Hitachi IES Co., Ltd.

H Series Serial Driver

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PREFACE

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 This section shows the types of External Devices which can be connected and SIO type.	"1 System Configuration" (page 3)
2	Selection of External Device Select a model (series) of the External Device to be connected and connection method.	^{ক্লে} "2 Selection of External Device" (page 10)
3	Example of Communication Settings This section shows setting examples for communicating between the Display and the External Device.	"3 Example of Communication Setting" (page 11)
4	Setup Items This section describes communication setup items on the Display. Set communication settings of the Display with GP-Pro EX or in off-line mode.	^{ভেল} "4 Setup Items" (page 95)
5	Cable Diagram This section shows cables and adapters for connecting the Display and the External Device.	^{ক্টে} "5 Cable Diagram" (page 100)
	Operation	

1 System Configuration

The system configuration in the case when the External Device of Hitach IES Co., Ltd. and the Display are connected is shown.

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
	H-20, H-28, H-40, H-64	Port on the CPU unit	RS232C	Setting Example 1 (page 11)	Cable Diagram 1 (page 100)
	H-200(CPU-02H) ^{*1} H-250(CPU21-02H) ^{*1} H-252B(CPU22-02HB) ^{*1}	Port on the CPU unit	RS232C	Setting Example 1 (page 11)	Cable Diagram 1 (page 100)
	H-252C(CPU22-02HC) ^{*1} *2	Port on the CPU unit	RS232C	Setting Example 1 (page 11)	Cable Diagram 1 (page 100)
	H 2007CDH 00H)*1	*2 Port on the CPU unit RS232C Setting Example (page 1 RS232C Setting RS232C Setting Example (page 1 RS232C Setting Example (page 1	Setting Example 1 (page 11)	Cable Diagram 1 (page 100)	
H (Procedure 1)	H-300(CPU-03Ha) ¹ H-700(CPU-07Ha) ^{*1} H-2000(CPU-20Ha) ^{*1} H-2002(CPU2-20H) ^{*1}	СОММ-Н	RS232C	Setting Example 2 (page 13)	Cable Diagram 1 (page 100)
		COMM-2H	RS422/485 (4wire)	Setting Example 3 (page 15)	Cable Diagram 2 (page 102)
	****	Port on the CPU unit	RS232C	Setting Example 1 (page 11)	Cable Diagram 1 (page 100)
	H-302(CPU2-03H) ⁻ H-702(CPU2-07H) ^{*1} H-4010(CPU3-40H) ^{*1} H-1002(CPU2-10H) ^{*1}	COMM-2H	Cable Diagram 1 (page 100)		
		COMM-2H RS422/485 (4wire)		Setting Example 3 (page 15)	Cable Diagram 2 (page 102)
	H-300(CPU-03Ha) H-700(CPU-07Ha) H-2000(CPU-20Ha)	СОММ-2Н	RS232C	Setting Example 4 (page 17)	Cable Diagram 1 (page 100)
H (Procedure 2)	H-302(CPU2-03H) H-702(CPU2-07H) H-2002(CPU2-20H) H-4010(CPU3-40H) H-1002(CPU2-10H)		RS422/485 (4wire)	Setting Example 5 (page 19)	Cable Diagram 2 (page 102)

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
	EH-150(EH-CPU104) EH-150(EH-CPU104A) EH-150(EH-CPU208) EH-150(EH-CPU208A) EH-150(EH-CPU308) EH-150(EH-CPU316)	Serial port 1 on the CPU unit Serial port 2 on the CPU unit	RS232C	Setting Example 6 (page 21)	Cable Diagram 3 (page 106)
		Serial port 1 on the CPU unit	RS232C	Setting Example 6 (page 21)	Cable Diagram 3 (page 106)
	EH-150(EH-CPU308A) EH-150(EH-CPU316A) EH-150(EH-CPU448)		RS422/485 (4wire)	Setting Example 7 (page 23)	Cable Diagram 4 (page 108)
EH-150	EH-150(EH-CPU448A) EH-150(EH-CPU516) EH-150(EH-CPU548)		RS422/485 (2wire)	Setting Example 8 (page 25)	Cable Diagram 5 (page 112)
(Procedure 1)		Serial port 2 on the CPU unit	RS232C	Setting Example 6 (page 21)	Cable Diagram 3 (page 106)
		Port1 on the EH-SIO unit ^{*3}	RS232C	Setting Example 9 (page 27)	Cable Diagram 12 (page 152)
	EH-150(EH-CPU516)	Port2 on the EH-SIO unit ^{*3}	RS232C ^{*4}	Setting Example 10 (page 29)	Cable Diagram 12 (page 152)
	EH-150(EH-CPU548)		RS422/485 (4wire) ^{*4}	Setting Example 11 (page 31)	Cable Diagram 6 (page 119)
			RS422/485 (2wire) ^{*4}	Setting Example 12 (page 33)	Cable Diagram 7 (page 123)

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
	EH-150(EH-CPU104A) EH-150(EH-CPU208A)	Serial port 1 on the CPU unit	RS232C	Setting Example 13 (page 35)	Cable Diagram 3 (page 106)
	EH-150(EH-CPU308A)		RS232C	Setting Example 13 (page 35)	Cable Diagram 3 (page 106)
	EH-150(EH-CPU316A) EH-150(EH-CPU448) EH-150(EH-CPU448A) EH-150(EH-CPU516)	Serial port 1 on the CPU unit	RS422/485 (4wire)	Setting Example 14 (page 37)	Cable Diagram 4 (page 108)
EH-150 (Procedur	EH-150(EH-CPU548)		RS422/485 (2wire)	Setting Example 15 (page 39)	Cable Diagram 5 (page 112)
e 2)		Port1 on the EH-SIO unit ^{*3}	RS232C	Setting Example 16 (page 41)	Cable Diagram 12 (page 152)
	EH-150(EH-CPU516)		RS232C ^{*4}	Setting Example 17 (page 43)	Cable Diagram 12 (page 152)
	EH-150(EH-CPU548)	Port2 on the EH-SIO unit ^{*3}	RS422/485 (4wire) ^{*4}	Setting Example 18 (page 45)	Cable Diagram 6 (page 119)
			RS422/485 (2wire) ^{*4}	Setting Example 19 (page 47)	Cable Diagram 7 (page 123)
	$\begin{array}{l} \text{MICRO-EH}(\text{EH-D10} \square \square)^{*5} \\ \text{MICRO-EH}(\text{EH-A14} \square \square)^{*5} \\ \text{MICRO-EH}(\text{EH-D14} \square \square)^{*5} \end{array}$	Port 1 on the CPU unit	RS232C	Setting Example 20 (page 49)	Cable Diagram 3 (page 106)
	*c	Port 1 on the CPU unit	RS232C	Setting Example 20 (page 49)	Cable Diagram 3 (page 106)
	$MICRO-EH(EH-A23\square\square)^{5}$ $MICRO-EH(EH-D23\square\square)^{*5}$ $MICRO-EH(EH-A28\square\square)^{*5}$ $MICRO-EH(EH-D28\square\square)^{*5}$	Port 2 on the	RS422/485 (4wire)	Setting Example 21 (page 51)	Cable Diagram 8 (page 130)
MICRO- EH		CPU unit	RS422/485 (2wire)	Setting Example 22 (page 53)	Cable Diagram 9 (page 134)
(Procedure 1)		$\frac{ }{ } $	Cable Diagram 3 (page 106)		
	MICRO-EH(EH-A64 \square) ^{*5} MICRO-EH(EH-D64 \square) ^{*5} MICRO-EH(EH-A40 \square) ^{*5}	EH-OB232 ^{*6}	RS232C	Setting Example 23 (page 55)	Cable Diagram 3 (page 106)
	MICRO-EH(EH-D40 \square) ^{*5} MICRO-EH(EH-A20 \square) ^{*5} MICRO-EH(EH-D20 \square) ^{*5}	EU OD 405*7	RS422/485 (4wire)	Setting Example 24 (page 57)	Cable Diagram 10 (page 141)
		LII OD TOS	RS422/485 (2wire)	Setting Example 25 (page 59)	Cable Diagram 11 (page 145)

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
	$\begin{array}{c} \text{MICRO-EH}(\text{EH-D10})^{*5} \\ \text{MICRO-EH}(\text{EH-A14})^{*5} \\ \text{MICRO-EH}(\text{EH-D14})^{*5} \end{array}$	Port 1 on the CPU unit	RS232C	Setting Example 26 (page 61)	Cable Diagram 3 (page 106)
		Port 1 on the CPU unit	RS232C	Setting Example 26 (page 61)	Cable Diagram 3 (page 106)
	$MICRO-EH(EH-A23\Box\Box\Box)^{5}$ $MICRO-EH(EH-D23\Box\Box\Box)^{5}$ $MICRO-EH(EH-A28\Box\Box\Box)^{5}$ $MICRO-EH(EH-D28\Box\Box\Box)^{5}$	Port 2 on the	RS422/485 (4wire)	Setting Example 27 (page 63)	Cable Diagram 8 (page 130)
MICRO- EH		CPU unit	RS422/485 (2wire)	Setting Example 28 (page 65)	Cable Diagram 9 (page 134)
(Procedure 2)		Port on the CPU unit	RS232C	Setting Example 26 (page 61)	Cable Diagram 3 (page 106)
	MICRO-EH(EH-A64 \square) ^{*5} MICRO-EH(EH-D64 \square) ^{*5} MICRO-EH(EH-A40 \square) ^{*5}	EH-OB232 ^{*6}	RS232C	Setting Example 29 (page 67)	Cable Diagram 3 (page 106)
	MICRO-EH(EH-D40 \square) ^{*5} MICRO-EH(EH-A20 \square) ^{*5} MICRO-EH(EH-D20 \square) ^{*5}	O-EH(EH-D40 \square)*5 O-EH(EH-A20 \square)*5 O-EH(EH-D20 \square)*5 EH OP495*7 EH OP495*7	RS422/485 (4wire)	Setting Example 30 (page 69)	Cable Diagram 10 (page 141)
		ЕП-ОБ483	RS422/485 (2wire)	Setting Example 31 (page 71)	Cable Diagram 11 (page 145)
	EH-WD10DR	Serial port on the CPU unit	RS232C	Setting Example 32 (page 73)	Cable Diagram 3 (page 106)
Web controller			RS232C	Setting Example 40 (page 89)	Cable Diagram 3 (page 106)
(Procedure 1 and 2)	EH-WA23DR	Serial port on the CPU unit	on the nit $\frac{RS422/485}{(4wire)} = \frac{Setting}{Example 27} = \frac{Cat}{Diagr} \\ page 63) = \frac{Cat}{Diagr} \\ page 65) = \frac{Cat}{Diagr} \\ page 61) = \frac{Cat}{Diagr} \\ page 62) = \frac{Cat}{Diagr} \\ page 62) = \frac{Cat}{Diagr} \\ page 62) = \frac{Cat}{Diagr} \\ page 71) = \frac{Cat}{Diagr}$	Cable Diagram 13 (page 153)	
			RS422/485 (2wire)	Setting Example 42 (page 93)	Cable Diagram 14 (page 158)

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
			RS232C	Setting Example 33 (page 75)	Cable Diagram 3 (page 106)
		Serial port on the CPU unit	RS422/485 (4wire)	Setting Example 34 (page 77)	Cable Diagram 4 (page 108)
			R422/S485 (2wire)	Setting Example 35 (page 79)	Cable Diagram 5 (page 112)
EHV (Procedure 1 and 2)	EHV-CPU128 EHV-CPU64 EHV-CPU32 EHV-CPU14	Port 1 on the EH-SIO unit ^{*3}	RS232C	Setting Example 36 (page 81)	Cable Diagram 12 (page 152)
			RS232C	Setting Example 37 (page 83)	Cable Diagram 12 (page 152)
		Port 2 on the EH-SIO unit ^{*3}	RS422/485 (4wire)	Setting Example 38 (page 85)	Cable Diagram 6 (page 119)
			RS422/485 (2wire)	Setting Example 39 (page 87)	Cable Diagram 7 (page 123)

*1 Connect to the peripheral port on the CPU module.

*2 When the peripheral port 2 on the CPU unit is used, CNCOM-05 conversion cable by Hitachi IES Co., Ltd. needs to be used between the 8 pin connector and D-sub 15 pin connecter.

*3 Version 2.0 or later of the EH-SIO software supports Procedure 1; version 2.1 or later supports Procedure 2. Furthermore, only EH-CPU548(Ver.E402 or later)/EH-CPU516(Ver.E202 or later) can use EH-SIO.

*4 Bit8 is used for interface selection of Port2 (RS232C or RS422/485).

*5 Model No. of the External Device "□" differs depending on the specification of each External Device.

*6 Communication board (RS232C).Can be used in the CPU of which version is Ver.0101 or later.

*7 Communication board (RS422/RS485).Can be used in the CPU of which version is Ver.0100 or later.

COM Port of IPC

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

Usable port

Series	Usable port				
Conco	RS-232C	RS-422/485(4 wire)	RS-422/485(2 wire)		
PS-2000B	COM1 ^{*1} , COM2, COM3 ^{*1} , COM4	-	-		
PS-3450A, PS-3451A	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	COM1 ^{*1*2} , COM2 ^{*1} , COM3, COM4	COM1*1*2	COM1 ^{*1*2}		

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

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

Dip switch setting: RS-232C

Dip switch	Setting	Description	
1	OFF ^{*1}	Reserve (always OFF)	
2	OFF	SIO turner DS 222C	
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): Does not Exist	
8	OFF	Short-circuit of SDB (TXB) and RDB (RXB): Does not Exist	
9	OFF	RS (RTS) Auto control mode: Disable	
10	OFF	- KS (K15) Auto control mode. Disable	

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

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

Dip switch	Setting	Description	
1	OFF	Reserve (always OFF)	
2	ON	SIO type: RS-422/485	
3	ON	510 type. K5-422/405	
4	OFF	Output mode of SD (TXD) data: Always output	
5	OFF	Terminal resistance (220 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): Does not Exist	
8	OFF	Short-circuit of SDB (TXB) and RDB (RXB): Does not Exist	
9	OFF	RS (RTS) Auto control mode: Disable	
10	OFF		

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

Dip switch	Setting	Description		
1	OFF	Reserve (always OFF)		
2	ON	SIO type: PS 422/485		
3	ON	510 type: K5-422/485		
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): Exist		
8	ON	Short-circuit of SDB (TXB) and RDB (RXB): Exist		
9	ON	RS (RTS) Auto control mode: Enable		
10	ON	- KS (K15) Auto control mode. Enable		

2 Selection of External Device

Select the External Device to be connected to the Display.

đ	🕯 New Pro	oject File 🗙
	Device/PL	c
	Maker	Hitachi IES Co., Ltd.
	Driver	H Series SIO
	🗖 Use S	ystem Area Refer to the manual of this Device/PLC
	Connection	n 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 "Hitachi IES Co., Ltd.".		
Driver	Select a model (series) of the External Device to be connected and connection method. Select "H Series SIO". Check the External Device which can be connected in "H Series SIO" in system configuration. I System Configuration" (page 3)		
	 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)" 		
Use System Area	This can be also set with GP-Pro EX or in off-line mode of the Display.		
	Cf. GP-Pro EX Reference Manual "5.14.6[Setting Guide of [System Setting Window], Setting Guide of [Main Unit Settings], System Area Setting"		
	Cf. Maintenance/Troubleshooting "2.14.1 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

Device/PLC 1			
Summary		Change Device/	PLC
Maker Hitachi IES (Co.,Ltd	Driver H Series SIO Port COM1	
Text Data Mode	1 <u>Change</u>		
Communication Settings			
SIO Type	• R\$232C	C RS422/485(2wire) C RS422/485(4wire)	
Speed	19200	v	
Data Length	7	C 8	
Parity	C NONE		
Stop Bit	● 1	© 2	
Flow Control	C NONE	• ER(DTR/CTS)	
Timeout	3 🔹 ((sec)	
Retry	2 📫		
Wait To Send	0 🕂 ((ms)	
Procedure	Procedure 1	T	
RI / VCC	• BI	O VCC	
In the case of RS2: or VCC (5V Power Isolation Unit, pleas	32C, you can seled Supply), If you use select it to VCC.	ect the 9th pin to RI (Input) se the Digital's RS232C 	
Device-Specific Settinas			
Allowable No. of Dev	ice/PLCs 16 Unit	it(s) 📊	
No. Device Na	me	Settings	
👗 1 PLC1		Iteries=H Series	

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series Please reconfi you are using i	H Series rm all of address : if you have chang	▼ settings that jed the series.
Station No.	0	÷
		Default
	OK (<u>D)</u>	Cancel

■ Settings of External Device (Port on the CPU unit: H-4010 only)

Use the switch on the CPU unit for communication settings. After communication settings, turn ON the power of the External Device again to enable the setting. Please refer to the manual of the External Device for more details.

- Mode Setting Switch
 - DIPSW1

DIP Switch	Settings	Description	
SW03	OFF	Port 1 Transmission Speed: 19,200 bps	
SW04	OFF	Port 2 Transmission Speed: 19,200 bps	



• Other transmission speed settings are shown below.

DIP Switch	Settings	Description	
SW03	ON	Port 1 Transmission Speed: 38,400 bps	
SW04	ON	Port 2 Transmission Speed: 38,400 bps	

3.2 Setting Example 2

Settings of GP-Pro EX

♦ Communication Settings

Device	e/PLC1			
Summ	nary			Change Device/PLC
ł	Maker Hitachi IES C	Co.,Ltd	Driver H Series SIO F	Port COM1
١	Text Data Mode	1 <u>Change</u>		
Comm	nunication Settings			
9	SIO Type	RS232C	O RS422/485(2wire) O RS422/485(4wire)	
9	Speed	19200	•	
[Data Length	• 7	C 8	
F	Parity	C NONE	• EVEN O ODD	
9	Stop Bit	⊙ 1	© 2	
F	Flow Control	C NONE	ER(DTR/CTS) C XON/XOFF	
1	Timeout	3 🕂 (s	ec)	
F	Retry	2 📫		
N	Wait To Send	0 🕂 (n	ns)	
F	Procedure	Procedure 1	•	
F	RI / VCC	• BI	C VCC	
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, pleas	32C, you can select Supply). If you use e select it to VCC.	t the 9th pin to RI (Input) the Digital's RS232C Default	
Devic	e-Specific Settings			
1	Allowable No. of Devi	ce/PLCs_16 Unit(s	s) 📷	
Г	No. Device Nar	ne	Settings	
	n PLUI		TE locues=H pelles	

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series irm all of address : if you have chang	settings that ged the series.
Station No.	0	÷
		Default
	OK (<u>0</u>)	Cancel

Settings of External Device(COMM-H, COMM-2H)

Use the switch on the I/F unit for communication settings. After communication settings, turn ON the power of the External Device again to enable the setting. Please refer to the manual of the External Device for more details.

	0	
DIP Switch	Settings	Description
01	OFF	Bit Length: 7 bits
02	ON	
03	ON	Baud Rate Transmission Speed: 19,200bps
04	ON	
05	ON	Parity Enable/Disable: Enable
06	ON	Parity Even/Odd: Even
07	OFF	Stop Bit Length: 1 bit
08	ON	Sum Check: Enable

Communication Setting Switch

Station Setting Rotary Switch

Rotary Switch	Settings	Description	
x10	0	Station No. of External Device (tenth digit)	
x1	0	Station No. of External Device (first digit)	

Mode Setting Rotary Switch

Rotary Switch	Settings	Description
MODE	2	Procedure: Procedure 1

- 3.3 Setting Example 3
 - Settings of GP-Pro EX
 - Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Hitachi IES	Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	C RS232C	C RS422/485(2wire) © RS422/485(4wire)
Speed	19200	•
Data Length	• 7	0.8
Parity	O NONE	EVEN ODD
Stop Bit	I 1	0 2
Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF
Timeout	3 📫	(sec)
Retry	2	
Wait To Send	0 📫	(ms)
Procedure	Procedure 1	•
RI / VCC	© BI	O VCC
In the case of RS2 or VCC (5V Power	32C, you can sele Supply). If you us	ect the 9th pin to RI (Input) se the Digital's RS232C
Isolation Unit, plea	se select it to VCC	Default
Device-Specific Settings		
Allowable No. of De	vice/PLCs 16 Un	it(s) 🔢
No. Device Na	ame	Settings Series=H Series,Station No.=0

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

💰 Individu	al Device Set	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series irm all of address : if you have chang	settings that red the series.
Station No.	0	•
		Default
	OK (<u>0)</u>	Cancel

■ Settings of External Device (COMM-H, COMM-2H)

Use the switch on the I/F unit for communication settings. After communication settings, turn ON the power of the External Device again to enable the setting. Please refer to the manual of the External Device for more details.

	0	
DIP Switch	Settings	Description
01	OFF	Bit Length: 7 bits
02	ON	
03	ON	Baud Rate Transmission Speed: 19,200bps
04	ON	
05	ON	Parity Enable/Disable: Enable
06	ON	Parity Even/Odd: Even
07	OFF	Stop Bit Length: 1 bit
08	ON	Sum Check: Enable

Communication Setting Switch

Station Setting Rotary Switch

Rotary Switch	Settings	Description
x10	0	Station No. of External Device (tenth digit)
x1	0	Station No. of External Device (first digit)

Mode Setting Rotary Switch

Rotary Switch	Settings	Description
MODE	2	Procedure: Procedure 1

3.4 Setting Example 4

Settings of GP-Pro EX

♦ Communication Settings

Device/PLC 1	
Summary	Change Device/PLC
Maker Hitachi IES Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode 1 Cha	lae
Communication Settings	
SIO Type 💿 RS23	C C RS422/485(2wire) C RS422/485(4wire)
Speed 19200	
Data Length 📀 7	C 8
Parity O NON	
Stop Bit 💿 1	© 2
Flow Control C NON	
Timeout 3	÷ (sec)
Retry 2	÷
Wait To Send 0	🕂 (ms)
Procedure Procedu	•2 💌
RI/VCC 💿 RI	O VCC
In the case of RS232C, you ca or VCC (5V Power Supply). If	n select the 9th pin to RI (Input) ou use the Digital's RS232C
Isolation Unit, please select it t	VCC. Default
Device-Specific Settings	_
Allowable No. of Device/PLCs No. Device Name	6 Unit(s)
1 PLC1	Series=H Series

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series irm all of address : if you have chang	settings that red the series.
Station No.	0	· •
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (COMM-2H)

Use the switch on the I/F unit for communication settings. After communication settings, turn ON the power of the External Device again to enable the setting. Please refer to the manual of the External Device for more details.

ommunication Setting Switch			
DIP Switch	Settings	Description	
01	OFF	Bit Length: 7 bits	
02	ON		
03	ON	Baud Rate Transmission Speed: 19,200bps	
04	ON		
05	ON	Parity Enable/Disable: Enable	
06	ON	Parity Even/Odd: Even	
07	OFF	Stop Bit Length: 1 bit	
08	ON	Sum Check: Enable	

♦ C

Station Setting Rotary Switch

Rotary Switch	Settings	Description
x10	0	Station No. of External Device (tenth digit)
x1	0	Station No. of External Device (first digit)

Mode Setting Rotary Switch

Rotary Switch	Settings	Description
MODE	9	Procedure: Procedure 2

3.5 Setting Example 5

Settings of GP-Pro EX

♦ Communication Settings

Device/PLC 1	
Summary	Change Device/PLC
Maker Hitachi IES Co.,Ltd Driver H Series SIO	Port COM1
Text Data Mode 1 Change	
Communication Settings	
SIO Type C RS232C C RS422/485(2wire) 💿 RS422/485(4wi	re)
Speed 19200	
Data Length 💿 7 💿 8	
Parity O NONE 💿 EVEN O ODD	
Stop Bit 1 2 	
Flow Control O NONE O ER(DTR/CTS) O XON/XOFF	
Timeout 3 😴 (sec)	
Retry 2	
Wait To Send 0 🚔 (ms)	
Procedure 2	
RI/VCC © RI C VCC	
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply), If you use the Digital's RS232C	
Tsulation onic, please select it to voc.	ault
Device-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
1 PLC1 Series=H Series,Station No.=0	

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

💰 Individu	al Device Set	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series irm all of address : if you have chang	settings that red the series.
Station No.	0	•
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (COMM-2H)

Use the switch on the I/F unit for communication settings. After communication settings, turn ON the power of the External Device again to enable the setting. Please refer to the manual of the External Device for more details.

Communication Setting Switch

DIP Switch	Settings	Description
01	OFF	Bit Length: 7 bits
02	ON	
03	ON	Baud Rate Transmission Speed: 19,200bps
04	ON	
05	ON	Parity Enable/Disable: Enable
06	ON	Parity Even/Odd: Even
07	OFF	Stop Bit Length: 1 bit
08	ON	Sum Check: Enable

Station Setting Rotary Switch

Rotary Switch	Settings	Description
x10	0	Station No. of External Device (tenth digit)
x1	0	Station No. of External Device (first digit)

Mode Setting Rotary Switch

Rotary Switch	Settings	Description
MODE	9	Procedure: Procedure 2

3.6 Setting Example 6

Settings of GP-Pro EX

♦ Communication Settings

Device/PLC 1				
Summary				Change Device/PLC
Maker 🛛	Hitachi IES Co.,Ltd	Driver H S	eries SIO	Port COM1
Text Data	a Mode 1 <u>Char</u>	<u>nge</u>		
Communicatio	n Settings			
SIO Type	• • RS232	C C RS422/485(2wir	e) C RS422/485(4wire)	
Speed	19200	v		
Data Ler	igth 💿 7	O 8		
Parity	O NONE	EVEN	O ODD	
Stop Bit	● 1	C 2		
Flow Cor	trol 🔿 NONE	ER(DTR/CTS)	C XON/XOFF	
Timeout	3	÷ (sec)		
Retry	2	÷		
Wait To 3	Send 0	÷ (ms)		
Procedur	e Procedure	∈1 ▼		
RI / VCC	● RI	O VCC		
In the o or VCC Isolation	ase of RS232C, you car (5V Power Supply). If yo n Unit, please select it to	n select the 9th pin to RI (Inp ou use the Digital's RS232C VCC.	ut) Default	1
Device-Specif	ic Settings			
Allowable	No. of Device/PLCs 1	6 Unit(s) 📷		
No.	Device Name	Settings	Corios	
		LE Selles=H	Delles	

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

💰 Individu	ial Device Se	ttings 🛛 🗙
PLC1		
Series Please recont you are using	H Series firm all of address if you have chang	▼ settings that ged the series.
Station No.	0	-
		Default
	OK (<u>O</u>)	Cancel

Settings of External Device (Serial port on the CPU unit)

Use the switch on the CPU unit for communication settings. SIO type will be set to RS232C (Procedure 1) by entering 8000(H) in the address WRF037 with the ladder software (LADDER EDITOR for Windows). After communication settings, turn ON the power of the External Device again to enable the setting. Please refer to the manual of the External Device for more details.

Mode Setting Switch

DIP Switch	Settings	Description	
SW03	ON	Dort 1 Transmission Speed: 10 200 kms	
SW04	OFF	Port 1 Transmission Speed: 19,200 bps	
SW05	ON	Port 1 Operation: Specified port	
SW06	OFF	Port 2 Transmission Speed ^{*1} : 4,800 bps or 19,200 bps	

*1 When setting the transmission speed of Port 2 to 19,200 bps or 38,400 bps, set the port change switch to High(ON).

Transmission speed of Port 2 will be set with SW06 and PHL switches.

Port Change Switch

PHL Switch	Settings	Description
PHL Switch	ON	Port 2 Operation

NOTE

• When the change switch is ON, PHL signal becomes High(ON).

• Other transmission speed settings are shown below.

< Port 1 >

SW03	SW04	SW05	Transmission Speed
ON	ON	ON	4,800 bps
OFF	ON	ON	9,600 bps
OFF	OFF	ON	38,400 bps

< Port 2 >

SW06	PHL	Speed Speed
OFF	OFF	4,800 bps
ON	OFF	9,600 bps
ON	ON	38,400 bps

- 3.7 Setting Example 7
 - Settings of GP-Pro EX
 - Communication Settings

Device/PLC 1				
Summary		Change Device/PLC		
Maker Hitachi IES	Co.,Ltd	Driver H Series SIO Port COM1		
Text Data Mode	1 <u>Change</u>			
Communication Settings				
SIO Type	C RS232C	C RS422/485(2wire) © RS422/485(4wire)		
Speed	19200			
Data Length	• 7	C 8		
Parity	O NONE			
Stop Bit	I 1	© 2		
Flow Control	C NONE	ER(DTR/CTS) C XON/XOFF		
Timeout	3 📫	(sec)		
Retry	2 📫			
Wait To Send	0 🗧	(ms)		
Procedure	Procedure 1			
RI / VCC	💿 BI	O VCC		
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.				
Device-Specific Settings				
Allowable No. of Device/PLCs 16 Unit(s) 📷				
No. Device Name Settings				
M ' JECCI				

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series irm all of address if you have chan	▼ settings that ged the series.
Station No.	0	*
		Default
	OK (<u>D)</u>	Cancel

Settings of External Device (Serial port on the CPU unit)

Use the switch on the CPU unit for communication settings. SIO type will be set to RS422/RS485 (Procedure 1) by entering $A100(H)^{*1}$ in the address WRF037 with the ladder software (LADDER EDITOR for Windows). After communication settings, turn ON the power of the External Device again to enable the setting. Please refer to the manual of the External Device for more details.

*1 To enable the termination resistance, enter B100(H). In addition, enter the Station No. set on the Display in lower 2 digits of A100 (or B100)

Mode Setting Switch

DIP Switch	Settings	Description	
SW03	ON	Port 1 Transmission Speed: 19 200 hps	
SW04	OFF	Fort 1 Transmission Speed. 19,200 bps	
SW05	ON	Port 1 Operation: Specified port	

NOTE

Other transmission speed settings are shown below.

SW03	SW04	SW05	Speed Speed
ON	ON	ON	4,800 bps
OFF	ON	ON	9,600 bps
OFF	OFF	ON	38,400 bps

3.8 Setting Example 8

Settings of GP-Pro EX

♦ Communication Settings

Device/PLC 1					
Summary	Change Device/PLC				
Maker Hitachi IES Co.,Ltd [Driver H Series SIO Port COM1				
Text Data Mode 1 <u>Change</u>					
Communication Settings					
SIO Type C RS232C 📀 RS42	22/485(2wire) C RS422/485(4wire)				
Speed 19200 💌					
Data Length 📀 7 📀 8					
Parity C NONE					
Stop Bit © 1 © 2					
Flow Control C NONE	TR/CTS) O XON/XOFF				
Timeout 3 🙁 (sec)					
Retry 2 🕂					
Wait To Send 🛛 🕂 (ms)					
Procedure Procedure 1					
RI/VCC © RI O VCC					
In the case of RS232C, you can select the 9th p	in to RI (Input)				
Isolation Unit, please select it to VCC. Default					
Device-Specific Settings					
Allowable No. of Device/PLCs 16 Unit(s)					
No. Device Name Set	No. Device Name Settings				

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series irm all of address if you have chan	▼ settings that ged the series.
Station No.	0	*
		Default
	OK (<u>D)</u>	Cancel

Settings of External Device (Serial port on the CPU unit)

Use the switch on the CPU unit for communication settings. SIO type will be set to RS422/RS485 (Procedure 1) by entering $A200(H)^{*1}$ in the address WRF037 with the ladder software (LADDER EDITOR for Windows). After communication settings, turn ON the power of the External Device again to enable the setting. Please refer to the manual of the External Device for more details.

*1 To enable the termination resistance, enter B200(H). In addition, enter the Station No. set on the Display in lower 2 digits of A200 (or B200)

Mode Setting Switch

DIP Switch	Settings	Description
SW03	ON	Port 1 Transmission Speed: 19 200 hps
SW04	OFF	Tore Transmission Speed. 17,200 bps
SW05	ON	Port 1 Operation: Specified port

NOTE

Other transmission speed settings are shown below.

SW03	SW04	SW05	Speed Speed
ON	ON	ON	4,800 bps
OFF	ON	ON	9,600 bps
OFF	OFF	ON	38,400 bps

3.9 Setting Example 9

Settings of GP-Pro EX

♦ Communication Settings

Device/PLC 1				
Summary				Change Device/PLC
Maker 🛛	Hitachi IES Co.,Ltd	Driver H S	eries SIO	Port COM1
Text Data	a Mode 1 <u>Char</u>	nge		
Communicatio	n Settings			
SIO Type	• • RS232	C C RS422/485(2wir	e) C RS422/485(4wire)	
Speed	19200	•		
Data Ler	igth 💿 7	O 8		
Parity	O NONE	EVEN	O ODD	
Stop Bit	• 1	C 2		
Flow Cor	trol 🔿 NONE	ER(DTR/CTS)	C XON/XOFF	
Timeout	3	÷ (sec)		
Retry	2	÷		
Wait To 3	Send 0	÷ (ms)		
Procedur	e Procedure	∈1 ▼		
RI / VCC	● RI	O VCC		
In the o or VCC Isolation	ase of RS232C, you car (5V Power Supply). If yo n Unit, please select it to	n select the 9th pin to RI (Inp ou use the Digital's RS232C VCC.	ut) Default	1
Device-Specif	ic Settings			
Allowable	No. of Device/PLCs 1	6 Unit(s) 📷		
No.	Device Name	Settings	Corios	
		LE Selles=H	Delles	

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

💰 Individu	ial Device Se	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series firm all of address if you have chan	▼ settings that ged the series.
Station No.	0	-
		Default
	OK (<u>O</u>)	Cancel

Settings of External Device (EH-SIO)

Use the switch on the EH-SIO for communication settings. After setting, assign I/O, and turn ON the power of the External Device again to enable the setting. Use the ladder software (LADDER EDITOR for Windows) for the I/O assignment.

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

Procedure

DIP Switch	Settings	Description
01	OFF	
02	ON	Speed: 19,200 bps
03	ON	transmission speed settings.
04	ON	
05	OFF	Transmission character configuration settings
06	ON	Data Length: 7 bits Stop Bit: 1 bit Parity: Even
07	OFF	
08	OFF	Always OFF

1. Use the DIP switch on the EH-SIO for communication settings.

2. Ladder program is required for initial settings. Please refer to the manual of the External Device for more details.

3.10 Setting Example 10

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1			
Summary		Change Device/I	PLC
Maker Hitachi I	ES Co.,Ltd	Driver H Series SIO Port COM1	_
Text Data Mode	1 <u>Change</u>		
Communication Setting	s		
SIO Type	RS232C	O RS422/485(2wire) O RS422/485(4wire)	
Speed	19200	•	
Data Length	• 7	• 8	
Parity	O NONE	EVEN O ODD	
Stop Bit	• 1	O 2	
Flow Control	O NONE	ER(DTR/CTS) O XON/XOFF	
Timeout	3 📫	(sec)	
Retry	2 📫		
Wait To Send	0 ÷	(ms)	
Procedure	Procedure 1		
RI / VCC	I BI	O VCC	
In the case of F or VCC (5V Pov Isolation Unit, p	(S232C, you can sele ver Supply). If you us lease select it to VCC	ect the 9th pin to RI (Input) se the Digital's RS232C 2. Default	
Device-Specific Settin	_s		
Allowable No. of [Device/PLCs 16 Un	it(s) 📑	
No. Device	Name	Settings	
le i i con			

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

💰 Individu	ial Device Se	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series firm all of address if you have chan	▼ settings that ged the series.
Station No.	0	-
		Default
	OK (<u>O</u>)	Cancel

Settings of External Device (EH-SIO)

Use the switch on the EH-SIO for communication settings. After setting, assign I/O, and turn ON the power of the External Device again to enable the setting. Use the ladder software (LADDER EDITOR for Windows) for the I/O assignment.

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

Procedure

1. Use the DIP switch on the EH-SIO for communication settings.

Communication Setting Switch 2 (for Port 2)

DIP Switch	Settings	Description
01	OFF	G 1 10 200 l
02	ON	Speed: 19,200 bps Places refer to the manual of the External Davice for more details about other
03	ON	transmission speed settings.
04	ON	
05	OFF	Transmission character configuration settings
06	ON	Data Length: 7 bits Stop Bit: 1 bit Parity: Even
07	OFF	
08	OFF	Interface Type: RS232C

2. Ladder program is required for initial settings. Please refer to the manual of the External Device for more details.

3.11 Setting Example 11

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1			
Summary		Change Device/PLC	
Maker Hitachi IES	Co.,Ltd	Driver H Series SIO Port COM1	
Text Data Mode	1 <u>Change</u>		
Communication Settings			
SIO Type	C RS232C	C RS422/485(2wire) © RS422/485(4wire)	
Speed	19200	•	
Data Length	• 7	0.8	
Parity	O NONE	EVEN ODD	
Stop Bit	I 1	0 2	
Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF	
Timeout	3 📫	(sec)	
Retry	2		
Wait To Send	0 📫	(ms)	
Procedure	Procedure 1	•	
RI / VCC	© BI	O VCC	
In the case of RS2 or VCC (5V Power	32C, you can sele Supply). If you us	ect the 9th pin to RI (Input) se the Digital's RS232C	
Isolation Unit, plea	se select it to VCC	Default	
Device-Specific Settings			
Allowable No. of Device/PLCs 16 Unit(s)			
No. Device Na	ame	Settings Series=H Series,Station No.=0	

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

💰 Individu	ial Device Se	ttings 🛛 🗙
PLC1		
Series Please recont you are using	H Series firm all of address if you have chang	settings that ged the series.
Station No.	0	*
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (EH-SIO)

Use the switch on the EH-SIO for communication settings. After setting, assign I/O, and turn ON the power of the External Device again to enable the setting. Use the ladder software (LADDER EDITOR for Windows) for the I/O assignment.

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

Procedure

1. Use the DIP switch on the EH-SIO for communication settings.

Communication Setting Switch 2 (for Port 2)

DIP Switch	Settings	Description
01	OFF	G 1 10 2001
02	ON	Speed: 19,200 bps
03	ON	transmission speed settings.
04	ON	
05	OFF	Transmission character configuration settings
06	ON	Data Length: 7 bits Stop Bit: 1 bit Parity: Even
07	OFF	
08	ON	Interface Type: RS422/RS485

2. Ladder program is required for initial settings. Please refer to the manual of the External Device for more details.

3.12 Setting Example 12

- Settings of GP-Pro EX
- ♦ Communication Settings

Summary Chance Device/PLC Maker Hitachi IES Co.,Ltd Driver H Series SIO Port COM1 Text Data Mode 1 Chance Port COM1 Communication Settings SIO Type RS232C RS422/485(2wire) RS422/485(4wire) Speed 19200 Image: Communication Settings Image: Communication Settings Image: Communication Settings Data Length 7 6 Respective Settings Image: Communication Settings Data Length 7 6 Respective Settings Image: Communication Settings Data Length 7 6 Respective Settings Image: Communication Settings NoNE EVEN ODD Stop Bit 1 2 Flow Control NONE ER(DTR/CTS) XON/XOFF Timeout 3 Image: Settings Image: Communication Settings National Control NONE VCC Respective Settings Image: Communication Settings Rity VCC RI VCC Image: Communication Settings Image: Communication Settings Rity VCC RI VCC Image: Communi	Device/PLC1	
Maker Hitachi IES Co.,Ltd Driver H Series SID Port CDM1 Text Data Mode 1 Change Communication Settings SID Type RS232C RS422/485(4wire) SS422/485(4wire) Speed 19200 Image: Communication Settings Communication Settings Communication Settings Communication Settings Data Length © 7 © 8 Parity NONE EVEN ODD Stop Bit © 1 © 2 Flow Control NONE ER(DTR/CTS) XON/XOFF Timeout 3 Image: (see) Retry 2 Image: (see) Retry 2 Image: (ms) Procedure Procedure 1 Image: (ms) Procedure Procedure 1 Image: (ms) Image: (ms) Default Device Specific Settings Allowable No. of Device/PLCs 16 Unit(s) Image: (ms) Image: (ms) No. Device Name Series H Series Station No.=0 Series H Series Station No.=0 Image: (ms)	Summary	Change Device/PLC
Text Data Mode I Change Communication Settings SIO Type RS232C RS422/485(2wire) RS422/485(4wire) Speed 19200 Image: Communication Settings Image: Communication Settings Image: Communication Settings Data Length 7 8 Parity NONE EVEN ODD Stop Bit 1 2 Flow Control NONE ER(DTR/CTS) XON/XOFF Timeout 3 Image: Second Retry 2 Image: Second Vocc RI Vocc In the case of RS232C, you can select the 9th pin to RI (Input) or Voc (SP Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VOC. Image: Default Device-Specific Settings No. Device/PLCs 16 Unit(s) Image: Settings Allowable No. of Device/PLCs 16 Unit(s) Settings Settings: Settings 1	Maker Hitachi IES Co.,Ltd Driver H Series	BID Port COM1
SID Type RS232C RS422/485(2wire) RS422/485(4wire) Speed 19200 Image: Control Contrecontecteon Control Control Contrecontect Control Contre	Text Data Mode 1 Change	
SID Type C RS232C © RS422/485(2wire) C RS422/485(4wire) Speed 19200 Image: Comparison of the second	Communication Settings	
Speed 19200 Data Length 7 Data Length 7 Parity NONE EVEN ODD Stop Bit 1 C 1 Flow Control NONE ER[DTR/CTS] XON/XOFF Timeout 3 3 (sec) Retry 2 Wait To Send 1 0 (ms) Procedure Procedure 1 RI / VCC Ri In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (SV Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Device-Specific Settings Allowable No. of Device/PLCs No. Device Name Settings 1 PLC1	SIO Type C RS232C RS422/485(2wire)	O RS422/485(4wire)
Data Length <	Speed 19200 💌	
Parity NONE EVEN ODD Stop Bit 1 2 Flow Control NONE ER(DTR/CTS) XON/XOFF Timeout 3 (sec) Retry 2 (ms) Procedure Procedure 1 RI / VCC Fl VCC In the case of RS232C, you can select the 9th pin to Fl (Input) or VCC [SV Power Supply]. If you use the Digital's RS232C Isolation Unit, please select it to VCC. Device-Specific Settings Allowable No. of Device/PLCs No. Device Name Settings 1 PLC1	Data Length 💿 7 📀 8	
Stop Bit I 2 Flow Control NONE ER(DTR/CTS) Timeout 3 (sec) Retry 2 (ms) Wait To Send 9 In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (SV Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Device-Specific Settings Allowable No. of Device/PLCs 1 PLC1	Parity O NONE O EVEN O	ODD
Flow Control NONE ER(DTR/CTS) XON/XOFF Timeout 3 (sec) Retry 2	Stop Bit 1 2 	
Timeout 3 (sec) Rety 2	Flow Control O NONE O ER(DTR/CTS) O	XON/XOFF
Retry 2 Wait To Send 0 Procedure Procedure 1 RI / VCC RI In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s) No. Device Name Settings 1 PLC1 Seties=H Series Station No.=0	Timeout 3 📑 (sec)	
Wait To Send Image: market state	Retry 2	
Procedure Procedure 1 RI / VCC RI VCC In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s) Default No. Device Name Settings 1 PLC1 Series=H Series Station No =0	Wait To Send 0 📑 (ms)	
RI / VCC RI VCC In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s) Default No. Device Name Settings 1 PLC1 Series=H Series Station No =0	Procedure Procedure 1	
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s) No. Device Name Settings 1 PLC1 Series=H Series Station No =0	RI/VCC © RI C VCC	
	In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C	
Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s) No. Device Name Settings Image: Setting Settin	Isolation Unit, please select it to VLL.	Default
Allowable No. of Device/PLCs 16 Unit(s)	Device-Specific Settings	
1 PLC1 Im Series Station No =0	Allowable No. of Device/PLCs 16 Unit(s)	
	1 PLC1 Series=H Series	;Station No.=0

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

💰 Individu	al Device Se	ttines 🛛 🗙	
PLC1			
Series Please recon you are using	H Series firm all of address if you have chang	▼ settings that ged the series.	[
Station No.	0	•	1
		Default	
	OK (<u>O</u>)	Cancel	

Settings of External Device (EH-SIO)

Use the switch on the EH-SIO for communication settings. After setting, assign I/O, and turn ON the power of the External Device again to enable the setting. Use the ladder software (LADDER EDITOR for Windows) for the I/O assignment.

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

Procedure

1. Use the DIP switch on the EH-SIO for communication settings.

Communication Setting Switch 2 (for Port 2)

DIP Switch	Settings	Description	
01	OFF	G 1 10 200 l	
02	ON	Speed: 19,200 bps Places refer to the manual of the External Davice for more details about other	
03	ON	transmission speed settings.	
04	ON		
05	OFF	Transmission character configuration settings	
06	ON	Data Length: 7 bits	
07	OFF	- Stop Bit: 1 bit Parity: Even	
08	ON	Interface Type: RS422/RS485	

2. Ladder program is required for initial settings. Please refer to the manual of the External Device for more details.

3.13 Setting Example 13

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1				
Summary				Change Device/PLC
Maker	litachi IES Co.,Ltd	Driver H Series SIC		Port COM1
Text Data	Mode 1 <u>Change</u>			
Communication	n Settings			
SIO Type	RS232C	C RS422/485(2wire)	RS422/485(4wire)	
Speed	19200	•		
Data Lenj	gth 💿 7	C 8		
Parity	C NONE	• EVEN O O	DD .	
Stop Bit	I	O 2		
Flow Con	trol C NONE	💿 ER(DTR/CTS) 🛛 🔿 XI	ON/XOFF	
Timeout	3 🕂	(sec)		
Retry	2	1		
Wait To 9	iend 0 🕂	(ms)		
Procedure	Procedure 2	•		
RI / VCC	🖲 BI	O VCC		
In the c or VCC Isolation	ase of RS232C, you can se (5V Power Supply). If you c Unit, please select it to VC	lect the 9th pin to RI (Input) ise the Digital's RS232C C.	Default	
Device-Specifi	c Settings			
Allowable	No. of Device/PLCs 16 U	nit(s) 📷		
No.	Device Name	Settings		
	li coi	TTE laeues=H aeues		

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 Please reconf you are using	H Series irm all of address : if you have chang	settings that ged the series.	
Station No.	0	÷	
		Default	
	OK (<u>D</u>)	Cancel	

Settings of External Device (Serial port on the CPU unit)

Use the switch on the CPU unit for communication settings. SIO type will be set to RS232C (Procedure 2) by entering C000(H) in the address WRF037 with the ladder software (LADDER EDITOR for Windows). After communication settings, turn ON the power of the External Device again to enable the setting. Please refer to the manual of the External Device for more details.

Mode Setting Switch

DIP Switch	Settings	Description	
SW03	ON	Port 1 Transmission Speed: 19,200 bps	
SW04	OFF		
SW05	ON	Port 1 Operation: Specified port	

NOTE

• Other transmission speed settings are shown below.

SW03	SW04	SW05	Speed Speed
ON	ON	ON	4,800 bps
OFF	ON	ON	9,600 bps
OFF	OFF	ON	38,400 bps
3.14 Setting Example 14

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1			
Summary		Change Device/PLC	
Maker Hitachi IES (Co.,Ltd	Driver H Series SIO Port COM1	
Text Data Mode	1 <u>Change</u>		
Communication Settings			
SIO Type	O RS232C	C RS422/485(2wire) C RS422/485(4wire)	
Speed	19200		
Data Length	• 7	C 8	
Parity	O NONE		
Stop Bit	● 1	© 2	
Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF	
Timeout	3 📫	(sec)	
Retry	2 📫		
Wait To Send	0 🗧	(ms)	
Procedure	Procedure 2	×	
RI / VCC	© BI	O VCC	
In the case of RS2 or VCC (5V Power Isolation Unit, pleas	32C, you can sele Supply). If you us e select it to VCC.	ct the 9th pin to RI (Input) e the Digital's RS232C Default	
Device-Specific Settings			
Allowable No. of Device/PLCs 16 Unit(s)			
No. Device Na	me	Settings Series=H Series Station No =0	

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series irm all of address if you have chang	settings that ged the series.
Station No.	0	
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (Serial port on the CPU unit)

Use the switch on the CPU unit for communication settings. SIO type will be set to RS422/RS485 (Procedure 2) by entering $E100(H)^{*1}$ in the address WRF037 with the ladder software (LADDER EDITOR for Windows). After communication settings, turn ON the power of the External Device again to enable the setting. Please refer to the manual of the External Device for more details.

*1 To enable the termination resistance, enter F100(H). In addition, enter the Station No. set on the Display in lower 2 digits of E100 (or F100)

Mode Setting Switch

DIP Switch	Settings	Description
SW03	ON	Port 1 Transmission Speed: 19 200 hps
SW04	OFF	Fort 1 Transmission Speed. 19,200 bps
SW05	ON	Port 1 Operation: Specified port

NOTE

Other transmission speed settings are shown below.

SW03	SW04	SW05	Speed Speed
ON	ON	ON	4,800 bps
OFF	ON	ON	9,600 bps
OFF	OFF	ON	38,400 bps

3.15 Setting Example 15

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Hitachi IES 0	Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	C RS232C	• RS422/485(2wire)
Speed	19200	
Data Length	• 7	C 8
Parity	C NONE	EVEN O ODD
Stop Bit	● 1	O 2
Flow Control	C NONE	ER(DTR/CTS) C XON/XOFF
Timeout	3 🕂 (sec)
Retry	2 📫	
Wait To Send	0 🔅 (ms)
Procedure	Procedure 2	•
RI / VCC	© RI	C 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.	st the 9th pin to RI (Input) e the Digital's RS232C Default
Device-Specific Settings		
Allowable No. of Dev	ice/PLCs_16 Unit	(s)
No. Device Nar	me	Settings
in the second		

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series irm all of address if you have chan	▼ settings that ged the series.
Station No.	0	*
		Default
	OK (<u>D)</u>	Cancel

Settings of External Device (Serial port on the CPU unit)

Use the switch on the CPU unit for communication settings. SIO type will be set to RS422/RS485 (Procedure 2) by entering $E200(H)^{*1}$ in the address WRF037 with the ladder software (LADDER EDITOR for Windows). After communication settings, turn ON the power of the External Device again to enable the setting. Please refer to the manual of the External Device for more details.

*1 To enable the termination resistance, enter F200(H). In addition, enter the Station No. set on the Display in lower 2 digits of E200 (or F200)

Mode Setting Switch

DIP Switch	Settings	Description
SW03	ON	Port 1 Transmission Speed: 19 200 hps
SW04	OFF	Tort 1 Transmission Speed. 19,200 bps
SW05	ON	Port 1 Operation: Specified port

NOTE

Other transmission speed settings are shown below.

SW03	SW04	SW05	Speed Speed
ON	ON	ON	4,800 bps
OFF	ON	ON	9,600 bps
OFF	OFF	ON	38,400 bps

3.16 Setting Example 16

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Hitachi IES I	Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	• RS232C	C RS422/485(2wire) C RS422/485(4wire)
Speed	19200	
Data Length	• 7	C 8
Parity	O NONE	
Stop Bit	● 1	© 2
Flow Control	C NONE	ER(DTR/CTS) C XON/XOFF
Timeout	3 📑 ((sec)
Retry	2 🔹	
Wait To Send	0 📑 ((ms)
Procedure	Procedure 2	
RI / VCC	BI B	C 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.	ct the 9th pin to RI (Input) e the Digital's RS232C Default
Device-Specific Settings		
Allowable No. of Dev	rice/PLCs_16 Unit	(s)
No. Device Na	me	Settings
in the second		

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

💰 Individu	ial Device Se	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series firm all of address if you have chan	▼ settings that ged the series.
Station No.	0	-
		Default
	OK (<u>O</u>)	Cancel

Settings of External Device (EH-SIO)

Use the switch on the EH-SIO for communication settings. After setting, assign I/O, and turn ON the power of the External Device again to enable the setting. Use the ladder software (LADDER EDITOR for Windows) for the I/O assignment.

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

Procedure

DIP Switch	Settings	Description
01	OFF	G 1 10 2001
02	ON	Speed: 19,200 bps
03	ON	transmission speed settings.
04	ON	
05	OFF	Transmission character configuration settings
06	ON	Data Length: 7 bits
07	OFF	Stop Bit: 1 bit Parity: Even
08	OFF	Always OFF

1. Use the DIP switch on the EH-SIO for communication settings.

2. Ladder program is required for initial settings. Please refer to the manual of the External Device for more details.

3.17 Setting Example 17

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Hitachi IES	Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	• RS232C	O RS422/485(2wire) O RS422/485(4wire)
Speed	19200	
Data Length	• 7	08
Parity	O NONE	EVEN ODD
Stop Bit	● 1	0 2
Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF
Timeout	3 📫 (s	sec)
Retry	2 📫	
Wait To Send	0 🕂 (r	ms)
Procedure	Procedure 2	
RI / VCC	RI	O VCC
In the case of RS2 or VCC (5V Power	(32C, you can select Supply) If you use	t the 9th pin to RI (Input) the Dinital's BS232C
Isolation Unit, plea	se select it to VCC.	Default
Device-Specific Settings		
Allowable No. of De	/ice/PLCs_16Unit(;	s) 📷
No. Device Na No. Device Na	ime	Settings
No. Device Na 1 PLC1	ame	Settings

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

💰 Individu	ual Device Se	ttings 🛛 🗙
PLC1		
Series Please recon you are using	H Series firm all of address if you have chan	▼ settings that ged the series.
Station No.	0	-
		Default
	OK (<u>O</u>)	Cancel

Settings of External Device (EH-SIO)

Use the switch on the EH-SIO for communication settings. After setting, assign I/O, and turn ON the power of the External Device again to enable the setting. Use the ladder software (LADDER EDITOR for Windows) for the I/O assignment.

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

Procedure

1. Use the DIP switch on the EH-SIO for communication settings.

Communication Setting Switch 2 (for Port 2)

DIP Switch	Settings	Description
01	OFF	G 1 10 200 l
02	ON	Speed: 19,200 bps Places refer to the manual of the External Davice for more details about other
03	ON	transmission speed settings.
04	ON	aansinission speed settings.
05	OFF	Transmission character configuration settings
06	ON	Data Length: 7 bits
07	OFF	Stop Bit: 1 bit Parity: Even
08	OFF	Interface Type: RS232C

2. Ladder program is required for initial settings. Please refer to the manual of the External Device for more details.

3.18 Setting Example 18

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Hitachi IES 0	Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	C RS232C	O RS422/485(2wire)
Speed	19200	•
Data Length	• 7	© 8
Parity	C NONE	EVEN O ODD
Stop Bit	• 1	© 2
Flow Control	O NONE	• ER(DTR/CTS) C XON/XOFF
Timeout	3 📫 (\$	sec)
Retry	2 📫	
Wait To Send) ÷ 0	ns)
Procedure	Procedure 2	×
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 (Input) • the Digital's RS232C Default
Device-Specific Settings		
Allowable No. of Devi	ice/PLCs_16 Unit(s) 🔢
No. Device Nat 1 PLC1	me	Settings Series=H Series.Station No.=0
[0 0]]. = 2.1		

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series Please recon you are using	H Series firm all of address if you have chang	settings that ged the series.
Station No.	0	÷
		Default
	OK (<u>O)</u>	Cancel

Settings of External Device (EH-SIO)

Use the switch on the EH-SIO for communication settings. After setting, assign I/O, and turn ON the power of the External Device again to enable the setting. Use the ladder software (LADDER EDITOR for Windows) for the I/O assignment.

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

Procedure

1. Use the DIP switch on the EH-SIO for communication settings.

Communication Setting Switch 2 (for Port 2)

DIP Switch	Settings	Description
01	OFF	G 1 10 200 l
02	ON	Speed: 19,200 bps Places refer to the manual of the External Davice for more details about other
03	ON	transmission speed settings.
04	ON	aansinission speed settings.
05	OFF	Transmission character configuration settings
06	ON	Data Length: 7 bits
07	OFF	Stop Bit: 1 bit Parity: Even
08	ON	Interface Type: RS422/RS485

2. Ladder program is required for initial settings. Please refer to the manual of the External Device for more details.

3.19 Setting Example 19

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Hitachi IES 0	Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	C RS232C	RS422/485(2wire) RS422/485(4wire)
Speed	19200	T
Data Length	7	C 8
Parity	C NONE	
Stop Bit	① 1 ③ 1	© 2
Flow Control	C NONE	ER(DTR/CTS) C XON/XOFF
Timeout	3 🕂 ((sec)
Retry	2 📫	
Wait To Send	0 🕂 ((ms)
Procedure	Procedure 2	•
RI / VCC	© RI	O VCC
In the case of RS2 or VCC (5V Power Isolation Unit, pleas	32C, you can seled Supply). If you use e select it to VCC.	ct the 9th pin to RI (Input) e the Digital's RS232C Default
Device-Specific Settings		
Allowable No. of Dev	ice/PLCs 16 Unit	(s) 📑
No. Device Nar	ne	Settings

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

💰 Individu	ial Device Se	ttings 🛛 🗙
PLC1		
Series Please recont you are using	H Series firm all of address if you have chang	settings that ged the series.
Station No.	0	*
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (EH-SIO)

Use the switch on the EH-SIO for communication settings. After setting, assign I/O, and turn ON the power of the External Device again to enable the setting. Use the ladder software (LADDER EDITOR for Windows) for the I/O assignment.

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

Procedure

1. Use the DIP switch on the EH-SIO for communication settings.

Communication Setting Switch 2 (for Port 2)

DIP Switch	Settings	Description
01	OFF	G 1 10 2001
02	ON	Speed: 19,200 bps
03	ON	transmission speed settings.
04	ON	indistrission speed settings.
05	OFF	Transmission character configuration settings
06	ON	Data Length: 7 bits
07	OFF	Stop Bit: 1 bit Parity: Even
08	ON	Interface Type: RS422/RS485

2. Ladder program is required for initial settings. Please refer to the manual of the External Device for more details.

3.20 Setting Example 20

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1			
Summary		Change Device/F	PLC
Maker Hitachi IES	δ Co.,Ltd	Driver H Series SIO Port COM1	
Text Data Mode	1 <u>Change</u>		
Communication Settings			
SIO Type	• RS232C	O RS422/485(2wire) O RS422/485(4wire)	
Speed	19200	•	
Data Length	• 7	• 8	
Parity	O NONE	EVEN O ODD	
Stop Bit	● 1	O 2	
Flow Control	O NONE	ER(DTR/CTS) O XON/XOFF	
Timeout	3 📫	(sec)	
Retry	2 📫		
Wait To Send	0 ÷	(ms)	
Procedure	Procedure 1	•	
RI / VCC	🖲 BI	O VCC	
In the case of RS or VCC (5V Powe Isolation Unit, ple	232C, you can sele er Supply). If you us ase select it to VCC	et the 9th pin to RI (Input) se the Digital's RS232C 	
Device-Specific Setting:			
Allowable No. of D	evice/PLCs 16 Uni	it(s) 📊	
No. Device N	lame	Settings	
		LE Joenes=H Series	

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

💰 Individ	lual Device Se	ettings 🛛 🗙
PLC1		
Series	H Series	
Please reco you are usin	nfirm all of address g if you have chan	settings that ged the series.
Station No.	0	<u>+</u>
		Default
	OK (<u>D</u>)	Cancel

Settings of External Device (Port on the CPU unit)

Use the ladder software (LADDER EDITOR for Windows) for communication settings. Please refer to the manual of the External Device for more details.

Procedure

1. Use the DIP switch inside the front cover of the External Device to enable the communication with the ladder software.

Set as the following table.

DIP Switch	Settings	Description
SW01	ON	T
SW02	OFF	ransmission Speed: 19,200 bps
SW03	OFF	transmission speed settings.
SW04	OFF	

- 2. Set 0000(H) in I/O No.WRF01A and turn I/O No.R7F6 ON to write the settings in the FLASH memory in the External Device.
- WRF01A

Limit Bit	Settings	Description
15	0	Procedure 1

• R7F6

Limit Bit	Settings	Description
-	1	Writing in FLASH memory

3.21 Setting Example 21

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Hitachi IES	Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	O RS232C	C RS422/485(2wire) © RS422/485(4wire)
Speed	19200	•
Data Length	• 7	0.8
Parity	O NONE	EVEN ODD
Stop Bit	I 1	0 2
Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF
Timeout	3 📫	(sec)
Retry	2 📫	
Wait To Send	0 📫	(ms)
Procedure	Procedure 1	•
RI / VCC	© BI	O VCC
In the case of RS2 or VCC (5V Power	32C, you can sele Supply). If you us	ect the 9th pin to RI (Input) se the Digital's RS232C
Isolation Unit, plea	se select it to VCC	Default
Device-Specific Settings		
Allowable No. of De	vice/PLCs 16 Un	it(s) 🔢
No. Device Na	ame	Settings Series=H Series,Station No.=0

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

💰 Individu	al Device Set	ttings 🛛 🗙
PLC1		
Series Please reconfi	H Series	▼
you are using i	if you have chang	ed the series.
Station No.	lo	Default
		Cancel

Settings of External Device (Port on the CPU unit)

Use the ladder software (LADDER EDITOR for Windows) for communication settings. Please refer to the manual of the External Device for more details.

Procedure

- 1. Set the following communication settings in I/O No.WRF03D and turn I/O No.R7F6 ON to write the settings in the FLASH memory in the External Device.
- WRF03D Limit Bit Settings Description 15 1^{*1} Setting Change Request 14 Procedure 1 13 1 Station No.: Enable Transmission speed: 19,200bps 11 to 8 0010(H) Please refer to the manual of the External Device for more details about other transmission speed settings. 7 to 0 0 Station No.*2
- *1 For communication settings, set "1". It will be changed to "0" when turning the power of the External Device again.
- *2 Set the Station No. with BCD 2 digits. Bit position of 7 to 4 corresponds to the digit of 10, and of 3 to 0 corresponds to the digit of 1.

• R7F6

Limit Bit	Settings	Description
-	1	Writing in FLASH memory

3.22 Setting Example 22

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Hitachi IES	Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	C RS232C	RS422/485(2wire) RS422/485(4wire)
Speed	19200	
Data Length	• 7	C 8
Parity	O NONE	EVEN O ODD
Stop Bit	• 1	O 2
Flow Control	C NONE	ER(DTR/CTS) O XON/XOFF
Timeout	3 🚦	(sec)
Retry	2 📫	
Wait To Send	0 🕂	(ms)
Procedure	Procedure 1	
RI / VCC	© BI	O VCC
In the case of RS or VCC (5V Powe	232C, you can sel r Supply). If you u	ect the 9th pin to RI (Input) ise the Digital's RS232C
Isolation Unit, plea	ase select it to VCC	Default
Device-Specific Settings		
Allowable No. of De	vice/PLCs 16 Un	iit(s)
1 PLC1	ame	Settings Series=H Series,Station No.=0
·		

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

💰 Individu	al Device Se	ttings 🗙
PLC1		
Series Please reconf you are using	H Series irm all of address : if you have chang	settings that red the series.
Station No.	0	•
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (Port on the CPU unit)

Use the ladder software (LADDER EDITOR for Windows) for communication settings. Please refer to the manual of the External Device for more details.

Procedure

- 1. Set the following communication settings in I/O No.WRF03D and turn I/O No.R7F6 ON to write the settings in the FLASH memory in the External Device.
- WRF03D

Limit Bit	Settings	Description
15	1*1	Setting Change Request
14	0	Procedure 1
13	1	Station No.: Enable
11 to 8	0010(H)	Transmission speed: 19,200bps Please refer to the manual of the External Device for more details about other transmission speed settings.
7 to 0	0	Station No. ^{*2}

*1 For communication settings, set "1". It will be changed to "0" when turning the power of the External Device again.

- *2 Set the Station No. with BCD 2 digits. Bit position of 7 to 4 corresponds to the digit of 10, and of 3 to 0 corresponds to the digit of 1.
- R7F6

Limit Bit	Settings	Description
-	1	Writing in FLASH memory

3.23 Setting Example 23

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1			
Summary		Change Device/F	PLC
Maker Hitachi IES	δ Co.,Ltd	Driver H Series SIO Port COM1	
Text Data Mode	1 <u>Change</u>		
Communication Settings			
SIO Type	RS232C	O RS422/485(2wire) O RS422/485(4wire)	
Speed	19200	•	
Data Length	• 7	• 8	
Parity	O NONE	EVEN O ODD	
Stop Bit	● 1	O 2	
Flow Control	O NONE	ER(DTR/CTS) O XON/XOFF	
Timeout	3 📫	(sec)	
Retry	2 📫		
Wait To Send	0 ÷	(ms)	
Procedure	Procedure 1	•	
RI / VCC	🖲 BI	O VCC	
In the case of RS or VCC (5V Powe Isolation Unit, ple	232C, you can sele er Supply). If you us ase select it to VCC	et the 9th pin to RI (Input) se the Digital's RS232C 	
Device-Specific Setting:			
Allowable No. of D	evice/PLCs 16 Uni	it(s) 📊	
No. Device N	lame	Settings	
		LE Joenes=H Series	

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

💰 Individu	ial Device Se	ttings 🛛 🗙
PLC1		
Series Please recont you are using	H Series firm all of address : if you have chang	► settings that jed the series.
Station No.	0	÷
		Default
	OK (<u>0</u>)	Cancel

Settings of External Device (EH-OB232)

Use the ladder software (LADDER EDITOR for Windows) for communication settings. Please refer to the manual of the External Device for more details.

Procedure

- 1. Set the following communication settings in I/O No.WRF03D and turn I/O No.R7F6 ON to write the settings in the FLASH memory in the External Device.
- WRF03D

Limit Bit	Settings	Description
15	1*1	Setting Change Request
14	0	Procedure 1
13	0	Station No.: Disable
11 to 8	0010(H)	Transmission speed: 19,200bps Please refer to the manual of the External Device for more details about other transmission speed settings.

*1 For communication settings, set "1". It will be changed to "0" when turning the power of the External Device again.

• R7F6

Limit Bit	Settings	Description
-	1	Writing in FLASH memory

3.24 Setting Example 24

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1	
Summary	Change Device/PLC
Maker Hitachi IES Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode 1 Cha	92
Communication Settings	
SIO Type C RS23	C C RS422/485(2wire) 💿 RS422/485(4wire)
Speed 19200	•
Data Length 💿 7	O 8
Parity C NONE	C EVEN C ODD
Stop Bit 💿 1	© 2
Flow Control C NONE	ER(DTR/CTS) C XON/XOFF
Timeout 3	× (sec)
Retry 2	
Wait To Send 0	* (ms)
Procedure Procedu	1 💌
RI / VCC C RI	C VCC
In the case of RS232C, you ca or VCC (5V Power Supply). If Indiation Unit, places scient it is	i select the 9th pin to RI (Input) u use the Digital's RS232C
Isolation onic, please select it t	Default
Device-Specific Settings	
Allowable No. of Device/PLCs No. Device Name	i Unit(s) [11] Settinas
👗 1 PLC1	Series=H Series,Station No.=0

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series irm all of address : if you have chang	settings that ged the series.
Station No.	0	•
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (EH-OB485)

Use the ladder software (LADDER EDITOR for Windows) for communication settings. Please refer to the manual of the External Device for more details.

Procedure

- 1. Set the following communication settings in I/O No.WRF03D and turn I/O No.R7F6 ON to write the settings in the FLASH memory in the External Device.
- WRF03D

Limit Bit	Settings	Description
15	1*1	Setting Change Request
14	0	Procedure 1
13	1	Station No.: Enable
11 to 8	0010(H)	Transmission speed: 19,200bps Please refer to the manual of the External Device for more details about other transmission speed settings.
7 to 0	0	Station No. ^{*2}

*1 For communication settings, set "1". It will be changed to "0" when turning the power of the External Device again.

- *2 Set the Station No. with BCD 2 digits. Bit position of 7 to 4 corresponds to the digit of 10, and of 3 to 0 corresponds to the digit of 1.
- R7F6

Limit Bit	Settings	Description
-	1	Writing in FLASH memory

3.25 Setting Example 25

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Hitachi IES	Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	C RS232C	RS422/485(2wire) RS422/485(4wire)
Speed	19200	
Data Length	• 7	C 8
Parity	O NONE	EVEN O ODD
Stop Bit	• 1	O 2
Flow Control	C NONE	ER(DTR/CTS) O XON/XOFF
Timeout	3 🚦	(sec)
Retry	2 📫	
Wait To Send	0 🕂	(ms)
Procedure	Procedure 1	
RI / VCC	© BI	O VCC
In the case of RS or VCC (5V Powe	232C, you can sel r Supply). If you u	ect the 9th pin to RI (Input) ise the Digital's RS232C
Isolation Unit, plea	ase select it to VCC	Default
Device-Specific Settings		
Allowable No. of De	vice/PLCs 16 Un	iit(s)
1 PLC1	ame	Settings Series=H Series,Station No.=0
·		

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series irm all of address : if you have chang	settings that ged the series.
Station No.	0	•
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (EH-OB485)

Use the ladder software (LADDER EDITOR for Windows) for communication settings. Please refer to the manual of the External Device for more details.

Procedure

- 1. Set the following communication settings in I/O No.WRF03D and turn I/O No.R7F6 ON to write the settings in the FLASH memory in the External Device.
- WRF03D

Limit Bit	Settings	Description
15	1*1	Setting Change Request
14	0	Procedure 1
13	1	Station No.: Enable
11 to 8	0010(H)	Transmission speed: 19,200bps Please refer to the manual of the External Device for more details about other transmission speed settings.
7 to 0	0	Station No. ^{*2}

*1 For communication settings, set "1". It will be changed to "0" when turning the power of the External Device again.

- *2 Set the Station No. with BCD 2 digits. Bit position of 7 to 4 corresponds to the digit of 10, and of 3 to 0 corresponds to the digit of 1.
- R7F6

Limit Bit	Settings	Description
-	1	Writing in FLASH memory

3.26 Setting Example 26

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1			
Summary		Change Devic	e/PLC
Maker Hitachi IES	Co.,Ltd	Driver H Series SIO Port COM1	
Text Data Mode	1 <u>Change</u>		
Communication Settings			
SIO Type	• RS232C	O RS422/485(2wire)	
Speed	19200		
Data Length	• 7	• 8	
Parity	O NONE	EVEN ODD	
Stop Bit	● 1	© 2	
Flow Control	C NONE	ER(DTR/CTS) C XON/XOFF	
Timeout	3 🗧	(sec)	
Retry	2 🔅		
Wait To Send	0 🗧	(ms)	
Procedure	Procedure 2	T	
RI / VCC	🖲 BI	O VCC	
In the case of RS or VCC (5V Powe Isolation Unit, ple	232C, you can sele ar Supply). If you us ase select it to VCC	ict the 9th pin to RI (Input) ie the Digital's RS232C - Default	
Device-Specific Settings			
Allowable No. of De	evice/PLCs 16 Uni	t(s) 🔢	
No. Device N	lame	Settings	
I PLCI		Interies=H Series	

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series Please recont	H Series firm all of address	▼ settings that
you are using Station No.	if you have chang	ged the series.
	,	Default
	OK (<u>O</u>)	Cancel

■ Settings of External Device (Port on the CPU unit)

Use the ladder software (LADDER EDITOR for Windows) for communication settings. Please refer to the manual of the External Device for more details.

Procedure

1. Use the DIP switch inside the front cover of the External Device to enable the communication with the ladder software.

Set as the following table.

DIP Switch	Settings	Description
SW01	ON	
SW02	OFF	Speed: 19,200 bps Please refer to the manual of the External Device for more details about other
SW03	OFF	transmission speed settings.
SW04	OFF	

- 2. Set 8000(H) in I/O No.WRF01A and turn I/O No.R7F6 ON to write the settings in the FLASH memory in the External Device.
- WRF01A

Limit Bit	Settings	Description
15	1	Procedure 2

• R7F6

Limit Bit	Settings	Description
-	1	Writing in FLASH memory

3.27 Setting Example 27

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Hitachi IES	Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	C RS232C	C RS422/485(2wire) © RS422/485(4wire)
Speed	19200	•
Data Length	• 7	0.8
Parity	O NONE	EVEN ODD
Stop Bit	● 1	0 2
Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF
Timeout	3 📫	(sec)
Retry	2 📫	
Wait To Send	0 🕂	(ms)
Procedure	Procedure 2	•
RI / VCC	© BI	O VCC
In the case of RS2 or VCC (5V Power	232C, you can sele Supply). If you us	ect the 9th pin to RI (Input) se the Digital's RS232C
Isolation Unit, plea	se select it to VCC	Default
Device-Specific Settings		
Allowable No. of De-	vice/PLCs 16 Uni	it(s)
1 PLC1	ame	Series=H Series,Station No.=0
,		

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series irm all of address : if you have chang	settings that ged the series.
Station No.	0	•
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (Port on the CPU unit)

Use the ladder software (LADDER EDITOR for Windows) for communication settings. Please refer to the manual of the External Device for more details.

Procedure

- 1. Set the following communication settings in I/O No.WRF03D and turn I/O No.R7F6 ON to write the settings in the FLASH memory in the External Device.
- WRF03D

Limit Bit	Settings	Description
15	1*1	Setting Change Request
14	1	Procedure 2
13	1	Station No.: Enable
11 to 8	0010(H)	Transmission speed: 19,200bps Please refer to the manual of the External Device for more details about other transmission speed settings.
7 to 0	0	Station No. ^{*2}

*1 For communication settings, set "1". It will be changed to "0" when turning the power of the External Device again.

- *2 Set the Station No. with BCD 2 digits. Bit position of 7 to 4 corresponds to the digit of 10, and of 3 to 0 corresponds to the digit of 1.
- R7F6

Limit Bit	Settings	Description
-	1	Writing in FLASH memory

3.28 Setting Example 28

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Hitachi IES	Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	C RS232C	• RS422/485(2wire) C RS422/485(4wire)
Speed	19200	•
Data Length	• 7	O 8
Parity	O NONE	EVEN ODD
Stop Bit	⊙ 1	0 2
Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF
Timeout	3 📫	(sec)
Retry	2 📫	
Wait To Send	0 🕂	(ms)
Procedure	Procedure 2	•
RI / VCC	🖲 RI	O VCC
In the case of RS2 or VCC (5V Power	232C, you can sele Supply). If you us	set the 9th pin to RI (Input) se the Digital's RS232C
Isolation Unit, plea	se select it to VCL	Default
Device-Specific Settings		
Allowable No. of De	vice/PLCs 16 Uni	it(s)
1 PLC1	anie	Series=H Series,Station No.=0

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series irm all of address : if you have chang	settings that ged the series.
Station No.	0	•
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (Port on the CPU unit)

Use the ladder software (LADDER EDITOR for Windows) for communication settings. Please refer to the manual of the External Device for more details.

Procedure

- 1. Set the following communication settings in I/O No.WRF03D and turn I/O No.R7F6 ON to write the settings in the FLASH memory in the External Device.
- WRF03D

Limit Bit	Settings	Description
15	1*1	Setting Change Request
14	1	Procedure 2
13	1	Station No.: Enable
11 to 8	0010(H)	Transmission speed: 19,200bps Please refer to the manual of the External Device for more details about other transmission speed settings.
7 to 0	0	Station No. ^{*2}

*1 For communication settings, set "1". It will be changed to "0" when turning the power of the External Device again.

- *2 Set the Station No. with BCD 2 digits. Bit position of 7 to 4 corresponds to the digit of 10, and of 3 to 0 corresponds to the digit of 1.
- R7F6

Limit Bit	Settings	Description
-	1	Writing in FLASH memory

3.29 Setting Example 29

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1	
Summary	Change Device/PLC
Maker Hitachi IES Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode 1 Cha	lae
Communication Settings	
SIO Type 💿 RS23	C C RS422/485(2wire) C RS422/485(4wire)
Speed 19200	
Data Length 📀 7	C 8
Parity O NON	
Stop Bit 💿 1	© 2
Flow Control C NON	
Timeout 3	÷ (sec)
Retry 2	÷
Wait To Send 0	🕂 (ms)
Procedure Procedu	•2 💌
RI/VCC 💿 RI	O VCC
In the case of RS232C, you ca or VCC (5V Power Supply). If	n select the 9th pin to RI (Input) ou use the Digital's RS232C
Isolation Unit, please select it t	VCC. Default
Device-Specific Settings	_
Allowable No. of Device/PLCs No. Device Name	6 Unit(s)
1 PLC1	Series=H Series

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

💰 Individu	ial Device Se	ttings 🛛 🗙
PLC1		
Series Please recont you are using	H Series firm all of address : if you have chang	► settings that jed the series.
Station No.	0	÷
		Default
	OK (<u>0</u>)	Cancel

Settings of External Device (EH-OB232)

Use the ladder software (LADDER EDITOR for Windows) for communication settings. Please refer to the manual of the External Device for more details.

Procedure

- 1. Set the following communication settings in I/O No.WRF03D and turn I/O No.R7F6 ON to write the settings in the FLASH memory in the External Device.
- WRF03D

Limit Bit	Settings	Description
15	1*1	Setting Change Request
14	1	Procedure 2
13	0	Station No.: Disable
11 to 8	0010(H)	Transmission speed: 19,200bps Please refer to the manual of the External Device for more details about other transmission speed settings.

*1 For communication settings, set "1". It will be changed to "0" when turning the power of the External Device again.

• R7F6

Limit Bit	Settings	Description
-	1	Writing in FLASH memory

3.30 Setting Example 30

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Hitachi IES 0	Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	C RS232C	O RS422/485(2wire)
Speed	19200	•
Data Length	• 7	© 8
Parity	C NONE	EVEN O ODD
Stop Bit	• 1	© 2
Flow Control	O NONE	• ER(DTR/CTS) C XON/XOFF
Timeout	3 📫 (\$	sec)
Retry	2 📫	
Wait To Send) ÷ 0	ns)
Procedure	Procedure 2	×
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 (Input) • the Digital's RS232C Default
Device-Specific Settings		
Allowable No. of Devi	ice/PLCs_16 Unit(s) 🔢
No. Device Nat 1 PLC1	me	Settings Series=H Series.Station No.=0
[0 0]]. = 2.1		

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series irm all of address : if you have chang	► settings that jed the series.
Station No.	0	•
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (EH-OB485)

Use the ladder software (LADDER EDITOR for Windows) for communication settings. Please refer to the manual of the External Device for more details.

Procedure

- 1. Set the following communication settings in I/O No.WRF03D and turn I/O No.R7F6 ON to write the settings in the FLASH memory in the External Device.
- WRF03D

Limit Bit	Settings	Description
15	1*1	Setting Change Request
14	1	Procedure 2
13	1	Station No.: Enable
11 to 8	0010(H)	Transmission speed: 19,200bps Please refer to the manual of the External Device for more details about other transmission speed settings.
7 to 0	0	Station No. ^{*2}

*1 For communication settings, set "1". It will be changed to "0" when turning the power of the External Device again.

- *2 Set the Station No. with BCD 2 digits. Bit position of 7 to 4 corresponds to the digit of 10, and of 3 to 0 corresponds to the digit of 1.
- R7F6

Limit Bit	Settings	Description
-	1	Writing in FLASH memory

3.31 Setting Example 31

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Hitachi IES	Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	C RS232C	RS422/485(2wire) RS422/485(4wire)
Speed	19200	•
Data Length	7	C 8
Parity	C NONE	
Stop Bit	• 1	© 2
Flow Control	C NONE	ER(DTR/CTS) C XON/XOFF
Timeout	3 📫	(sec)
Retry	2 📫	
Wait To Send	0 🔅	(ms)
Procedure	Procedure 2	
RI / VCC	© RI	O VCC
In the case of RS2 or VCC (5V Power Isolation Unit, plea	32C, you can sele Supply). If you us se select it to VCC	et the 9th pin to RI (Input) e the Digital's RS232C
Device-Specific Settings		
Allowable No. of Dev	/ice/PLCs 16 Uni	it(s) 📊
No. Device Na	ame	Settings
		Utt Joenes=rt Selles, Station No.=0

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series irm all of address : if you have chang	► settings that jed the series.
Station No.	0	•
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (EH-OB485)

Use the ladder software (LADDER EDITOR for Windows) for communication settings. Please refer to the manual of the External Device for more details.

Procedure

- 1. Set the following communication settings in I/O No.WRF03D and turn I/O No.R7F6 ON to write the settings in the FLASH memory in the External Device.
- WRF03D

Limit Bit	Settings	Description
15	1*1	Setting Change Request
14	1	Procedure 2
13	1	Station No.: Enable
11 to 8	0010(H)	Transmission speed: 19,200bps Please refer to the manual of the External Device for more details about other transmission speed settings.
7 to 0	0	Station No. ^{*2}

*1 For communication settings, set "1". It will be changed to "0" when turning the power of the External Device again.

*2 Set the Station No. with BCD 2 digits. Bit position of 7 to 4 corresponds to the digit of 10, and of 3 to 0 corresponds to the digit of 1.

Limit Bit	Settings	Description
-	1	Writing in FLASH memory
3.32 Setting Example 32

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/F	PLC1				
Summa	ry				Change Device/PLC
Ma	aker Hitachi IES C	o.,Ltd	Driver H Se	aries SIO	Port COM1
Te	ext Data Mode 🛛	1 <u>Change</u>			
Commu	inication Settings				
SI	О Туре	RS232C	C RS422/485(2wire) O RS422/485(4wire)	
Sp	beed	19200	-		
Da	ata Length	⊙ 7	08		
Pa	arity	C NONE	EVEN	O ODD	
Ste	op Bit	● 1	C 2		
Flo	ow Control	C NONE	ER(DTR/CTS)	O XON/XOFF	
Tir	meout	3 📫 (s	ec)		
Re	etry	2			
\sim	ait To Send	0 📑 (r	ns)		
Pro	ocedure	Procedure 1	-		
RI	/ VCC	🖲 BI	O VCC		
l l	n the case of RS23 or VCC (5V Power 9	2C, you can select Supplu). If you use	t the 9th pin to RI (Inpu the Digital's BS2320	ut)	
l l	solation Unit, please	e select it to VCC.		Default	
Device	-Specific Settings				
All	lowable No. of Devid	ce/PLCs_16 Unit(;	s) 📷		
L.	No. Device Nam	ne	Settings	eb Controller Series	
00			HILL FORMER IN S		

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	Web Controller S	eries 💌
Please reconfirm all of address settings that you are using if you have changed the series.		
Station No.	0	÷
		Default
	OK (<u>D</u>)	Cancel

Settings of External Device (Web controller)

Use the Web Browser to access the External Device for communication setting. Please refer to the manual of the External Device for more details.

Procedure

Please refer to the manual of the Web controller for more details.

1. If you set the operation mode setting switch of the External Device as follows, the temporary IP address of the Ethernet port will be set to 192.168.0.1.

<Operation Mode Setting Switch>

•Set the rotary switch to "2"

- 2. Use the LAN cable to connect the Ethernet port of PC to the Ethernet port of the Web controller.(connect via HUB or with the cross cable directly.)
- Enter "http://192.168.0.1/mwconfig.cgi" in the address input box of the Web Browser to access the External Device.

To access, you need to set the upper 3 bytes of PC's IP address to 192.168.0.. (ex. 192.168.0.10)

- 4. Login in the displayed System Configuration Login screen.
- Select [Serial Protocol]-[Passive HIProtocol] from [System Configuration] on the displayed screen for communication settings. After settings, click [SET] to confirm the setting values.

Serial-Passive HIProtocol

Setup Items	Setting Value
Interface Type	RS232C
Transmission Control Procedure	Procedure1 1:1 ^{*1}
Transmission Speed	19.2 kbps
Station No.	0

- *1 To use Procedure 2, select [Procedure 2 1:1].
- Set the operation mode setting switch of the External Device and turn ON the power again.
 <Operation Mode Setting Switch>

•Set the rotary switch to "0"

3.33 Setting Example 33

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Hitad	hi IES Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mo	de 1 <u>Change</u>	
Communication Se	ttings	
SIO Type	RS232C (C RS422/485(2wire) C RS422/485(4wire)
Speed	19200	
Data Length	• 7 • 0	C 8
Parity	C NONE C	EVEN ODD
Stop Bit	© 1 (0 2
Flow Control	C NONE (ER(DTR/CTS) C XON/XOFF
Timeout	3 📫 (sec	c)
Retry	2	
Wait To Send	i 🛛 🕂 (ms)	.)
Procedure	Procedure 1	•
RI / VCC	⊙ RI (C VCC
In the case or VCC (5V Isolation Un	of RS232C, you can select th Power Supply). If you use th it, please select it to VCC.	he 9th pin to RI (Input) he Digital's RS232C Default
Device-Specific St	attinas	
Allowable No.	of Device/PLCs 16 Unit(s)	ate .
No. De	vice Name	Settings
👗 i pl	J	Utt Series=EHV Series

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

💰 Individu	al Device Se	ttings 🛛 🗙		
PLC1				
Series EHV Series Please reconfirm all of address settings that				
you are using if you have changed the series. Station No.				
		Default		
	OK (<u>D</u>)	Cancel		

Settings of External Device (Serial port on the CPU unit)

Use the programming software (Control Editor) for communication settings. Please refer to the manual of the External Device for more details.

Procedure

- 1. Start the programming software and create the project. The project is displayed in the offline mode.
- 2. Select [Editor Communication Setting] from the [Tool] menu to display the communication setting dialog box.
- 3. Select either "USB" or "Serial" for the communication method to transfer the communication setting to the External Device and click [Setting].
- 4. Use the USB cable or serial cable (by Hitachi IES Co., Ltd.) to connect PC to the External Device.
- 5. Select [Mode Change] [Online] from the [Online] menu to move to the online mode.
- 6. Select [CPU Settings] [Serial Communication Settings] from the [Tool] menu to perform the communication settings.
- CPU Communication Settings (Serial Communication Settings)

Setup Items	Settings
Serial Communication Settings	Specified
Port Type	RS232C
Speed	19.2 kbps
Communication Procedure	Procedure 1 $(1:1)^{*1}$

*1 To use Procedure 2 for communication, select [Procedure 2 (1:1)].

7. Turn ON the power of the External Device again.

3.34 Setting Example 34

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Hitachi IES	Co.,Ltd	Driver H Series SIO Port COM1
Text Data Mode	1 Change	
Communication Settings		
SIO Type	C RS232C	C RS422/485(2wire) © RS422/485(4wire)
Speed	19200	
Data Length	7	C 8
Parity	C NONE	
Stop Bit	• 1	© 2
Flow Control	C NONE	• ER(DTR/CTS) • XON/XOFF
Timeout	3	(sec)
Retry	2	
Wait To Send	0 🔅	(ms)
Procedure	Procedure 1	
RI / VCC	🗇 BI	O VCC
In the case of RS2 or VCC (5V Power Isolation Unit, plea	32C, you can sele Supply). If you us se select it to VCC	et the 9th pin to RI (Input) e the Digital's RS232C ~ Default
Device-Specific Settings		
Allowable No. of Dev	/ice/PLCs 16 Uni	it(s)
No. Device Na	ame	Settings
J PLC1		UTT Series=EHV Series,Station No.=0

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

💰 Individu	ial Device Se	ttings 🛛 🗙	
PLC1			
Series EHV Series Please reconfirm all of address settings that you are using if you have changed the series.			
Station No.	0		
		Default	
	OK (<u>O</u>)	Cancel	

Settings of External Device (Serial port on the CPU unit)

Use the programming software (Control Editor) for communication settings. Please refer to the manual of the External Device for more details.

Procedure

- 1. Start the programming software and create the project. The project is displayed in the offline mode.
- 2. Select [Editor Communication Setting] from the [Tool] menu to display the communication setting dialog box.
- 3. Select either "USB" or "Serial" for the communication method to transfer the communication setting to the External Device and click [Setting].
- 4. Use the USB cable or serial cable (by Hitachi IES Co., Ltd.) to connect PC to the External Device.
- 5. Select [Mode Change] [Online] from the [Online] menu to move to the online mode.
- 6. Select [CPU Settings] [Serial Communication Settings] from the [Tool] menu to perform the communication settings.
- CPU Communication Settings (Serial Communication Settings)

Setup Items	Settings
Serial Communication Settings	Specified
Port Type	RS422/RS485
Speed	19.2 kbps
Communication Procedure	Procedure 1 (1:n) ^{*1}
Station No.	Enter the Station No. set on the display. ^{*2}

*1 To use Procedure 2 for communication, select [Procedure 2 (1:n)].

- *2 If you set the Station No. to "None", communication is not available.
- 7. Turn ON the power of the External Device again.

3.35 Setting Example 35

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1				
Summary	Change Device/PLC			
Maker Hitachi IES Co.,Ltd Driver H Series SIO	Port COM1			
Text Data Mode 1 Change				
Communication Settings				
SIO Type C RS232C © RS422/485(2wire) C RS422/485(4wire)				
Speed 19200				
Data Length 💿 7 💿 8				
Parity CINONE O EVEN CI ODD				
Stop Bit 💿 1 💿 2				
Flow Control C NONE © ER(DTR/CTS) C XON/XOFF				
Timeout 3 🚉 (sec)				
Retry 2				
Wait To Send 0 📑 (ms)				
Procedure Procedure 1				
RI / VCC © RI O VCC				
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit please select it to VCC				
Device-Specific Settings				
No. Device Name Settings				
1 PLC1 Series=EHV Series,Station No.=0				

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

💰 Individu	al Device Se	ttings 🛛 🗙		
PLC1				
Series EHV Series Please reconfirm all of address settings that				
Station No. 0				
		Default		
	OK (<u>0)</u>	Cancel		

Settings of External Device (Serial port on the CPU unit)

Use the programming software (Control Editor) for communication settings. Please refer to the manual of the External Device for more details.

Procedure

- 1. Start the programming software and create the project. The project is displayed in the offline mode.
- 2. Select [Editor Communication Setting] from the [Tool] menu to display the communication setting dialog box.
- 3. Select either "USB" or "Serial" for the communication method to transfer the communication setting to the External Device and click [Setting].
- 4. Use the USB cable or serial cable (by Hitachi IES Co., Ltd.) to connect PC to the External Device.
- 5. Select [Mode Change] [Online] from the [Online] menu to move to the online mode.
- 6. Select [CPU Settings] [Serial Communication Settings] from the [Tool] menu to perform the communication settings.
- CPU Communication Settings (Serial Communication Settings)

Setup Items	Settings
Serial Communication Settings	Specified
Port Type	RS422/RS485
Speed	19.2 kbps
Communication Procedure	Procedure 1 (1:n) ^{*1}
Station No.	Enter the Station No. set on the display. ^{*2}

*1 To use Procedure 2 for communication, select [Procedure 2 (1:n)].

- *2 If you set the Station No. to "None", communication is not available.
- 7. Turn ON the power of the External Device again.

3.36 Setting Example 36

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PL	21			
Summary			Change Device/PLC	2
Make	भ Hitachi IES C	Co.,Ltd	Driver H Series SIO Port COM1	1
Text	Data Mode	1 <u>Change</u>		
Communic	ation Settings			
SIO 1	Гуре	• RS232C	O RS422/485(2wire)	
Spee	:d	19200		
Data	Length	7	• 8	
Parity	,	C NONE	EVEN ODD	
Stop	Bit	⊙ 1	0 2	
Flow	Control	C NONE	ER(DTR/CTS)	
Time	out	3 📫 (;	(sec)	
Retry		2 .		
Wait	To Send	0 📫 (r	(ms)	
Proc	edure	Procedure 1	T	
BLZ	VCC	RI	O VCC	
In t	he case of RS23	32C, you can selec	ect the 9th pin to RI (Input)	
Isol	ation Unit, pleas	e select it to VCC.	Default	
Device-Sr	ecific Settinas			
Allow	able No. of Devi	ice/PLCs 16 Unit(it(s) 🔢	
	No. Device Nar	me	Settings	
ă.	I PLC1		In Series=EHV Series	

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series	EHV Series	•
Please recon you are using	firm all of address if you have chang	settings that ged the series.
Station No.	0	÷
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (EH-SIO)

Use the switch on the EH-SIO for communication settings. After setting, assign I/O, and turn ON the power of the External Device again to enable the setting. Use the ladder software (LADDER EDITOR for Windows) for the I/O assignment.

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

Procedure

1. Use the DIP switch on the EH-SIO for communication settings.

DIP Switch	Settings	Description	
01	OFF	G 1 10 2001	
02	ON	Speed: 19,200 bps	
03	ON	transmission speed settings	
04	ON	ausinission speed settings.	
05	OFF	Transmission character configuration settings	
06	ON	Data Length: 7 bits	
07	OFF	Stop Bit: 1 bit Parity: Even	
08	OFF	Always OFF	

• Communication Setting Switch 1 (for Port 1)

2. Ladder program is required for initial settings. Please refer to the manual of the External Device for more details.

3.37 Setting Example 37

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1			
Summary		Change Device/PLC	2
Maker Hitachi IES	Co.,Ltd	Driver H Series SIO Port COM1	ľ.
Text Data Mode	1 <u>Change</u>		
Communication Settings			
SIO Type	RS232C	C RS422/485(2wire) C RS422/485(4wire)	
Speed	19200		
Data Length	• 7	C 8	
Parity	O NONE		
Stop Bit	● 1	© 2	
Flow Control	O NONE	ER(DTR/CTS) O XON/XOFF	
Timeout	3 📫	(sec)	
Retry	2 📫		
Wait To Send		(ms)	
Procedure	Procedure 1		
RI / VCC	• BI	O VCC	
In the case of RS2 or VCC (5V Power	32C, you can selec Supply). If you use	et the 9th pin to RI (Input) te the Digital's RS232C	
Isolation Unit, plea	se select it to VCC.	Default	
Device-Specific Settings			
Allowable No. of Dev	vice/PLCs 16 Unit		
NO. DEVICE NA	ame	Series=EHV Series	_

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

💰 Individu	al Device Se	ttings 🛛 🗙
PLC1		
Series	EHV Series	•
Please recon you are using	firm all of address if you have chang	settings that ged the series.
Station No.	0	÷
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (EH-SIO)

Use the switch on the EH-SIO for communication settings. After setting, assign I/O, and turn ON the power of the External Device again to enable the setting. Use the ladder software (LADDER EDITOR for Windows) for the I/O assignment.

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

Procedure

1. Use the DIP switch on the EH-SIO for communication settings.

DIP Switch	Settings	Description	
01	OFF	G 1 10 2001	
02	ON	Speed: 19,200 bps	
03	ON	transmission speed settings.	
04	ON		
05	OFF	Transmission character configuration settings	
06	ON	Data Length: 7 bits	
07	OFF	Stop Bit: 1 bit Parity: Even	
08	OFF	Interface Type: RS232C	

• Communication Setting Switch 2 (for Port 2)

2. Ladder program is required for initial settings. Please refer to the manual of the External Device for more details.

3.38 Setting Example 38

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1					
Summary		Change Device/PLC			
Maker Hitachi IES Co.,Ltd	Driver H Series SIO	Port COM1			
Text Data Mode 1 Change					
Communication Settings					
SIO Type C RS232C	O RS422/485(2wire)				
Speed 19200	•				
Data Length 💿 7	• 8				
Parity C NONE	● EVEN C ODD				
Stop Bit 💿 1	0 2				
Flow Control O NONE	ER(DTR/CTS) C XON/XOFF				
Timeout 3 📑 (se	c)				
Retry 2 📑					
Wait To Send 🛛 📑 (ms	8)				
Procedure Procedure 1	•				
RI / VCC © RI	O VCC				
In the case of RS232C, you can select t or VCC (5V Power Supply). If you use th Isolation Unit, please select it to VCC.	the 9th pin to RI (Input) he Digital's RS232C Default				
Device-Specific Settings					
Allowable No. of Device/PLCs 16 Unit(s)					
No. Device Name	No. Device Name Settings				
I PLC1	ISeries=EHV Series,Station No.=0				

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

💰 Individu	ial Device Se	ttings 🛛 🗙
PLC1		
Series Please recont you are using	EHV Series	► settings that jed the series.
Station No.	0	•
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (EH-SIO)

Use the switch on the EH-SIO for communication settings. After setting, assign I/O, and turn ON the power of the External Device again to enable the setting. Use the ladder software (LADDER EDITOR for Windows) for the I/O assignment.

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

Procedure

1. Use the DIP switch on the EH-SIO for communication settings.

DIP Switch	Settings	Description	
01	OFF		
02	ON	Speed: 19,200 bps	
03	ON	transmission speed settings.	
04	ON		
05	OFF	Transmission character configuration settings Data Length: 7 bits Stop Bit: 1 bit Parity: Even	
06	ON		
07	OFF		
08	ON	Interface Type: RS422/RS485C	

• Communication Setting Switch 2 (for Port 2)

2. Ladder program is required for initial settings. Please refer to the manual of the External Device for more details.

3.39 Setting Example 39

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1				
Summary		Change Device/PLC		
Maker Hitachi IES C	lo.,Ltd	Driver H Series SIO Port COM1		
Text Data Mode	1 <u>Change</u>			
Communication Settings				
SIO Type	C RS232C	RS422/485(2wire) RS422/485(4wire)		
Speed	19200			
Data Length	• 7	08		
Parity	C NONE	EVEN O ODD		
Stop Bit	⊙ 1	© 2		
Flow Control	C NONE	ER(DTR/CTS) O XON/XOFF		
Timeout	3 🕂 (*	sec)		
Retry	2			
Wait To Send	0 🕂 ()	ms)		
Procedure	Procedure 1	T		
RI / VCC	🖲 BI	O VCC		
In the case of RS23 or VCC (5V Power S Isolation Unit, please	/2C, you can selec Supply). If you use e select it to VCC.	t the 9th pin to RI (Input) e the Digital's RS232C Default		
Device-Specific Settings				
Allowable No. of Device/PLCs 16 Unit(s)				
No. Device Nar	ne	Settings		
. , cor				

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

💰 Individu	ial Device Se	ttings 🛛 🗙
PLC1		
Series Please recont you are using	EHV Series	► settings that jed the series.
Station No.	0	•
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device (EH-SIO)

Use the switch on the EH-SIO for communication settings. After setting, assign I/O, and turn ON the power of the External Device again to enable the setting. Use the ladder software (LADDER EDITOR for Windows) for the I/O assignment.

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

Procedure

1. Use the DIP switch on the EH-SIO for communication settings.

DIP Switch	Settings	Description	
01	OFF		
02	ON	Speed: 19,200 bps	
03	ON	transmission speed settings.	
04	ON		
05	OFF	Transmission character configuration settings Data Length: 7 bits Stop Bit: 1 bit Parity: Even	
06	ON		
07	OFF		
08	ON	Interface Type: RS422/RS485C	

• Communication Setting Switch 2 (for Port 2)

2. Ladder program is required for initial settings. Please refer to the manual of the External Device for more details.

3.40 Setting Example 40

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1				
Summary				Change Device/PLC
Maker Hitachi IES C	io.,Ltd	Driver H Se	aries SIO	Port COM1
Text Data Mode	1 <u>Change</u>			
Communication Settings				
SIO Type	• RS232C	C RS422/485(2wire)) C RS422/485(4wire)	
Speed	19200	-		
Data Length	• 7	C 8		
Parity	○ NONE	EVEN	O ODD	
Stop Bit	⊙ 1	C 2		
Flow Control	O NONE	ER(DTR/CTS)	C XON/XOFF	
Timeout	3 📑 (se	ec)		
Retry	2 📫			
Wait To Send	0 🕂 (m	15)		
Procedure	Procedure 1	•		
RI / VCC	• BI	C VCC		
In the case of RS23 or VCC (5V Power S	2C, you can select Supply). If you use	the 9th pin to RI (Inpu the Digital's RS232C	it)	
Isolation Unit, please	e select it to VCC.		Default	
Device-Specific Settings				
Allowable No. of Device Nan	ce/PLCs 16 Unit(s	i) Littings		
1 PLC1		Series=We	eb Controller Series	

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

💰 Individu	al Device Se	ttings 🛛 🗙	
PLC1			
Series Please reconfi you are using	Web Controller S irm all of address : if you have chang	eries 💽	
Station No.	0	÷	
		Default	
	OK (<u>O</u>)	Cancel	

Settings of External Device (Web controller)

Use the Web Browser to access the External Device for communication setting. Please refer to the manual of the External Device for more details.

Procedure

Please refer to the manual of the Web controller for more details.

1. If you set the operation mode setting switch of the External Device as follows, the temporary IP address of the Ethernet port will be set to 192.168.0.1.

<Operation Mode Setting Switch>

•Set only the DIP switch4 to ON

- 2. Use the LAN cable to connect the Ethernet port of PC to the Ethernet port of the Web controller.(connect via HUB or with the cross cable directly.)
- Enter "http://192.168.0.1/mwconfig.cgi" in the address input box of the Web Browser to access the External Device.

To access, you need to set the upper 3 bytes of PC's IP address to 192.168.0.. (ex. 192.168.0.10)

- 4. Login in the displayed System Configuration Login screen.
- Select [Serial Protocol]-[Passive HIProtocol] from [System Configuration] on the displayed screen for communication settings. After settings, click [SET] to confirm the setting values.

Serial-Passive HIProtocol

Setup Items	Setting Value
Interface Type	RS232C
Transmission Control Procedure	Procedure1 1:1 ^{*1}
Transmission Speed	19.2 kbps
Station No.	0

- *1 To use Procedure 2, select [Procedure2 1:1].
- Set the operation mode setting switch of the External Device and turn ON the power again.
 <Operation Mode Setting Switch>

•Set all the DIP switch to OFF

3.41 Setting Example 41

- Settings of GP-Pro EX
- ♦ Communication Settings

Devic	e/PLC1		
Sum	mary		Change Device/PLC
	Maker Hitachi IE	S Co., Ltd.	Series H Series SIO Port COM1
	Text Data Mode	1 <u>Change</u>	
Com	munication Settings		
	SIO Type	C RS232C	O RS422/485(2wire)
	Speed	19200	
	Data Length	• 7	08
	Parity	O NONE	EVEN ODD
	Stop Bit	⊙ 1	0 2
	Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF
	Timeout	3 🕂 (:	sec)
	Retry	2 🗧	
	Wait To Send	0 🗧 (ms)
	Procedure	Procedure 1	×
	RI / VCC	© BI	O VCC
	In the case of RS23 or VCC (5V Power S Isolation Unit, pleas	32C, you can selec Supply). If you use e select it to VCC.	xt the 9th pin to RI (Input) e the Digital's RS232C Default
Dev	ice-Specific Settings		
	Allowable Number of I	Devices/PLCs	16 🙀
	Number Device Na	ame	Settings
	M PLC1		Series=Web Controller Series

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

💰 Individu	al Device Se	ttings 🛛 🗙	
PLC1			
Series Please reconfi you are using	Web Controller S irm all of address : if you have chang	eries 💽	
Station No.	0	÷	
		Default	
	OK (<u>O</u>)	Cancel	

Settings of External Device (Web controller)

Use the Web Browser to access the External Device for communication setting. Please refer to the manual of the External Device for more details.

Procedure

Please refer to the manual of the Web controller for more details.

1. If you set the operation mode setting switch of the External Device as follows, the temporary IP address of the Ethernet port will be set to 192.168.0.1.

<Operation Mode Setting Switch>

•Set only the DIP switch4 to ON

- 2. Use the LAN cable to connect the Ethernet port of PC to the Ethernet port of the Web controller.(connect via HUB or with the cross cable directly.)
- Enter "http://192.168.0.1/mwconfig.cgi" in the address input box of the Web Browser to access the External Device.

To access, you need to set the upper 3 bytes of PC's IP address to 192.168.0.. (ex. 192.168.0.10)

- 4. Login in the displayed System Configuration Login screen.
- Select [Serial Protocol]-[Passive HIProtocol] from [System Configuration] on the displayed screen for communication settings. After settings, click [SET] to confirm the setting values.

Serial-Passive HIProtocol

Setup Items	Setting Value
Interface Type	RS-422/485
Transmission Control Procedure	Procedure1 1:1 ^{*1}
Transmission Speed	19.2 kbps
Station No.	0

- *1 To use Procedure 2, select [Procedure2 1:1].
- Set the operation mode setting switch of the External Device and turn ON the power again.
 <Operation Mode Setting Switch>

•Set all the DIP switch to OFF

3.42 Setting Example 42

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1			
Summary			Change Device/PLC
Maker Hitachi	ES Co., Ltd.	Series H Series SIO	Port COM1
Text Data Mode	1 Change		
Communication Settings			
SIO Type	○ R\$232C	5422/485(2wire) O RS422/485(4wire)	
Speed	19200 💌]	
Data Length	• 7 • 8		
Parity	O NONE O EV	/EN O ODD	
Stop Bit	⊙1 O 2		
Flow Control	C NONE C EF	R(DTR/CTS) O XON/XOFF	
Timeout	3 🕂 (sec)		
Retry	2 +		
Wait To Send	0 🕂 (ms)		
Procedure	Procedure 1]	
RI / VCC	© RI O VO		
In the case of RS or VCC (5V Powe Isolation Unit, plea	232C, you can select the 9th Supply). If you use the Dig se select it to VCC.	h pin to RI (Input) gital's RS232C Default	
Device-Specific Settings			
Allowable Number of	Devices/PLCs 16		
Number Device I	lame	Settings Series=Web Controller Series	

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

💰 Individu	al Device Se	ttings 🛛 🗙	
PLC1			
Series Please reconfi you are using	Web Controller S irm all of address : if you have chang	eries 💽	
Station No.	0	÷	
		Default	
	OK (<u>O</u>)	Cancel	

Settings of External Device (Web controller)

Use the Web Browser to access the External Device for communication setting. Please refer to the manual of the External Device for more details.

Procedure

Please refer to the manual of the Web controller for more details.

- 1. If you set the operation mode setting switch of the External Device as follows, the temporary IP address of the Ethernet port will be set to 192.168.0.1.
 - <Operation Mode Setting Switch>
 - Set only the DIP switch4 to ON
- 2. Use the LAN cable to connect the Ethernet port of PC to the Ethernet port of the Web controller.(connect via HUB or with the cross cable directly.)
- Enter "http://192.168.0.1/mwconfig.cgi" in the address input box of the Web Browser to access the External Device.

To access, you need to set the upper 3 bytes of PC's IP address to 192.168.0.. (ex. 192.168.0.10)

- 4. Login in the displayed System Configuration Login screen.
- Select [Serial Protocol]-[Passive HIProtocol] from [System Configuration] on the displayed screen for communication settings. After settings, click [SET] to confirm the setting values.

Serial-Passive HIProtocol

Setup Items	Setting Value
Interface Type	RS-422/485
Transmission Control Procedure	Procedure1 1:1 ^{*1}
Transmission Speed	19.2 kbps
Station No.	0

- *1 To use Procedure 2, select [Procedure2 1:1].
- Set the operation mode setting switch of the External Device and turn ON the power again.
 <Operation Mode Setting Switch>

•Set all the DIP switch to OFF

4 Setup Items

Set communication settings of the Display with GP-Pro Ex or in off-line mode of the Display. The setting of each parameter must be identical to that of External Device.

"3 Example of Communication Setting" (page 11)

4.1 Setup Items in GP-Pro EX

Communication Settings

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

Device/PLC 1				
Summary				Change Device/PLC
Maker Hitachi IES I	Co.,Ltd	Driver HS	ieries SIO	Port COM1
Text Data Mode	1 <u>Change</u>			
Communication Settings				
SIO Type	• RS232C	O R\$422/485(2win	e) 🔿 RS422/485(4wire))
Speed	19200	•		
Data Length	• 7	0.8		
Parity	O NONE	EVEN	O ODD	
Stop Bit	● 1	O 2		
Flow Control	O NONE	ER(DTR/CTS)	C XON/XOFF	
Timeout	3 🕂	(sec)		
Retry	2 ÷			
Wait To Send	0 🕂	(ms)		
Procedure	Procedure 1	•		
RI / VCC	• BI	O VCC		
In the case of RS2 or VCC (5V Power Isolation Unit, pleas	32C, you can sele Supply). If you us se select it to VCC.	ct the 9th pin to RI (Inp e the Digital's RS232C	ut) Defau	ik
Device-Specific Settings				
Allowable No. of Dev	rice/PLCs 16 Unit	:(s) 📷		
No. Device Na	me	Settings	Carias	
I PLUI		Interested in the series of th	Selles	

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.

Continues to the 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.
Procedure	Select the transmission control procedure on the External Device.
RI/VCC	You can switch RI/VCC of the 9th pin when you select RS232C for SIO type. It is necessary to change RI/5V by changeover switch of IPC when connect with IPC. Please refer to the manual of the IPC for more detail.

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.

💰 Individu	al Device S	ettings 🛛 🗙
PLC1		
Series Please reconf you are using	H Series irm all of addres if you have char	▼ s settings that nged the series.
Station No.	0	*
		Default
	OK (<u>0)</u>	Cancel

Setup Items	Setup Description		
Series	Selects a model of the External Device.		
Station No.	Enter the unit No. of the External Device.		

4.2 Settings in Off-Line Mode

NOTE

• Please refer to Maintenance/Troubleshooting for more information on how to enter off-line mode or about operation.

Cf. Maintenance/Troubleshooting "2.2 Offline 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		
H Series SIO			[COM1]	Page 1/1
	SIO Type Speed Data Length Parity Stop Bit Flow Control Timeout(s) Retry Wait To Send(ms) Procedure	RS232C 19200 • 7 • NONE • 1 JER(DTR/C	8 • EVEN 2 TS) 3 • • •	 ODD Image: A state of the state of the
	Exit		Back	2006/05/15 11:31:09

Setup Items	Setup Description
SIO Type	Select the SIO type to communicate with the External Device. MPORTANT To make the communication settings correctly, confirm the serial interface specifications of Display unit for [SIO Type]. We cannot guarantee the operation if a communication type that the serial interface does not support is specified. For details concerning the serial interface specifications, refer to the manual for Display unit.
Speed	Select speed between the External Device and the Display.
Data Length	Select data length.
Parity	Select how to check parity.
Stop Bit	Select stop bit length.
Flow Control	Select the communication control method to prevent overflow of transmission and reception data.
Timeout	Use an integer from 1 to 127 to enter the time (s) for which the Display waits for the response from the External Device.

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.
Procedure	Select the transmission control procedure on the External Device.

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		
H Series SIO			[COM1]	Page 1/1
Devic	e/PLC Name PL	01		_
	Series	H Series		
	Station No		<u> </u>	1
		ļ		_
	Exit		Back	2006/05/15 11:31:12

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	Displays a model of the External Device.
Station No.	Enter the unit No. of the External Device.

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		
H Series SIO			[COM1]	Page 1/1
	RI / VCC In the case the 9th pin Power Suppl RS232C Isol it to VCC.	 RI of RS232C, you to RI(Input) or y). If you use thation Unit, pleadion 	vCC can select VCC(5V e Digital's se select	
	Exit	-	Back	2006/05/15 11:31:14

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.

5 Cable Diagram

The cable diagram shown below may be different from the cable diagram recommended by Hitachi IES Co., Ltd. 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 ^{*1}	Remarks
GP (COM1) IPC ^{*2} PC/AT	А	By Hitachi IES Co., Ltd. WVCB02H	Cable length:
	В	Your own cable 1	15m or less
	С	Your own cable 2	

*1 You need to change the wiring depending on the speed.

	H-200 H-250 H-252B		H-252C		H-300/H-302 H-700/H-702 H-2000/H-2002		H-4010	
	Speed	Wiring	Speed	Wiring	Speed	Wiring	Speed	Wiring
Peripheral Port 1 or Serial Port 1	2400bps 4800bps 9600bps	В	2400bps 4800bps 9600bps 19200bps	A B C	4800bps	В	4800bps	В
	19200bps	A C			19200bps	A C	19200bps 38400bps	A, C A,B,C
Peripheral Port 2			4800bps	В			4800bps	В
or Serial Port 2	-	-	19200bps	A	-	-	19200bps	A, C
				C			38400bps	A,B,C

*2 Only the COM port which can communicate by RS-232C can be used. ^{CP} ■ COM Port of IPC (page 8)

A. When using WVCB02H (2m) by Hitachi IES Co., Ltd.



B. When using your own cable 1

	D-Sub 9	oin (socket)	Chield	Externa D-Su	al Device b 15 pin	
	Pin	Signal name	Shield	Pin	Signal name	
	2	RD(RXD)		2	SD	
Display	3	SD(TXD)		3	RD	
	6	DR(DSR)		5	CS	4
	4	ER(DTR)		7	DR	μ
	5	SG		9	SG	
	7	RS(RTS)		8	PHL	
	8	CS(CTS)	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	4	RS	
	Shell	FG	<u>_</u> /	14	PV12	

C. When using your own cable 2

	D-Sub 9 pin (socket)		Objected	External Device D-Sub 15 pin		
Display	Pin	Signal name	Snleid	Pin	Signal name	
	2	RD(RXD)		2	SD	
	3	SD(TXD)		3	RD	
	6	DR(DSR)		5	CS 🗲	٦
	4	ER(DTR)		7	DR –	
	5	SG		9	SG	
	7	RS(RTS)		8	PHL	٦
	8	CS(CTS)	← \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4	RS	
	Shell	FG	<u>_</u>	14	PV12 -	

Cable Diagram 2

Display (Connection Port)	Cable		Remarks	
GP ^{*1} (COM1) AGP-3302B (COM2) IPC ^{*2}		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: 250m or less	
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable		

*1 All GP models except AGP-3302B

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

- 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



^{*3} All GP models except GP-3200 series and AGP-3302B

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



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



• 1:n Connection



Cable Diagram 3

Display (Connection Port)	Cable ^{*1}	Remarks
	A By Hitachi IES Co., Ltd. EH-VCB02(2m)	
GP (COM1) IPC ^{*2}	B Hitachi IES Co., Ltd. WVCB02H(2m) + Conversion cable by Hitachi IES Co., Ltd. EH-RS05(0.5m)	Cable length:
PC/AT	C C Conversion cable by Hitachi IES Co., Ltd. EH-RS05(0.5m)	15m or less
	D Your own cable 2 + Conversion cable by Hitachi IES Co., Ltd. EH-RS05(0.5m)	

*1 You need to change the wiring depending on the speed.

	EH-150	
	Speed	Wiring
Peripheral Port 1 or Serial Port 1	4800bps 9600bps 19200bps 38400bps	A B C D
Peripheral Port 2	4800bps 9600bps	A C
Serial Port 2	19200bps 38400bps	B D

- *2 Only the COM port which can communicate by RS-232C can be used. ^{CP} ■ COM Port of IPC (page 8)
 - A. When using the cable (EH-VCB02) by Hitachi IES Co., Ltd.



B. When using the cable (WVCB02H) by Hitachi IES Co., Ltd. and the conversion cable (EH-RS05) by Hitachi IES Co., Ltd.



C. When using your own cable 1 and the conversion cable (EH-RS05) by Hitachi IES Co., Ltd.



D. When using your own cable 2 and the conversion cable (EH-RS05) by Hitachi IES Co., Ltd.



Cable Diagram 4

Display (Connection Port)	Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (COM2) IPC ^{*2}	A COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Conversion cable by Hitachi IES Co., Ltd. EH-RS05	
	B Your own cable + Conversion cable by Hitachi IES Co., Ltd. EH-RS05	
GP*3 (COM2)	C Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Conversion cable by Hitachi IES Co., Ltd. EH-RS05	Cable length: 500m or less
	D Online adapter by Pro-face CA4-ADPONL-01 + D Your own cable + Conversion cable by Hitachi IES Co., Ltd. EH-RS05	

*1 All GP models except AGP-3302B

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

*3 All GP models except GP-3200 series and AGP-3302B
- A. When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, your own cable and the conversion cable (EH-RS05) by Hitachi IES Co., Ltd.
- 1:1 Connection



*For more information about the termination resistance, contact Hitachi IES Co., Ltd.

B. When using your own cable and the conversion cable (EH-RS05) by Hitachi IES Co., Ltd.



1:n Connection



*For more information about the termination resistance, contact Hitachi IES Co., Ltd.

- C. When using the online adapter (CA4-ADPONL-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, your own cable and the conversion cable (EH-RS05) by Hitachi IES Co., Ltd.
- 1:1 Connection



• 1:n Connection



*For more information about the termination resistance, contact Hitachi IES Co., Ltd.

D. When using the online adapter (CA4-ADPONL-01), your own cable and the conversion cable (EH-RS05) by Hitachi IES Co., Ltd.



*For more information about the termination resistance, contact Hitachi IES Co., Ltd.

Cable Diagram 5

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (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 + Conversion cable by Hitachi IES Co., Ltd. EH-RS05	
	В	Your own cable + Conversion cable by Hitachi IES Co., Ltd. EH-RS05	
GP*2 (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable + Conversion cable by Hitachi IES Co., Ltd. EH-RS05	Cable length: 500m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable + Conversion cable by Hitachi IES Co., Ltd. EH-RS05	
IPC ^{*3}	Е	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable + Conversion cable by Hitachi IES Co., Ltd. EH-RS05	
	F	Your own cable + Conversion cable by Hitachi IES Co., Ltd. EH-RS05	

*1 All GP models except AGP-3302B

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

*3 Only the COM port which can communicate by RS-422/485 (2 wire) can be used.

COM Port of IPC (page 8)

- A. When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, your own cable and the conversion cable (EH-RS05) by Hitachi IES Co., Ltd.
- 1:1 Connection





Your own cable

- B. When using your own cable and the conversion cable (EH-RS05) by Hitachi IES Co., Ltd.
- 1:1 Connection





- C. When using the online adapter (CA4-ADPONL-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, your own cable and the conversion cable (EH-RS05) by Hitachi IES Co., Ltd.
- 1:1 Connection





- D. When using the online adapter (CA4-ADPONL-01), your own cable and the conversion cable (EH-RS05) by Hitachi IES Co., Ltd.
- 1:1 Connection





Your own cable

- E. When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, your own cable and the conversion cable (EH-RS05) by Hitachi IES Co., Ltd.
- 1:1 Connection





- F. When using your own cable and the conversion cable (EH-RS05) by Hitachi IES Co., Ltd.
- 1:1 Connection





Cable Diagram 6

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (COM2) IPC ^{*2}	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: 500m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

*1 All GP models except AGP-3302B

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

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

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





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





Your own cable

Cable Diagram 7

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (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 ^{*2} (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: 500m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	
E Terminal block		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 GP models except GP-3200 series and AGP-3302B

*3 Only the COM port which can communicate by RS-422/485 (2 wire) can be used. ^{CP} ■ COM Port of IPC (page 8)

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





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





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





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

Terminal	D-Sub 9	pin (socket)	Objected	Exterr	nal Device
resistance	Pin	Signal name		Pin	Signal name
	1	DATA+		3	RD+
Ž	2	DATA-	\<u ++ }-→[4	RD-
Display	3	NC		1	SD+
	7	NC		2	SD-
	5	GND(SG)	\rightarrow	6	SG
	4	ERA		5	TERM
	8	CSA	۔ لے		
	9	ERB			
	6	CSB	←┘		
	Shell	FG			



Cable Diagram 8

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (COM2) IPC ^{*2}	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: 250m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

*1 All GP models except AGP-3302B

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

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

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





B.When your own cable is used





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





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





Your own cable

Cable Diagram 9

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (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 ^{*2} (COM2)	C Online adapter by Pro-face CA4-ADPONL-01 + C Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable D Online adapter by Pro-face CA4-ADPONL-01 +		Cable length: 250m or less
		Your own cable	
IPC*3	E	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 GP models except GP-3200 series and AGP-3302B

*3 Only the COM port which can communicate by RS-422/485 (2 wire) can be used.

^C ■ COM Port of IPC (page 8)

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





B.When your own cable is used

• 1:1 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



Your own ca

1:n 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





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

Terminal	D-Sub 9	oin (socket)		External Device D-Sub 15 pin (plug)		
resistance 120Ω (1/2W)	Pin	Signal name		Pin	Signal name	
	1	DATA+	╘┼──╱┤╋╲╼┝	11	RDP	
2	2	DATA-	┥┤ ┙╵╵┥ ┩┤ ┥→	10	RDN -	
Display	3	NC		13	SDP	
	7	NC		12	SDN	
	5	GND(SG)		7	SG	
	4	ERA		9	RT –	
	8	CSA	 ←	14	RSP	
	9	ERB		15	CSN	
	6	CSB				
	Shell	FG				



Cable Diagram 10

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (COM2) IPC ^{*2}	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: 500m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

*1 All GP models except AGP-3302B

*2 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. ^{CP}■ COM Port of IPC (page 8)

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

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



1:n Connection



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



• 1:n Connection



Your own cable
Cable Diagram 11

Display (Connection Port)		Cable	Remarks	
GP ^{*1} (COM1) AGP-3302B (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*2 (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: 500m or less	
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable		
IPC ^{*3}		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 GP models except GP-3200 series and AGP-3302B

*3 Only the COM port which can communicate by RS-422/485 (2 wire) can be used.

COM Port of IPC (page 8)

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





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



1:n 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





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





Cable Diagram 12

Display (Connection Port)	Cable	Remarks
GP (COM1) IPC ^{*1} PC/AT	Your own cable + Conversion cable by Hitachi IES Co., Ltd. EH-RS05(0.5m)	Cable length: 15m or less

*1 Only the COM port which can communicate by RS-232C can be used. ^{CP} ■ COM Port of IPC (page 8)

• When using the cable (EH-RS05) by Hitachi IES Co., Ltd.



Cable Diagram 13

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) A AGP-3302B (COM2) IPC ^{*2}		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: 500m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

*1 All GP models except AGP-3302B

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

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

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





NOTE • Please turn on the DIP Switch 1 to enable build-in resistance(100 Ω) on the remotest External Device side.

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

Terminal	Display D-Sub 9 pin (socket)		Shield	External Device RJ-45 conncetor		
resistance 100 Ω (1/2W)	Pin	Signal name		Pin	Signal name	
	1	RDA	\leftarrow	3	ТΧ	
₹_	2	RDB		5	TXN	
Display	3	SDA		7	RX	
	7	SDB		6	RXN	
	5	SG		1	SG	
	4	ERA				
	8	CSA	▲ ┘ │			
	9	ERB				
	6	CSB	<mark>↓</mark>			
	Shell	FG				

NOTE

Terminal	Dis D-Sub 9 إ	splay pin (socket)	Shield	Extern RJ-45	al Device conncetor	Shield	Externa RJ-45	al Device conncetor
resistance	Pin	Signal name		Pin	Signal name		Pin	Signal name
100 \$2(1/200)	1	RDA		3	TX	\leftarrow	3	ТХ
Ž	2	RDB		5	TXN		5	TXN
Display	3	SDA		7	RX		7	RX
	7	SDB	$ - -/ \setminus - \rightarrow$	6	RXN		6	RXN
	5	SG	$\vdash \backslash - \lor / -$	1	SG	$\rightarrow \rightarrow $	1	SG
	4	ERA						
	8	CSA	↓					
	9	ERB	\mathbf{H}					
	6	CSB	↓					
	Shell	FG						
			-					

• Please turn on the DIP Switch 1 to enable build-in resistance(100Ω) on the remotest External Device side.

- 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





NOTE • Please turn on the DIP Switch 1 to enable build-in resistance(100Ω) on the remotest External Device side.

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





NOTE • Please turn on the DIP Switch 1 to enable build-in resistance(100Ω) on the remotest External Device side.

Cable Diagram 14

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (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*2 (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: 500m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	
IPC*3	E	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 GP models except GP-3200 series and AGP-3302B

*3 Only the COM port which can communicate by RS-422/485 (2 wire) can be used. ☞ ■ COM Port of IPC (page 8)

- 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





• Please turn on the DIP Switch 1 to enable build-in resistance(100 Ω) on the remotest External Device side.

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





NOTE

• Please turn on the DIP Switch 1 to enable build-in resistance(100Ω) on the remotest External Device side.

- 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





• Please turn on the DIP Switch 1 to enable build-in resistance(100 Ω) on the remotest External Device side.

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





• Please turn on the DIP Switch 1 to enable build-in resistance(100 Ω) on the remotest External Device side.

- 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 • Please turn on the DIP Switch 1 to enable build-in resistance(100Ω) on the remotest External Device side.

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

Terminal	Di D-Sub 9	splay pin (socket)	Shield	External Device RJ-45 conncetor		
100 Ω (1/2W)	Pin	Signal name		Pin	Signal name	
	1	DATA+		3	ТΧ	
	2	DATA-	┥ ┤┤┤	5	TXN	
Display	3	NC	┆╵└┼→	7	RX	
	7	NC		6	RXN	
	5	GND(SG)	$\vdash \forall \dashv$	1	SG	
	4	ERA				
	8	CSA	┥			
	9	ERB				
	6	CSB	┥			
	Shell	FG				



NOTE

٠

Please turn on the DIP Switch 1 to enable build-in resistance(100Ω) on the remotest External Device side.

6 Supported Device

Range of supported device address is shown in the table below.

6.1 H/EH-150/MICRO-EH Series

This address can be specified as system data area.

Device	Bit Address	Word Address	Double Word Address	32 bits	Remarks
External Input	X00000-X05A95	WX0000- WX05A7	DX0000-DX05A6		*1 *2
External Output	Y00000-Y05A95	WY0000- WY05A7	DY0000-DY05A6		*2
Remote Input Relay	X10000-X49995	WX1000-WX4997	DX1000-DX4996		*1 *3
Remote Output Relay	Y10000-Y49995	WY1000-WY4997	DY1000-DY4996		*3
Internal Output	R000-R7BF	-	-		
Special Internal Output	R7C0-R7FF	-	-		
Data Area	M0000-M3FFF	WM000-WM3FF	DM000-DM3FE		
First CPU Link	L00000-L03FFF	WL0000-WL03FF	DL0000-DL03FE		
Second CPU Link	L10000-L13FFF	WL1000-WL13FF	DL1000-DL13FE		
On Delay Timer	TD0000 -TD1023	-	-		
Single-shot Timer	SS0000-SS1023	-	-		
Watchdog Timer	WDT0000- WDT1023	-	-	[L / H]	
Mono Stable Timer	MS0000-MS1023	-	-		
Retentive Timer	TMR0000- TMR1023	-	-		
Up Counter	CU0000-CU2047	-	-		
Ring Counter	RCU0000- RCU2047	-	-		
Up-down Counter	CT0000-CT2047	-	-		
Extended Timer	TM0000 - TM2047	-	-		
Timer Counter (Elapsed Value)	-	TC0000-TC2047	-		
Extended Timer (Elapsed Value)	-	TV0000 - TV2047	-		

continued to next page

Device	Bit Address	Word Address	Double Word Address	32 bits	Remarks
Word Internal Output	-	WR0000- WRC3FF	DR0000-DRC3FE		Bit
Special Word Internal Output	-	WRF000- WRF1FF	DRF000-DRF1FE	<u>[L / H</u>]	Bit
Network Link Area	-	WN0000- WN7FFF	DN0000-DN7FFE		Bit

*1 Write disable

*2 Specify as shown below.

(Example) External input unit No.1, Slot No.2, Internal Module Bit No.34



(Example) External input unit No.1, Slot No.2, Internal Module Word No.34



*3 Specify as shown below.

(Example) Remote External Input Remote Master No.1, Remote Slave No.2, Slot No.3, Internal Module Bit No.45



(Example) Remote External Input Remote Master No.1, Remote Slave No.2, Slot No.3, Internal Module Word No.4



NOTE

Available type and range of device vary depending on CPU. Be sure to check them in each CPU manual before using.

How to set address when using the CPU link

Set the check box of "Use CPU Link" to ON.

When using CPU Link, loop No. and unit No. are added to the address.

💣 Input Address (Wor	d)							×
Device/PLC PLC1							•	1
🔽 Using CPU Link	WR	_	•	000)	_	_	
Loop No. Unit No.		Ba	ick			C	lr	
1	А	В	С		7	8	9	
	D	Е	F		4	5	6	
					1	2	3	
					0	E	nt	

(Example) Loop No.1, Unit No.2



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"

6.2 Web Controller Series

This address can be specified as system data area.

Device	Bit Address	Word Address	Double Word Address	32 bit	Remarks
External Input	X0000-X0012 X1000-X1015 X2000-X2015 X3000-X3015 X4000-X4015	WX030-WX031 WX100-WX104 WX200-WX204 WX300-WX304 WX400-WX404	DX030 DX100-DX103 DX200-DX203 DX300-DX303 DX400-DX403		*1
External Output	Y0100-Y0109 Y1016-Y1031 Y2016-Y2031 Y3016-Y3031 Y4016-Y4031	WY40 WY105-WY107 WY205-WY207 WY305-WY307 WY405-WY407	DY105-DY106 DY205-DY206 DY305-DY306 DY405-DY406		
Internal Output	R000-R7BF	-	-		
Special Internal Output	R7C0-R7FF	-	-		
Data Area	M0000-M3FFF	WM000-WM3FF	DM000-DM3FE	rL/Hi	
On Delay Timer	TD000-TD255	-	-		*2
Single-shot Timer	SS000-SS255	-	-		*2
Up Counter	CU000-CU255	-	-		*2
Up-down Counter	CT000-CT255	-	-		*2*3
Timer Counter (Elapsed Value)	-	TC000-TC255	-		
Word Internal Output	-	WR0000- WRC3FF	DR0000-DRC3FE		*4 <u>(Bit</u> F)
Word Special Internal Output		WRF000- WRF1FF	DRF000-DRF1FE		Bit [

*1 Write disable

NOTE

*2 Each timer or counter needs to be defined on the ladder program.

*3 Both the Up-down counter Up input and Down input are defined by CT, however, the device names of the External Device are CTU, CTDrespectively.

To access CTU, define the corresponding address as CTU on the ladder program of the External Device. Similarly, to access CTD, define the corresponding address as CTD on the ladder program of the External Device.

*4 In case of EH-WD10DR, the address range is "WR0000-WR3FFF", "DR0000-DR3FFE".

• 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"

6.3 EHV Series

This address can be specified as system data area.

Device	Bit Address	Word Address	Double Word Address	32 bits	Remarks
External Input	X00000-X05A95	WX0000- WX05A7	DX0000-DX05A6		*1 *2
External Output	Y00000-Y05A95	WY0000- WY05A7	DY0000-DY05A6		*2
Remote Input Relay	X10000-X45A95	WX1000- WX45A7	DX1000-DX45A6		*1 *3
Remote Output Relay	Y10000-Y45A95	WY1000- WY45A7	DY1000-DY45A6		*3
Extension External Input	EX00000- EX5A7FF	WEX0000- WEX5A7F	DEX0000- DEX5A7E		*1
Extension External Output	EY00000- EY5A7FF	WEY0000- WEY5A7F	DEY0000- DEY5A7E		
Internal Output	R000-R7BF	-	-		
Special Internal Output	R7C0-RFFF	-	-		
Data Area	M00000-M7FFFF	WM0000- WM7FFF	DM0000- DM7FFE		
First CPU Link	L00000-L03FFF	WL0000-WL03FF	DL0000-DL03FE		
Second CPU Link	L10000-L13FFF	WL1000-WL13FF	DL1000-DL13FE		
Third CPU Link	L20000-L23FFF	WL2000-WL23FF	DL2000-DL23FE	[L / H]	
Fourth CPU Link	L30000-L33FFF	WL3000-WL33FF	DL3000-DL33FE		
Fifth CPU Link	L40000-L43FFF	WL4000-WL43FF	DL4000-DL43FE		
Sixth CPU Link	L50000-L53FFF	WL5000-WL53FF	DL5000-DL53FE		
Seventh CPU Link	L60000-L63FFF	WL6000-WL63FF	DL6000-DL63FE		
Eighth CPU Link	L70000-L73FFF	WL7000-WL73FF	DL7000-DL73FE		
On Delay Timer	TD0000-TD2559	-	-		
Off Delay Timer	TDN0000- TDN2559	-	-		
Single-shot Timer	SS0000-SS2559	-	-		
Watchdog Timer	WDT0000- WDT2559	-	-		
Mono Stable Timer	MS0000-MS2559	-	-		
Retentive Timer	TMR0000- TMR2559	-	-		
Up-down Counter	CT000-CT511	-	-		
Up Counter	CU000-CU511	-	-		

Device	Bit Address	Word Address	Double Word Address	32 bits	Remarks
Link Counter	RCU000-RCU511	-	-		
Timer Counter (Elapsed Value)	-	TC0000-TC2559	-		
Word Internal Output	WR00000- WREFFFF	WR0000- WREFFF	DR0000-DREFFE	[L / H]	
Special Word Internal Output	WRF000.0- WRFFFF.F	WRF000- WRFFFF	DRF000-DRFFFE		
Data Area	WN00000.0- WN1FFFF.F	WN00000- WN1FFFF	DN00000- DN1FFFE		

*1 Write disable

*2 Specify as shown below.

(Example) External input unit No.1, Slot No.2, Internal Module Bit No.34



(Example) External input unit No.1, Slot No.2, Internal Module Word No.3



*3 Specify as shown below.

(Example) Remote External Input Remote Master No.1, Remote Slave No.2, Slot No.3, Internal Module Bit No.45



(Example) Remote External Input Remote Master No.1, Remote Slave No.2, Slot No.3, Internal Module Word No.4



When using CPU Link

Set the check box of "Use CPU Link" to ON.

When using CPU Link, loop No. and unit No. are added to the address.

💰 Input Address (Wor	d)						>
Device/PLC PLC1							•
🔽 Using CPU Link	WB		•	000)		
Loop No. Unit No.		Ba	ack			C	Clr
1	Α	В	С		7	8	9
	D	Ε	F		4	5	6
					1	2	3
					0	E	nt

(Example) Loop No.1, Unit No.2



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.

7.1 H/EH-150/MICRO-EH Series

Device	Device Name	Device Code (HEX)	Address Code	
	Х	80	Word Address	
External Input	WX		Word Address	
	DX	20	Word Address	
	Y	01	Word Address	
External Output	WY	01	Word Address	
	DY	21	Word Address	
	М	87	Word Address	
Data Area	WM	62	Word Address	
	DM	22	Word Address	
	L	83	Word Address	
CPU Link	WL	65	Word Address	
	DL	23	Word Address	
Timer Counter (Elapsed Value)	TC	60	Word Address	
Extended Timer (Elapsed Value)	TV	61	Word Address	
Word Internal Quitnut	WR	00	Word Address	
	DR	24	Word Address	
Network Link Area	WN	01	Word Address	
INCLIVIT LINK ALCA	DN	25	Word Address	

7.2 Web Controller Series

Device	Device Name	Device Code (HEX)	Address Code
	Х	80	Word Address
External Input	WX	80	Word Address
	DX	20	Word Address
	Y	01	Word Address
External Output	WY	01	Word Address
	DY	21	Word Address
	М	87	Word Address
Data Area	WM	82	Word Address
	DM	22	Word Address
Timer Counter (Elapsed Value)	TC	60	Word Address
Word Internal Output	WR	00	Word Address
Word Special Internal Output	DR	24	Word Address

7.3 EHV Series

Device	Device Name	Device Code (HEX)	Address Code
	Х	80	Word Address
External Input	WX	80	Word Address
	DX	20	Word Address
	Y	91	Word Address
External Output	WY	01	Word Address
	DY	21	Word Address
	EX	84	Word Address
Extension External Input	WEX	04	Word Address
	DEX	26	Word Address
	EY	95	Word Address
Extension External Output	WEY	65	Word Address
	DEY	27	Word Address
	М	82	Word Address
Data Area	WM	02	Word Address
	DM	22	Word Address
	L	82	Word Address
CPU Link	WL	65	Word Address
	DL	23	Word Address
Word Internal Output	WR	00	Word Address
word internal Output	DR	24	Word Address
Data Area	WN	01	Word Address
Dala Alta	DN	25	Word Address
Timer Counter (Elapsed Value)	TC	60	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	Description
No.	Error No.
Device Name	Name of the External Device where error occurs. Device name is a title of the External Device set with GP-Pro EX.((Initial value[PLC1])
Error Message	Displays messages related to the error which occurs.
Error Occurrence Area	Displays IP address or device address of the External Device where error occurs, or error codes received from the External Device.
	 NOTE 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 "Hex[Hex]".

Display Examples of Error Messages

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

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

Driver-Specific Error Codes

Error codes are sent as separated 2 bytes codes The Display displays the error number using 1-byte code. Example:

Reply command	Return code	Error display
<u>01</u>	<u>07</u>	<u>01</u> 07
		† †

Error Code	Description
01, 05	The requested number of points is beyond the designated range.
01, 06	Designated device does not exist.
01, 07	Designated device address is beyond the range.

NOTE

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