Sharp Manufacturing Systems Corporation

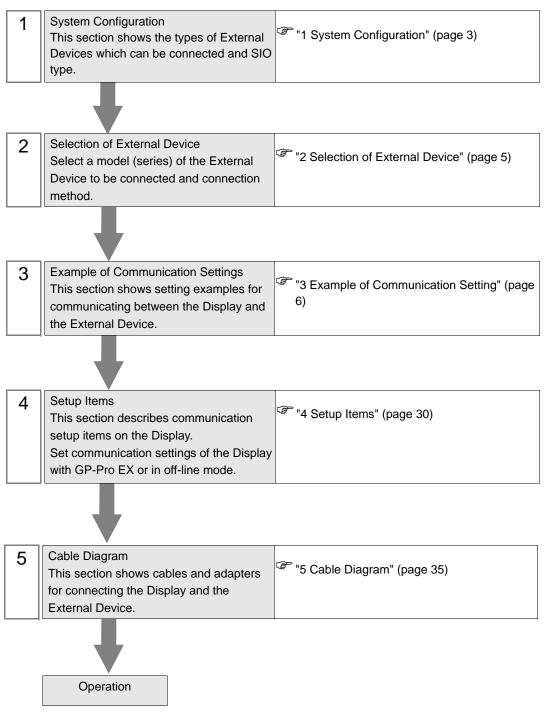
JW Series Computer Link SIO Driver

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Introduction

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

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



1 System Configuration

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

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
	JW-21CUH	JW-21CM ^{*1}	RS422/485 (4wire)	Setting Example 1 (page 6)	Cable Diagram 1 (page 35)
			RS422/485 (2wire)	Setting Example 2 (page 8)	Cable Diagram 2 (page 39)
JW20H	JW-22CUH	Communication port on the CPU	RS232C	Setting Example 3 (page 10)	Cable Diagram 3 (page 43)
3002011		unit	RS422/485 (4wire)	Setting Example 4 (page 12)	Cable Diagram 4 (page 44)
		JW-21CM ^{*1}	RS422/485 (4wire)	Setting Example 1 (page 6)	Cable Diagram 1 (page 35)
			RS422/485 (2wire)	Setting Example 2 (page 8)	Cable Diagram 2 (page 39)
	JW-31CUH1 JW-32CUH1 JW-32CUM1 JW-32CUM2 JW-33CUH1 JW-33CUH2 JW-33CUH3	JW-21CM ^{*1}	RS422/485 (4wire)	Setting Example 1 (page 6)	Cable Diagram 1 (page 35)
			RS422/485 (2wire)	Setting Example 2 (page 8)	Cable Diagram 2 (page 39)
		PG/COMM1 on the CPU unit	RS422/485 (4wire)	Setting Example 5 (page 14)	Cable Diagram 5 (page 48)
JW30H		PG/COMM2 on the CPU unit	RS232C	Setting Example 6 (page 16)	Cable Diagram 6 (page 52)
			RS422/485 (4wire)	Setting Example 7 (page 18)	Cable Diagram 5 (page 48)
		JW-21CM*1	RS422/485 (4wire)	Setting Example 1 (page 6)	Cable Diagram 1 (page 35)
			RS422/485 (2wire)	Setting Example 2 (page 8)	Cable Diagram 2 (page 39)

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
	JW-50CUH	JW-10CM	RS422/485 (4wire)	Setting Example 8 (page 20)	Cable Diagram 1 (page 35)
	Jw-Jocon		RS422/485 (2wire)	Setting Example 9 (page 22)	Cable Diagram 2 (page 39)
JW50H JW70H			RS232C	Setting Example 10 (page 24)	Cable Diagram 3 (page 43)
JW100	JW-70CUH JW-100CUH	port on the CPU unit	RS422/485 (4wire)	Setting Example 11 (page 26)	Cable Diagram 7 (page 53)
		JW-10CM	RS422/485 (4wire)	Setting Example 8 (page 20)	Cable Diagram 1 (page 35)
			RS422/485 (2wire)	Setting Example 9 (page 22)	Cable Diagram 2 (page 39)
JW10	JW-1324K JW-1424K JW-1624K JW-1342K JW-1442K JW-1642K	Communication port on the base module	RS422/485 (2wire)	Setting Example 12 (page 28)	Cable Diagram 8 (page 57)

*1 Note that some of them cannot be used or the range of use is restricted depending on the version of the link unit JW-21CM.

Version sticker on the front of the unit	Restriction of use	
30Hn	Available to use without restriction	
30H	nable to read or write the file register 10 to 2C nable to read or write the file register address 100000 to 176777	
Without sticker	Unable to use in the JW30H Series	

2 Selection of External Device

Select the External Device to be connected to the Display.

💰 New Project File 🔹 💈						
Device/PL	Device/PLC					
Maker	SHARP MS Corporation					
Driver	JW Series Computer Link SID					
🗖 Use S	iystem Area <u>Refer to the manual of this Device/PLC</u>					
Connection Port	Connection Method Port COM1					
	Go to Device/PLC Manual					
Back	Communication Detail Settings New Screen Cancel					

Setup Items	Setup Description
Maker	Select the maker of the External Device to be connected. Select "Sharp MS Corporation".
Series	Select a model (series) of the External Device to be connected and connection method. Select "JW Series Computer Link SIO". Check the External Device which can be connected in "JW Series Computer Link SIO" in system configuration. T System Configuration" (page 3)
Use System Area	 Check this option when you synchronize the system data area of the Display and the device (memory) of the External Device. When synchronized, you can use the ladder program of the External Device to switch the display or display the window on the Display. Cf. GP-Pro EXReference Manual "Appendix 1.4 LS Area (only for direct access method)" This can be also set with GP-Pro EX or in off-line mode of the Display. Cf. GP-Pro EX Reference Manual "6.13.6[Setting Guide of [System Setting Window], Setting Guide of [Main Unit Settings], System Area Setting"
Port	Cf. GP3000 Series User's Manual "4.3.6 System Area Setting" 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 Digital Electronics Corp., are shown.

3.1 Setting Example 1

Settings of GP-Pro EX

Communication Settings

Device/PLC 1					
Summary				Change Device/PLC	
Maker SHARP MS Co	orporation	Driver JW S	eries Computer Link SIO	Port COM1	
Text Data Mode	2 <u>Change</u>				
Communication Settings					
SIO Type	O R\$232C	C RS422/485(2wire)	RS422/485(4wire)		
Speed	19200	•			
Data Length	• 7	O 8			
Parity	O NONE	• EVEN	O ODD		
Stop Bit	01	● 2			
Flow Control	O NONE	• ER(DTR/CTS)	C XON/XOFF		
Timeout	3 📫 (s	ec)			
Retry	2 🔹				
Wait To Send	n) 🛨 (n	ns)			
RI / VCC	© BI	O VCC			
In the case of RS232 or VCC (5V Power Su		the 9th pin to RI (Input the Digital's RS2220	t)		
Isolation Unit, please		the Digitalis Hozoze	Default		
Device-Specific Settings					
Allowable No. of Device/PLCs 16 Unit(s)					
No. Device Name	9	Settings Station No.	(Oct)=1		
		PACE 1			

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

💰 Individual Device S	Gettings 🗙
PLC1	
Station No.(Oct) 1	
	Default
OK (<u>0</u>)	Cancel

Settings of External Device

Use the rotary switch on Link I/F for setting. Please refer to the manual of the External Device for more details. Restart the power of the External Device after setting the switch to enable the setting.

Function Setting Switch

Rotary Switch	Setting Value	Setup Description
SW0	4	SIO Type: Computer link

Station Setting Switch

Rotary Switch	Setting Value	Setup Description
SW2 (x10)	0	Station No. setting: Set the upper station number.
SW1 (x1)	1	Station No. setting: Set the lower station number.

NOTE • Set the station No. between 01 and 37 (o) with SW2 and SW1.

Operation ModeSetting Switch

DIP Switch	Setting Value	Setup Description
SW3-1	OFF	Reserved
SW3-2	ON	Number of communication wire: 4 wire
SW3-3	OFF	Reserved
SW3-4	ON	Parity: Even

Transfer Speed Setting Switch

Rotary Switch	Setting Value	Setup Description
SW4	0	Transmission speed: 19200bps

Termination Resistance Switch

DIP Switch	Setting Value	Setup Description
SW7	ON	Insert the termination resistance: Set it to ON to insert the termination resistance. Set only the External Device which terminates the connection to ON.

Unit No. Switch

Rotary Switch	Setting Value	Setup Description
SW8	0	Set the data memory address for sub station 01 to 04.

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3.2 Setting Example 2

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1	
Summary	Change Device/PLC
Maker SHARP MS Corporation Driver	JW Series Computer Link SIO Port COM1
Text Data Mode 2 Change	
Communication Settings	
SIO Type O RS232C 💿 RS422/485(2	2wire) C RS422/485(4wire)
Speed 19200 💌	
Data Length 💿 7 💿 8	
Parity O NONE O EVEN	O ODD
Stop Bit O 1 O 2	
Flow Control ONONE • ER(DTR/CTS	6) O XON/XOFF
Timeout 3 📑 (sec)	
Retry 2	
Wait ToSend 0 👘 (ms)	
RI/VCC © RI O VCC	
In the case of RS232C, you can select the 9th pin to RI or VCC (5V Power Supply). If you use the Digital's RS23 Isolation Unit, please select it to VCC.	
Levice-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
No. Device Name Settings	
👗 1 PLC1 📷 Station	n No.(Oct)=1

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

ice Settings 🗙
÷
Default
Cancel

Settings of External Device

Use the rotary switch on Link I/F for setting. Please refer to the manual of the External Device for more details. Restart the power of the External Device after setting the switch to enable the setting.

Function Setting Switch

Rotary Switch	Setting Value	Setup Description
SW0	4	SIO Type: Computer link

Station Setting Switch

Rotary Switch	Setting Value	Setup Description	
SW2 (x10)	0	Station No. setting: Set the upper station number.	
SW1 (x1)	1	Station No. setting: Set the lower station number.	

NOTE • Set the station No. between 01 and 37 (o) with SW2 and SW1.

Operation ModeSetting Switch

DIP Switch	Setting Value	Setup Description	
SW3-1	OFF	Reserved	
SW3-2	OFF	Number of communication wire: 2 wire	
SW3-3	OFF	Reserved	
SW3-4	ON	Parity: Even	

Transfer Speed Setting Switch

Rotary Switc	h Setting Value	Setup Description
SW4	0	Transfer Speed: 19200 bps

Termination Resistance Switch

DIP Switch	Setting Value	Setup Description
SW7	ON	Insert the termination resistance: Set it to ON to insert the termination resistance. Set only the External Device which terminates the connection to ON.

Unit No. Switch

Rotary Switch	Setting Value	Setup Description	
SW8	0	Set the data memory address for sub station 01 to 04.	

3.3 Setting Example 3

- Settings of GP-Pro EX
- ♦ Communication Settings

Device	/PLC 1				
Summ	ary		Change Device/PLC		
M	laker SHARP MS (Corporation	Driver JW Series Computer Link SID Port COM1		
Т	ext Data Mode	2 Change			
Comm	unication Settings				
S	О Туре	• RS232C	O RS422/485(2wire) O RS422/485(4wire)		
S	peed	19200	▼.		
D)ata Length	• 7	• 8		
P	Parity	O NONE	EVEN O ODD		
S	Stop Bit	O 1	· 2		
F	low Control	O NONE	ER(DTR/CTS) O XON/XOFF		
Т	imeout	3 📫 (:	sec)		
F	Retry	2 .			
V	Vait To Send	ı) ; O	ms)		
B	RI / VCC	• BI	O VCC		
		Supply). If you use	st the 9th pin to RI (Input) e the Digital's RS232C Default		
Device	e-Specific Settings				
A	Allowable No. of Device/PLCs 16 Unit(s)				
Π	No. Device Nar	ne	Settings The setti		
			PALE J		

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

💣 Individual Device	Settings 🗙
PLC1	
Station No.(Oct)	•
	Default
OK (<u>0)</u>	Cancel

Settings of External Device

Set the bit of system memory in the External Device to ON or OFF. Please refer to the manual of the External Device for more details.

Restart the power of the External Device after setting to enable the setting.

♦ Setting for #236

Setting Area	Setting Value	Setup Description
#236	30(H)	Communication setting. Enter in hex number. Description for each bit is shown below.

• Description for Bit

Bit in System Area	Setting Value	Setup Description	
D0	OFF		
D1	OFF	Transfer Speed: 19200 bps	
D2	OFF		
D3	OFF	Parity: Even	
D4	ON	i any. Even	
D5	ON	Stop bit: 2 bits	
D6	OFF	Always OFF	
D7	OFF	Always OFF	

Setting for #237

Setting Area	Setting Value	Setup Description
#237	1(o)	Station No. setting. Enter in octal number.

3.4 Setting Example 4

- Settings of GP-Pro EX
- ♦ Communication Settings

Devic	e/PLC1					
Sum	mary		Change Device/PLC			
	Maker SHARP MS	Corporation	Driver JW Series Computer Link SIO Port COM1			
	Text Data Mode	2 Change				
Com	munication Settings					
	SIO Type	C RS232C	C RS422/485(2wire) C RS422/485(4wire)			
	Speed	19200	•			
	Data Length	7 7	C 8			
	Parity	C NONE	EVEN O ODD			
	Stop Bit	O 1	© 2			
	Flow Control	C NONE	ER(DTR/CTS) O XON/XOFF			
	Timeout	3 🕂 ((sec)			
	Retry	2 📫				
	Wait To Send	0 🕂 ((ms)			
	RI / VCC	© BI	C VCC			
			ct the 9th pin to RI (Input) e the Digital's RS232C			
	Isolation Unit, pleas					
Devi	ice-Specific Settings					
	Allowable No. of Dev					
	No. Device Nai	me	Settings The setti			

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

💰 Individual [Device	Settings	×
PLC1			
Station No.(Oct)	1		÷
		Default	
OK (<u>O</u>)		Cancel	

Settings of External Device

Set the bit of system memory in the External Device to ON or OFF. Please refer to the manual of the External Device for more details.

Restart the power of the External Device after setting to enable the setting.

Setting for #236

Setting Area	Setting Value	Setup Description
#236	30(H)	Communication setting. Enter in hex number. Description for each bit is shown below.

Description for Bit

Bit in System Area	Setting Value	Setup Description
D0	OFF	
D1	OFF	Transfer Speed: 19200 bps
D2	OFF	
D3	OFF	Parity: Even
D4	ON	Tanty. Even
D5	ON	Stop bit: 2 bits
D6	OFF	Always OFF
D7	OFF	Always OFF

Setting for #237

Setting Area	Setting Value	Setup Description
#237	1(0)	Station No. setting. Enter in octal number.

Termination Resistance Switch

DIP Switch	Setting Value	Setup Description	
SW1	ON	Insert the termination resistance: Set it to ON to insert the termination resistance. Set only the External Device which terminates the connection to ON.	

3.5 Setting Example 5

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/	/PLC1						
Summa	ary					Change Device	/PLC
м	laker SHARP MS (Corporation	Driver J	W Series Comput	er Link SIO	Port COM1	
T	ext Data Mode	2 Change					
Commu	unication Settings						
SI	Ю Туре	C RS232C	C RS422/485(2v	vire) 💿 RS	422/485(4wire)		
S	peed	19200	•				
D	ata Length	7	O 8				
P	arity	C NONE	EVEN	C ODD			
S	top Bit	O 1					
FI	low Control	C NONE	• ER(DTR/CTS)		DFF		
Ti	imeout	3 📑 (s	ec)				
R	letry	2 📑					
W	√ait ToSend	0 ÷ (n	ns)				
B	II / VCC	© BI	O VCC				
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	Supply). If you use			Default		
Device	e-Specific Settings						
A	llowable No. of Devi	,					
	No. Device Nan	ne	Settings	No.(Oct)=1			

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

💣 Individual Device	Settings 🗙
PLC1	
Station No.(Oct)	•
	Default
OK (<u>D)</u>	Cancel

Settings of External Device

Set the bit of system memory in the External Device to ON or OFF. Please refer to the manual of the External Device for more details.

Restart the power of the External Device after setting to enable the setting.

٠	Setting	for	#234
•	ocung	101	<i>π</i> 20 7

Setting Area	Setting Value	Setup Description
#234	30(H)	Communication setting. Enter in hex number. Description for each bit is shown below.

Description for Bit

Bit in System Area	Setting Value	Setup Description
D0	OFF	
D1	OFF	Transfer Speed: 19200 bps
D2	OFF	
D3	OFF	Parity: Even
D4	ON	
D5	ON	Stop Bit: 2 bits
D6	OFF	Always OFF
D7	OFF	Always OFF

Setting for #235

Setting Area	Setting Value	Setup Description
#235	1(0)	Station No. setting. Enter in octal number.

3.6 Setting Example 6

- Settings of GP-Pro EX
- ♦ Communication Settings

Devi	ce/PLC 1		
Sun	nmary		Change Device/PLC
	Maker SHARP MS	Corporation	Driver JW Series Computer Link SID Port COM1
	Text Data Mode	2 Change	
Con	nmunication Settings		
	SIO Type	• R\$232C	C RS422/485(2wire) O RS422/485(4wire)
	Speed	19200	•
	Data Length	• 7	C 8
	Parity	O NONE	EVEN O ODD
	Stop Bit	0.1	© 2
	Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF
	Timeout	3 🕂 ((sec)
	Retry	2 .	
	Wait To Send	0 🕂 (ms)
	RI / VCC	• BI	O VCC
		Supply). If you use	et the 9th pin to RI (Input) e the Digital's RS232C Default
Dev	vice-Specific Settings		
	Allowable No. of Dev		· · · · · · · · · · · · · · · · · · ·
	No. Device Na	me	Settings The setti

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

💰 Individual D	evice	Settings	×
PLC1			
Station No.(Oct)	1		÷
		Default	:
OK (<u>O</u>)		Cancel	

Settings of External Device

Set the bit of system memory in the External Device to ON or OFF. Please refer to the manual of the External Device for more details.

Restart the power of the External Device after setting to enable the setting.

٠	Setting	for	#236
•	Setting	101	#230

Setting Area	Setting Value	Setup Description
#236	30(H)	Communication setting. Enter in hex number. Description for each bit is shown below.

• Description for Bit

Bit in System Area	Setting Value	Setup Description
D0	OFF	
D1	OFF	Transfer Speed: 19200 bps
D2	OFF	
D3	OFF	Parity: Even
D4	ON	Tanty. Even
D5	ON	Stop Bit: 2 bits
D6	OFF	Always OFF
D7	OFF	Always OFF

Setting for #237

Setting Area	Setting Value	Setup Description
#237	1(0)	Station No. setting. Enter in octal number.

3.7 Setting Example 7

- Settings of GP-Pro EX
- ♦ Communication Settings

Devic	e/PLC1				
Sum	mary		Change Device/PLC		
	Maker SHARP MS	Corporation	Driver JW Series Computer Link SIO Port COM1		
	Text Data Mode	2 Change			
Com	munication Settings				
	SIO Type	C RS232C	C RS422/485(2wire) C RS422/485(4wire)		
	Speed	19200	•		
	Data Length	7 7	C 8		
	Parity	C NONE	EVEN O ODD		
	Stop Bit	O 1	© 2		
	Flow Control	C NONE	ER(DTR/CTS) O XON/XOFF		
	Timeout	3 🕂 ((sec)		
	Retry	2 📫			
	Wait To Send	0 🕂 ((ms)		
	RI / VCC	© BI	C VCC		
			ct the 9th pin to RI (Input) e the Digital's RS232C		
	Isolation Unit, pleas				
Devi	Device-Specific Settings				
	Allowable No. of Dev				
	No. Device Nai	me	Settings The setti		
	· ·				

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

💣 Individual Device	Settings 🗙
PLC1	
Station No.(Oct)	
	Default
OK (<u>D)</u>	Cancel

Settings of External Device

Set the bit of system memory in the External Device to ON or OFF. Please refer to the manual of the External Device for more details.

Restart the power of the External Device after setting to enable the setting.

Setting for #236

Setting Area	Setting Value	Setup Description
#236	30(H)	Communication setting. Enter in hex number. Description for each bit is shown below.

Description for Bit

Bit in System Area	Setting Value	Setup Description
D0	OFF	
D1	OFF	Transfer Speed: 19200 bps
D2	OFF	
D3	OFF	Parity: Even
D4	ON	ranty. Even
D5	ON	Stop Bit: 2 bits
D6	OFF	Always OFF
D7	OFF	Always OFF

Setting for #237

Setting Area	Setting Value	Setup Description
#237	1(o)	Station No. setting. Enter in octal number.

3.8 Setting Example 8

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/	/PLC1						
Summa	ary					Change Device	/PLC
м	laker SHARP MS (Corporation	Driver J	W Series Comput	er Link SIO	Port COM1	
T	ext Data Mode	2 Change					
Commu	unication Settings						
SI	Ю Туре	C RS232C	C RS422/485(2v	vire) 💿 RS	422/485(4wire)		
S	peed	19200	•				
D	ata Length	• 7	O 8				
P	arity	C NONE	EVEN	C ODD			
S	top Bit	O 1					
FI	low Control	C NONE	• ER(DTR/CTS)		DFF		
Ti	imeout	3 📑 (s	ec)				
R	letry	2 📑					
W	√ait ToSend	0 ÷ (n	ns)				
B	II / VCC	© BI	O VCC				
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	Supply). If you use			Default		
Device	e-Specific Settings						
A	Allowable No. of Device/PLCs 16 Unit(s)						
l	No. Device Nan	ne	Settings	No.(Oct)=1			
			HOLE				

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

💰 Individual Device	Settings 🗙
PLC1	
Station No.(Oct)	•
	Default
OK (<u>D)</u>	Cancel

Settings of External Device

Use the rotary switch on Link I/F for setting. Please refer to the manual of the External Device for more details. Restart the power of the External Device after setting the switch to enable the setting.

Function Setting Switch

Rotary Switch	Setting Value	Setup Description
SW0	4	SIO Type: Computer link

Station Address Setting Switch

Rotary Switch	Setting Value	Setup Description
SW2	0	Station No. setting: Set the upper station number.
SW1	1	Station No. setting: Set the lower station number.

NOTE • Set the station No. between 01 and 37 (o) with SW2 and SW1.

Operation ModeSetting Switch

DIP Switch	Setting Value	Setup Description
SW3-1	OFF	Reserved
SW3-2	ON	Number of communication wire: 4 wire
SW3-3	OFF	Reserved
SW3-4	ON	Parity: Even

Transfer SpeedSetting Switch

Ro	otary Switch	Setting Value	Setup Description
	SW4	0	Transfer Speed: 19200 bps

Termination Resistance Switch

DIP Switch	Setting Value	Setup Description
SW7	ON	Insert the termination resistance: Set it to ON to insert the termination resistance. Set only the External Device which terminates the connection to ON.

3.9 Setting Example 9

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1								
Summary							Ch	ange Device/PLC
Maker [SHARP MS Co	orporation	Drive	r JW Se	eries Compute	er Link SIO	Port	COM1
Text Dat	a Mode	2 <u>Change</u>						
Communicatio	n Settings							
SIO Type	e '	O R\$232C	• RS422/4	85(2wire)	O RS	422/485(4wire)		
Speed		19200	•					
Data Ler	ngth	• 7	C 8					
Parity		O NONE	• EVEN		O ODD			
Stop Bit		01	● 2					
Flow Cor	ntrol .	O NONE	• ER(DTR/	CTS)	O XON/XO	DFF		
Timeout		3 📫 (s	ec)					
Retry		2 +						
Wait To	Send	0 🕂 (n	ns)					
RI / VCC	;	© BI	C VCC					
		C, you can select upply). If you use)			
		select it to VCC.	and bigitars fi	02020		Default		
Device-Specific Settings								
Allowable No. of Device/PLCs 16 Unit(s)								
No.	Device Name PLC1	9	Settings	: ation No.(Oct)=1			
00	1		ROLL I					

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

💣 Individual Device	Settings 🗙
PLC1	
Station No.(Oct)	•
	Default
OK (<u>D</u>)	Cancel

Settings of External Device

Use the rotary switch on Link I/F for setting. Please refer to the manual of the External Device for more details. Restart the power of the External Device after setting the switch to enable the setting.

Function Setting Switch

Rotary Switch	Setting Value	Setup Description
SW0	4	SIO Type: Computer link

Station Address Setting Switch

Rotary Switch	Setting Value	Setup Description
SW2	0	Station No. setting: Set the upper station number.
SW1	1	Station No. setting: Set the lower station number.

NOTE • Set the station No. between 01 and 37 (o) with SW2 and SW1.

Operation ModeSetting Switch

DIP Switch	Setting Value	Setup Description
SW3-1	OFF	Reserved
SW3-2	OFF	Number of communication wire: 2 wire
SW3-3	OFF	Reserved
SW3-4	ON	Parity: Even

Transfer SpeedSetting Switch

Rotary Switch	Setting Value	Setup Description
SW4	0	Transfer Speed: 19200 bps

Termination Resistance Switch

DIP Switch	Setting Value	Setup Description
SW7	ON	Insert the termination resistance: Set it to ON to insert the termination resistance. Set only the External Device which terminates the connection to ON.

3.10 Setting Example 10

- Settings of GP-Pro EX
- ♦ Communication Settings

Devi	ce/PLC 1		
Sun	nmary		Change Device/PLC
	Maker SHARP MS	Corporation	Driver JW Series Computer Link SIO Port COM1
	Text Data Mode	2 Change	
Con	nmunication Settings		
	SIO Type	• R\$232C	O RS422/485(2wire)
	Speed	19200	▼.
	Data Length	• 7	C 8
	Parity	O NONE	EVEN O ODD
	Stop Bit	01	© 2
	Flow Control	O NONE	ER(DTR/CTS) O XON/XOFF
	Timeout	3 📑 ((sec)
	Retry	2 🔹	
	Wait To Send	0 🕂 (ms)
	RI / VCC	• BI	O VCC
		Supply). If you use	st the 9th pin to RI (Input) e the Digital's RS232C Default
Dev	vice-Specific Settings		
	Allowable No. of Dev		
	No. Device Na	me	Settings The setti
	· ·		

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

💣 Individual Device	Settings 🗙
PLC1	
Station No.(Oct)	
	Default
OK (<u>0)</u>	Cancel

Settings of External Device

Set the bit of system memory in the External Device to ON or OFF. Please refer to the manual of the External Device for more details.

Restart the power of the External Device after setting to enable the setting.

♦ Setting for #0236

Setting Area	Setting Value	Setup Description
#0236	30(H)	Communication setting. Enter in hex number. Description for each bit is shown below.

• Description for Bit

Bit in System Area	Setting Value	Setup Description	
D0	OFF		
D1	OFF	Transfer Speed: 19200 bps	
D2	OFF		
D3	OFF	Parity: Even	
D4	ON	Tanty. Even	
D5	ON	Stop Bit: 2 bits	
D6	OFF	Always OFF	
D7	OFF	Always OFF	

Setting for #0237

Setting Area	Setting Value	Setup Description
#0237	1(o)	Station No. setting. Enter in octal number.

3.11 Setting Example 11

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/	/PLC1						
Summa	ary					Change Device	/PLC
м	laker SHARP MS (Corporation	Driver J	W Series Comput	er Link SIO	Port COM1	
T	ext Data Mode	2 Change					
Commu	unication Settings						
SI	Ю Туре	C RS232C	C RS422/485(2v	vire) 💿 RS	422/485(4wire)		
S	peed	19200	•				
D	ata Length	• 7	O 8				
P	arity	C NONE	EVEN	C ODD			
S	top Bit	O 1	€ 2				
FI	low Control	C NONE	• ER(DTR/CTS)		DFF		
Ti	imeout	3 📑 (s	ec)				
R	letry	2 📑					
W	√ait ToSend	0 ÷ (n	ns)				
B	II / VCC	© BI	O VCC				
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	Supply). If you use			Default		
Device	e-Specific Settings						
A	llowable No. of Devi	,					
l	No. Device Nan	ne	Settings	No.(Oct)=1			
			HOLE				

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

💰 Individual Device	Settings 🗙
PLC1	
Station No.(Oct) 1	÷
	Default
OK (<u>D</u>)	Cancel

Settings of External Device

Set the bit of system memory in the External Device to ON or OFF. Please refer to the manual of the External Device for more details.

Restart the power of the External Device after setting to enable the setting.

Setting for #0236

Setting Area	Setting Value	Setup Description
#0236	30(H)	Communication setting. Enter in hex number. Description for each bit is shown below.

• Description for Bit

Bit in System Area	Setting Value	Setup Description
D0	OFF	
D1	OFF	Transfer Speed: 19200 bps
D2	OFF	
D3	OFF	Parity: Even
D4	ON	Tanty. Even
D5	ON	Stop Bit: 2 bits
D6	OFF	Always OFF
D7	OFF	Always OFF

Setting for #0237

Setting Area	Setting Value	Setup Description
#0237	1(0)	Station No. setting. Enter in octal number.

Termination Resistance Switch

Insert the termination resistance at the end. Connecting the 6th and 13th pins in the port on the External Device allows the termination resistance to be inserted.

3.12 Setting Example 12

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1			
Summary			Change Device/PLC
Maker SHARF	PMS Corporation	Driver JW Series Compute	r Link SIO Port COM1
Text Data Mode	e 2 <u>Change</u>		
Communication Settin	ngs		
SIO Type	O RS232C	RS422/485(2wire) C RS4 RS4	122/485(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) • XON/XO	FF
Timeout	3 📫	sec)	
Retry	2 📫		
Wait To Send		ms)	
RI / VCC	© BI	O VCC	
or VCC (5V P	RS232C, you can sele ower Supply). If you us please select it to VCC,	st the 9th pin to RI (Input) s the Digital's RS232C	Default
Device-Specific Setti	inas		
	fDevice/PLCs 16 Unit	(s) 📊	
No. Devic	e Name	Settings	
		Station No.(Oct)=1	

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

💰 Individual [Device	Settings	×
PLC1			
Station No.(Oct)	1		÷
		Default	
OK (<u>O</u>)		Cancel	

Settings of External Device

Set the bit of system memory in the External Device to ON or OFF. Please refer to the manual of the External Device for more details.

Restart the power of the External Device after setting to enable the setting.

Setting for #234

Setting Area	Setting Value	Setup Description
#234	00(H)	Communication mode setting: Computer link

♦ Setting for #236

Setting Area	Setting Value	Setup Description
#236	30(H)	Communication setting. Enter in hex number. Description for each bit is shown below.

Description for Bit

Bit in System Area	Setting Value	Setup Description	
D0	OFF		
D1	OFF	Transfer Speed: 19200 bps	
D2	OFF		
D3	OFF	Parity: Even	
D4	ON	Tanty. Even	
D5	ON	Stop Bit: 2 bits	
D6	OFF	Always OFF	
D7	OFF	Data Length: 7 bits	

Setting for #237

Setting Area	Setting Value	Setup Description
#237	1(0)	Station No. setting. Enter in octal number.

Termination Resistance Switch

DIP Switch	Setting Value	Setup Description
SW7	ON	Insert the termination resistance: Set it to ON to insert the termination resistance. Set only the External Device which terminates the connection to ON.

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 6)

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 SHARP MS Corpo	oration Driv	er JW Series Computer Lir	nk SIO P	ort COM1
Text Data Mode 2	<u>Change</u>			
Communication Settings				
SIO Type 📀	RS232C C RS422/4	485(2wire) 💿 RS422/	/485(4wire)	
Speed 19	3200 💌			
Data Length 📀	7 08			
Parity O	NONE CEVEN	O ODD		
Stop Bit 📀	1 💿 2			
Flow Control	NONE C ER(DTR	/CTS) C XON/XOFF		
Timeout 3	÷ (sec)			
Retry 2	÷			
Wait To Send 0	÷ (ms)			
RI / VCC	RI O VCC			
	you can select the 9th pin to ly). If you use the Digital's f ect it to VCC.		Default	
Device-Specific Settings				
Allowable No. of Device/P				
No. Device Name	Setting	is tation No.(Oct)=1		

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.

Continued to next page.

Setup Items	Setup Description
Retry	In case of no response from the External Device, use an integer from 0 to 255 to enter how many times the Display retransmits the command.
Wait To Send	Use an integer from "0 to 255" to enter standby time (ms) for the Display from receiving packets to transmitting next commands.
RI/VCC	Switches RI/VCC of the 9th pin.

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 connecting multiple External Devices, you can click if from [Device-Specific Settings] of [Device/PLC Settings] to add the External Device which is available to set.

💣 Individual Device 🗧	Settings 🗙
PLC1	
Station No.(Oct) 1	•
	Default
OK (<u>0)</u>	Cancel

Setup Items	Setup Description
UnitNo.	 Enter the unit No. of the External Device with "01 to 37" (octal). NOTE When connecting the JW10 Series, enter with "0 to 77" (octal).

4.2 Settings in Off-Line Mode

NOTE

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

Cf. GP3000 Series User's Manual "Chapter 4 Setting"

Communication Settings

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

Comm.	Device	Option		
	iter Link SIO SIO Type Speed Data Length Parity Stop Bit Flow Control	RS232C 19200 • 7 • None • 1 FER(DTR/C	[COM1] (COM1] (COM1] (COM1] (COM1] (COM1] (COM1] (COM1] (COM1] (COM1] (COM1] (COM1] (COM1] (COM1)	Page 1/1
	Timeout(s) Retry Wait To Send(ms) Exit		3 ▼ ▲ 2 ▼ ▲ 0 ▼ ▲	2006/06/01 16:04:12

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.		

Setup Items	Setup Description
RI/VCC	Switches RI/VCC of the 9th pin.

To display the setting screen, touch [Device/PLC Settings] from [Peripheral Equipment Settings]. Touch the External Device you want to set from the displayed list, and touch [Device Settings].

Comm.	Device	Option	-	
JW Series Compu	ter Link SIO		[COM1]	Page 1/1
	e/PLC Name PLC	1		_
	Station No.(Oct)		1 🔻 🔺	J
	Exit		Back	2006/06/01 16:04:15

Setup Items	Setup Description		
Device nameSelect the External Device to set. Device name is a title of the External Device set w Pro EX. (Initial value [PLC1])			
UnitNo.	Enter the unit No. of the External Device with "01 to 37" (octal). NOTE • When connecting the JW10 Series, enter with "0 to 77" (octal).		

Option

To display the setting screen, touch [Device/PLC Settings] from [Peripheral Equipment Settings]. Touch the External Device you want to set from the displayed list, and touch [Option].

Comm.	Device	Option		
JW Series Compu	RI / VCC In the case the 9th pin Power Supply	● RI of RS232C, you to RI(Input) or y).If you use th ation Unit, plea	can select • VCC(5V e Digital's	Page 1/1
	Exit		Back	2006/06/01 16:04:18

Setup Items	Setup Description
RI/VCC	Switches RI/VCC of the 9th pin.

5 Cable Diagram

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

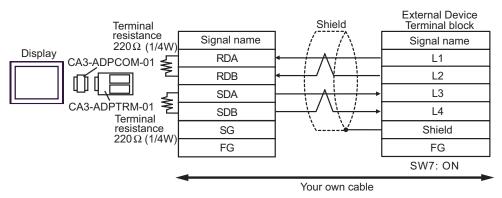
- The FG pin of the main body of the External Device must be D-class grounded. Please refer to the manual of the External Device for more details.
- SG and FG are connected inside the Display. When connecting SG to the External Device, design the system not to form short-circuit loop.

Cable Diagram 1

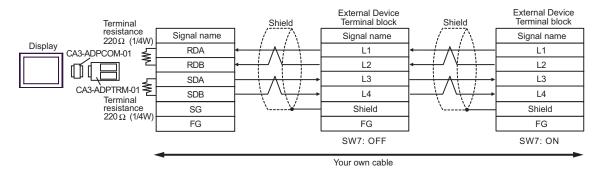
Display (Connection Port)		Cable	Remarks
GP(COM1) ^{*1} AGP-3302 (COM2)	А	COM port conversion adapter by Digital Electronics Corp. CA3-ADPCOM-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	
	В	Your own cable	
GP(COM2) ^{*1}	С	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	Cable length: 1000m or less
	D	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Your own cable	

*1 Except AGP-3302 Series

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

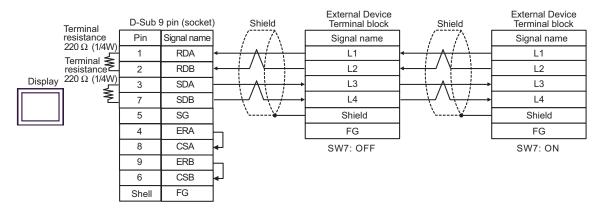


• 1:n Connection

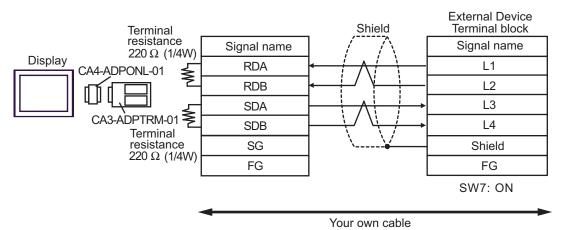


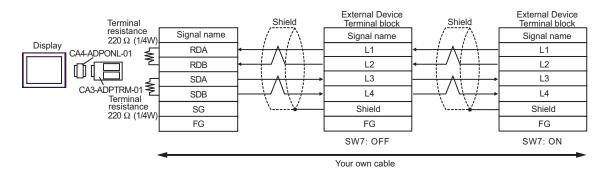
- B. When your own cable is used
- 1:1 Connection

	Terminal	D-Sub 9	9 pin (socket) Shield	External Device Terminal block					
	resistance 220 Ω (1/4W) Terminal resistance	resistance 220 Ω (1/4W) Terminal resistance	resistance Pin Signal name ///	resistance	resistance	resistance	Pin	Signal name		Signal name
					L1					
			2	RDB	<	L2				
Display	220 Ω (1/4W)	3	SDA		L3					
] 🕺	7	SDB	$ - \cdot \cdot / \cdot \cdot / \cdot \rightarrow $	L4					
			5	SG	\¥	Shield				
	-	4	ERA		FG					
		8	CSA	4	SW7: ON					
		9	ERB							
		6	CSB	 ₄-J						
		Shell	FG							

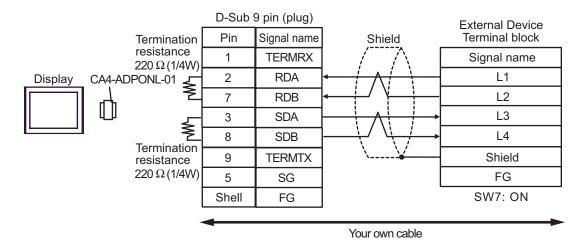


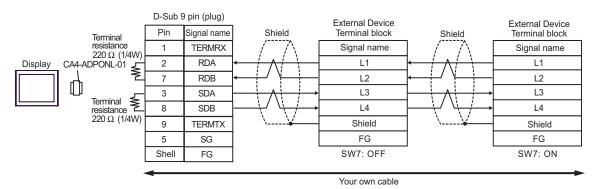
- C. When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection





- D. When using the online adapter (CA4-ADPONL-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection

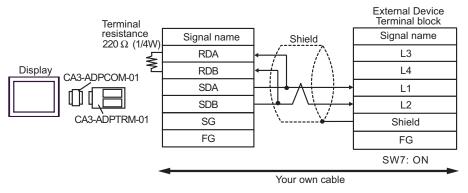




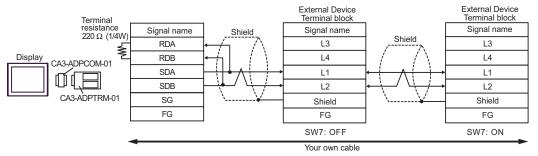
Display (Connection Port)		Cable	Remarks
GP(COM1) ^{*1} AGP-3302 (COM2)	А	COM port conversion adapter by Digital Electronics Corp. CA3-ADPCOM-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	
	В	Your own cable	
GP(COM2) ^{*1}	С	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	Cable length: 1000m or less
	D	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Your own cable	

*1 Except AGP-3302 Series

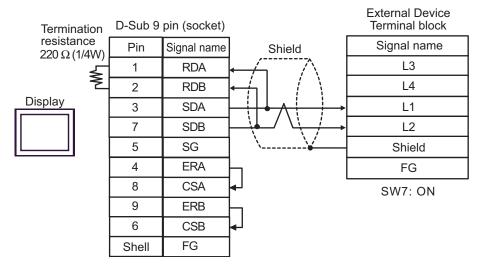
- A. When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection



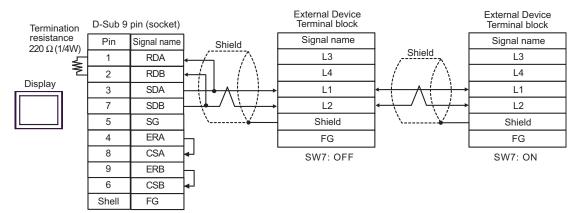
1:n Connection



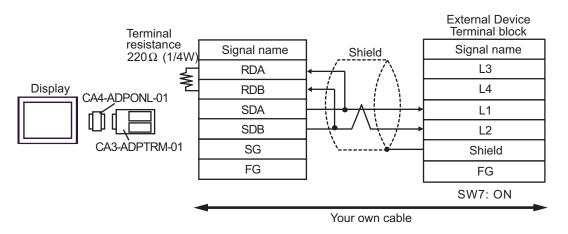
- B. When your own cable is used
- 1:1 Connection



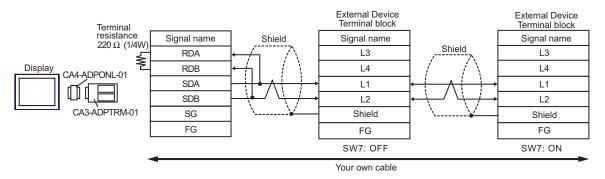
1:n Connection



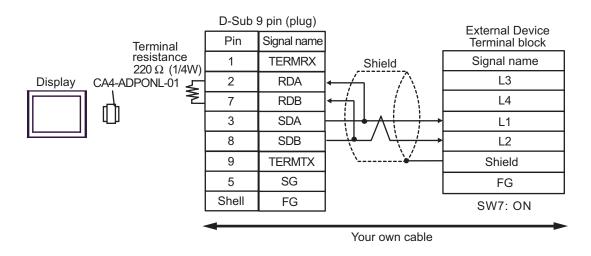
- C. When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection

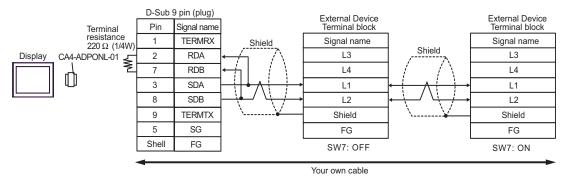


1:n Connection



- D. When using the online adapter (CA4-ADPONL-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection





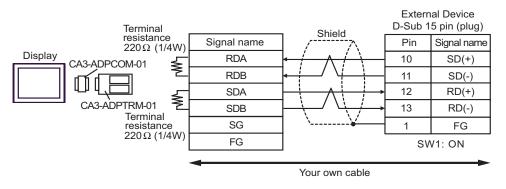
Display (Connection Port)	Cable	Remarks
GP(COM1)	Your own cable	Cable length: 15m or less

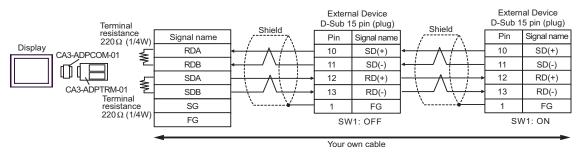
	D-Sub 9	pin (socket)			al Device 5 pin (plug)
	Pin	Signal name	Shield	Pin	Signal name
	2	RD(RXD)		2	SD
Display	3	SD(TXD)		3	RD
5	4	ER(DTR)		5	CTS
	5	5 SG		7	SG
	8	CS(CTS)	▲ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	4	RTS
	6	DR(DSR)		12	
	7	RS(RTS)		14	
	Shell	FG	<u></u>	1	FG

Display (Connection Port)		Cable	Remarks
GP(COM1) ^{*1} AGP-3302 (COM2)	А	COM port conversion adapter by Digital Electronics Corp. CA3-ADPCOM-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	
	В	Your own cable	
GP(COM2) ^{*1}	С	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	Cable length: or less
	D	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Your own cable	

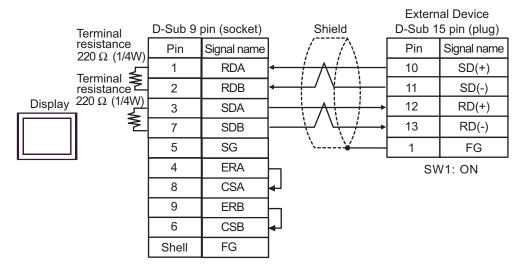
*1 Except AGP-3302 Series

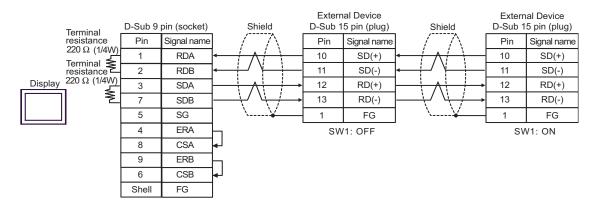
- A. When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection



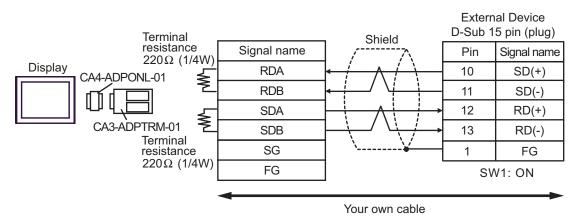


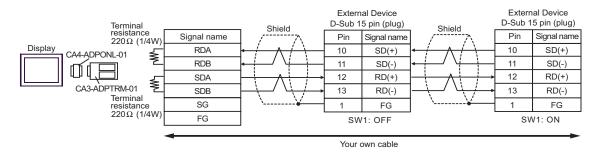
- B. When your own cable is used
- 1:1 Connection



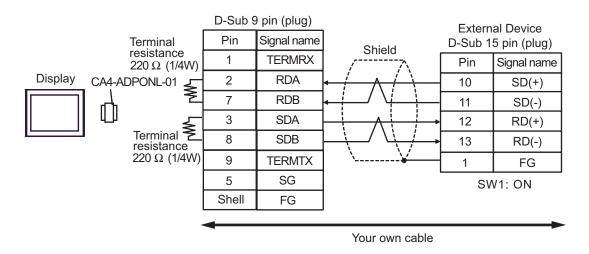


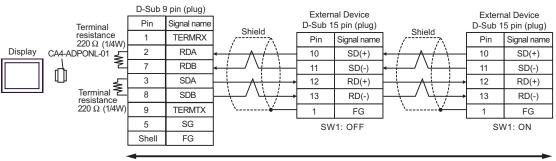
- C. When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection





- D. When using the online adapter (CA4-ADPONL-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection





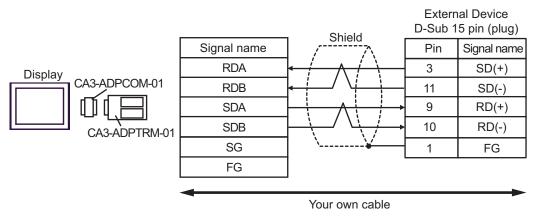
Your own cable

Display (Connection Port)		Cable	Remarks
GP(COM1) ^{*1} AGP-3302 (COM2)	А	COM port conversion adapter by Digital Electronics Corp. CA3-ADPCOM-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	
	В	Your own cable	
GP(COM2) ^{*1}	С	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	Cable length: 1000m or less
	D	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Your own cable	

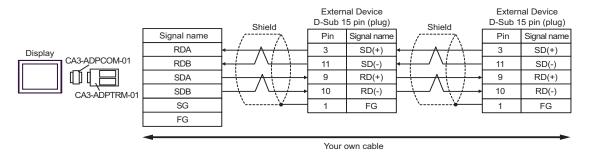
*1 Except AGP-3302 Series

NOTE	•	Do not connect anything to Pins No. 2, 4, 8 and 12 on the External Device.
	•	Do not connect to Pins No. 14 and 15 on the External Device since voltage is +5V.

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



٠ 1:n Connection



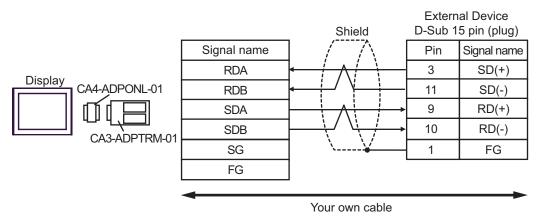
- B. When your own cable is used
- ٠ 1:1 Connection

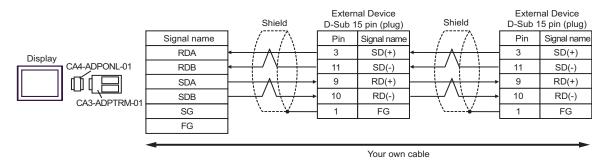
	D-Sub 9	pin (socket)		Shield	External Device D-Sub 15 pin (plug)		
	Pin	Signal name		///	Pin	Signal name	
	1	RDA	┥──	$\leftarrow + \land + \land + \land - \top$		SD(+)	
	2	RDB	<∔/ \ <u></u> [11	SD(-)	
Display	3	SDA				RD(+)	
	7	SDB	\longrightarrow		10	RD(-)	
	5	SG	<u>\¥</u>	1	FG		
	4	ERA					
	8	CSA					
	9	ERB					
	6	CSB	┝┛				
	Shell	FG					

1:n Connection ٠

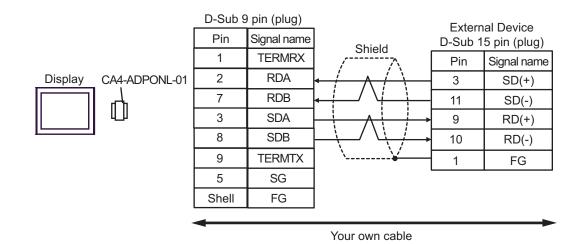
	D-Sub 9	pin (socket)	Shield		al Device 5 pin (plug)	Shield		nal Device I5 pin (plug)
	Pin	Signal name	$ / \Lambda$	Pin	Signal name	/	Pin	Signal name
	1	RDA		- 3	SD(+)		3	SD(+)
	2	RDB	┝╾╾┼╌╯╵┝──┼	· 11	SD(-)		11	SD(-)
Display	3	SDA		• 9	RD(+)		9	RD(+)
	7	SDB	$ +/ \vee + / + \rightarrow$	· 10	RD(-)	$ +/ \vee + / \rightarrow$	10	RD(-)
	5	SG	\¥	- 1	FG	\¥	1	FG
	4	ERA	h					
	8	CSA	 ↓					
	9	ERB	h					
	6	CSB	<mark> </mark> ₄J					
	Shell	FG						

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

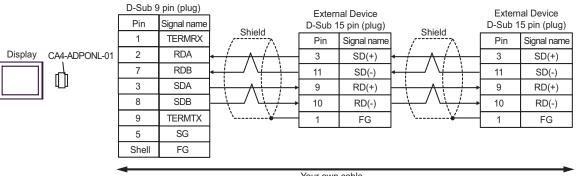




- D. When using the online adapter (CA4-ADPONL-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection



٠ 1:n Connection



Your own cable

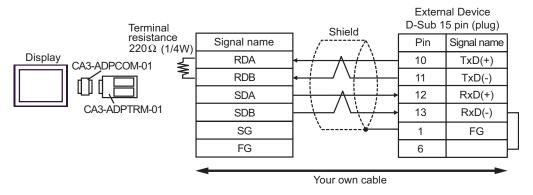
Display (Connection Port)	Cable	Remarks
GP(COM1)	Your own cable	Cable length: 15m or less

	D-Sub 9	pin (socket)	Shield		al Device 5 pin (plug)
	Pin	Signal name		Pin	Signal name
	2	RD(RXD)	←	2	SD
Display	3	SD(TXD)		4	RD
	4	ER(DTR)		12	CTS
	5	SG		7	SG
	8	CS(CTS)		8	RTS
	6	DR(DSR)	······	1	FG
	7	RS(RTS)			
	Shell	FG			

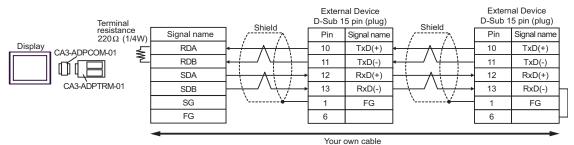
Display (Connection Port)		Cable	Remarks
GP(COM1) ^{*1} AGP-3302 (COM2)	А	COM port conversion adapter by Digital Electronics Corp. CA3-ADPCOM-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	
	В	Your own cable	
GP(COM2) ^{*1}	С	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	Cable length: 1000m or less
	D	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Your own cable	

*1 Except AGP-3302 Series

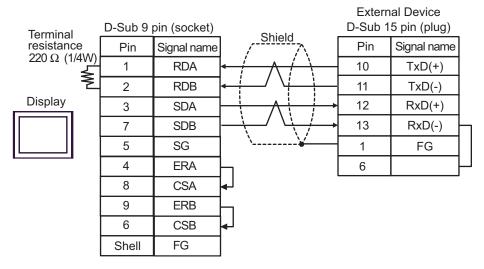
- A. When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection



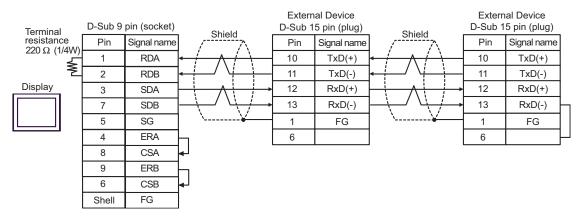
1:n Connection



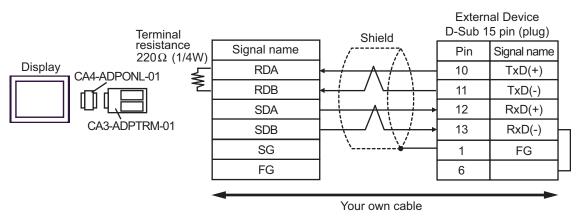
- B. When your own cable is used
- 1:1 Connection

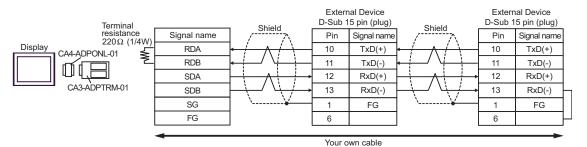


1:n Connection

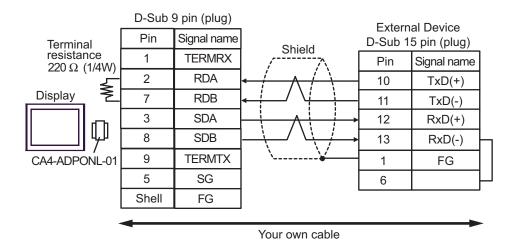


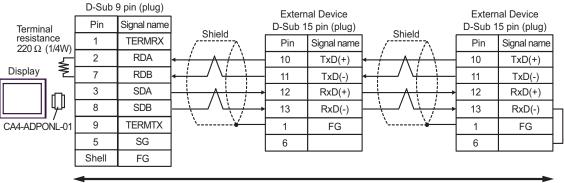
- C. When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection





- D. When using the online adapter (CA4-ADPONL-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection



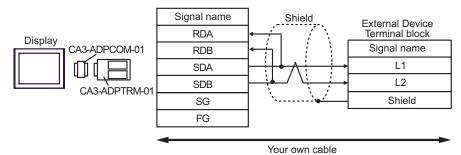


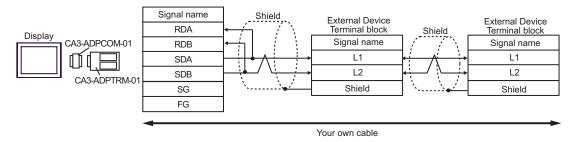
Your own cable

Display (Connection Port)		Cable	Remarks
GP(COM1) ^{*1} AGP-3302 (COM2)	А	COM port conversion adapter by Digital Electronics Corp. CA3-ADPCOM-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	
	В	Your own cable	
GP(COM2) ^{*1}	С	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	Cable length: 1000m or less
	D	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Your own cable	

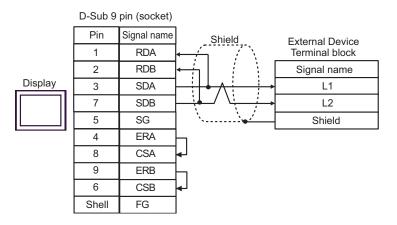
*1 Except AGP-3302 Series

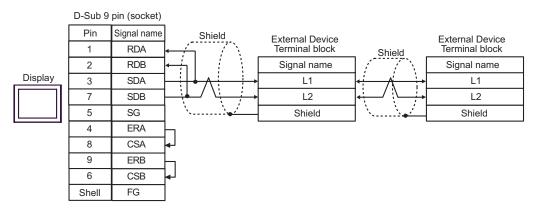
- A. When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection



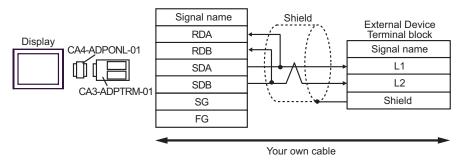


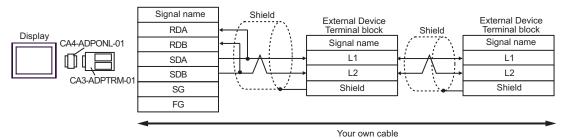
- B. When your own cable is used
- 1:1 Connection



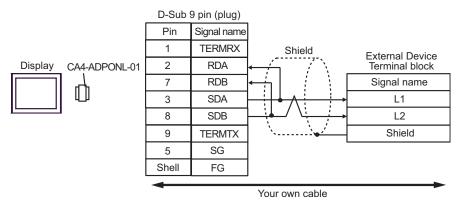


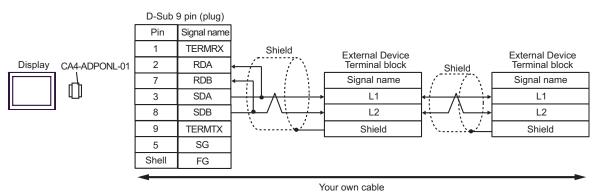
- C. When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection





- D. When using the online adapter (CA4-ADPONL-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection





6 Supported Device

Range of supported device address is shown in the table below. Available type and range of device vary depending on CPU. Be sure to check them in each CPU manual before using.

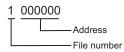
Device	Bit Address	Word Address	32 bits	Remarks
Relay ^{*1}	0000.0-1577.7	A0000-A1576 (]0000-]1576)		<u> </u>
	2000.0-7577.7	A2000-A7576 (]2000-]7576)		÷2] [].78]
Timer (Contact)	T0000-T1777	-		oc 7 8]
Counter (Contact)	C0000-C1777	-	-	oct 8]
Timer Counter (current value) *1	-	B0000-B3776 (b0000-b3776)		÷ 2] [8]
value)		Т0000-Т3776		<u>ві t15</u>
	-	09000-09776		
	-	19000-19776		
	-	29000-29776		
	-	39000-39776		
	-	49000-49776	[L/H]	
	-	59000-59776		
	-	69000-69776		
	-	79000-79776		
Desister	-	89000-89776		÷ 2] 0078]
Register	-	99000-99776		<u>ві t15</u>]
	-	E0000-E0776		
	-	E1000-E1776		
	-	E2000-E2776		
	-	E3000-E3776		
	-	E4000-E4776		
	-	E5000-E5776		
	-	E6000-E6776		
	-	E7000-E7776		

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
File Register ^{*2}	-	1000000-1177776		
	-	2000000-2177776		
	- 6000000-617777	600000-6177776		
	-	7000000-7177776		
	-	F1000000-F1017776		
	-	F11000000-F11177776		
	-	F1E000000-F1E177776		<u>₿ i t15</u>]
	-	F1F000000-F1F177776	17776	
	-	- F2000000-F20177776		
	-	F21000000-F21177776	776	
	-	F2B000000-F2B177776		
	-	F2C000000-F2C177776		

*1 Values in parentheses are used for the word address of the relay and the timer counter (current value) (B) in the manual of the External Device. For entry, use AXXXX or BXXXX.

*2 File Register consists of the file number and the address.



NOTE

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

Cf. GP-Pro EXReference 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 Type & Address" for the address type in data displays.

Device	Device Name	Device Code (HEX)	Address Code
Relay	А	0080	Word Address
Counter (Current Value)	Т	0060	Word Address
Counter (Current value)	В	0061	Word Address
	09	0000	Word Address
	19	0001	Word Address
	29	0002	Word Address
	39	0003	Word Address
	49	0004	Word Address
	59	0005	Word Address
	69	0006	Word Address
	79	0007	Word Address
Register	89	0008	Word Address
Register	99	0009	Word Address
	E0	000A	Word Address
	E1	000B	Word Address
	E2	000C	Word Address
	E3	000D	Word Address
	E4	000E	Word Address
	E5	000F	Word Address
	E6	0010	Word Address
	E7	0011	Word Address

Device	Device Name	Device Code (HEX)	Address Code
	1	0012	Word Address
	2	0013	Word Address
	6	0017	Word Address
	7	0018	Word Address
	F10	0019	Word Address
	F11	001A	Word Address
File Register			
	F1E	0027	Word Address
	F1F	0028	Word Address
	F20	0029	Word Address
	F21	002A	Word Address
	F2B	0034	Word Address
	F2C	0035	Word Address

8 Error Messages

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

Item	Requirements	
No.	Error No.	
Device Name	Name of the External Device where error occurs. Device name is a title of the External Device set with GP-Pro EX.((Initial value[PLC1])	
Error Message	Displays messages related to the error which occurs.	
Error Occurrence Area	 Displays IP address or device address of the External Device where error occurs, or error codes received from the External Device. NOTE IP address is displayed such as "IP address(Decimal): MAC address(Hex)". Device address is displayed such as "Address: Device address". 	
	 Received error codes are displayed such as "Decimal[Hex]". 	

Display Examples of Error Messages

"RHAA035: PLC1: Error has been responded for device write command (Error Code: 1[01H])"

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

Error Codes Specific to the External Device

Error codes specific to the External Device are shown below.

Error Code	Description
0x01	Format error.
0x07	Writing to PLC memory is not executed correctly.
0x0A	Parity error.
0x0B	Framing error.
0x0C	Overrun error.
0x0D	Sum check error.
0x0F	Other CPU is accessing memory.
0x1B	System memory error.