**OMRON** Corporation

# C/CV Series HOST Link Driver

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#### Introduction

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

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

1	System Configuration 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 10)
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 11)
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.	"4 Setup Items" (page 66)
	•	
5	Cable Diagram This section shows cables and adapters for connecting the Display and the External Device.	"5 Cable Diagram" (page 71)
	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
	C200H	C200H-LK202 <sup>*1</sup> C120-LK201-V1 <sup>*2</sup>	RS232C	Setting Example 1 (page 11)	Cable Diagram 1 (page 71)
	C20011	C200H-LK202 <sup>*1</sup> C120-LK202-V1 <sup>*2</sup>	RS422/485 (4wire)	Setting Example 2 (page 15)	Cable Diagram 2 (page 72)
		C200H-LK201 <sup>*1</sup> C120-LK201-V1 <sup>*2</sup>	RS232C	Setting Example 1 (page 11)	Cable Diagram 1 (page 71)
	C200HS	C200H-LK202 <sup>*1</sup>	RS422/485 (4wire)	Setting Example 2 (page 15)	Cable Diagram 2 (page 72)
	C200115	Link I/F on the CPU unit <sup>*3</sup>	RS232C	Setting Example 3 (page 18)	Cable Diagram 3 (page 77)
		Peripheral port on the CPU unit	RS232C	Setting Example 4 (page 20)	Cable Diagram 4 (page 78) <sup>*4</sup>
	C500 C500F C1000H C2000 C2000H	C120-LK201-V1 <sup>*2</sup>	RS232C	Setting Example 1 (page 11)	Cable Diagram 1 (page 71)
		C120-LK202-V1 <sup>*2</sup>	RS422/485 (4wire)	Setting Example 2 (page 15)	Cable Diagram 2 (page 72)
SYSMAC C		C500-LK201-V1 <sup>*2</sup>	RS232C	Setting Example 5 (page 22)	Cable Diagram 1 (page 71)
			RS422/485 (4wire)	Setting Example 6 (page 25)	Cable Diagram 2 (page 72)
		C500-I K203 <sup>*2</sup>	RS232C	Setting Example 5 (page 22)	Cable Diagram 1 (page 71)
		C300-LK203	RS422/485 (4wire)	Setting Example 6 (page 25)	Cable Diagram 5 (page 79)
		C500-LK201-V1 <sup>*2</sup>	RS232C	Setting Example 5 (page 22)	Cable Diagram 1 (page 71)
			RS422/485 (4wire)	Setting Example 6 (page 25)	Cable Diagram 2 (page 72)
		C500.1 K203 <sup>*2</sup>	RS232C	Setting Example 5 (page 22)	Cable Diagram 1 (page 71)
		C300-LK203	RS422/485 (4wire)	Setting Example 6 (page 25)	Cable Diagram 5 (page 79)
	C20H C28H C40H	Link I/F on the CPU unit <sup>*3</sup>	RS232C	Setting Example 7 (page 28)	Cable Diagram 6 (page 83)

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Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram	
	C20PF C28PF	C120-LK201-V1 <sup>*2</sup>	RS232C	Setting Example 1 (page 11)	Cable Diagram 1 (page 71)	
	C40PF C60PF	C120-LK202-V1 <sup>*2</sup>	RS422/485 (4wire)	Setting Example 2 (page 15)	Cable Diagram 2 (page 72)	
	C120	C120-LK201-V1 <sup>*2</sup>	RS232C	Setting Example 1 (page 11)	Cable Diagram 1 (page 71)	
	C120F	C120-LK202-V1 <sup>*2</sup>	RS422/485 (4wire)	Setting Example 2 (page 15)	Cable Diagram 2 (page 72)	
	CQM1-CPU11	Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 30)	Cable Diagram 4 (page 78) <sup>*4</sup>	
	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 32)	Cable Diagram 3 (page 77)	
SYSMAC C		Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 30)	Cable Diagram 4 (page 78) <sup>*4</sup>	
	CPM1 CPM1A CPM1A-V1	Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 30)	Cable Diagram 4 (page 78) <sup>*4</sup>	
		CPM1-CIF01	RS232C	Setting Example 10 (page 34)	Cable Diagram 3 (page 77)	
		CPM1-CIF11		Setting Example 11 (page 36)	Cable Diagram 7 (page 84)	
		RS232C port on the CPU unit	PS232C	Setting Example 9 (page 32)	Cable Diagram 3	
	SRM1-C02 CPM2A	CPM1-CIF01	K3232C	Setting Example 10 (page 34)	(page 77)	
		CPM1-CIF11	RS422/485 (4wire)	Setting Example 11 (page 36)	Cable Diagram 7 (page 84)	

continued to next page

Series	CPU	Link I/F	Link I/F SIO Type Setting Exa		Cable Diagram	
		Peripheral port on	RS232C	Setting Example 8 (page 30)	Cable Diagram 4 (page 78) <sup>*4</sup>	
		the CPU unit	K5252C	Setting Example 8 (page 30)	Cable Diagram 8 (page 89)	
	CPM2C	Peripheral port on CPM2C-CIF01	RS232C	Setting Example 12 (page 38)	Cable Diagram 9 (page 90)	
	CI M2C	RS232C port on CPM2C-CIF01	RS232C	Setting Example 13 (page 40)	Cable Diagram 3 (page 77)	
		RS232C port on CPM2C- CIF11	RS232C	Setting Example 14 (page 42)	Cable Diagram 3 (page 77)	
		Terminal block on CPM2C-CIF11	RS422/485 (4wire)	Setting Example 15 (page 44)	Cable Diagram 10 (page 91)	
SYSMACC	CQM1H-CPU11 CQM1H-CPU21	Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 30)	Cable Diagram 9 (page 90)	
ST SMAC C			K5252C	Setting Example 8 (page 30)	Cable Diagram 8 (page 89)	
		RS232C port on the CPU unit	RS232C	Setting Example 9 (page 32)	Cable Diagram 3 (page 77)	
		Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 30)	Cable Diagram 9 (page 90)	
				Setting Example 8 (page 30)	Cable Diagram 8 (page 89)	
	CQM1H-CPU51 CQM1H-CPU61	RS232C port on the CPU unit	RS232C	Setting Example 9 (page 32)	Cable Diagram 3 (page 77)	
		RS232C port on CQM1H-SCB41	RS232C	Setting Example 16 (page 46)	Cable Diagram 3 (page 77)	
		RS422A/485 port on CQM1H-SCB41	RS422/485 (4wire)	Setting Example 17 (page 48)	Cable Diagram 11 (page 96) <sup>*5</sup>	

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 50)	Cable Diagram 3 (page 77)
		C200HW-COM02- V1	RS232C	Setting Example 19 (page 52)	Cable Diagram 3 (page 77)
	C200HE-CPU42 C200HG-CPU63	C200HW-COM03- V1	RS422 (4wire)	Setting Example 20 (page 54)	Cable Diagram 11 (page 96)
	C200HG-CPU43 C200HX-CPU64 C200HX-CPU44	C200HW-COM04- V1	RS232C	Setting Example 19 (page 52)	Cable Diagram 3 (page 77)
	C200HE-CPU42-Z C200HG-CPU63-Z	C200HW-COM05- V1	RS232C	Setting Example 19 (page 52)	Cable Diagram 3 (page 77)
	C200HG-CPU43-Z C200HX-CPU85-Z C200HX-CPU65-Z	C200HW-COM06-	RS232C	Setting Example 19 (page 52)	Cable Diagram 3 (page 77)
	C200HX-CPU64-Z C200HX-CPU44-Z	V1	RS422 (4wire)	Setting Example 20 (page 54)	Cable Diagram 11 (page 96)
		C200H-LK201-V1		Setting Example 1 (page 11)	Cable Diagram 1 (page 71)
		C200H-LK202-V1	RS422 (4wire)	Setting Example 2 (page 15)	Cable Diagram 2 (page 72)
SYSMAC $\alpha$	C200HX-CPU34 C200HX-CPU54 C200HX-CPU34-Z C200HX-CPU34-Z C200HE-CPU32 C200HE-CPU32 C200HG-CPU33 C200HG-CPU33-Z C200HG-CPU53 C200HG-CPU53-Z	C200HW-COM02- V1	RS232C	Setting Example 19 (page 52)	Cable Diagram 3 (page 77)
		C200HW-COM03- V1	RS422 (4wire)	Setting Example 20 (page 54)	Cable Diagram 11 (page 96)
		C200HW-COM04- V1	RS232C	Setting Example 19 (page 52)	Cable Diagram 3 (page 77)
		C200HW-COM05- V1	RS232C	Setting Example 19 (page 52)	Cable Diagram 3 (page 77)
		C200HW-COM06-	RS232C	Setting Example 19 (page 52)	Cable Diagram 3 (page 77)
		V1	RS422 (4wire)	Setting Example 20 (page 54)	Cable Diagram 11 (page 96)
		C200H-LK201-V1	RS232C	Setting Example 1 (page 11)	Cable Diagram 1 (page 71)
		C200H-LK202-V1	RS422 (4wire)	Setting Example 2 (page 15)	Cable Diagram 2 (page 72)
	C200HE-CPU11	C200H-LK201-V1	RS232C	Setting Example 1 (page 11)	Cable Diagram 1 (page 71)
	C200HE-CPU11-Z	C200H-LK202-V1	RS422 (4wire)	Setting Example 2 (page 15)	Cable Diagram 2 (page 72)

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
	CV500 CV1000 CV2000 CVM1 CVM1D	CV500-LK201	RS232C (connecting port 2)	Setting Example 21 (page 56)	Cable Diagram 1 (page 71)
			RS232C (connecting port 2)	Setting Example 22 (page 58)	Cable Diagram 12 (page 101)
SYSMAC CV			RS422/485 (4wire) (connecting port 2)	Setting Example 23 (page 60)	Cable Diagram 13 (page 102)
		Link I/F on the CPU unit <sup>*6</sup>	RS232C	Setting Example 24 (page 62)	Cable Diagram 12 (page 101)
			RS422/485 (4wire)	Setting Example 25 (page 64)	Cable Diagram 13 (page 102)

\*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.

IMPORTANT I	•	For SYSMAC- $\alpha$ Series	s, 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.

# COM Port of IPC

When connecting IPC with External Device, the COM port which can be used changes with series and SIO type. Please refer to the manual of IPC for details.

#### Usable port

Series	Usable port				
Conco	RS-232C	RS-422/485(4 wire)	RS-422/485(2 wire)		
PS-2000B	COM1 <sup>*1</sup> , COM2, COM3 <sup>*1</sup> , COM4	-	-		
PS-3450A, PS-3451A	COM1, COM2 <sup>*1*2</sup>	COM2 <sup>*1*2</sup>	COM2 <sup>*1*2</sup>		
PS-3650A, PS-3651A	COM1 <sup>*1</sup>	-	-		
PS-3700A (Pentium®4-M) PS-3710A	COM1 <sup>*1</sup> , COM2 <sup>*1</sup> , COM3 <sup>*2</sup> , COM4	COM3 <sup>*2</sup>	COM3 <sup>*2</sup>		
PS-3711A	COM1 <sup>*1</sup> , COM2 <sup>*2</sup>	COM2 <sup>*2</sup>	COM2 <sup>*2</sup>		
PL-3000B	COM1 <sup>*1*2</sup> , COM2 <sup>*1</sup> , COM3, COM4	COM1*1*2	COM1*1*2		

\*1 The RI/5V can be switched. Please switch with the change switch of IPC.

\*2 It is necessary to set up the SIO type with the Dip switch. Please set up as follows according to SIO type to be used.

#### Dip switch setting: RS-232C

Dip switch	Setting	Description	
1	OFF <sup>*1</sup>	Reserve (always OFF)	
2	OFF	SIO type: RS-232C	
3	OFF	510 type. R5-252e	
4	OFF	Output mode of SD (TXD) data: Always output	
5	OFF	Terminal resistance (220 $\Omega$ ) insertion to SD (TXD): None	
6	OFF	Terminal resistance (220 $\Omega$ ) insertion to RD (RXD): None	
7	OFF	Short-circuit of SDA (TXA) and RDA (RXA): Does not Exist	
8	OFF	Short-circuit of SDB (TXB) and RDB (RXB): Does not Exist	
9	OFF	RS (RTS) Auto control mode: Disable	
10	OFF	KS (K1S) Auto control mode: Disable	

\*1 It is necessary to turn ON the set value, only when using PS-3450A and PS-3451A.

# Dip switch setting: RS-422/485 (4 wire)

Dip switch	Setting	Description	
1	OFF	Reserve (always OFF)	
2	ON	SIO type: RS-422/485	
3	ON	510 type. K5-422/405	
4	OFF	Output mode of SD (TXD) data: Always output	
5	OFF	Terminal resistance (220 $\Omega$ ) insertion to SD (TXD): None	
6	OFF	Terminal resistance (220 $\Omega$ ) insertion to RD (RXD): None	
7	OFF	Short-circuit of SDA (TXA) and RDA (RXA): Does not Exist	
8	OFF	Short-circuit of SDB (TXB) and RDB (RXB): Does not Exist	
9	OFF	PS (PTS) Auto control mode: Dischla	
10	OFF	NS (NIS) Auto control mode. Disable	

# Dip switch setting: RS-422/485 (2 wire)

Dip switch	Setting	Description
1	OFF	Reserve (always OFF)
2	ON	SIO type: PS 422/485
3	ON	510 type. N5-422/405
4	OFF	Output mode of SD (TXD) data: Always output
5	OFF	Terminal resistance (220 $\Omega$ ) insertion to SD (TXD): None
6	OFF	Terminal resistance (220 $\Omega$ ) insertion to RD (RXD): None
7	ON	Short-circuit of SDA (TXA) and RDA (RXA): Exist
8	ON	Short-circuit of SDB (TXB) and RDB (RXB): Exist
9	ON	RS (RTS) Auto control mode: Enable
10	ON	NS (NIS) Auto control mode. Endole

# 2 Selection of External Device

Select the External Device to be connected to the Display.

ð	🕯 New Proje	ct File
	-Device/PL	C
	Maker	OMRON Corporation
	Driver	C/CV Series HOST Link
	🗖 Use S	ystem Area <u>Refer to the manual of this Device/PLC</u>
	Connection Port	Method COM1
		Go to Device/PLC Manual
	Back	Communication Detail Settings Cancel

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.			
Use System Area	<ul> <li>"1 System Configuration" (page 3)</li> <li>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.</li> <li>Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"</li> <li>This can be also set with GP-Pro EX or in off-line mode of the Display.</li> <li>Cf. GP-Pro EX Reference Manual "System Area Setting, 5.14.6 Setting Guide of [System Setting Window]"</li> <li>Cf. Maintenance/Troubleshooting "2.14.1 Settings common to all Display models \$\$System Area Settings"</li> </ul>			
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 Corp	poration	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	0.1	• 2				
Flow Control	C NONE	ER(DTR/CTS) O XON/XOFF				
Timeout	3 📫 (;	sec)				
Retry	2 ÷					
Wait To Send	0 🔅 (r	ms)				
RI / VCC	• RI	© VCC				
In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	2C, you can selec Supply). If you use e select it to VCC.	et the 9th pin to RI (Input) e the Digital's RS232C Default				
Device-Specific Settings	Device-Specific Settings					
Allowable No. of Devi	ce/PLCs_16 Unit(	s) 📊				
No. Device Nan	ne	Settings Seties=CV Link,Unit No.=0,Change to Monitor Mode=DN				

#### 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	O CVI	.ink	
Please reconfirr if you have cha	m all of address : nged the series.	settings that y	ou are using	
Unit No.	0 +	[		
Operating Mode	🔽 Change to	Monitor Mode		
You can write o	lata only in Moni	tor Mode in O	perating mode.	
			Default	
	OK	0)	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 gread 10 2Khrs
SW3	ON	Transmission speed. 19.2Kops
SW4	OFF	
SW5	OFF	Unused
SW6	OFF	1:N step
SW7	ON	Lovel 1, 2, 3 Enchlad
SW8	ON	Level 1, 2, 3 Enabled
	1	
DIP Switch 3	Settings	Setup Description
DIP Switch 3 SW1	Settings ON	Setup Description
DIP Switch 3 SW1 SW2	Settings ON OFF	Setup Description CTS always ON
DIP Switch 3 SW1 SW2 SW3	Settings ON OFF ON	Setup Description CTS always ON
DIP Switch 3 SW1 SW2 SW3 SW4	Settings ON OFF ON OFF	Setup Description CTS always ON
DIP Switch 3 SW1 SW2 SW3 SW4 SW5	Settings ON OFF ON OFF ON	CTS always ON Internally synchronized
DIP Switch 3 SW1 SW2 SW3 SW4 SW5 SW6	Settings ON OFF ON OFF ON OFF	Setup Description CTS always ON Internally synchronized
DIP Switch 3 SW1 SW2 SW3 SW4 SW5 SW6 SW7	Settings ON OFF ON OFF OFF OFF	Setup Description CTS always ON Internally synchronized

# 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						
Sum	mary				Change Device/PLC	
	Maker OMRON Cor	poration	Series C/C	/ 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	<b>T</b>			
	Data Length	• 7	O 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	© RI	O VCC			
	In the case of RS23 or VCC (5V Power 1 Isolation Unit, pleas	32C, you can selec Supply). If you use e select it to VCC.	at the 9th pin to RI (Inpu the Digital's RS232C	ut) Default	1	
Devi						
Devi	Allowable No. of Device/PLCs 16 Unit(s)					
	No. Device Nar	me	Settings			
	👗 i jplch		Series=UV	Link,Unit No.=0,Change to Moni	or Mode=UN	

#### 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			
Please recon if you have cl	firm all of address sett hanged the series.	tings that you are using			
Unit No.	0 🛨				
Operating Mode	🔽 Change to Mo	onitor Mode			
You can writ	e data only in Monitor	Mode in Operating mode.			
		Default			
	OK ( <u>D</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	Ondsed
SW8	ON	Operation

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

• 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	Attach termination resistance
SW5	ON	
SW6	OFF	
SW7	OFF	Unused
SW8	OFF	Onused

• In Other Cases

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

# 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.

Devic	e/PLC1				
Sumr	mary				Change Device/PLC
	Maker OMRON Corp	ooration	Series C/C	V Series HOST Link	Port COM1
	Text Data Mode	3 <u>Change</u>			
Comr	munication Settings				
	SIO Type	• RS232C	O RS422/485(2wire	e) 🔿 RS422/485(4wire)	
	Speed	19200	•		
	Data Length	€ 7	O 8		
	Parity	C NONE	EVEN	O ODD	
	Stop Bit	0.1	● 2		
	Flow Control	C NONE	ER(DTR/CTS)	C XON/XOFF	
	Timeout	3 ÷ (s	sec)		
	Retry	2 ÷			
	Wait To Send	0 🔅 (n	ms)		
	RI / VCC	• RI	O VCC		
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	2C, you can select Supply). If you use e select it to VCC.	et the 9th pin to RI (Inpi e the Digital's RS232C	ut) Default	
Devi	ce-Specific Settings				
	Allowable No. of Devi	ce/PLCs_16 Unit(s	(s) 🔣		
[	No. Device Nan	ne	Settings	/ Link Unit No −0 Change to Monitor	Mode-ON
	n i i con		The locues=CA	charge to Monitor	11000-014

#### 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	e Settings	×
PLC1		
Series	C Link	O CV Link
Please reconf if you have ch	irm all of address s anged the series.	ettings that you are using
Unit No.	0 🚦	
Operating Mode	🔽 Change to l	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.

Devic	e/PLC1				
Sumr	mary				Change Device/PLC
	Maker OMRON Corp	ooration	Series C/C	V Series HOST Link	Port COM1
	Text Data Mode	3 <u>Change</u>			
Comr	munication Settings				
	SIO Type	• RS232C	C RS422/485(2wire	e) 🔿 RS422/485(4wire)	
	Speed	19200	•		
	Data Length	€ 7	O 8		
	Parity	C NONE	EVEN	O ODD	
	Stop Bit	0.1	● 2		
	Flow Control	C NONE	ER(DTR/CTS)	C XON/XOFF	
	Timeout	3 ÷ (s	sec)		
	Retry	2 ÷			
	Wait To Send	0 🔅 (n	ms)		
	RI / VCC	• RI	O VCC		
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	2C, you can select Supply). If you use e select it to VCC.	et the 9th pin to RI (Inpi e the Digital's RS232C	ut) Default	
Devi	ce-Specific Settings				
	Allowable No. of Devi	ce/PLCs_16 Unit(s	(s) 🔣		
[	No. Device Nan	ne	Settings	/ Link Unit No −0 Change to Monitor	Mode-ON
	n i i con		The laces=r.A	charge to Monitor	11000-014

#### 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	e Settings	×
PLC1		
Series	C Link	O CV Link
Please reconf if you have ch	irm all of address s anged the series.	ettings that you are using
Unit No.	0 🕂	
Operating Mode	🔽 Change to l	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 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)	EX) 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/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	<b>•</b>
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
In or Is	n the case of RS23 r VCC (5V Power 9 solation Unit, please	2C, you can selec Supply). If you use e select it to VCC.	ct the 9th pin to RI (Input) e the Digital's RS232C Default
Device-9	Specific Settings		
Allo	wable No. of Devi	ce/PLCs_16 Unit(	(s) 📷
V	No. Device Nan	ne	Settings
db			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 Devid	e Settings		×
PLC1			
Series	C Link	O CV Link	
Please reconfi if you have ch	irm all of address s anged the series.	ettings that you are	using
Unit No.	0 🛨		
Operating Mode	🔽 Change to l	Monitor Mode	
You can write	data only in Monit	or Mode in Operatir	ng mode.
		De	fault
	OK (	<u>0)</u> Cano	el

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
DIP Switch 2 SW1 SW2	Settings OFF OFF	Setup Description
DIP Switch 2 SW1 SW2 SW3	Settings OFF OFF ON	Setup Description Transmission speed: 19.2Kbps
DIP Switch 2 SW1 SW2 SW3 SW4	Settings OFF OFF ON OFF	Setup Description Transmission speed: 19.2Kbps
DIP Switch 2 SW1 SW2 SW3 SW4 SW5	Settings OFF OFF ON OFF OFF	Setup Description Transmission speed: 19.2Kbps Unused
DIP Switch 2 SW1 SW2 SW3 SW4 SW5 SW6	Settings OFF OFF ON OFF OFF	Setup Description Transmission speed: 19.2Kbps Unused 1:N step
DIP Switch 2 SW1 SW2 SW3 SW4 SW5 SW6 SW7	Settings OFF OFF ON OFF OFF OFF	Setup Description Transmission speed: 19.2Kbps Unused 1:N step

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 hit data langth 2 stop hits Evan
SW7	OFF	7-on data lengui, 2 stop ons, Even
SW8	OFF	Normal
DIP Switch 2	Settings	Setup Description
DIP Switch 2 SW1	Settings OFF	Setup Description
DIP Switch 2 SW1 SW2	Settings OFF OFF	Setup Description
DIP Switch 2 SW1 SW2 SW3	Settings OFF OFF ON	Setup Description Transmission speed: 19.2Kbps
DIP Switch 2 SW1 SW2 SW3 SW4	Settings OFF OFF ON OFF	Setup Description Transmission speed: 19.2Kbps
DIP Switch 2 SW1 SW2 SW3 SW4 SW5	Settings OFF OFF ON OFF ON	Setup Description Transmission speed: 19.2Kbps System #0
DIP Switch 2 SW1 SW2 SW3 SW4 SW5 SW6	Settings OFF OFF ON OFF ON OFF	Setup Description Transmission speed: 19.2Kbps System #0 1:N step
DIP Switch 2 SW1 SW2 SW3 SW4 SW5 SW6 SW6 SW7	Settings OFF OFF ON OFF ON OFF ON	Setup Description Transmission speed: 19.2Kbps System #0 1:N step Lavel 1.2.2 Enabled

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.

Devic	e/PLC1				
Sum	mary				Change Device/PLC
	Maker OMRON Cor	poration	Series C/C	/ Series HOST Link	Port COM1
	Text Data Mode	3 <u>Change</u>			
Com	munication Settings				
	SIO Type	C RS232C	C RS422/485(2wire	) 💿 RS422/485(4wire)	
	Speed	19200	<b>T</b>		
	Data Length	7     7	08		
	Parity	C NONE	EVEN	C ODD	
	Stop Bit	O 1	• 2		
	Flow Control	C NONE	ER(DTR/CTS)	C XON/XOFF	
	Timeout	3 📫 (s	sec)		
	Retry	2 +			
	Wait To Send	n) 🗧 🛛	ms)		
	RI / VCC	© BI	O VCC		
	In the case of RS23	32C, you can selec Supply). If you you	t the 9th pin to RI (Inpu	it)	
	Isolation Unit, pleas	e select it to VCC.	e trie Digitalis Hozozo	Default	
Devi	ce-Specific Settings				
	Allowable No. of Devi	ice/PLCs_16 Unit(	s) 🚮		
	No. Device Nar	me	Settings	Link Unit No -0 Change to Monity	or Mode-ON
	n hreet		TIL ISENES=CA	Enix, on kinko o, on ange (0 Monit	//////////////////////////////////////

#### 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
Please recon if you have c	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
DIP Switch 2 SW1 SW2	Settings OFF OFF	Setup Description
DIP Switch 2 SW1 SW2 SW3	Settings OFF OFF ON	Setup Description Transmission speed: 19.2Kbps
DIP Switch 2 SW1 SW2 SW3 SW4	Settings OFF OFF ON OFF	Setup Description Transmission speed: 19.2Kbps
DIP Switch 2 SW1 SW2 SW3 SW4 SW5	Settings OFF OFF ON OFF OFF	Setup Description Transmission speed: 19.2Kbps Unused
DIP Switch 2 SW1 SW2 SW3 SW4 SW5 SW6	Settings OFF OFF ON OFF OFF	Setup Description Transmission speed: 19.2Kbps Unused 1:N step
DIP Switch 2 SW1 SW2 SW3 SW4 SW5 SW6 SW7	Settings OFF OFF ON OFF OFF OFF	Setup Description Transmission speed: 19.2Kbps Unused 1:N step Level 1, 2, 3 Enabled

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	
SW3	OFF	Unit No.: 0
SW4	OFF	
SW5	OFF	
SW6	OFF	7 hit data langth 2 stop hits Even
SW7	OFF	7-on data lengui, 2 stop ons, Even
SW8	OFF	Normal
DIP Switch 2	Settings	Setup Description
DIP Switch 2 SW1	Settings OFF	Setup Description
DIP Switch 2 SW1 SW2	Settings OFF OFF	Setup Description
DIP Switch 2 SW1 SW2 SW3	Settings OFF OFF ON	Setup Description Transmission speed: 19.2Kbps
DIP Switch 2 SW1 SW2 SW3 SW4	Settings OFF OFF ON OFF	Setup Description Transmission speed: 19.2Kbps
DIP Switch 2 SW1 SW2 SW3 SW4 SW5	Settings OFF OFF ON OFF ON	Setup Description Transmission speed: 19.2Kbps System #0
DIP Switch 2 SW1 SW2 SW3 SW4 SW5 SW6	Settings OFF OFF ON OFF ON OFF	Setup Description Transmission speed: 19.2Kbps System #0 1:N step
DIP Switch 2 SW1 SW2 SW3 SW4 SW5 SW6 SW6 SW7	Settings OFF OFF ON OFF ON OFF ON	Setup Description Transmission speed: 19.2Kbps System #0 1:N step Lavel 1, 2, 3 Enabled

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	e/PLC 1		
Sum	mary		Change Device/PLC
	Maker OMRON Cor	poration	Series C/CV Series HDST Link Port COM1
	Text Data Mode	3 <u>Change</u>	
Com	munication Settings		
	SIO Type	RS232C	O RS422/485(2wire) O RS422/485(4wire)
	Speed	9600	
	Data Length	⊙ 7	0.8
	Parity	C NONE	EVEN     O ODD
	Stop Bit	O 1	• 2
	Flow Control	C NONE	ER(DTR/CTS)     C XON/XOFF
	Timeout	3 📫 (s	sec)
	Retry	2 +	
	Wait To Send	n) 🗧 🛛 🔾	ms)
	RI / VCC	• BI	O VCC
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, pleas	)2C, you can selec Supply). If you use e select it to VCC.	t the 9th pin to RI (Input) ⊧ the Digital's RS232C Default
Dev	ice-Specific Settings		
	Allowable No. of Devi	ce/PLCs_16 Unit(	s) 📷
	No. Device Nar	ne	Settings
	M ' FLUI		Joenes=C Link, Unit No.=0, Change to Monitor Mode=UN

#### 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
Please reconf if you have ch	irm all of address s anged the series.	ettings that you are using
Unit No.	0 📫	
Operating Mode	🔽 Change to I	Monitor Mode
You can write	data only in Monito	or Mode in Operating mode.
		Default
	OK (	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				Change Device/PLC
	Maker OMRON Corp	ooration	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)	RS422/485(4wire)	
	Speed	19200	•		
	Data Length	● 7	C 8		
	Parity	C NONE	• EVEN O 0	DD	
	Stop Bit	O 1	⊙ 2		
	Flow Control	C NONE	• ER(DTR/CTS) • C ×	DN/XOFF	
	Timeout	3 📫 (s	ec)		
	Retry	2 📫			
	Wait To Send	0 🕂 (n	[8]		
	RI / VCC	• RI	O VCC		
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	2C, you can select Supply). If you use e select it to VCC.	the 9th pin to RI (Input) the Digital's RS232C	Default	
Devi	ice-Specific Settings				
	Allowable No. of Devi	ce/PLCs_16Unit(s			
	No. Device Nan	ne	Settings	it No.=0.Change to Monitor I	Mode=0N
			HEL JELLIOU OF LINKON		

#### 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
Please reco if you have (	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>0</u> ) 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.

Devic	e/PLC1				
Sumr	mary		Change Device/PLC		
	Maker OMRON Corp	poration	Series C/CV Series HOST Link Port COM1		
	Text Data Mode	3 <u>Change</u>			
Comr	munication Settings				
	SIO Type	RS232C	O RS422/485(2wire) O RS422/485(4wire)		
	Speed	19200			
	Data Length	• 7	O 8		
	Parity	O NONE	© EVEN O ODD		
	Stop Bit	O 1	© 2		
	Flow Control	○ NONE	ER(DTR/CTS)     C XON/XOFF		
	Timeout	3 📫 (s	(sec)		
	Retry	2 .			
	Wait To Send	0 ÷ (r	(ms)		
	RI / VCC	• BI	O VCC		
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	32C, you can selec Supply). If you use e select it to VCC.	ct the 9th pin to RI (Input) e the Digital's RS232C Default		
Devi	Device-Specific Settings				
	Allowable No. of Devi	ce/PLCs_16 Unit(	(s) 📊		
ſ	No. Device Nar	ne	Settings Series-O/Link Link No -0 Change to Maniter Made-ON		
			Jenes-CV Link, Unit No.=0, Change to Monitor Mode=UN		

#### 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	O CV Link		
Please recon if you have cl	firm all of address se hanged the series.	ettings that you are using		
Unit No.	0 +			
Operating Mode	🔽 Change to M	Monitor Mode		
You can writ	e data only in Monito	or Mode in Operating mode.		
		Default		
	OK ((	0) 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.

Device/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	19200	▼		
	Data Length	• 7	0.8		
	Parity	O NONE	EVEN     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	• BI	O VCC		
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	32C, you can selec Supply). If you use e select it to VCC.	st the 9th pin to RI (Input) e the Digital's RS232C Default		
Devi	Device-Specific Settings				
	Allowable No. of Devi	ce/PLCs 16 Unit(:	(s) 📊		
	No. Device Nar	ne			
	M PLCI		Useries=UV Link,Unit No.=U,Uhange to Monitor Mode=UN		

#### 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	O CV Link			
Please reconfi if you have ch	irm all of address s anged the series.	settings that you are usi	ng		
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 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.

Devic	e/PLC1				
Summary Change Device/PLC					
	Maker OMRON Cor	poration	Series C/C	/ Series HOST Link	Port COM1
	Text Data Mode	3 <u>Change</u>			
Com	munication Settings				
	SIO Type	C RS232C	C RS422/485(2wire	) 💿 RS422/485(4wire)	
	Speed	19200	<b>T</b>		
	Data Length	7     7	08		
	Parity	C NONE	EVEN	C ODD	
	Stop Bit	O 1	• 2		
	Flow Control	C NONE	ER(DTR/CTS)	C XON/XOFF	
	Timeout	3 📫 (s	sec)		
	Retry	2 +			
	Wait To Send	n) 🗧 🛛	ms)		
	RI / VCC	© BI	O VCC		
	In the case of RS23	32C, you can selec Supply). If you you	t the 9th pin to RI (Inpu	it)	
	Isolation Unit, pleas	e select it to VCC.	e trie Digitalis Hozozo	Default	
Device-Specific Settinas					
	Allowable No. of Device/PLCs 16 Unit(s)				
	No. Device Nar	me	Settings	Link Unit No -0 Change to Monity	r 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	C CV Link		
Please recon if you have cl	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 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	/PLC1				
Summ	hary				Change Device/PLC
N	daker OMRON Corp	oration	Series C/CV	'Series HOST Link	Port COM1
Т	「ext Data Mode	3 <u>Change</u>			
Comm	unication Settings				
9	О Туре	RS232C	C RS422/485(2wire)	C RS422/485(4wire)	
9	Speed	19200	-		
0	) ata Length	7	C 8		
F	Parity	C NONE	EVEN	O ODD	
9	Stop Bit	O 1	⊙ 2		
F	Flow Control	O NONE	ER(DTR/CTS)	C XON/XOFF	
Т	limeout	3 📫 (s	ec)		
F	Retry	2 🔅			
V	Wait To Send	n) 🗧 (n	ns)		
F	RI / VCC	🖲 BI	O VCC		
	In the case of RS23 or VCC (5V Power S Isolation Unit, please	2C, you can select jupply). If you use select it to VCC.	the 9th pin to RI (Inpu the Digital's RS232C	t) Default	
Devic	e-Specific Settings				
A	Allowable No. of Devic	ce/PLCs_16 Unit(s	i) 📷		
L.	No.     Device Name     Settings       1     PLC1     Feries=CV Link,Unit No.=0,Change to Monitor Mode=0N				

#### 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 C CV Link
Please reci if you have	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

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				
Sumr	mary				Change Device/PLC
	Maker OMRON Corp	ooration	Series C/C	V Series HOST Link	Port COM1
	Text Data Mode	3 <u>Change</u>			
Comr	munication Settings				
	SIO Type	• RS232C	O RS422/485(2wire	e) 🔿 RS422/485(4wire)	
	Speed	19200	•		
	Data Length	€ 7	O 8		
	Parity	C NONE	EVEN	O ODD	
	Stop Bit	0.1	● 2		
	Flow Control	C NONE	ER(DTR/CTS)	C XON/XOFF	
	Timeout	3 ÷ (s	sec)		
	Retry	2 ÷			
	Wait To Send	0 📑 (n	ms)		
	RI / VCC	• RI	O VCC		
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	2C, you can select Supply). If you use e select it to VCC.	et the 9th pin to RI (Inpi e the Digital's RS232C	ut) Default	
Devi	Device-Specific Settings				
	Allowable No. of Devi	ce/PLCs_16 Unit(s	(s) 🔣		
[	No. Device Name Settings 1 ELC1 III Control C				
	n i i con		The laces=r.A	charge to Monitor	11000-014

#### 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
Please recon if you have cl	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 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/	PLC 1				
Summa	ary		Change D	evice/PLC	
м	aker OMRON Corp	poration	Series C/CV Series HOST Link Port COM1		
T	ext Data Mode 🛛	3 Change			
Commu	unication Settings				
SI	Ю Туре	RS232C	O RS422/485(2wire) O RS422/485(4wire)		
S	peed	19200	▼		
D	ata Length	● 7	0.8		
P	arity	C NONE	EVEN     ODD		
SI	top Bit	O 1	© 2		
FI	ow Control	C NONE	ER(DTR/CTS) O XON/XOFF		
Ti	imeout	3 🕂 (s	sec)		
R	etry	2 🔅			
W	/ait To Send	0 📫 (n	ms)		
R	I / VCC	• RI	O VCC		
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	2C, you can select supply). If you use select it to VCC.	t the 9th pin to RI (Input) the Digital's RS232C Default		
Device	Device Specific Settinge				
A	llowable No. of Devic	ce/PLCs 16 Unit(s	s) 🚛		
	No. Device Nam	ìe	Settings		
ð	I 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	_
Please recon if you have cl	irm all of address settings that you are using anged 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 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.

Devid	e/PLC 1						
Sum	imary				Change Device/PLC		
	Maker OMRON Cor	poration	Series C/C	V Series HOST Link	Port COM1		
	Text Data Mode	3 <u>Change</u>					
Corr	munication Settings						
	SIO Type	C RS232C	C RS422/485(2wire	e) 💿 RS422/485(4wire)			
	Speed	19200	<b>T</b>				
	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	sec)				
	Retry	2 +					
	Wait To Send	0 ÷ (r	ns)				
	RI / VCC	© RI	O VCC				
	In the case of RS23 or VCC (5V Power )	32C, you can selec Supplu). If you use	t the 9th pin to RI (Inpu the Digital's BS2320	lt]			
	Isolation Unit, pleas	e select it to VCC.	the bigitare frezeze	Default			
Dev	Device-Specific Settings						
	Allowable No. of Devi	ice/PLCs_16 Unit(	s) 🚮				
	No. Device Nar	me	Settings	Link Unit No.=0.Change to Monito	pr Mode=ON		
			ALL IN THE FL				

#### 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
Please recon if you have cl	irm all of address settings that you are using nanged the series.
Unit No.	0 -
Operating Mode	Change to Monitor Mode
You can writ	edata only in Monitor Mode in Operating mode.
	Default
	OK ( <u>0</u> ) 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 whe communication
SW3	OFF	PS control function of the CDU unit
SW4	ON	KS control function of the CFO unit

## 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.

Devic	e/PLC1					
Sum	mary				Change Device/PLC	
	Maker OMRON Corp	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(2	wire) 🔿 RS422/485(4wire)		
	Speed	19200	•			
	Data Length	• 7	O 8			
	Parity	O NONE	• EVEN	O ODD		
	Stop Bit	O 1	● 2			
	Flow Control	O NONE	• ER(DTR/CTS	i) O XON/XOFF		
	Timeout	3 📫 (s	sec)			
	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	12C, you can select Supply). If you use e select it to VCC.	t the 9th pin to RI ( the Digital's RS23	Input) 2C Default	1	
Devi	Device-Specific Settings					
	Allowable No. of Device/PLCs 16 Unit(s) 📷					
	No. Device Nan	ne	Settings	-CV Link Unit No -0 Change to Moni	tor Mode=0N	

#### 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
Please recon if you have cl	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.

Device/	PLC 1					
Summa	iry				Change Device/PLC	
Ma	aker OMRON Corp	poration	Series C/C	CV Series HOST Link	Port COM1	
Τe	ext Data Mode 🛛	3 <u>Change</u>				
Commu	inication Settings					
SI	О Туре	C RS232C	C RS422/485(2wir	e) • RS422/485(4wire)		
Sp	peed	19200	<b>T</b>			
Da	ata Length	7	C 8			
Pa	arity	C NONE	EVEN	O ODD		
St	op Bit	O 1				
Flo	ow Control	C NONE	• ER(DTR/CTS)	C XON/XOFF		
Tir	meout	3 ÷ (s	ec)			
Re	etry	2 ÷				
W	ait To Send	n) 🗧 🛛	ns)			
RI I I	/ VCC in the case of RS23 or VCC (5V Power 9 isolation Unit, please	RI 2C, you can select supply). If you use a select it to VCC.	C VCC t the 9th pin to RI (Inp the Digital's RS232C	put) Default	E	
Device	-Specific Settings		. 🖃			
All	lowable No. of Devi No. Device Nan	ce/PLCs 16 Unit(: ne	s) 🛄 Settinas			
ă	1 PLC1		Series=C	V Link,Unit No.=0,Change to M	onitor 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	ice Settings	×
PLC1		
Series	C Link	C CV Link
Please recon if you have cl	firm all of address sett hanged the series.	tings that you are using
Unit No.	0 🛨	
Operating Mode	🔽 Change to Mo	onitor Mode
You can writ	e data only in Monitor	Mode in Operating mode.
		Default
	OK ( <u>D</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.

Device/	PLC 1					
Summa	ary		Change D	evice/PLC		
м	aker OMRON Corp	poration	Series C/CV Series HOST Link Port COM1			
T	ext Data Mode 🛛	3 Change				
Commu	unication Settings					
SI	Ю Туре	RS232C	O RS422/485(2wire) O RS422/485(4wire)			
S	peed	19200	▼			
D	ata Length	● 7	0.8			
P	arity	C NONE	EVEN     ODD			
SI	top Bit	O 1	© 2			
FI	ow Control	C NONE	ER(DTR/CTS) O XON/XOFF			
Ti	imeout	3 🕂 (s	sec)			
R	etry	2 🔅				
W	/ait To Send	0 📫 (n	ms)			
R	I / VCC	• RI	O VCC			
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	2C, you can select supply). If you use select it to VCC.	t the 9th pin to RI (Input) the Digital's RS232C Default			
Device						
A	Allowable No. of Device/PLCs 16 Unit(s)					
	No. Device Nam	ìe	Settings			
ð	I 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
Please recon if you have cl	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				
Sumr	mary				Change Device/PLC
	Maker OMRON Corp	ooration	Series C/C	V Series HOST Link	Port COM1
	Text Data Mode	3 <u>Change</u>			
Comr	munication Settings				
	SIO Type	• RS232C	O RS422/485(2wire	e) 🔿 RS422/485(4wire)	
	Speed	19200	•		
	Data Length	€ 7	O 8		
	Parity	C NONE	EVEN	O ODD	
	Stop Bit	0.1	● 2		
	Flow Control	C NONE	ER(DTR/CTS)	C XON/XOFF	
	Timeout	3 ÷ (s	sec)		
	Retry	2 ÷			
	Wait To Send	0 🔅 (n	ms)		
	RI / VCC	• RI	O VCC		
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	2C, you can select Supply). If you use e select it to VCC.	et the 9th pin to RI (Inpi e the Digital's RS232C	ut) Default	
Devi	Device-Specific Settings				
	Allowable No. of Devi	ce/PLCs_16 Unit(s	(s) 🔣		
[	No. Device Nan	ne	Settings	/ Link Unit No −0 Change to Monitor	Mode-ON
	n i i con		The laces=r.A	charge to Monitor	11000-014

#### 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
Please recon if you have cl	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.

#### 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					
Summ	ary				Change Device/PLC	
M	laker OMRON Cor	poration	Series C/C	/ Series HOST Link	Port COM1	
T	ext Data Mode	3 <u>Change</u>				
Comm	unication Settings					
S	Ю Туре	O R\$232C	C RS422/485(2wire	) 💿 RS422/485(4wire)		
S	peed	19200	-			
D	)ata Length	• 7	O 8			
P	Parity	O NONE	EVEN	C ODD		
S	itop Bit	O 1	• 2			
F	low Control	O NONE	ER(DTR/CTS)	C XON/XOFF		
Т	imeout	3 🔹 (s	sec)			
R	letry	2 .				
٧	Vait To Send	n) ÷ 0	ns)			
B	N / VCC	© BI	O VCC			
	In the case of RS23 or VCC (BV Power 9	12C, you can selec Supplu), If you use	t the 9th pin to RI (Inpu the Digital's BS2320	ut]		
	Isolation Unit, pleas	e select it to VCC.	the Digitars Hozozo	Default		
Device	Device-Specific Settings					
A	Allowable No. of Device/PLCs 16 Unit(s)					
	No. Device Nar	ne	Settings	Link Unit No =0 Change to Monito	n Mode=ON	
0						

#### 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
Please reco if you have	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>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	/PLC1				
Summ	hary		Change Device/PLC		
N	Maker OMRON Corp	poration	Series C/CV Series HOST Link Port COM1		
T	Fext Data Mode	3 <u>Change</u>			
Comm	nunication Settings				
9	SIO Туре	• RS232C	O RS422/485(2wire) O RS422/485(4wire)		
9	Speed	19200	<b>v</b>		
۵	)ata Length	⊙ 7	O 8		
F	Parity	O NONE	EVEN C ODD		
9	Stop Bit	0.1	© 2		
F	Flow Control	O NONE	ER(DTR/CTS)     C XON/XOFF		
T	Fimeout	3 📫 (s	(sec)		
F	Retry	2 +			
١	Wait To Send	n) 🗧 O	(ms)		
F	RI / VCC	• RI	O VCC		
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	12C, you can selec Supply). If you use e select it to VCC.	ct the 9th pin to RI (Input) e the Digital's RS232C Default		
Devic	Device-Specific Settings				
A	Allowable No. of Device/PLCs 16 Unit(s) 🔢				
Г	No. Device Nam	ne	Settings Series-Ci (Link Link No0 Change to Maniter Made-ON		
	👧 ' jr.cor		Joenes-CV Enix, on it noo, change to Monitor Mode=DN		

#### 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 . ⓒ CV Link
Please reco if you have	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

When using the port 1 (RS232C)

Rotary Switch <sup>*1</sup>	Settings	Setup Description		
SW3	0	Unit No.: 0		
SW4	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	Settings Setup Description	
Termination resistance SW		Termination resistance: Without	

DIP Switch	Settings	Setup Description		
SW1	OFF	9600bps, 7-bit data length, 2 stop bits, Even parity <sup>*1</sup>		
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				
Sumr	mary				Change Device/PLC
	Maker OMRON Corp	ooration	Series C/C	V Series HOST Link	Port COM1
	Text Data Mode	3 <u>Change</u>			
Comr	munication Settings				
	SIO Type	• RS232C	O RS422/485(2wire	e) 🔿 RS422/485(4wire)	
	Speed	19200	•		
	Data Length	€ 7	O 8		
	Parity	C NONE	EVEN	O ODD	
	Stop Bit	0.1	● 2		
	Flow Control	C NONE	ER(DTR/CTS)	C XON/XOFF	
	Timeout	3 ÷ (s	sec)		
	Retry	2 ÷			
	Wait To Send	0 🔅 (n	ms)		
	RI / VCC	• RI	O VCC		
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	2C, you can select Supply). If you use e select it to VCC.	et the 9th pin to RI (Inpi e the Digital's RS232C	ut) Default	
Devi	ce-Specific Settings				
	Allowable No. of Devi	ce/PLCs_16 Unit(s	(s) 🔣		
[	No. Device Nan	ne	Settings	/ Link Unit No −0 Change to Monitor	Mode-ON
	n i i con		The locues=CA	charge to Monitor	11000-014

#### 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	rice Settings	×
PLC1		
Series	O C Link	CV Link
Please recor if you have o	nfirm all of address se hanged the series.	ettings that you are using
Unit No.	0 📫	
Operating Mode	🔽 Change to M	Monitor Mode
You can wri	te data only in Monito	or Mode in Operating mode.
		Default
	OK ((	<u>)</u> Cancel

When using the port 2 (RS232C)

Rotary Switch <sup>*1</sup>	Settings	Setup Description		
SW3	0	Unit No.: 0		
SW4	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 <sup>*1</sup>		
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						
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				
	In the case of RS23 or VCC (5V Power 9	12C, you can select Supply). If you use	t the 9th pin to RI (Inpu the Digital's BS2320	ıt)			
	Isolation Unit, please select it to VCC. Default						
Device	Device-Specific Settings						
A	Allowable No. of Device/PLCs 16 Unit(s)						
	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 **[**[Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual De	vice Settings 🛛 🗙
PLC1	
Series	O C Link 💿 CV Link
Please rec if you have	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

When using the port 2 (RS422)

Rotary Switch <sup>*1</sup>	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	
Channel toggle SW	Upper	RS422	

	Settings Setup Description	
Termination resistance SW	Upper	Termination resistance: With <sup>*1</sup>

\*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 <sup>*1</sup>
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 operati	
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			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	19200	•		
	Data Length	• 7	C 8		
	Parity	O NONE	• EVEN C ODD		
	Stop Bit	0.1	2		
	Flow Control	O NONE	• ER(DTR/CTS) C XON/XOFF		
	Timeout	3 📫 (s	ec)		
	Retry	2 ÷			
	Wait To Send	n) ÷ 0	\$]		
	RI / VCC	• RI	C 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.				
Device-Specific Settings					
	Allowable No. of Devi	ce/PLCs_16Unit(:	) 📷		
	No. Device Nar	ne	Settings	e to Monitor Mode-ON	
	🐠 , lucci		Unit Journes-Con Link, Onlich Vo 0, Chang	e to monitor mode-one	

#### 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
Please reconf if you have ch	irm all of address se anged the series.	ettings that you are using
Unit No.	0 +	
Operating Mode	🔽 Change to M	Monitor Mode
You can write	data only in Monito	or Mode in Operating mode.
		Default
	OK ((	<u>D)</u> Cancel

When connecting the RS232C port

	Settings	Setup Description
Communication Setting Toggle SW	Upper	RS232C SIO Type

DIP Switch <sup>*1</sup>	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					
Summ	ary				Change Device/PLC	
M	laker OMRON Cor	poration	Series C/C	/ Series HOST Link	Port COM1	
T	ext Data Mode	3 <u>Change</u>				
Comm	unication Settings					
S	Ю Туре	O R\$232C	C RS422/485(2wire	) 💿 RS422/485(4wire)		
S	peed	19200	-			
D	)ata Length	• 7	O 8			
P	Parity	O NONE	EVEN	C ODD		
S	itop Bit	O 1	• 2			
F	low Control	O NONE	ER(DTR/CTS)	C XON/XOFF		
Т	imeout	3 🔹 (s	sec)			
R	letry	2 .				
٧	Vait To Send	n) ÷ 0	ns)			
B	N / VCC	© BI	O VCC			
	In the case of RS232C, you can select the 9th pin to RI (Input)					
Isolation Unit, please select it to VCC. Default						
Device-Specific Settings						
Allowable No. of Device/PLCs 16 Unit(s)						
	No. Device Nar	ne	Settings	Link Unit No =0 Change to Monito	n Mode=ON	
0						

#### 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	<ul> <li>CV Link</li> </ul>
Please recont if you have ch	irm all of address s hanged the series.	ettings that you are using
Unit No.	0 🕂	
Operating Mode	🔽 Change to I	Monitor Mode
You can write	edata only in Monite	or Mode in Operating mode.
		Default
	ΟΚ (	0) Cancel

When connecting the RS422 port

	Settings	Setup Description
Communication Setting Toggle SW	Lower	RS422 SIO Type

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

\*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 11)

## 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.

Device/PLC 1				
Summary				Change Device/PLC
Maker OMRON C	orporation	Series C/CV	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			
Flow Control	O NONE	ER(DTR/CTS)	C XON/XOFF	
Timeout	3 📫 (*	sec)		
Retry	2 ÷			
Wait To Send	0 🗮 ()	ns)		
RI / VCC	• BI	O VCC		
In the case of RS or VCC (5V Powe Isolation Unit, plea	232C, you can selec r Supply). If you use ise select it to VCC.	t the 9th pin to RI (Input) the Digital's RS232C	Default	1
Device-Specific Settings				_
Allowable No. of De	vice/PLCs 16 Unit(	s) 🔢		
No. Device N	ame	Settings	k Unit No -0 Change to Monit	or Mode-ON
		LICE   Jenes-C Lin	ingenien i e egendingene monite	ormode-one

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. It is necessary to change RI/5V by changeover switch of IPC when connect with IPC. Please refer to the manual of the IPC for more detail.

## Device Setting

To display the setting screen, click I ([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	te Settings	×
PLC1		
Series	C Link	🔿 CV Link
Please reconf if you have ch	irm all of address s anged the series.	ettings that you are using
Unit No.	0 🗦	
Operating Mode	🔽 Change to l	Monitor Mode
You can write	data only in Monit	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 Maintenance/Troubleshooting for more information on how to enter off-line mode or about operation.
 Of Maintenance/Troubleshooting "0.0 Offline Made"

# Cf. Maintenance/Troubleshooting "2.2 Offline Mode"

#### 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 H	OST Link		[COM1]	Page 1/1
	SIO Type Speed Data Length Parity Stop Bit Flow Control Timeout(s) Retry Wait To Send(ms)	RS232C 19200 7 NONE 1 JER(DTR/C	8 ● EVEN ● 2 TS) ▼ 3 2 ▼ ▲ 0 ▼ ▲	] ODD
	Exit		Back	2005/09/02 12:44:02

Setup Items	Setup Description
SIO Type	Select the SIO type to communicate with the External Device.  MPORTANT To make the communication settings correctly, confirm the serial interface specifications of Display unit for [SIO Type]. We cannot guarantee the operation if a communication type that the serial interface does not support is specified. For details concerning the serial interface specifications, refer to the manual for Display unit
Speed	Select speed between the External Device and the Display.
Data Length	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	T Link		[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 RI / VCC In the case the 9th pin Power Suppl RS232C Isol it to VCC.	• RI of RS232C, you to RI(Input) or y). If you use th ation Unit, plea	[COM1] VCC can select VCC(5V e Digital's se select	Page 1/1
	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. It is necessary to change RI/5V by changeover switch of IPC when connect with IPC. Please refer to the manual of the IPC for more detail.

# 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.
- Connect the isolation unit, when communication is not stabilized under the influence of a noise etc..

Cable Diagram 1

Display		Cable	Remarks	
GP (COM1) IPC <sup>*1</sup> PC/AT	A	RS232C cable by Pro-face CA3-CBL232/5M-01		
	В	Your own cable	Cable length: 15m or less	

\*1 Only the COM port which can communicate by RS-232C can be used. <sup>(G)</sup> "■ COM Port of IPC" (page 8)

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



#### B) When using your own cable

D-sub 9 pin (socket)				External Device D-sub 25 pin (plug)	
Display	Pin	Signal name		Pin	Signal name
	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	V. V.	1	FG

## Cable Diagram 2

Display		Cable	Remarks	
GP <sup>*1</sup> (COM1) AGP-3302B (COM2) IPC <sup>*2</sup>	А	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable		
	В	Your own cable		
GP <sup>*3</sup> (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + 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-3302B

\*2 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. <sup>(G)</sup> "■ COM Port of IPC" (page 8)

\*3 All GP models except GP-3200 series and AGP-3302B
- A) When using the COM port conversion adapter (CA3-ADPCOM-01) , the 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



• 1:n Connection



NOTE

• When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

- C) When using the online adapter (CA4-ADPONL-01), the 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







Display	Cable		Remarks
GP (COM1) IPC <sup>*1</sup> PC/AT	A	OMRON SYSMAC link cable by Pro-face CA3-CBLSYS-01	
	В	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	) Extern	nal Device 9 pin (plug)
Diantau	Pin	Signal name	Shield Pin	Signal name
Display	3	SD	2	SD
	2	RD	3	RD
	7	RS		RS
	8	CS	← 5	CS
	5	SG	9	SG
			1	FG

Display	Cable	Remarks
GP (COM1) IPC <sup>*1</sup> PC/AT	Isolation cable by OMRON Corporation CQM1-CIF01	Commercial 9 pin-25 pin conversion adapter is required.

\*1 Only the COM port which can communicate by RS-232C can be used.

<sup>™</sup> ■ COM Port of IPC" (page 8)



9 pin-25 pin conversion adapter

Display	Cable	Remarks
GP <sup>*1</sup> (COM1) AGP-3302B (COM2) IPC <sup>*2</sup>	A COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	B Your own cable	
GP <sup>*3</sup> (COM2)	C Online adapter by Pro-face CA4-ADPONL-01 + 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-3302B

\*2 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. <sup>(G)</sup> "■ COM Port of IPC" (page 8)

\*3 All GP models except GP-3200 series and AGP-3302B

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





termination resistance.

#### B) When using your own cable

1:1 Connection



• 1:n Connection



termination resistance.

- C) When using the online adapter (CA4-ADPONL-01), the 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

• 1:n Connection



Your own cable

Display	Cable	Remarks
GP (COM1) IPC <sup>*1</sup> PC/AT	Your own cable	The cable length must be 15m or less.

\*1 Only the COM port which can communicate by RS-232C can be used.

<sup>™</sup> ■ COM Port of IPC" (page 8)



Display	Cable		Remarks
GP <sup>*1</sup> (COM1) AGP-3302B (COM2) IPC <sup>*2</sup>	А	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	В	RS422 cable by Pro-face CA3-CBL422/5M-01	
	С	Your own cable	The cable length must be
GP <sup>*3</sup> (COM2)	D	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	500m or less.
	Е	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

\*1 All GP models except AGP-3302B

\*2 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. <sup>(G)</sup> "■ COM Port of IPC" (page 8)

\*3 All GP models except GP-3200 series and AGP-3302B

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





• When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

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



1:n Connection



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



• 1:n Connection



NOTE

• When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

- D) When using the online adapter (CA4-ADPONL-01), the 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



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

\*1 Only the COM port which can communicate by RS-232C can be used. <sup>(3)</sup> "■ COM Port of IPC" (page 8)

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) IPC <sup>*1</sup> PC/AT	Isolation cable by OMRON Corporation CQM1-CIF01 + Connector conversion cable by OMRON Corporation CS1W-CN114	Commercial 9 pin/25 pin conversion adapter is required.

\*1 Only the COM port which can communicate by RS-232C can be used. <sup>(G)</sup> "■ COM Port of IPC" (page 8)



Display	Cable		Remarks
GP <sup>*1</sup> (COM1) AGP-3302B (COM2) IPC <sup>*2</sup>	A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	В	RS422 cable by Pro-face CA3-CBL422/5M-01	
	С	Your own cable	The cable length must be
GP <sup>*3</sup> (COM2)	D	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	500m or less.
	Е	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

\*1 All GP models except AGP-3302B

\*2 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. <sup>(G)</sup> "■ COM Port of IPC" (page 8)

\*3 All GP models except GP-3200 series and AGP-3302B

▲ 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 terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable
- 1:1 Connection



• When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

- 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



• 1:n Connection



termination resistance.

- D) When using the online adapter (CA4-ADPONL-01), the 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





Display	Cable		Remarks
GP <sup>*1</sup> (COM1) AGP-3302B (COM2) IPC <sup>*2</sup>	COM port conve CA3 Terminal blo b CA3 Yo	ersion adapter by Pro-face -ADPCOM-01 + ck conversion adapter y Pro-face -ADPTRM-01 + ur own cable	
	RS422 CA3-0	cable by Pro-face CBL422/5M-01	
	C Your own cable		The cable length must be
GP <sup>*3</sup> (COM2)	Online a CA4 Terminal blo b CA3 Yo	dapter by Pro-face -ADPONL-01 + ck conversion adapter y Pro-face -ADPTRM-01 + ur own cable	500m or less.
	Online a CA4 Yo	dapter by Pro-face -ADPONL-01 + ur own cable	

\*1 All GP models except AGP-3302B

\*2 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. <sup>(G)</sup> "■ COM Port of IPC" (page 8)

- \*3 All GP models except GP-3200 series and AGP-3302B
- \* When connecting the External Device, use the link adapter B500-AL001 or the terminal block by OMRON Corporation.

6

RDA

: ON

Connector Hood

Termination

resistance

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



6

resistance

• When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the

RDA

Connector Hood

Your own cable



termination resistance.

SDB

TERM

SG

Termination resistance

220Ω1/4W

1:1 Connection

NOTE

CA3-ADPTRM-01





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



• 1:n Connection



- D) When using the online adapter (CA4-ADPONL-01), the 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

1:n Connection ٠





Display	Cable	Remarks
GP (COM1) IPC <sup>*1</sup> PC/AT	Your own cable	The cable length must be 15m or less.

\*1 Only the COM port which can communicate by RS-232C can be used.

<sup>™</sup> ■ COM Port of IPC" (page 8)



Display	Cable	Remarks
GP <sup>*1</sup> (COM1) AGP-3302B (COM2) IPC <sup>*2</sup>	A COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	B Your own cable	
GP <sup>*3</sup> (COM2)	C Online adapter by Pro-face CA4-ADPONL-01 + 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-3302B

\*2 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. <sup>(G)</sup> "■ COM Port of IPC" (page 8)

\*3 All GP models except GP-3200 series and AGP-3302B

- A) When using the COM port conversion adapter (CA3-ADPCOM-01), the 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

				Externa	l Device	
[	D-sub 9 p	oin (socke	t) Shiold	D-sub 9 pin (plug)		
Termination resistance	Pin	Signal name		Pin	Signal name	
220Ω1/4W	1	RDA		2	SDB	
Termination resistance Display	2	RDB		1	SDA	
	3	SDA		8	RDB	
	7	SDB		6	RDA	
	5	SG		4	RS	
	6	CSB	┝┑╎╎╲╎╎┕╸	5	CS	
	9	ERB	$\left  - \right  \left  \right   \forall \leftarrow$	9	SG	
	8	CSA	┝┑╵ <u>╵</u>	Connec	ctor Hood	
	4	ERA	$\vdash$			

• 1:n Connection

				Externa	l Device		External	Device
C	)-sub 9 p	oin (socke	t) Shield	D-sub 9	pin (plug)	Chield	D-sub 9	pin (plug)
Termination resistance	Pin	Signal name		Pin	Signal name		Pin	Signal name
220Ω1/4W	1	RDA		- 2	SDB		2	SDB
Termination resistance 220014W, 3 SDA 7 SDB 5 SG 6 CSB 9 ERB 8 CSA	RDB		- 1	SDA		1	SDA	
	SDA		▶ 8	RDB		8	RDB	
	SDB		• 6	RDA		6	RDA	
	SG		- 4	RS		4	RS	
	CSB	┝┑╎╎╲╎╎└	▶ 5	CS		5	CS	
	ERB	$\vdash \downarrow \downarrow \land \downarrow \downarrow$	- 9	SG		9	SG	
	CSA	┝┑ <u>╎</u> ////	Conne	Connector Hood		Conne	ctor Hood	
	4	ERA	ŀ					

NOTE

• When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

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



Your own cable

1:n Connection



Your own cable

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



Your own cable



Your own cable

# 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		<sub>в і т</sub> 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.

\*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"

<sup>\*2</sup> Can be used only in CQM1-CPU42.

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

I

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

Device	Bit Address	Word Address	32bits	Remarks
I/O Relay	000.00 242.15	000 242		*1 *3
Internal Auxiliary Relay	000.00 - 245.15	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	ΓL / H)	*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>₿ i t</u> 15]*6
Extension Data Memory		EM0000-EM6134		<u>,∎, 1</u> 5)*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.

\*4 Write disable

\*5 BCD only

\*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"
#### 6.3 SYSMAC- $\alpha$ 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		*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		<sub>в т</sub> 15) <sup>*4</sup>
Extension Fixed Data Memory		DM7000-DM9999	ſ	<sub>в т</sub> 15) <sup>*5</sup>
Extension Data Memory		EM0000-EM6134		<u>,∎,</u> 15]*6

Г

\*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.

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"

### 6.4 SYSMAC-CV Series

\_\_\_\_\_: Av

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

Device	Bit Address	Word Address	32bits	Remarks
I/O Relay	000.00 100.15	000 100		*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	[L/H]	*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>⊾, 15</u> ]

\*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

NOTE

\*3 BCD only

• 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- $\alpha$ 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.
	<ul> <li>NOTE</li> <li>IP address is displayed such as "IP address(Decimal): MAC address( Hex)".</li> <li>Device address is diplayed such as "Address: Device address".</li> <li>Received error codes are displayed such as "Decimal[Hex]".</li> </ul>

Display Examples of Error Messages

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

NOTE
Please refer to the manual of the External Device for more detail of received error codes.
Please refer to "When an error message is displayed (Error code list)" of "Maintenance/ Troubleshooting" for a common error message to the driver.