Sharp Manufacturing Systems Corporation

JW Series Computer Link SIO Driver

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Introduction

This manual describes how to connect the Display 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
	WACH	JW-21CM ^{*1}	RS422/485 (4wire)	Setting Example 1 (page 9)	Cable Diagram 1 (page 51)
	3w-2100		RS422/485 (2wire)	Setting Example 2 (page 12)	Cable Diagram 2 (page 55)
.IW20H		Communication	RS232C	Setting Example 3 (page 14)	Cable Diagram 3 (page 60)
0002011	IW-22CU	unit	RS422/485 (4wire)	Setting Example 4 (page 16)	Cable Diagram 4 (page 61)
	Jw-22C0	JW-21CM ^{*1}	RS422/485 (4wire)	Setting Example 1 (page 9)	Cable Diagram 1 (page 51)
			RS422/485 (2wire)	Setting Example 2 (page 12)	Cable Diagram 2 (page 55)
	JW-31CUH1	JW-21CM ^{*1}	RS422/485 (4wire)	Setting Example 1 (page 9)	Cable Diagram 1 (page 51)
			RS422/485 (2wire)	Setting Example 2 (page 12)	Cable Diagram 2 (page 55)
	JW-32CUH1 JW-32CUM1 JW-32CUM2 JW-33CUH1 JW-33CUH2 JW-33CUH3	PG/COMM1 on the CPU unit	RS422/485 (4wire)	Setting Example 5 (page 18)	Cable Diagram 5 (page 65)
JW30H		PG/COMM2 on the CPU unit	RS232C	Setting Example 6 (page 20)	Cable Diagram 6 (page 69)
			RS422/485 (4wire)	Setting Example 7 (page 22)	Cable Diagram 5 (page 65)
		JW-21CM ^{*1}	RS422/485 (4wire)	Setting Example 1 (page 9)	Cable Diagram 1 (page 51)
			RS422/485 (2wire)	Setting Example 2 (page 12)	Cable Diagram 2 (page 55)

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
	WV SOCI W	JW-10CM	RS422/485 (4wire)	Setting Example 8 (page 24)	Cable Diagram 1 (page 51)
	JW-50C011		RS422/485 (2wire)	Setting Example 9 (page 26)	Cable Diagram 2 (page 55)
JW50H	JW-70CUH JW-100CUH	Communication port on the CPU unit	RS232C	Setting Example 10 (page 28)	Cable Diagram 3 (page 60)
JW100H			RS422/485 (4wire)	Setting Example 11 (page 30)	Cable Diagram 7 (page 70)
		JW-10CM	RS422/485 (4wire)	Setting Example 8 (page 24)	Cable Diagram 1 (page 51)
			RS422/485 (2wire)	Setting Example 9 (page 26)	Cable Diagram 2 (page 55)
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 32)	Cable Diagram 8 (page 74)

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
		PG/COMM1 on the CPU unit	RS232C	Setting Example 13 (page 34)	Cable Diagram 9 (page 79)
	JW-311CU		RS422/485 (4wire)	Setting Example 14 (page 36)	Cable Diagram 5 (page 65)
	JW-312CU	W 21CM*2	RS422/485 (4wire)	Setting Example 17 (page 42)	Cable Diagram 1 (page 51)
		JW-21CM ⁻²	RS422/485 (2wire)	Setting Example 18 (page 44)	Cable Diagram 2 (page 55)
1W/300	JW-321CU JW-322CU JW-331CU JW-332CU JW-341CU JW-342CU JW-352CU JW-362CU	PG/COMM1 on the CPU unit	RS232C	Setting Example 13 (page 34)	Cable Diagram 9 (page 79)
300300			RS422/485 (4wire)	Setting Example 14 (page 36)	Cable Diagram 5 (page 65)
		PG/COMM2 on the CPU unit	RS232C	Setting Example 15 (page 38)	Cable Diagram 6 (page 69)
			RS422/485 (4wire)	Setting Example 16 (page 40)	Cable Diagram 5 (page 65)
		JW-21CM ^{*2}	RS422/485 (4wire)	Setting Example 17 (page 42)	Cable Diagram 1 (page 51)
			RS422/485 (2wire)	Setting Example 18 (page 44)	Cable Diagram 2 (page 55)

*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	Unable to read or write the file register 10 to 2C Unable to read or write the file register address 100000 to 176777		
Without sticker	Unable to use in the JW30H Series		

*2 Available with the Ethernet units compatible with JW300. "300" is labeled on the front of JW300-compatible units. For more information, contact the manufacturer of the External Device.

IPC COM Port

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

Usable port

Series	Usable Port			
Ochos	RS-232C	RS-422/485(4 wire)	RS-422/485(2 wire)	
PS-2000B	COM1 ^{*1} , COM2, COM3 ^{*1} , COM4	-	-	
PS-3450A, PS-3451A, PS3000-BA, PS3001-BD	COM1, COM2 ^{*1*2}	COM2 ^{*1*2}	COM2 ^{*1*2}	
PS-3650A, PS-3651A	COM1 ^{*1}	-	-	
PS-3700A (Pentium®4-M) PS-3710A	COM1 ^{*1} , COM2 ^{*1} , COM3 ^{*2} , COM4	COM3 ^{*2}	COM3 ^{*2}	
PS-3711A	COM1 ^{*1} , COM2 ^{*2}	COM2 ^{*2}	COM2 ^{*2}	
PL-3000B, PL-3600T, PL-3600K, PL-3700T, PL-3700K, PL-3900T	COM1 ^{*1*2} , COM2 ^{*1} , COM3, COM4	COM1 ^{*1*2}	COM1 ^{*1*2}	

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

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

DIP switch setting: RS-232C

DIP switch	Setting	Description
1	OFF ^{*1}	Reserved (always OFF)
2	OFF	SIO type: RS-232C
3	OFF	510 type. K5-252e
4	OFF	Output mode of SD (TXD) data: Always output
5	OFF	Terminal resistance (220 Ω) insertion to SD (TXD): None
6	OFF	Terminal resistance (220 Ω) insertion to RD (RXD): None
7	OFF	Short-circuit of SDA (TXA) and RDA (RXA): Not available
8	OFF	Short-circuit of SDB (TXB) and RDB (RXB): Not available
9	OFF	RS (RTS) Auto control mode: Dicabled
10	OFF	KS (KIS) Auto control mode. Disabled

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

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

DIP switch	Setting	Description
1	OFF	Reserved (always OFF)
2	ON	SIO type: RS-422/485
3	ON	510 type. R5-422/465
4	OFF	Output mode of SD (TXD) data: Always output
5	OFF	Terminal resistance (220 Ω) insertion to SD (TXD): None
6	OFF	Terminal resistance (220 Ω) insertion to RD (RXD): None
7	OFF	Short-circuit of SDA (TXA) and RDA (RXA): Not available
8	OFF	Short-circuit of SDB (TXB) and RDB (RXB): Not available
9	OFF	PS (PTS) Auto control mode: Disabled
10	OFF	NS (NIS) Auto control mode. Disabled

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

DIP switch	Setting	Description
1	OFF	Reserved (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 Ω) insertion to SD (TXD): None
6	OFF	Terminal resistance (220 Ω) insertion to RD (RXD): None
7	ON	Short-circuit of SDA (TXA) and RDA (RXA): Available
8	ON	Short-circuit of SDB (TXB) and RDB (RXB): Available
9	ON	RS (RTS) Auto control mode: Enabled
10	ON	NS (NIS) Auto control mode. Endoled

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2 Selection of External Device

Select the External Device to be connected to the Display.

đ	💰 New Project File 🗙					
	-Device/PL	C				
	Maker SHARP MS Corporation					
	Driver	JW Series Computer Link SIO				
	Use System Area <u>Refer to the manual of this Device/PLC</u>					
	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".		
Driver Select a model (series) of the External Device to be connected and connection me Select "JW Series Computer Link SIO". Driver Check the External Device which can be connected in "JW Series Computer Link system configuration. Image: Image			
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 (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 "5.17.6[Setting Guide of [System Setting Window], Setting Guide of [Main Unit Settings], System Area Setting" 		
	Cf. Maintenance/Troubleshooting "2.15.1 Settings common to all Display models ♦System Area Settings"		
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 Digital Electronics Corp., are shown.

3.1 Setting Example 1

Settings 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 SHARP	MS Corporation Series JW Series Computer Link SIO Port COM1
Text Data Mode	2 Change
Communication Settings	
SIO Type	C RS232C C RS422/485(2wire) © RS422/485(4wire)
Speed	19200 💌
Data Length	
Parity	C NONE C EVEN C ODD
Stop Bit	C 1 C 2
Flow Control	C NONE C ER(DTR/CTS) C XON/XOFF
Timeout	3 :: (sec)
Retry	2
Wait To Send	0 (ms)
RI / VCC	© RI C VCC
In the case of RS	232C, you can select the 9th pin to RI (Input)
Isolation Unit, plea	ase select it to VCC. Default
Device-Specific Settings	
Allowable Number of	í Devices/PLCs 16
Number Device Number Device	Vame Settings Series=IW/-10/20H/30H/50H/70H/100H Station No (0.ct)=1

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

💣 Individual Device Settings			
PLC1			
Series	● JW-10/20H/30H/50H/70H/100H		
	Please reconfirm all of address settings that you are using if you have changed the series.		
Station No.(Oct)	1		
	Default		
	OK (<u>D</u>) Cancel		

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.

3.2 Setting Example 2

- Settings 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 SHARP N	4S Corporation	Series JW Series Computer Link SIO Port	COM1
	Text Data Mode	2 <u>Change</u>		
Com	munication Settings			
	SIO Type	C RS232C	• RS422/485(2wire) • RS422/485(4wire)	
	Speed	19200	V	
	Data Length	• 7	© 8	
	Parity	C NONE	• EVEN C ODD	
	Stop Bit	O 1	• 2	
	Flow Control	C NONE	• ER(DTR/CTS) C XON/XOFF	
	Timeout	3 <u>*</u> (s	ec)	
	Retry	2 *		
	Wait To Send	0 🕂 (n	ns)	
	RI / VCC	© RI	O VCC	
	In the case of RS2 or VCC (5V Power Isolation Unit, pleas	32C, you can select Supply). If you use re select it to VCC.	t the 9th pin to RI (Input) the Digital's RS232C Default	
Dev	ice-Specific Settings			
	Allowable Number of	Devices/PLCs	16	
	Number Device N	ame	Settings Series=IW-10/20H/30H/50H/70H/100H Station No.	Oct)=1
	" , heer			000-1

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

💰 Individual Device Settings			
PLC1			
Series	● JW-10/20H/30H/50H/70H/100H		
	Please reconfirm all of address settings that you are using if you have changed the series.		
Station No.(Oct)	1		
	Default		
	OK (<u>D</u>) Cancel		

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 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.

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

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

Devi	ce/PLC 1	
Sun	nmary	Change Device/PLC
	Maker SHARP N	S Corporation Series JW Series Computer Link SIO Port COM1
	Text Data Mode	2 Change
Con	nmunication Settings	
	SIO Type	RS232C O RS422/485(2wire) O RS422/485(4wire)
	Speed	19200
	Data Length	⊙ 7 ○ 8
	Parity	O NONE O EVEN O ODD
	Stop Bit	O 1 O 2
	Flow Control	○ NONE ● ER(DTR/CTS) ○ XON/XOFF
	Timeout	3 · (sec)
	Retry	2 -
	Wait To Send	0 (ms)
	RI / VCC	© RI O VCC
	In the case of RS2 or VCC (5V Power Isolation Unit, pleas	2C, you can select the 9th pin to RI (Input) jupply), If you use the Digital's RS232C select it to VCC. Default
Dev	vice-Specific Settings	
	Allowable Number of	Jevices/PLCs 16
	1 PLC1	me settings Series=JW-10/20H/30H/50H/70H/100H,Station No.(Oct)=1
	,	

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

💰 Individual Device Settings					
PLC1					
Series	● JW-10/20H/30H/50H/70H/100H ● JW-300				
	Please reconfirm all of address settings that you are using if you have changed the series.				
Station No.(Oct)	1				
	Default				
	OK (<u>D</u>) Cancel				

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	Tany. 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.

3.4 Setting Example 4

- Settings of GP-Pro EX
- Communication Settings

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

Devi	ce/PLC 1		
Sur	nmary		Change Device/PLC
	Maker SHARP N	VIS Corporation	Series JW Series Computer Link SIO Port COM1
	Text Data Mode	2 <u>Change</u>	
Cor	nmunication Settings		
	SIO Type	C RS232C	C RS422/485(2wire) © RS422/485(4wire)
	Speed	19200	
	Data Length	⊙ 7	C 8
	Parity	C NONE	
	Stop Bit	O 1	
	Flow Control	C NONE	ER(DTR/CTS) C XON/XOFF
	Timeout	3 🕂 ((sec)
	Retry	2 🔹	
	Wait To Send	0 📑 ((ms)
	RI / VCC	🖲 BL	O VCC
	In the case of RS2 or VCC (5V Power Isolation Unit, pleas	32C, you can selec Supply). If you use se select it to VCC.	ect the 9th pin to RI (Input) ee the Digital's RS232C
Dev	vice-Specific Settings		
	Allowable Number of	Devices/PLCs	16 🔢
	Number Device N	ame	Settings
	M PLUI		UT Joelies=uw-10/20n/b0n/70H/100H,Station No.(Uct)=1

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

券 Individual Device Settings				
PLC1				
Series	● JW-10/20H/30H/50H/70H/100H ● JW-300			
	Please reconfirm all of address settings that you are using if you have changed the series.			
Station No.(Oct)	1			
	Default			
	OK (<u>D</u>) Cancel			

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	
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.

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

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

Devi	ce/PLC 1		
Sur	nmary		Change Device/PLC
	Maker SHARP N	VIS Corporation	Series JW Series Computer Link SIO Port COM1
	Text Data Mode	2 <u>Change</u>	
Cor	nmunication Settings		
	SIO Type	C RS232C	C RS422/485(2wire) © RS422/485(4wire)
	Speed	19200	
	Data Length	⊙ 7	C 8
	Parity	C NONE	
	Stop Bit	O 1	
	Flow Control	C NONE	ER(DTR/CTS) C XON/XOFF
	Timeout	3 🕂 ((sec)
	Retry	2 🔹	
	Wait To Send	0 📑 ((ms)
	RI / VCC	🖲 BL	O VCC
	In the case of RS2 or VCC (5V Power Isolation Unit, pleas	32C, you can selec Supply). If you use se select it to VCC.	ect the 9th pin to RI (Input) ee the Digital's RS232C
Dev	vice-Specific Settings		
	Allowable Number of	Devices/PLCs	16 🔢
	Number Device N	ame	Settings
	M PLUI		UT Joelies=uw-10/20n/b0n/70H/100H,Station No.(Uct)=1

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

💰 Individual 🛛	Device Settings	×
PLC1		
Series	● JW-10/20H/30H/50H/70H/100H ● JW-300	
	Please reconfirm all of address settings that you are using if you have changed the series.	
Station No.(Oct)	1	
	Default	
	OK (<u>D</u>) Cancel	

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	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 #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

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

Devi	ce/PLC 1	
Sun	nmary	Change Device/PLC
	Maker SHARP N	S Corporation Series JW Series Computer Link SIO Port COM1
	Text Data Mode	2 Change
Con	nmunication Settings	
	SIO Type	RS232C O RS422/485(2wire) O RS422/485(4wire)
	Speed	19200
	Data Length	⊙ 7 ○ 8
	Parity	O NONE O EVEN O ODD
	Stop Bit	O 1 O 2
	Flow Control	○ NONE
	Timeout	3 · (sec)
	Retry	2 -
	Wait To Send	0 (ms)
	RI / VCC	© RI O VCC
	In the case of RS2 or VCC (5V Power Isolation Unit, pleas	2C, you can select the 9th pin to RI (Input) jupply), If you use the Digital's RS232C select it to VCC. Default
Dev	vice-Specific Settings	
	Allowable Number of	Jevices/PLCs 16
	1 PLC1	me settings Series=JW-10/20H/30H/50H/70H/100H,Station No.(Oct)=1
	,	

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

💰 Individual I	Device Settings 🛛 🗙
PLC1	
Series	● JW-10/20H/30H/50H/70H/100H
	Please reconfirm all of address settings that you are using if you have changed the series.
Station No.(Oct)	1 *
	Default
	OK (<u>D</u>) Cancel

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 #222

Setting Area	Setting Value	Setup Description
#222	0(H)	RS232C connection

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	
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.

3.7 Setting Example 7

Settings of GP-Pro EX

Communication Settings

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

Devi	ce/PLC 1		
Sur	nmary		Change Device/PLC
	Maker SHARP N	VIS Corporation	Series JW Series Computer Link SIO Port COM1
	Text Data Mode	2 <u>Change</u>	
Cor	nmunication Settings		
	SIO Type	C RS232C	C RS422/485(2wire) © RS422/485(4wire)
	Speed	19200	
	Data Length	⊙ 7	C 8
	Parity	C NONE	
	Stop Bit	O 1	
	Flow Control	C NONE	ER(DTR/CTS) C XON/XOFF
	Timeout	3 🕂 ((sec)
	Retry	2 🔹	
	Wait To Send	0 📑 ((ms)
	RI / VCC	🖲 BL	O VCC
	In the case of RS2 or VCC (5V Power Isolation Unit, pleas	32C, you can selec Supply). If you use se select it to VCC.	ect the 9th pin to RI (Input) ee the Digital's RS232C
Dev	vice-Specific Settings		
	Allowable Number of	Devices/PLCs	16 🔢
	Number Device N	ame	Settings
	M PLUI		UT Joelies=uw-ru/20n/30n/70n/70n/700H,Station No.(Uct)=1

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

💰 Individual Device Settings 🛛 🗙				
PLC1				
Series	● JW-10/20H/30H/50H/70H/100H C JW-300			
	Please reconfirm all of address settings that you are using if you have changed the series.			
Station No.(Oct)	1			
	Default			
	OK (<u>D</u>) Cancel			

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 #222

1:1 Connection

Setting Area	Setting Value	Setup Description
#222	00(H)	RS-422A connection

1:n Connection

Setting Area	Setting Value	Setup Description
#222	04(H)	RS-422A connection

• "1:n Connection" is enabled by using JW-32CUH1/33CUH1/33CUH2/33CUH3 (with software version 3.5 or later) or JW-32CUM1/32CUM2.

♦ 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(0)	Station No. setting. Enter in octal number.

3.8 Setting Example 8

Settings of GP-Pro EX

Communication Settings

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

Devi	ce/PLC 1		
Sur	nmary		Change Device/PLC
	Maker SHARP N	VIS Corporation	Series JW Series Computer Link SIO Port COM1
	Text Data Mode	2 <u>Change</u>	
Cor	nmunication Settings		
	SIO Type	C RS232C	C RS422/485(2wire) © RS422/485(4wire)
	Speed	19200	
	Data Length	⊙ 7	C 8
	Parity	C NONE	
	Stop Bit	O 1	
	Flow Control	C NONE	ER(DTR/CTS) C XON/XOFF
	Timeout	3 🕂 ((sec)
	Retry	2 🔹	
	Wait To Send	0 📑 ((ms)
	RI / VCC	🖲 BL	O VCC
	In the case of RS2 or VCC (5V Power Isolation Unit, pleas	32C, you can selec Supply). If you use se select it to VCC.	ect the 9th pin to RI (Input) ee the Digital's RS232C
Dev	vice-Specific Settings		
	Allowable Number of	Devices/PLCs	16 🔢
	Number Device N	ame	Settings
	M PLUI		UT Joelies=uw-ru/20n/30n/70n/70n/700H,Station No.(Uct)=1

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

💰 Individual Device Settings 🛛 🗙				
PLC1				
Series	● JW-10/20H/30H/50H/70H/100H			
	Please reconfirm all of address settings that you are using if you have changed the series.			
Station No.(Oct)	1 *			
	Default			
	OK (<u>D</u>) Cancel			

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

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.

3.9 Setting Example 9

- Settings of GP-Pro EX
- Communication Settings

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

Devi	ce/PLC 1			
Sur	nmary		Change Device/PLC	
	Maker SHARP 1	MS Corporation	Series JW Series Computer Link SIO Port COM1	1
	Text Data Mode	2 Change		
Con	nmunication Settings			
	SIO Type	O R\$232C	RS422/485(2wire) RS422/485(4wire)	
	Speed	19200	v	
	Data Length	• 7	C 8	
	Parity	O NONE	EVEN C ODD	
	Stop Bit	0.1	© 2	
	Flow Control	O NONE	ER(DTR/CTS) O XON/XOFF	
	Timeout	3 📫 (\$	(sec)	
	Retry	2		
	Wait To Send	0 📫 (r	(ms)	
	RI / VCC	© BI	C VCC	
	In the case of RS2 or VCC (5V Power Isolation Unit, plea	32C, you can selec Supply). If you use se select it to VCC.	e the Digital's RS232C Default	
Dev	vice-Specific Settings			
	Allowable Number of	Devices/PLCs	16	
	Number Device N	ame	Settings Series=IW-10/20H/30H/50H/70H/100H Station No (Oct)=1	

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

💰 Individual Device Settings 🛛 🗙			
PLC1			
Series	● JW-10/20H/30H/50H/70H/100H		
	Please reconfirm all of address settings that you are using if you have changed the series.		
Station No.(Oct)	1		
	Default		
	OK (<u>D</u>) Cancel		

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

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

Devi	ce/PLC 1	
Sun	nmary	Change Device/PLC
	Maker SHARP N	IS Corporation Series JW Series Computer Link SID Port COM1
	Text Data Mode	2 Change
Con	nmunication Settings	
	SIO Type	RS232C O RS422/485(2wire) O RS422/485(4wire)
	Speed	19200
	Data Length	© 7 C 8
	Parity	C NONE • EVEN C ODD
	Stop Bit	© 1 © 2
	Flow Control	C NONE
	Timeout	3 <u>*</u> (sec)
	Retry	2 📫
	Wait To Send	0 (ms)
	RI / VCC	RI O VCC
	In the case of RS2 or VCC (5V Power Isolation Unit, pleas	I2C, you can select the 9th pin to RI (Input) Supply). If you use the Digital's RS232C e select it to VCC.
Dev	vice-Specific Settings	
	Allowable Number of	Devices/PLCs 16
	Number Device Na 1 PLC1	.me Settings Series=JW-10/20H/30H/50H/70H/100H,Station No.(Oct)=1
	· · ·	

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

💰 Individual Device Settings 🛛 🗙			
PLC1			
Series	● JW-10/20H/30H/50H/70H/100H		
	Please reconfirm all of address settings that you are using if you have changed the series.		
Station No.(Oct)	1		
	Default		
	OK (<u>D</u>) Cancel		

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

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

Devi	ce/PLC 1		
Sur	nmary		Change Device/PLC
	Maker SHARP N	VIS Corporation	Series JW Series Computer Link SIO Port COM1
	Text Data Mode	2 <u>Change</u>	
Cor	nmunication Settings		
	SIO Type	C RS232C	C RS422/485(2wire) © RS422/485(4wire)
	Speed	19200	
	Data Length	⊙ 7	C 8
	Parity	C NONE	
	Stop Bit	O 1	
	Flow Control	C NONE	ER(DTR/CTS) C XON/XOFF
	Timeout	3 🕂 ((sec)
	Retry	2 🔹	
	Wait To Send	0 📑 ((ms)
	RI / VCC	🖲 BL	O VCC
	In the case of RS2 or VCC (5V Power Isolation Unit, pleas	32C, you can selec Supply). If you use se select it to VCC.	ect the 9th pin to RI (Input) ee the Digital's RS232C
Dev	vice-Specific Settings		
	Allowable Number of	Devices/PLCs	16 🔢
	Number Device N	ame	Settings
	M PLUI		UT Joelies=uw-10/20n/b0n/70H/100H,Station No.(Uct)=1

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

💰 Individual Device Settings 🛛 🗙				
PLC1				
Series	● JW-10/20H/30H/50H/70H/100H			
	Please reconfirm all of address settings that you are using if you have changed the series.			
Station No.(Oct)	1 *			
	Default			
	OK (<u>D</u>) Cancel			

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	
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.

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

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

Devi	ce/PLC 1			
Sur	nmary		Change Device/PLC	
	Maker SHARP 1	MS Corporation	Series JW Series Computer Link SIO Port COM1	1
	Text Data Mode	2 Change		
Con	nmunication Settings			
	SIO Type	O R\$232C	RS422/485(2wire) RS422/485(4wire)	
	Speed	19200	v	
	Data Length	• 7	C 8	
	Parity	O NONE	EVEN C ODD	
	Stop Bit	0.1	© 2	
	Flow Control	O NONE	ER(DTR/CTS) O XON/XOFF	
	Timeout	3 📫 (\$	(sec)	
	Retry	2		
	Wait To Send	0 📫 (r	(ms)	
	RI / VCC	© BI	C VCC	
	In the case of RS2 or VCC (5V Power Isolation Unit, plea	32C, you can selec Supply). If you use se select it to VCC.	e the Digital's RS232C Default	
Dev	vice-Specific Settings			
	Allowable Number of	Devices/PLCs	16	
	Number Device N	ame	Settings Series=IW-10/20H/30H/50H/70H/100H Station No (Oct)=1	

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

💰 Individual Device Settings			
PLC1			
Series	● JW-10/20H/30H/50H/70H/100H ● JW-300		
	Please reconfirm all of address settings that you are using if you have changed the series.		
Station No.(Oct)	1		
	Default		
	OK (<u>D</u>) Cancel		

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	asfer Speed: 19200 bps					
D2	OFF						
D3	OFF	Darity: Evan					
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.

3.13 Setting Example 13

- Settings 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 SHARP M	1S Corporation	Series	JW Serie	es Computer Link SIO	Port	COM1
	Text Data Mode	2 Change					
Com	munication Settings						
	SIO Type	RS232C	O RS422/485(2	2wire)	C RS422/485(4wire)		
	Speed	19200	•				
	Data Length	7 7	08				
	Parity	C NONE	EVEN	0	ODD		
	Stop Bit	0.1	● 2				
	Flow Control	C NONE	• ER(DTR/CT	s) O (XON/XOFF		
	Timeout	3 📫 (s	ec)				
	Retry	2 🔹					
	Wait To Send	0 🕂 (n	ns)				
	RI / VCC	• RI	O VCC				
	In the case of RS23 or VCC (5V Power Isolation Unit, pleas	32C, you can select Supply). If you use e select it to VCC.	t the 9th pin to RI the Digital's RS2:	(Input) 32C	Default		
Devi	ice-Specific Settings						
	Allowable Number of	Devices/PLCs	16 📷				
	Number Device Na	ame	Settings Series	s=1₩-300.9	Station No (Oct)=1		
	1 1 1 201		HE JOSHOC				

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

💰 Individual	Device Settings	×
PLC1		
Series	○ JW-10/20H/30H/50H/70H/100H ⊙ JW-300	
	Please reconfirm all of address settings that you are using if you have changed the series.	
Station No.(Oct)	1	
	Default	
	OK (<u>D)</u> Cancel]

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 #0234

Setting Area	Setting Value	Setup Description
#0234	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	sfer Speed: 19200 bps					
D2	OFF						
D3	OFF	Parity: Even					
D4	ON	Tanty. Even					
D5	ON	Stop Bit: 2 bits					
D6	OFF	Data Length: 7 bits					
D7	OFF	Always OFF					

♦ Setting for #0235

Setting Area	Setting Value	Setup Description	
#0235	1(o)	Station No. setting. Enter in octal number.	

3.14 Setting Example 14

- Settings 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						1	Change Device/PLC
	Maker SHARP M	1S Corporation	Series	JW Seri	es Computer Lin	ik SIO	Port	COM1
	Text Data Mode	2 <u>Change</u>						
Com	munication Settings							
	SIO Type	C RS232C	C RS422/485()	2wire)	• RS422/48	35(4wire)		
	Speed	19200	-					
	Data Length	7	C 8					
	Parity	C NONE	EVEN	0	ODD			
	Stop Bit	0.1	● 2					
	Flow Control	C NONE	• ER(DTR/CT	s) O	XON/XOFF			
	Timeout	3 📑 (;	sec)					
	Retry	2						
	Wait To Send	0 🔅 ()	ms)					
	RI / VCC	© BI	O VCC					
	In the case of RS2 or VCC (5V Power Isolation Unit, pleas	32C, you can selec Supply). If you use e select it to VCC.	t the 9th pin to RI the Digital's RS2	(Input) 32C		Default		
Devi	ice-Specific Settings							
	Allowable Number of	Devices/PLCs	16 📷					
	Number Device Na	ame	Settings	s=JW-3003	Station No. (Oct)	=1		
			Refer to onlow			, .		

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

💰 Individual	Device Settings	×
PLC1		
Series	○ JW-10/20H/30H/50H/70H/100H ⊙ JW-300	
	Please reconfirm all of address settings that you are using if you have changed the series.	
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 #0234

Setting Area	Setting Value	Setup Description
#0234	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	Data Length: 7 bits
D7	OFF	Always OFF

♦ Setting for #0235

Setting Area	Setting Value	Setup Description
#0235	1(o)	Station No. setting. Enter in octal number.

3.15 Setting Example 15

- Settings 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 SHARP M	1S Corporation	Series	JW Serie	es Computer Link SIO	Port	COM1
	Text Data Mode	2 <u>Change</u>					
Com	munication Settings						
	SIO Type	RS232C	C RS422/485(2	2wire)	C RS422/485(4wire)		
	Speed	19200	•				
	Data Length	7 7	C 8				
	Parity	C NONE	EVEN	0	ODD		
	Stop Bit	0.1	● 2				
	Flow Control	C NONE	• ER(DTR/CT	6) O (XON/XOFF		
	Timeout	3 📫 (s	sec)				
	Retry	2 📫					
	Wait To Send	n) 🗧 🛛	ns)				
	RI / VCC	• RI	O VCC				
	In the case of RS2 or VCC (5V Power Isolation Unit, pleas	32C, you can selec Supply). If you use e select it to VCC.	t the 9th pin to RI the Digital's RS23	(Input) 32C	Default		
Dev	ice-Specific Settings						
	Allowable Number of	Devices/PLCs	16 🚮				
	Number Device Na	ame	Settings	≔JW-300.9	Station No.(Oct)=1		
	,		HALL I FRANK				

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

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].

💰 Individual Device Settings 🛛 🗙					
PLC1					
Series	○ JW-10/20H/30H/50H/70H/100H				
	Please reconfirm all of address settings that you are using if you have changed the series.				
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	Data Length: 7 bits
D7	OFF	Always OFF

♦ Setting for #0237

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

3.16 Setting Example 16

- Settings 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 SHARP M	1S Corporation	Series	JW Serie	es Computer Link SIO	Po	rt COM1
	Text Data Mode	2 Change					
Com	munication Settings						
	SIO Type	C RS232C	C RS422/485(2	2wire)	• RS422/485(4wire)	l	
	Speed	19200	•				
	Data Length	7	C 8				
	Parity	C NONE	EVEN	0	ODD		
	Stop Bit	O 1	● 2				
	Flow Control	C NONE	• ER(DTR/CTS	5) O	XON/XOFF		
	Timeout	3 📑 (;	sec)				
	Retry	2					
	Wait To Send	0 🔅 (1	ms)				
	RI / VCC	© RI	O VCC				
	In the case of RS2 or VCC (5V Power Isolation Unit, pleas	32C, you can selec Supply). If you use re select it to VCC.	at the 9th pin to RI a the Digital's RS23	(Input) 32C	Defau	lt	
Dev	ice-Specific Settings						
	Allowable Number of	Devices/PLCs	16 📑				
	Number Device Na	ame	Settings	⇒JW-300.9	Station No.(Oct)=1		
			Rect Jo onlos				

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

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].

💰 Individual Device Settings 🛛 🗙					
PLC1					
Series	○ JW-10/20H/30H/50H/70H/100H				
	Please reconfirm all of address settings that you are using if you have changed the series.				
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	Data Length: 7 bits
D7	OFF	Always OFF

♦ Setting for #0237

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

3.17 Setting Example 17

- Settings 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						1	Change Device/PLC
M	1aker SHARP M	S Corporation	Series	JW Ser	ies Computer I	Link SIO	Port	COM1
Т	ext Data Mode	2 <u>Change</u>						
Comm	unication Settings							
S	ilO Type	C RS232C	C RS422/48	5(2wire)	• RS422/	/485(4wire)		
S	ipeed	19200	-					
D)ata Length	• 7	O 8					
P	Parity	O NONE	• EVEN	0	ODD			
S	itop Bit	O 1	• 2					
F	low Control	O NONE	• ER(DTR/C	:TS) C	XON/XOFF			
Т	imeout	3 🔹 (s	ec)					
B	letry	2 .						
V	Vait To Send	n) 🗧 🛛 🔾	ns)					
B	N / VCC	© BI	O VCC					
	In the case of RS23 or VCC (BV Power 9	(2C, you can selec Supply), If you use	t the 9th pin to F	RI (Input)				
	Isolation Unit, please	e select it to VCC.	the orgitalis ha	2020		Default		
Device	e-Specific Settings							
A	llowable Number of [Devices/PLCs	16 📷					
1	Number Device Na	me	Settings		Chalian Ma (O	-1-1		
			III ISer	es=0 w=300,	Joration NO.(U	cij=r		

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

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 Settings 🛛 🗙			
PLC1			
Series	○ JW-10/20H/30H/50H/70H/100H ⊙ JW-300		
	Please reconfirm all of address settings that you are using if you have changed the series.		
Station No.(Oct)	1 *		
	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 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.

3.18 Setting Example 18

- Settings 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 SHARP N	4S Corporation	Series	JW Seri	es Computer Link SIO	Po	ort COM1
	Text Data Mode	2 Change					
Com	munication Settings						
	SIO Type	C RS232C	RS422/485(2wire)	C RS422/485(4wire)	
	Speed	19200	•				
	Data Length	• 7	C 8				
	Parity	O NONE	EVEN	0	ODD		
	Stop Bit	O 1	• 2				
	Flow Control	O NONE	ER(DTR/CT)	s) O	XON/XOFF		
	Timeout	3 🔹 (se	c)				
	Retry	2 📫					
	Wait To Send	0 📫 (m	5)				
	RI / VCC	🖲 BI	O VCC				
	In the case of RS2 or VCC (BV Rower	32C, you can select Supplu). If you use t	the 9th pin to RI	(Input)			
	Isolation Unit, pleas	e select it to VCC.	ne orgitaris moz	020	Defau	ılt	
Dev	ice-Specific Settings						
	Allowable Number of	Devices/PLCs	16 📊				
	Number Device N	ame	Settings	- lw/.200	Station No (Oot)=1		
			Line (Selle:	s-0 vv *300,	5(d(0)1140.(000)=1		

NOTE

• Setting value for Wait To Send differs depending on the External Device. Please refer to the manual of the External Device for more details.

Device Setting

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

💰 Individual Device Settings 🔹 👌			
PLC1			
Series	○ JW-10/20H/30H/50H/70H/100H		
	Please reconfirm all of address settings that you are using if you have changed the series.		
Station No.(Oct)	1		
	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 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 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.

Unit No. Switch

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

4 Setup Items

Set communication settings of the Display with GP-Pro Ex or in off-line mode of the Display. The setting of each parameter must be identical to that of External Device. "3 Example of Communication Setting" (page 9)

4.1 Setup Items in GP-Pro EX

Communication Settings

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

Device	e/PLC 1	
Sumr	mary	Change Device/PLC
	Maker SHARP M	S Corporation Series JW Series Computer Link SIO Port COM1
	Text Data Mode	2 Change
Comr	munication Settings	
	SIO Type	RS232C C RS422/485(2wire) C RS422/485(4wire)
	Speed	19200
	Data Length	© 7 C 8
	Parity	O NONE O EVEN O ODD
	Stop Bit	O 1 O 2
	Flow Control	O NONE O ER(DTR/CTS) O XON/XOFF
	Timeout	3 (sec)
	Retry	2 *
	Wait To Send	0 (ms)
	RI / VCC	RI VCC
	In the case of RS23 or VCC (5V Power S Isolation Unit, pleas	2C, you can select the 9th pin to RI (Input) upply). If you use the Digital's RS232C select it to VCC. Default
Devi	ce-Specific Settings	
	Allowable Number of I	evices/PLCs 16 📷
	Number Device Na	ne Settings
	👗 1 PLC1	Series=JW-10/20H/30H/50H/70H/100H,Station 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. 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 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		
Series	● JW-10/20H/30H/50H/70H/100H ○ JW-300	
	Please reconfirm all of address settings that you are us if you have changed the series.	ing
Station No.(Oct)	1	
	Defa	ult
	OK (<u>D</u>) Cancel	

Setup Items	Setup Description	
Series	Select a series of the External Device	
Station No. (Oct)	 Enter the unit No. of the External Device with "01 to 77" (octal). NOTE When connecting the JW10 Series, enter with "0 to 77" (octal). 	

4.2 Settings in Off-Line Mode

NOTE

• Refer to the Maintenance/Troubleshooting manual for information on how to enter off-line mode or about the operation.

Cf. Maintenance/Troubleshooting Manual "2.2 Off-line Mode"

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		-
JW Series Compu	ter Link SIO		[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 • 0 •	
	Exit		Back	2007/03/09 21:14:17

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.		

Setup Items	Setup Description
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 Equipment Settings]. Touch the External Device you want to set from the displayed list, and touch [Device Settings].

Comm.	Device	Option		
			[00M1]	
JW Series Compu	iter Link SIU		[COMT]	Page I/I
Devic	e/PLC Name PLC	01		-
	Series	JW-10/20H	I/30H/50H/70H/100	Η
	Station No.(Oct)		1 🔻 🔺	
	Exit		Back	2007/03/09 21:14:24

Setup Items	Setup Description
Device/PLC Name	Select the External Device to set. Device name is a title of the External Device set with GP- Pro EX. (Initial value [PLC1])
Series	Display a series of the External Device
Station No. (Oct)	 Enter the unit No. of the External Device with "01 to 77" (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	ter Link SIO RI / VCC	• RI	[COM1]	Page 1/1
	In the case the 9th pin Power Suppl RS232C Isol it to VCC.	of RS232C, you to RI(Input) or y).If you use th ation Unit, plea	can select VCC(5V e Digital's se select	
	Exit		Back	2007/03/09 21:14:28

Setup Items	Setup Description
RI/VCC	Switches RI/VCC of the 9th pin. It is necessary to change RI/5V by changeover switch of IPC when connect with IPC. Please refer to the manual of the IPC for more detail.

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

Cable Diagram 1

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) IPC ^{*3}	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 ^{*4} (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	Cable length: 1000m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A

*4 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



- **NOTE** When IPC is used as the Display, the terminal resistance of 220Ω can be inserted by the fact that the dip switch 5, 6 of IPC is turned to ON.
- B. When your own cable is used
- 1:1 Connection



1:n Connection



NOTE

• When IPC is used as the Display, the terminal resistance of 220Ω can be inserted by the fact that the dip switch 5, 6 of IPC is turned to ON.

- 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 (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2)	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 ^{*3} (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	Cable length: 1000m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	
IPC ^{*4}	Е	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	F	Your own cable	

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A

*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 your own cable is used
- 1:1 Connection



1:n Connection



- 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



• 1:n Connection



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



- E. 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



NOTE

• When IPC is used as the Display, the terminal resistance of 220Ω can be inserted by the fact that the dip switch 6 of IPC is turned to ON.

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



1:n Connection



the dip switch 6 of IPC is turned to ON.

Display (Connection Port)	Cable	Remarks
GP (COM1) ST (COM1) IPC ^{*1} PC/AT	Your own cable	Cable length: 15m or less

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

	D-Sub 9	pin (socket)		Extern D-Sub 1	al Device 5 pin (plug)
	Pin	Signal name	Shield	Pin	Signal name
	2	RD(RXD)		2	SD
Display	3	SD(TXD)		3	RD
4 5 8 6 7 She	4	ER(DTR)		5	CTS
	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 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) IPC ^{*3}	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 ^{*4} (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	Cable length: or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

*1 All GP models except AGP-3302B

- *2 All ST models except AST-3211A
- *4 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



NOTE • When IPC is used as the Display, the terminal resistance of 220Ω can be inserted by the fact that the dip switch 5, 6 of IPC is turned to ON.

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



• 1:n Connection



• When IPC is used as the Display, the terminal resistance of 220Ω can be inserted by the fact that the dip switch 5, 6 of IPC is turned to ON.

- 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



• 1:n Connection



Your own cable

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) IPC ^{*3}	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 ^{*4} (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	Cable length: 1000m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A

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

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



• 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

• 1:n Connection



Your own cable

Display (Connection Port)	Cable	Remarks
GP (COM1) ST (COM1) IPC ^{*1} PC/AT	Your own cable	Cable length: 15m or less

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

	D-Sub 9 pin (socket)		Shield	External Device D-Sub 15 pin (plug)	
Display	Pin	Signal name		Pin	Signal name
	2	RD(RXD)		2	SD
	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 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) IPC ^{*3}	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	Cable length: 1000m or less	
GP ^{*4} (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable		
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable		

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A

*4 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



NOTE • When IPC is used as the Display, the terminal resistance of 220Ω can be inserted by the fact that the dip switch 6 of IPC is turned to ON.

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



1:n Connection



- 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




Cable Diagram 8

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2)	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*3 (COM2)		Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	Cable length: 1000m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	
IPC ^{*4}	Е	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	F	Your own cable	

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A

*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 your own cable is used
- 1:1 Connection



1:n Connection



- 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



• 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



- E. 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



Your own cable

1:n Connection



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



1:n Connection



Cable Diagram 9

Display (Connection Port)	Cable	Remarks
GP (COM1) ST (COM1) IPC ^{*1} PC/AT	Your own cable	Cable length: 15m or less

*1 Only the COM port which can communicate by RS-232C can be used. ☞ ■ IPC COM Port (page 6)

	D-Sub 9 pin (socket)			Shield	External Device D-Sub 15 pin (plug)	
	Pin	Signal name			Pin	Signal name
	2	RD(RXD)	◀		2	SD
Display	3	SD(TXD)			4	RD
	5	SG			7	SG
	4	ER(DTR)			1	FG
	8	CS(CTS)	▲			
	6	DR(DSR)				
	7	RS(RTS)	\vdash			
	Shell	FG				

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.

■JW-10/20H/30H/50H/70H/100H Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
D.1 *1	0000.0-1577.7	A0000-A1576 (]0000-]1576)		<u> </u>
Kelay	2000.0-7577.7	A2000-A7576 (]2000-]7576)		
Timer (Contact)	T0000-T1777	-		<u>oc</u> 8
Counter (Contact)	C0000-C1777	-		<u>oc</u> 8
Timer Counter (current	-	B0000-B3776 (b0000-b3776)		÷ 2] [0078]
value)		T0000-T3776	_	<u>ві t15</u>
	-	09000-09776		
	-	19000-19776		
	-	29000-29776		
	-	39000-39776		
	-	49000-49776		
	-	59000-59776		
	-	69000-69776		
	-	79000-79776		
Desister	-	89000-89776		÷ 2] 0078
Register	-	99000-99776		<u>ві</u> 15]
	-	E0000-E0776		
	-	E1000-E1776		
	-	E2000-E2776		
	-	E3000-E3776		
	-	E4000-E4776		
	-	E5000-E5776		
	-	E6000-E6776		
	-	Е7000-Е7776		

Device	Bit Address	Word Address	32 bits	Remarks
	-	1000000-1177776		
	-	2000000-2177776		
	-	6000000-6177776		
	-	7000000-7177776		
File Register ^{*2}	-	F10000000-F10177776	[L / H]	21
	-	F11000000-F11177776		
	-	F1E000000-F1E177776		Bit
	-	F1F000000-F1F177776		
	-	F20000000-F20177776		
	-	F21000000-F21177776		
	-	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 (Direct Access Method)"

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

"Manual Symbols and Terminology"

■JW-300 Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Relay	00000.0-54377.7	A00000-A54376 (]00000-]54376)		÷ 2]
Timer (Contact)	T00000-T17777	-		oc T 8]
Counter (Contact)	C00000-C17777	-		OCT 8
Timer Counter (current		B00000-B37776		÷ 2] вт15]
value) ^{*1}	-	TC00000-TC17777		
	-	09000-09776		
	-	19000-19776		
Register(09, 19, 29, 39, 49, 59, 69, 79, 89, 99)				÷ 2] вт 15]
	-	89000-89776		
	-	99000-99776		
	-	E0000-E0776	[L/H]	
	-	E1000-E1776		
Register(E0, E1, E2, E3, E4, E5, E6, E7)				÷ 2] 🖅 15]
-, , -, -, ,	-	E6000-E6776		
	-	E7000-E7776		
	-	109000-109776		
	-	119000-119776		
Register(109-389)				÷ 2] 🖅 15]
	-	379000-379776		
	-	389000-389776		
Register Z	-	Z000-Z377		<u>ві t</u> 15]
File Register	-	1-00000000 - 1-37777776		÷ 2] Bit 15]
System Memory ^{*1}	-	SYS0000-SYS2776		[÷2] ^{*2}

*1 The name of system memory is "#" in the External Device. To use "#" as an internal register in the Display, it can not use. Therefore, it changes "#" to "SYS".

*2 Write disable

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

- Cf. GP-Pro EXReference Manual "Appendix 1.4 LS Area (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.

■JW-10/20H/30H/50H/70H/100H Series

Device	Device Name	Device Code (HEX)	Address Code	
Relay	А	0080	Value of word address divided by 2	
Counter (Current Value)	Т	0060	Value of word address divided by 2	
Counter (Current Value)	В	0061	Value of word address divided by 2	
	09	0000	Value of word address divided by 2	
	19	0001	Value of word address divided by 2	
	29	0002	Value of word address divided by 2	
	39	0003	Value of word address divided by 2	
	49	0004	Value of word address divided by 2	
	59	0005	Value of word address divided by 2	
	69	0006	Value of word address divided by 2	
	79	0007	Value of word address divided by 2	
Register	89	0008	Value of word address divided by 2	
Register	99	0009	Value of word address divided by 2	
	EO	000A	Value of word address divided by 2	
	E1	000B	Value of word address divided by 2	
	E2	000C	Value of word address divided by 2	
	E3	000D	Value of word address divided by 2	
	E4	000E	Value of word address divided by 2	
	E5	000F	Value of word address divided by 2	
	E6	0010	Value of word address divided by 2	
	E7	0011	Value of word address divided by 2	

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

■JW-300 Series

Device	Device Name	Device Code (HEX)	Address Code	
Relay	А	0080	Value of word address divided by 2	
Timer/Counter (Current	В	0061	Value of word address divided by 2	
Value)	TC	0060	Word Address	
	09	0000	Value of word address divided by 2	
	19	0001	Value of word address divided by 2	
	29	0002	Value of word address divided by 2	
	39	0003	Value of word address divided by 2	
Register (09, 19, 29, 39, 59,	49	0004	Value of word address divided by 2	
69, 79, 89, 99)	59	0005	Value of word address divided by 2	
	69	0006	Value of word address divided by 2	
	79	0007	Value of word address divided by 2	
	89	0008	Value of word address divided by 2	
	99	0009	Value of word address divided by 2	
	E0	000A	Value of word address divided by 2	
	E1	000B	Value of word address divided by 2	
	E2	000C	Value of word address divided by 2	
Register (E0, E1, E2, E3, E4, E5, E6, E7)	E3	000D	Value of word address divided by 2	
	E4	000E	Value of word address divided by 2	
	E5	000F	Value of word address divided by 2	
	E6	0010	Value of word address divided by 2	
	E7	0011	Value of word address divided by 2	

Device	Device Name	Device Code (HEX)	Address Code
	109	0040	Value of word address divided by 2
	119	0041	Value of word address divided by 2
	129	0042	Value of word address divided by 2
	139	0043	Value of word address divided by 2
	149	0044	Value of word address divided by 2
	159	0045	Value of word address divided by 2
	169	0046	Value of word address divided by 2
	179	0047	Value of word address divided by 2
	189	0048	Value of word address divided by 2
	199	0049	Value of word address divided by 2
	209	004A	Value of word address divided by 2
	219	004B	Value of word address divided by 2
	229	004C	Value of word address divided by 2
	239	004D	Value of word address divided by 2
Register (109 to 389)	249	004E	Value of word address divided by 2
	259	004F	Value of word address divided by 2
	269	0050	Value of word address divided by 2
	279	0051	Value of word address divided by 2
	289	0052	Value of word address divided by 2
	299	0053	Value of word address divided by 2
	309	0054	Value of word address divided by 2
	319	0055	Value of word address divided by 2
	329	0056	Value of word address divided by 2
	339	0057	Value of word address divided by 2
	349	0058	Value of word address divided by 2
	359	0059	Value of word address divided by 2
	369	005A	Value of word address divided by 2
	379	005B	Value of word address divided by 2
	389	005C	Value of word address divided by 2
Resister Z	Z	0037	Value of word address divided by 2
File Register	1-	0012	Value of word address divided by 2
System Memory	SYS	0062	Value of word address divided by 2

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 • Refer to your External Device manual for details on received error codes.

• Refer to "When an error is displayed (Error Code List)" in "Maintenance/Troubleshooting Manual" for details on the error messages common to the driver.

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.