internal Auxiliary Relay	000.00 - 243.13	000-243		
Special Auxiliary Relay	244.00-255.07	244-255		*2 *3
Link Relay	LR00.00-LR63.15	LR00-LR63		*3
Auxiliary Memory Relay	AR00.00-AR27.15	AR00-AR27		*3
Latch Relay	HR00.00-HR99.15	HR00-HR99	_ ⊺L/Hj	*3
Timer (Contact)	TIM000-TIM511			*4
Counter (Contact)	CNT000-CNT511			*4
Timer (Current Value)		TIM000-TIM511		*5
Counter (Current Value)		CNT000-CNT511		*5
Data Memory		DM0000-DM6655		<u>₿;</u> 15] ^{*6}
Extension Data Memory		EM0000-EM6134	ſ	<u>₿ij</u> *7

*1 There is an area in which any address does not exist within the address range of input relay/internal auxiliary relay. Please refer to the SYSMAC-CQM1H User Manual by OMRON Corporation.

*2 Bit address of the special auxiliary relay is 244.00-254.15/255.00-07. Bit address of 255.08-255.15 does not exist.

*3 When you write the bit address, the Display reads the word address corresponding to that of the External Device first. Then, it changes the target bit address among the word data once read and returns the word data to the External Device. Note that the correct data may not be written if you change the word address value in the ladder program while the Display reads the data of the External Device and returns it to the External Device.

- *6 Do not write in the store area beyond data memory DM, DM6569-DM6599 and PC system setting area DM6600-DM6655.
- *7 Extension data memory EM supports only CQM1H-CPU61.

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

- Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"
- Please refer to the precautions on manual notation for icons in the table.
 - "Manual Symbols and Terminology"

^{*4} Write disable

^{*5} BCD only

6.3 SYSMAC- α Series

: Available to set to the head address of the system device

Device	Bit Address	Word Address	32bits	Remarks
I/O Relay I	000.00-029.15	000-029		*1
I/O Relay II	300.00-309.15	300-309		*1
Internal Auxiliary Relay I	030.00-235.15	030-235		*1
Internal Auxiliary Relay II	310.00-511.15	310-511		*1
Special Auxiliary Relay I	236.00-255.07	236-255		*1
Special Auxiliary Relay II	256.00-299.15	256-299		*1
Link Relay	LR00.00-LR63.15	LR00-LR63		*1
Auxiliary Memory Relay	AR00.00-AR27.15	AR00-AR27		*1
Latch Relay	HR00.00-HR99.15	HR00-HR99	[L/H]	*1
Timer (Contact)	TIM000-TIM511			*2
Counter (Contact)	CNT000-CNT511			*2
Timer (Current Value)		TIM000-TIM511		*3
Counter (Current Value)		CNT000-CNT511		*3
Data Memory		DM0000-DM6655		<u>⊪, 15</u>]*4
Extension Fixed Data Memory		DM7000-DM9999	4 	_{в і т} 15)*5
Extension Data Memory		EM0000-EM6134		<u>₅;</u> 15]*6

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*1 When you write the bit address, the Display reads the word address corresponding to that of the External Device first. Then, it changes the target bit address among the word data once read and returns the word data to the External Device. Note that the correct data may not be written if you change the word address value in the ladder program while the Display reads the data of the External Device and returns it to the External Device.

- *2 Write disable
- *3 BCD only

*4 We cannot guarantee the operation when you access the nonexistent data memory area (DM6656 to DM6999).

- *5 We cannot guarantee the operation when you access to DM7000 to DM9999 without the extension fixed DM setting.
- *6 We cannot guarantee the operation when you specify the area within the range in the models in which the bank of the extension memory area does not exist.



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

- Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"
- Please refer to the precautions on manual notation for icons in the table.
 - "Manual Symbols and Terminology"

: Available to set to the head address of the system device

6.4 SYSMAC-CV Series

Device	Bit Address	Word Address	32bits	Remarks
I/O Relay	000.00 - 199.15	000-199		*1
Internal Auxiliary Relay	000.00 - 199.15	000-199		*1
SYSMAC BUS/2 Remote I/O Relay	0200.00 - 0999.15	0200-0999		*1
Data Link Relay	1000.00 - 1199.15	1000-1199		*1
Special Auxiliary Relay	A000.00 - A511.15	A000-A511		*1
Latch Relay	1200.00 - 1499.15	1200-1499		*1
Internal Auxiliary Relay	1900.00 - 2299.15	1900-2299	<u>[L/H</u>]	*1
SYSBUS Remote I/O Relay	2300.00 - 2555.15	2300-2555		*1
Timer (Contact)	T0000-T1023			*2
Counter (Contact)	C0000-C1023			*2
Timer (Current Value)		T0000-T1023		*3
Counter (Current Value)		C0000-C1023		*3
Data Memory		D0000-D9999		<u>ві (</u> 15)

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*1 When you write the bit address, the Display reads the word address corresponding to that of the External Device first. Then, it changes the target bit address among the word data once read and returns the word data to the External Device. Note that the correct data may not be written if you change the word address value in the ladder program while the Display reads the data of the External Device and returns it to the External Device.

- *2 Write disable
- *3 BCD only

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

- Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"
- 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 & Address" for the address type in data displays.

7.1 SYSMAC-C Series

Device	Device Name	Device Code (HEX)	Address Code
I/O Relay			
Internal Auxiliary Relay		0080	Word Address
Special Auxiliary Relay			
Analog Setting Value Stored Area	LR	0088	Word Address
Data Link Relay		0080	Word Address
Auxiliary Memory Relay	AR	0085	Word Address
Latch Relay	HR	0084	Word Address
Timer (Contact)	TIM	00E0	Word Address
Counter (Contact)	CNT	00E2	Word Address
Timer (Current Value)	TIM	0060	Word Address
Counter (Current Value)	CNT	0061	Word Address
Data Memory	DM	0000	Word Address

7.2 SYSMAC-C Series (CQM1H-CPU51/CQM1H-CPU61)

Device	Device Name	Device Code (HEX)	Address Code
I/O Relay			
Internal Auxiliary Relay		0080	Word Address
Special Auxiliary Relay			
Link Relay	LR	0088	Word Address
Auxiliary Memory Relay	AR	0085	Word Address
Latch Relay	HR	0084	Word Address
Timer (Contact)	TIM	00E0	Word Address
Counter (Contact)	CNT	00E2	Word Address
Timer (Current Value)	TIM	0060	Word Address
Counter (Current Value)	CNT	0061	Word Address

continued to next page

Device	Device Name	Device Code (HEX)	Address Code
Data Memory	DM	0000	Word Address
Extension Data Memory	EM	0001	Word Address

7.3 SYSMAC- α Series

Device	Device Name	Device Code (HEX)	Address Code
I/O Relay I			
I/O Relay II			
Internal Auxiliary Relay I		0080	Word Address
Internal Auxiliary Relay II		0080	word Address
Special Auxiliary Relay I			
Special Auxiliary Relay II			
Link Relay	LR	0088	Word Address
Auxiliary Memory Relay	AR	0085	Word Address
Latch Relay	HR	0084	Word Address
Timer (Contact)	TIM	00E0	Word Address
Counter (Contact)	CNT	00E2	Word Address
Timer (Current Value)	TIM	0060	Word Address
Counter (Current Value)	CNT	0061	Word Address
Data Memory	DM	0000	Word Address
Extension Fixed Data Memory	DM	0000	Word Address
Extension Data Memory	EM	0001	Word Address

7.4 SYSMAC-CV Series

Device	Device Name	Device Code (HEX)	Address Code
I/O Relay			
Internal Auxiliary Relay			
SYSMAC BUS/2 Remote I/O Relay		0080	Word Address
Data Link Relay			
Special Auxiliary Relay	А	0085	Word Address
Latch Relay	-	0080	Word Address
Internal Auxiliary Relay	-	0080	Word Address
SYSBUS Remote I/O Relay	-	0080	Word Address
Timer (Contact)	Т	00E0	Word Address
Counter (Contact)	С	00E2	Word Address
Timer (Current Value)	Т	0060	Word Address
Counter (Current Value)	С	0061	Word Address
Data Memory	D	0000	Word Address

8 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	•	Received error codes are displayed such as "Decimal [Hex]".
		IP address is displayed such as "IP address (Decimal): MAC address (Hex)".

Display Examples of Error Messages

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

NOTE • Please refer to the manual of the External Device for more detail of received error codes.

Memo