RKC Instrument Inc.

Temperature Controller MODBUS SIO Driver

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Introduction

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

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



1 System Configuration

The system configuration in the case when the External Device of RKC Instrument Inc. and the Display are connected is shown.

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
СВ	CB1000000000000000000000000000000000000	Terminal block on the controller	RS422/ 485(2 wire)	Setting Example 1 (page 10)	Cable Diagram 3 (page 79)
	FB900-00-0*0001/00-0000 FB400-00-0*0001/00-0000	Terminal block on the controller	RS232C	Setting Example 2 (page 12)	Cable Diagram 6 (page 91)
	FB900-00-0*0004/00-0000 FB400-00-0*0004/00-0000	Terminal block on the controller	RS422/ 485(4 wire)	Setting Example 3 (page 14)	Cable Diagram 7 (page 92)
FB400/ FB900	FB900-00-0*000 FB900-00-0*000 FB900-00-0*000 FB900-00-0*000 FB400-00-0*000 FB400-00-0*000 FB400-00-0*000 FB400-00-0*000 FB400-00-0*000	Terminal block on the controller	RS422/ 485(2 wire)	Setting Example 4 (page 16)	Cable Diagram 3 (page 79)
	FB900-□□-□*□□□W/□□-□□□□	Terminal block on the controller	RS232C	Setting Example 2 (page 12)	Cable Diagram 6 (page 91)
	FB400-00-0*000W/00-0000	Terminal block on the controller	RS422/ 485(2 wire)	Setting Example 4 (page 16)	Cable Diagram 3 (page 79)
	HA900-DD-DD-D*DD-D06D-0/0/D HA900-DD-DD-D*DD-DD6D-0/0/D HA901-DD-DD-D*DD-D6D-0/0/D HA901-DD-DD-D*DD-D06D-0/0/D HA400-DD-DD-D*DD-D6D-0/0/D HA400-DD-DD-D*DD-D06D-0/0/D HA401-DD-DD-D*DD-D06D-0/0/D HA401-DD-DD-D*DD-D06D-0/0/D	Terminal block on the controller	RS422/ 485(2 wire)	Setting Example 5 (page 18)	Cable Diagram 3 (page 79)
HA400/ HA900	HA900-DD-DD-D*DD-D8D-D/0/D HA900-DD-DD-D*DD-D8D-D/0/D HA901-DD-DD-D*DD-08D-D/0/D HA901-DD-DD-D*DD-D8D-0/0 HA400-DD-DD-D*DD-D8D-0/0 HA400-DD-DD-D*DD-D8D/0/D HA401-DD-DD-D*DD-D88-D/0/D HA401-DD-DD-D*DD-D88-D/0/D	Terminal block on the controller	RS232C	Setting Example 6 (page 20)	Cable Diagram 6 (page 91)
	HA900-DD-DD-D*DD-DD07-D/D/D HA901-DD-DD-D*DD-DD07-D/D/D HA400-DD-DD-D*DD-DD07-D/D/D HA401-DD-DD-D*DD7-D/D/D	Terminal block on the controller	RS422/ 485(4 wire)	Setting Example 7 (page 22)	Cable Diagram 7 (page 92)

continued to next page

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
	MA900-4000-00-00-0*000-06/0	Terminal block on the controller	RS422/ 485(2 wire)	Setting Example 8 (page 24)	Cable Diagram 3 (page 79)
MA900	MA900-4000-00-0*000-07/0	Terminal block on the controller	RS422/ 485(4 wire)	Setting Example 9 (page 26)	Cable Diagram 7 (page 92)
	MA900-4□□□□-□-□*□□□-□8/□	Terminal block on the controller	RS232C	Setting Example 10 (page 28)	Cable Diagram 6 (page 91)
	MA901-8□□□□-□-□*□□□-□6/□	Terminal block on the controller	RS422/ 485(2 wire)	Setting Example 8 (page 24)	Cable Diagram 3 (page 79)
MA901	MA901-8000-00-0*000-07/0	Terminal block on the controller	RS422/ 485(4 wire)	Setting Example 9 (page 26)	Cable Diagram 7 (page 92)
	MA901-8000-00-0*000-08/0	Terminal block on the controller	RS232C	Setting Example 10 (page 28)	Cable Diagram 6 (page 91)
SRV	V-TIO-A-8888-88*888-88-88-88-88-88-88-88-88-88-	Terminal block on the controller	RS422/ 485(2 wire)	Setting Example 14 (page 36)	Cable Diagram 3 (page 79)
SRX	X-TIO-A-□□-□□*□□	Terminal block on the controller	RS422/ 485(2 wire)	Setting Example 14 (page 36)	Cable Diagram 3 (page 79)
SA100	SA1000000-00-0*00-60/00	Terminal block on the controller	RS422/ 485(2 wire)	Setting Example 16 (page 40)	Cable Diagram 3 (page 79)
SA200	SA2000000-00-0*00-60/0/00	Terminal block on the controller	RS422/ 485(2 wire)	Setting Example 16 (page 40)	Cable Diagram 3 (page 79)
SR Mini	H-PCP-A-□1N-□*□□Z-1021	Terminal block on the controller	RS232C	Setting Example 18 (page 44)	Cable Diagram 1 (page 75)
(H-PCP-A)	H-PCP-A-□4N-□*□□Z-1021	Terminal block on the controller	RS422/ 485(4 wire)	Setting Example 19 (page 46)	Cable Diagram 2 (page 76)

continued to next page

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
	H-PCP-J-□4□-D*□□	Connector on the controller	RS422/ 485(4 wire)	Setting Example 20 (page 48)	Cable Diagram 4 (page 83)
	H-PCP-J-□5□-D*□□	Connector on the controller	RS422/ 485(2 wire)	Setting Example 21 (page 51)	Cable Diagram 5 (page 86)
SR Mini HG (H-PCP-J)	H-PCP-J-□□1-D*□□	Connector on the controller	RS232C	Setting Example 22 (page 54)	Cable Diagram 1 (page 75)
	H-PCP-J-□□4-D*□□	Connector on the controller	RS422/ 485(4 wire)	Setting Example 20 (page 48)	Cable Diagram 8 (page 95)
	H-PCP-J-□□5-D*□□	Connector on the controller	RS422/ 485(2 wire)	Setting Example 21 (page 51)	Cable Diagram 9 (page 99)
SRZ (Z-TIO)	Z-TIO-AD-DDDD/DD-DDDD Z-TIO-BD-DD/DND-DDDD Z-TIO-CD-DDD/DD-DDDD Z-TIO-DD-DD/DND-DDDD	Terminal block on the controller	RS422/ 485(2 wire)	Setting Example 23 (page 56)	Cable Diagram 10 (page 106)
SRZ (Z-DIO)	Z-DIO-AD-00/0-000000 Z-DIO-AD-00/N	Terminal block on the controller	RS422/ 485(2 wire)	Setting Example 24 (page 58)	Cable Diagram 10 (page 106)
SRZ (Z-CT)	Z-CT-AD/D-DD Z-CT-AD/N	Terminal block on the controller	RS422/ 485(2 wire)	Setting Example 25 (page 60)	Cable Diagram 10 (page 106)
	Z-COM-A-4□/□□□□ Z-COM-A-4□N	COM.PORT1 or	RS422/ 485(4 wire)	Setting Example 26 (page 62)	Cable Diagram 11 (page 113)
SRZ	Z-COM-A-5□/□□□□ Z-COM-A-5□/N	on the controller	RS422/ 485(2 wire)	Setting Example 27 (page 64)	Cable Diagram 12 (page 118)
(Z-COM)	Z-COM-A-🗖4/🗆 🗖 🗖 Z-COM-A-🗖4/N	COM.PORT3 or	RS422/ 485(4 wire)	Setting Example 28 (page 66)	Cable Diagram 11 (page 113)
	Z-COM-A-D5/DDDD Z-COM-A-D5/N	on the controller	RS422/ 485(2 wire)	Setting Example 29 (page 68)	Cable Diagram 12 (page 118)

Connection Configuration

1:1 Connection



1:n Connection



• 1:n Connection (For the SRZ (Z-TIO), SRZ (Z-DIO), and SRZ (Z-CT) Series)



Maximum number of connections: 16 units

• 1:n Connection (For the SRZ (Z-COM) Series)



 $\ast 1$ Up to 16 Z-COM modules can be connected.

■ IPC COM Port

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

Usable port

Series	Usable Port			
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, PS3000-BA, PS3001-BD	COM1, COM2 ^{*1*2}	COM2 ^{*1*2}	COM2 ^{*1*2}	
PS-3650A, PS-3651A	COM1 ^{*1}	-	-	
PS-3700A (Pentium®4-M) PS-3710A	COM1 ^{*1} , COM2 ^{*1} , COM3 ^{*2} , COM4	COM3 ^{*2}	COM3 ^{*2}	
PS-3711A	COM1 ^{*1} , COM2 ^{*2}	COM2 ^{*2}	COM2 ^{*2}	
PL-3000B, PL-3600T, PL-3600K, PL-3700T, PL-3700K, PL-3900T	COM1 ^{*1*2} , COM2 ^{*1} , COM3, COM4	COM1 ^{*1*2}	COM1 ^{*1*2}	

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

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

DIP switch setting: RS-232C

DIP switch	Setting	Description	
1	OFF ^{*1}	Reserved (always OFF)	
2	OFF	SIO type: RS-232C	
3	OFF	510 type. R5-252C	
4	OFF	Output mode of SD (TXD) data: Always output	
5	OFF	Terminal resistance (220 Ω) insertion to SD (TXD): None	
6	OFF	Terminal resistance (220 Ω) insertion to RD (RXD): None	
7	OFF	Short-circuit of SDA (TXA) and RDA (RXA): Not available	
8	OFF	Short-circuit of SDB (TXB) and RDB (RXB): Not available	
9	OFF	- RS (RTS) Auto control mode: Disabled	
10	OFF		

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

DIP switch	Setting	Description	
1	OFF	Reserved (always OFF)	
2	ON	SIO type: RS-422/485	
3	ON	510 type. K5-422/465	
4	OFF	Output mode of SD (TXD) data: Always output	
5	OFF	Terminal resistance (220 Ω) insertion to SD (TXD): None	
6	OFF	Terminal resistance (220 Ω) insertion to RD (RXD): None	
7	OFF	Short-circuit of SDA (TXA) and RDA (RXA): Not available	
8	OFF	Short-circuit of SDB (TXB) and RDB (RXB): Not available	
9	OFF	RS (RTS) Auto control mode: Disabled	
10	OFF		

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

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

DIP switch	Setting	Description	
1	OFF	Reserved (always OFF)	
2	ON	SIO type: DS 422/485	
3	ON	510 type. K5-422/465	
4	OFF	Output mode of SD (TXD) data: Always output	
5	OFF	Terminal resistance (220 Ω) insertion to SD (TXD): None	
6	OFF	Terminal resistance (220 Ω) insertion to RD (RXD): None	
7	ON	Short-circuit of SDA (TXA) and RDA (RXA): Available	
8	ON	Short-circuit of SDB (TXB) and RDB (RXB): Available	
9	ON	- RS (RTS) Auto control mode: Enabled	
10	ON		

2 Selection of External Device

Select the External Device to be connected to the Display.

💰 New Proje	ct File						
Device/PL	Device/PLC						
Maker	RKC INSTRUMENT INC.						
Driver	Temp. Controller MODBUS SIO						
🔲 Use S	Bystem Area Refer to the manual of this Device/PLC						
- Connection Port	n Method						
	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 "RKC Instrument Inc.".	
Driver	Select a model (series) of the External Device to be connected and connection method. Select "Temperature Controller MODBUS SIO". Check the External Device which can be connected in "Temperature Controller MODBUS SIO" in system configuration.	
Use System Area	Cannot use in this driver.	
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/PLC1					
Summary	Change Device/PLC				
Maker RKC INSTRUMENT INC. Driver Temp. Controller MODBU	S SIO Port COM1				
Text Data Mode 1 Change					
Communication Settings					
SIO Type O RS232C 💿 RS422/485(2wire) O RS422/4	85(4wire)				
Speed 9600 💌					
Data Length O 7 💿 8					
Parity © NONE O EVEN O ODD					
Stop Bit					
Flow Control © NONE O ER(DTR/CTS) O XON/XOFF					
Timeout 3 💼 (sec)					
Retry 2					
Wait To Send 0 👘 (ms)					
RI/VCC © RI O VCC					
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.					
Device-Specific Settings					
Allowable No. of Device/PLCs 16 Unit(s) No. Device Name Settings 1 PLC1 Series=CB,Slave Address=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].

Individual Device	Settings	×
PLC1		
Series	CB	•
Please reconfirm all o are using if you have	of address settir changed the se	ngs that you eries.
Slave Address	1	•
		Default
	OK (<u>D)</u>	Cancel

Settings of External Device

Use the SET key, shift key, down key and up key on the front of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. While pressing down the SET key, press the shift key to move from the PV/SV display mode to the communication setting mode.
- 2. Press the SET key to select the parameter.
- 3. Press the down/up keys to change the setting.
- 4. While pressing down the SET key, press the shift key to move from the communication setting mode to the PV/SV display mode.
- 5. To confirm the setting, restart the Temperature Controller.

Setting Value

Add	1
bPS	2
bIT	0



3.2 Setting Example 2

Settings of GP-Pro EX

♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker RKC INSTR	UMENT INC.	Driver Temp. Controller MODBUS SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	• RS232C	O RS422/485(2wire) O RS422/485(4wire)
Speed	9600	
Data Length	07	• 8
Parity	NONE	O EVEN O ODD
Stop Bit	● 1	0 2
Flow Control	C NONE	O ER(DTR/CTS) O XON/XOFF
Timeout	3 🕂 (s	sec)
Retry	2 🕂	
Wait To Send	0 📫 (n	ns)
RI / VCC	• BI	O VCC
In the case of RS2 or VCC (5V Power Isolation Unit, pleas	32C, you can select Supply). If you use a select it to VCC.	t the 9th pin to RI (Input) the Digital's RS232C Default
Device-Specific Settings		
Allowable No. of Dev	ice/PLCs_16 Unit(s	s) 🔢
NO. DEVICE NA	me	Settings Settings Seties=FB400/900,Slave Address=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].

💰 Individual Device Setti	ings	×	
PLC1			
Series	FB400/9	00 💌	
Please reconfirm all of address settings that you are using if you have changed the series.			
Slave Address	1	•	
		Default	
OK	0	Cancel	

Settings of External Device

Use the SET key, shift key, down key and up key on the front of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. While pressing down the SET key, press and hold the shift key to move from the PV/SV display mode to the engineering mode.
- 2. Press the up key several times to specify F60, and press the SET key.
- 3. Set 1 for CMP1.
- 4. While pressing down the SET key, press the shift key to move from the engineering mode to the PV/SV display mode.
- 5. While pressing down the SET key, press the shift key to move from the PV/SV display mode to the setup setting mode.
- 6. Press the SET key several times to select the parameter.
- 7. Press the down/up keys to change the setting.
- While pressing down the SET key, press the shift key to move from the setup setting mode to the PV/SV display mode.
- 9. To confirm the setting, restart the Temperature Controller.

Setting Value

Add1	1
bPS1	9.6
bIT1	8n1

NOTE

3.3 Setting Example 3

Settings of GP-Pro EX

♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker RKC INSTRU	JMENT INC.	Driver Temp. Controller MODBUS SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	C RS232C	O RS422/485(2wire)
Speed	9600	
Data Length	○ 7	• 8
Parity	NONE	O EVEN O ODD
Stop Bit	● 1	0 2
Flow Control	O NONE	O ER(DTR/CTS) O XON/XOFF
Timeout	3 📫 (;	sec)
Retry	2	
Wait To Send	0 🕂 (r	ms)
RI / VCC	© BI	O VCC
In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	2C, you can selec Supply). If you use select it to VCC.	t the 9th pin to RI (Input) ∋ the Digital's RS232C Default
Device-Specific Settings		
Allowable No. of Devic	ce/PLCs_16 Unit(s)
No. Device Nan		Series=FB400/900,Slave Address=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].

💰 Individual Device Sett	ings	×	
PLC1			
Series	FB400/	300 💌	
Please reconfirm all of address settings that you are using if you have changed the series.			
Slave Address	1	•	
		Default	
10		Cancel	

Settings of External Device

Use the SET key, shift key, down key and up key on the front of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. While pressing down the SET key, press and hold the shift key to move from the PV/SV display mode to the engineering mode.
- 2. Press the up key several times to specify F60, and press the SET key.
- 3. Set 1 for CMP1.
- While pressing down the SET key, press the shift key to move from the engineering mode to the PV/SV display mode.
- 5. While pressing down the SET key, press the shift key to move from the PV/SV display mode to the setup setting mode.
- 6. Press the SET key several times to select the parameter.
- 7. Press the down/up keys to change the setting.
- While pressing down the SET key, press the shift key to move from the setup setting mode to the PV/SV display mode.
- 9. To confirm the setting, restart the Temperature Controller.
- Setting Value

Add1	1
bPS1	9.6
bIT1	8n1

NOTE

3.4 Setting Example 4

Settings of GP-Pro EX

♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker RKC INST	RUMENT INC.	Driver Temp. Controller MODBUS SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	C RS232C	RS422/485(2wire) RS422/485(4wire)
Speed	9600	
Data Length	07	• 8
Parity	NONE	O EVEN O ODD
Stop Bit	⊙ 1	O 2
Flow Control	NONE	O ER(DTR/CTS) O XON/XOFF
Timeout	3 📫 (sec)
Retry	2 📫	
Wait To Send	0 📫 (ms)
RI / VCC	🖲 BI	O VCC
In the case of RS or VCC (5V Pow Isolation Unit, ple	i232C, you can selec er Supply). If you use ase select it to VCC.	st the 9th pin to RI [Input] ∋ the Digital's RS232C Default
Device-Specific Setting	s	
Allowable No. of D	evice/PLCs 16 Unit/	(s) settings
I PLC1	ranc	Series=FB400/900,Slave Address=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].

💰 Individual Device	Settings	×	
PLC1			
Series	FB400/	900 💌	
Please reconfirm all of address settings that you are using if you have changed the series.			
Slave Address	1	•	
		Default	
	OK (<u>0)</u>	Cancel	

Settings of External Device

Use the SET key, shift key, down key and up key on the front of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. While pressing down the SET key, press and hold the shift key to move from the PV/SV display mode to the engineering mode.
- 2. Press the up key several times to specify F60, and press the SET key.
- 3. Set 1 for CMP1.
- While pressing down the SET key, press the shift key to move from the engineering mode to the PV/SV display mode.
- 5. While pressing down the SET key, press the shift key to move from the PV/SV display mode to the setup setting mode.
- 6. Press the SET key several times to select the parameter.
- 7. Press the down/up keys to change the setting.
- While pressing down the SET key, press the shift key to move from the setup setting mode to the PV/SV display mode.
- 9. To confirm the setting, restart the Temperature Controller.

Setting Value

0	
Add1	1
bPS1	9.6
bIT1	8n1

NOTE

3.5 Setting Example 5

- Settings of GP-Pro EX
- Communication Settings

Device/PLC 1						
Summary					<u>Change Dev</u>	ice/PLC
Maker 🛛	KC INSTRUMENT IN	IC. Drive	r Temp. Con	troller MODBUS SIO	Port COM1	
Text Data	Mode 1 Ch	ange				
Communication	Settinas					
SIO Type	C RS2	32C 💿 RS422/4	85(2wire)	C RS422/485(4wir	e)	
Speed	9600	•				
Data Leng	jth ⁰ .7	• 8				
Parity	NON	IE O EVEN	0.0	DDC		
Stop Bit	● 1	C 2				
Flow Cont	rol 💿 NON	ie O ER(DTR.	(CTS) O >	KON/XOFF		
Timeout	3	÷ (sec)				
Retry	2	÷				
Wait To S	end 0	• (ms)				
RI / VCC	© RI	O VCC				
In the ca	ase of RS232C, you o	an select the 9th pin to	RI (Input)			
Isolation	Unit, please select it	to VCC.	15232L	Defa	ault	
Device-Specifi	c Settings					
Allowable	No. of Device/PLCs	16 Unit(s) 📷				
No.	Device Name	Setting	s eries=HA400/91	0 Slave Address=1		
10		RIT I.				

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 Setti	ngs	×	
PLC1			
Series	HA400/900) 🔽	
Please reconfirm all of address settings that you are using if you have changed the series.			
Slave Address	1	* *	
		Default	
OK	0	Cancel	

Settings of External Device

Use the SET key, shift key, down key and up key on the front of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. While pressing down the SET key, press the shift key to move from the SV setting & monitor mode to the setup setting mode.
- 2. Press the SET key several times to select the parameter.
- 3. Press the down/up keys to change the setting.
- 4. While pressing down the SET key, press the shift key to move from the setup setting mode to the SV setting & monitor mode.
- 5. To confirm the setting, restart the Temperature Controller.

Setting Value

Add1	1
bPS1	9.6
bIT1	8n1



3.6 Setting Example 6

- Settings of GP-Pro EX
- Communication Settings

Device/PLC 1	
Summary	Change Device/PLC
Maker RKC INSTRUMENT INC. Driver Temp. Controller MODBUS SIO	Port COM1
Text Data Mode 1 Change	
Communication Settings	
SIO Type 💿 RS232C 💿 RS422/485(2wire) 💿 RS422/485(4wire	e)
Speed 9600 💌	
Data Length O 7 💿 8	
Parity	
Stop Bit 1 2	
Flow Control 💿 NONE 🔿 ER(DTR/CTS) 🔿 XON/XOFF	
Timeout 3 📑 (sec)	
Retry 2	
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.	ult
Device-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
No. Device Name Settings 1 PLC1 Image: Settings Series=HA400/900,Slave Address=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].

💰 Individual Device Settings 🛛 🗙				
PLC1				
Series	HA400/900 💌			
Please reconfirm all of address settings that you are using if you have changed the series.				
Slave Address	1 ÷			
	Default			
OK	(<u>0)</u> Cancel			

Settings of External Device

Use the SET key, shift key, down key and up key on the front of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. While pressing down the SET key, press the shift key to move from the SV setting & monitor mode to the setup setting mode.
- 2. Press the SET key several times to select the parameter.
- 3. Press the down/up keys to change the setting.
- 4. While pressing down the SET key, press the shift key to move from the setup setting mode to the SV setting & monitor mode.
- 5. To confirm the setting, restart the Temperature Controller.

Setting Value

Add1	1
bPS1	9.6
bIT1	8n1



3.7 Setting Example 7

Settings of GP-Pro EX

♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker RKC IN	STRUMENT INC.	Driver Temp. Controller MODBUS SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settin	ngs	
SIO Type	C RS232C	C RS422/485(2wire) C RS422/485(4wire)
Speed	9600	
Data Length	O 7	• 8
Parity	NONE	O EVEN O ODD
Stop Bit	• 1	O 2
Flow Control	NONE	O ER(DTR/CTS) O X0N/X0FF
Timeout	3 📫 (sec)
Retry	2 📫	
Wait To Send	0 🔅 (ms)
RI / VCC	💿 BI	O VCC
In the case of or VCC (5V P Isolation Unit,	RS232C, you can select ower Supply). If you use please select it to VCC.	et the 9th pin to RI (Input) ∋ the Digital's RS232C Default
Device-Specific Setti	ngs	
Allowable No. o	Device/PLCs 16 Unit) • Name	(s)
No. Devic	e Name	Settings Series=HA400/900,Slave Address=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].

💰 Individual Device Settings 🛛 🗙			
PLC1			
Series	HA400/3	900 💌	
Please reconfirm all are using if you hav	of address setting e changed the ser	gs that you ies.	
Slave Address	1	-	
		Default	
	OK (<u>0)</u>	Cancel	

Settings of External Device

Use the SET key, shift key, down key and up key on the front of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. While pressing down the SET key, press the shift key to move from the SV setting & monitor mode to the setup setting mode.
- 2. Press the SET key several times to select the parameter.
- 3. Press the down/up keys to change the setting.
- 4. While pressing down the SET key, press the shift key to move from the setup setting mode to the SV setting & monitor mode.
- 5. To confirm the setting, restart the Temperature Controller.

Setting Value

Add1	1
bPS1	9.6
bIT1	8n1



3.8 Setting Example 8

Settings of GP-Pro EX

♦ Communication Settings

Device/PL	21			
Summary				Change Device/PLC
Make	RKC INSTRU	IMENT INC.	Driver Temp. Controller MODBUS SIO Po	rt COM1
Text	Data Mode 🛛	1 <u>Change</u>		
Communic	ation Settings			
SIO 1	уре	O RS232C	RS422/485(2wire) RS422/485(4wire)	
Spee	d	9600	•	
Data	Length	O 7	• 8	
Parity	ı.	NONE	C EVEN C ODD	
Stop	Bit	● 1	O 2	
Flow	Control	O NONE	O ER(DTR/CTS) O XON/XOFF	
Time	out	3 📫 (sec)	
Retry		2 📫		
Wait	To Send	0 🔅 (ms)	
BLZ	/CC	© BI	O VCC	
In t or \ Isol	ne case of RS23 /CC (5V Power S ation Unit, please	2C, you can selec Supply). If you use e select it to VCC.	et the 9th pin to RI (Input) e the Digital's RS232C Default	
Device-Sp	ecific Settings			
Allow	able No. of Devic	ce/PLCs 16 Unit((8)	
š	1 PLC1	le	Series=MA900,Slave Address=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].

💰 Individual Device Settings 🛛 🛛 🗙				
PLC1				
Series	MA900	•		
Please reconfirm all of address settings that you are using if you have changed the series.				
Slave Address	1	* *		
		Default		
	OK (<u>0)</u>	Cancel		

Settings of External Device

Use the SET key, shift key, down key and up key on the front of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. While pressing down the SET key, press the <R/S key to move from the PV/SV monitor mode to the setup setting mode.
- 2. Press the SET key several times to select the parameter.
- 3. Press the down/up keys and the <R/S key to change the setting.
- 4. While pressing down the SET key, press the <R/S key to move from the setup setting mode to the PV/SV monitor mode.
- 5. To confirm the setting, restart the Temperature Controller.

Setting Value

Add	1
bPS	960
bIT	8n1



3.9 Setting Example 9

Settings of GP-Pro EX

♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker RKC INST	RUMENT INC.	Driver Temp. Controller MODBUS SIO Port COM1
Text Data Mode	1 Change	
Communication Settings		
SIO Type	O RS232C	C RS422/485(2wire) C RS422/485(4wire)
Speed	9600	
Data Length	07	© 8
Parity	NONE	O EVEN O ODD
Stop Bit	⊙ 1	◎ 2
Flow Control	NONE	C ER(DTR/CTS) C XON/XOFF
Timeout	3 📫	(sec)
Retry	2 📫	
Wait To Send	0 🕂 ((ms)
RI / VCC	🖲 BI	C VCC
In the case of RS or VCC (5V Powe Isolation Unit, ple	232C, you can selea ar Supply). If you usa ase select it to VCC.	ct the 9th pin to RI (Input) e the Digital's RS232C Default
Device-Specific Settings		
Allowable No. of De	evice/PLCs_16 Unit Jame	(s) time
I PLC1	dino	Series=MA900,Slave Address=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].

💰 Individual Device Settings 🛛 🗙 🗙				
PLC1				
Series	MA900	•		
Please reconfirm all of address settings that you are using if you have changed the series.				
Slave Address	1			
		Default		
	OK (<u>0)</u>	Cancel		

Settings of External Device

Use the SET key, shift key, down key and up key on the front of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. While pressing down the SET key, press the <R/S key to move from the PV/SV monitor mode to the setup setting mode.
- 2. Press the SET key several times to select the parameter.
- 3. Press the down/up keys and the $\langle R/S$ key to change the setting.
- 4. While pressing down the SET key, press the <R/S key to move from the setup setting mode to the PV/SV monitor mode.
- 5. To confirm the setting, restart the Temperature Controller.

Setting Value

Add	1
bPS	960
bIT	8n1



3.10 Setting Example 10

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1			
Summary			Change Device/PLC
Maker RKC INST	RUMENT INC.	Driver Temp. Controller MODBUS SIO	Port COM1
Text Data Mode	1 <u>Change</u>		
Communication Settings			
SIO Type	RS232C	C RS422/485(2wire) C RS422/485(4wire)	
Speed	9600		
Data Length	07	• 8	
Parity	NONE	O EVEN O ODD	
Stop Bit	● 1	O 2	
Flow Control	NONE	C ER(DTR/CTS) C XON/XOFF	
Timeout	3 📫	(sec)	
Retry	2 📫		
Wait To Send	0 +	(ms)	
RI / VCC	I BI	O VCC	
In the case of RS or VCC (5V Powe Isolation Unit, plea	232C, you can sele r 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 No. Device N	evice/PLCs 16 Uni	t(s)	
I PLC1	anc	Series=MA900,Slave Address=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].

💰 Individual Device Settings 🛛 🗙		
PLC1		
Series	MA900	•
Please reconfirm all are using if you hav	l of address setting e changed the seri	is that you ies.
Slave Address	1	* *
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device

Use the SET key, shift key, down key and up key on the front of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. While pressing down the SET key, press the <R/S key to move from the PV/SV monitor mode to the setup setting mode.
- 2. Press the SET key several times to select the parameter.
- 3. Press the down/up keys and the <R/S key to change the setting.
- 4. While pressing down the SET key, press the <R/S key to move from the setup setting mode to the PV/SV monitor mode.
- 5. To confirm the setting, restart the Temperature Controller.

Setting Value

Add	1
bPS	960
bIT	8n1



3.11 Setting Example 11

- Settings of GP-Pro EX
- ♦ Communication Settings

Device.	/PLC 1		
Summ	ary		Change Device/PLC
M	laker RKCINSTRU	JMENT INC.	Driver Temp. Controller MODBUS SIO Port COM1
т	ext Data Mode	1 <u>Change</u>	
Comm	unication Settings		
S	ilO Type	C RS232C	RS422/485(2wire) RS422/485(4wire)
S	ipeed	9600	
D)ata Length	O 7	• 8
F	Parity	NONE	C EVEN C ODD
S	itop Bit	• 1	0 2
F	low Control	ONONE	O ER(DTR/CTS) O XON/XOFF
Т	imeout	3 📑 (;	sec)
F	letry	2 📫	
V	Vait To Send	0 📫 ()	ns)
F	N / VCC	👁 BI	O VCC
	In the case of RS23 or VCC (5V Power 1 Isolation Unit, pleas	32C, you can selec Supply). If you use e select it to VCC.	t the 9th pin to RI (Input) the Digital's RS232C Default
Device	e-Specific Settings		
A	No. Of Devi No. Device No.	ice/PLCs 16 Unit(me	s) Luis Settings
	1 PLC1	no	Series=MA901,Slave Address=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].

💰 Individual Device Settings 🛛 🗙 🗙		
PLC1		
Series	MA901	•
Please reconfirm al are using if you hav	I of address setting ve changed the seri	is that you es.
Slave Address	1	* *
		Default
[OK (<u>0)</u>	Cancel

Settings of External Device

Use the SET key, shift key, down key and up key on the front of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. While pressing down the SET key, press the <R/S key to move from the PV/SV monitor mode to the setup setting mode.
- 2. Press the SET key several times to select the parameter.
- 3. Press the down/up keys and the <R/S key to change the setting.
- 4. While pressing down the SET key, press the <R/S key to move from the setup setting mode to the PV/SV monitor mode.
- 5. To confirm the setting, restart the Temperature Controller.

Setting Value

Add	1
bPS	960
bIT	8n1



3.12 Setting Example 12

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PL(21		
Summary			Change Device/PLC
Make	RKC INSTRU	JMENT INC.	Driver Temp. Controller MODBUS SIO Port COM1
Text	Data Mode 🛛	1 <u>Change</u>	
Communic	ation Settings		
SIO 1	Гуре	C RS232C	O RS422/485(2wire)
Spee	d	9600	
Data	Length	O 7	• 8
Parity	J	NONE	C EVEN C ODD
Stop	Bit	● 1	© 2
Flow	Control	O NONE	O ER(DTR/CTS) O XON/XOFF
Time	out	3 🕂 ((sec)
Retry	i i i i i i i i i i i i i i i i i i i	2	
Wait	To Send	0 🔅 ((ms)
BLZA	/CC	© BI	O VCC
In ti or \ Isol	he case of RS23 /CC (5V Power S ation Unit, please	2C, you can selec Supply). If you use e select it to VCC.	ect the 9th pin to RI (Input) se the Digital's RS232C Default
Device-Sp	ecific Settings		
Allow	able No. of Devic	ce/PLCs_16 Unit	it(s)
ň	1 PLC1		Series=MA901,Slave Address=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].

💰 Individual Device Settings 🛛 🗙 🗙		
PLC1		
Series	MA901	•
Please reconfirm al are using if you hav	I of address setting ve changed the seri	is that you es.
Slave Address	1	*
		Default
[OK (<u>0)</u>	Cancel

Settings of External Device

Use the SET key, shift key, down key and up key on the front of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. While pressing down the SET key, press the <R/S key to move from the PV/SV monitor mode to the setup setting mode.
- 2. Press the SET key several times to select the parameter.
- 3. Press the down/up keys and the <R/S key to change the setting.
- 4. While pressing down the SET key, press the <R/S key to move from the setup setting mode to the PV/SV monitor mode.
- 5. To confirm the setting, restart the Temperature Controller.

Setting Value

Add	1
bPS	960
bIT	8n1



3.13 Setting Example 13

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1	
Summary Change Device/PLC	
Maker RKC INSTRUMENT INC. Driver Temp. Controller MODBUS SIO Port COM1	
Text Data Mode 1 Change	
Communication Settings	
SIO Type 💿 RS232C 🔿 RS422/485(2wire) 🔿 RS422/485(4wire)	
Speed 9600	
Data Length O 7 💿 8	
Parity © NONE © EVEN © ODD	
Stop Bit 💿 1 💿 2	
Flow Control 💿 NONE 🔿 ER(DTR/CTS) 🔿 XON/XOFF	
Timeout 3 😑 (sec)	
Retry 2 🕂	
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.	
Device-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
1 PLC1 Image: Series=MA901,Slave Address=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].

💰 Individual Device Settir	ngs 🛛 🗙
PLC1	
Series	MA901
Please reconfirm all of add are using if you have chang	ress settings that you ged the series.
Slave Address	1
	Default
OK	(D) Cancel

Settings of External Device

Use the SET key, shift key, down key and up key on the front of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. While pressing down the SET key, press the <R/S key to move from the PV/SV monitor mode to the setup setting mode.
- 2. Press the SET key several times to select the parameter.
- 3. Press the down/up keys and the <R/S key to change the setting.
- 4. While pressing down the SET key, press the <R/S key to move from the setup setting mode to the PV/SV monitor mode.
- 5. To confirm the setting, restart the Temperature Controller.

Setting Value

Add	1
bPS	960
bIT	8n1



3.14 Setting Example 14

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker RKC INSTRU	IMENT INC.	Driver Temp. Controller MODBUS SIO Port COM1
Text Data Mode	1 Change	
Communication Settings		
SIO Type	C RS232C	RS422/485(2wire) RS422/485(4wire)
Speed	9600	
Data Length	0.7	• 8
Parity	NONE	O EVEN O ODD
Stop Bit	● 1	© 2
Flow Control	O NONE	O ER(DTR/CTS) O XON/XOFF
Timeout	3 📫 (s	sec)
Retry	2 🔹	
Wait To Send	0 📫 (r	ms)
RI / VCC	© BI	O VCC
In the case of RS232C, you can select the 9th pin to RI (Input)		
Isolation Unit, please select it to VCC. Default		
Device-Specific Settings		
Allowable No. of Device/PLCs 16 Unit(s)		
No. Device Name Settings 1 PLC1 Series=SBV Slave Address=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].

💰 Individual Device Settings 🛛 🛛 🔀			
PLC1			
Series	SRV	•	
Please reconfirm all of address settings that you are using if you have changed the series.			
Slave Address	1	÷	
		Default	
[OK (<u>0</u>)	Cancel	

Settings of External Device

Use the address setting switch on the front of the Temperature Controller and the DIP switch inside the Temperature Controller for communication settings of the External Device. Please refer to the manual of the Temperature Controller for more details.

Procedure

1. Use the address setting switch on the front of the Temperature Controller to set the module address for HOST link.

The number added 1 to the set value becomes the module address.

2. Use the DIP switch inside the Temperature Controller to set the speed and the data bit configuration.

Setting Value

Address setting switch

High digit setting	0
Low digit setting	0

DIP Switch

DIP Switch	Settings	Description
1	ON	Speed
2	OFF	Speed
3	ON	
4	OFF	Data bit configuration
5	OFF	
6	ON	Protocol selection
7	OFF	Fixed
8	OFF	i ixed

NOTE

3.15 Setting Example 15

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker RKCINSTR	UMENT INC.	Driver Temp. Controller MODBUS SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	C RS232C	• RS422/485(2wire)
Speed	9600	
Data Length	0.7	• 8
Parity	NONE	O EVEN O ODD
Stop Bit	⊙ 1	O 2
Flow Control	⑦ NONE	O ER(DTR/CTS) O X0N/X0FF
Timeout	3 📫 ((sec)
Retry	2 🔹	
Wait To Send	0 📫 ((ms)
RI / VCC	© BI	C VCC
In the case of RS2	32C, you can selec	ct the 9th pin to RI (Input)
Isolation Unit, plea:	se select it to VCC.	Default
Device-Specific Settings		
Allowable No. of Dev	rice/PLCs 16 Unit	(s) 📷
No. Device Na	me	Settings Series=SBX Slave Address=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].

💰 Individual Device Settings 🛛 🛛 🔀			
PLC1			
Series	SRX	•	
Please reconfirm all of address settings that you are using if you have changed the series.			
Slave Address	1	•	
		Default	
OK	0	Cancel	

Settings of External Device

Use the address setting switch on the front of the Temperature Controller and the DIP switch inside the Temperature Controller for communication settings of the External Device. Please refer to the manual of the Temperature Controller for more details.

Procedure

1. Use the address setting switch on the front of the Temperature Controller to set the module address for HOST link.

The number added 1 to the set value becomes the module address.

2. Use the DIP switch inside the Temperature Controller to set the speed and the data bit configuration.

Setting Value

Address setting switch

High digit setting	0
Low digit setting	0

DIP Switch

DIP Switch	Settings	Description	
1	ON	Speed	
2	OFF	Speed	
3	ON		
4	OFF	Data bit configuration	
5	OFF		
6	ON	Protocol selection	
7	OFF	Fixed	
8	OFF	Internal data bus Terminal resistance setting	

NOTE

3.16 Setting Example 16

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker RKC INSTRUME	ENT INC.	Driver Temp. Controller MODBUS SIO Port COM1
Text Data Mode 1	 <u>Change</u>	
Communication Settings		
SIO Type C	RS232C @	BS422/485(2wire) OBS422/485(4wire)
Speed 9	600	
Data Length C	7 @	8
- Parity •	NONE C	EVEN O ODD
Stop Bit 📀	1 (2
Flow Control	NONE C) ER(DTR/CTS) O XON/XOFF
Timeout 3	÷ (sec)
Retry 2		
Wait To Send 0		
BL/VCC @	BI	
In the case of RS232C,	. you can select th	e 9th pin to RI (Input)
or VCC (5V Power Sup Isolation Unit, please se	ply). If you use th dect it to VCC.	e Digital's RS232C Default
Device-Specific Settings		
Allowable No. of Device/	PLCs 16 Unit(s)	and the second se
No. Device Name		Settings
		Series=SATUU,Slave Address=T

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	SA100	•	
Please reconfirm all of address settings that you are using if you have changed the series.			
Slave Address	1	-	
		Default	
OK	.(0)	Cancel	

Settings of External Device

Use the SET key, shift key, down key and up key on the front of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. While pressing down the SET key, press the shift key to move from the PV/SV display mode to the communication setting mode.
- 2. Press the SET key to select the parameter.
- 3. Press the down/up keys to change the setting.
- 4. While pressing down the SET key, press the shift key to move from the communication setting mode to the PV/SV display mode.
- 5. To confirm the setting, restart the Temperature Controller.

Setting Value

Add	1
bPS	960
bIT	8n1



3.17 Setting Example 17

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC	1		
Summary			Change Device/PLC
Maker	RKC INSTRUM	IENT INC.	Driver Temp. Controller MODBUS SIO Port COM1
Text D	ata Mode 🔲 1	l <u>Change</u>	
Communical	tion Settings		
SIO Ty	pe 🤇	C RS232C	RS422/485(2wire) RS422/485(4wire)
Speed	[9600	
Data L	ength 🤇	7	© 8
Parity	(NONE	C EVEN C ODD
Stop B	it 🤇	• 1	© 2
Flow C	ontrol 🤇	INONE	C ER(DTR/CTS) C XON/XOFF
Timeou	ut 🖡	3 📑 (:	(sec)
Retry	ļ.	2 📑	
Wait T	o Send 🛛	1) ; (1	(ms)
RL/V0	cc (🖲 RI	C VCC
In the or VC Isolat	e case of RS2320 CC (5V Power Suj ion Unit, please s	C, you can selec pply). If you use select it to VCC.	ct the 9th pin to RI (Input) e the Digital's RS232C . Default
Device-Spe	cific Settings		
Allowal	ble No. of Device	/PLCs 16 Unit(
X	1 PLC1		Securgs Series=SA200,Slave Address=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].

💰 Individual Device Settings 🛛 🗙			
PLC1			
Series	SA200	•	
Please reconfirm all of address settings that you are using if you have changed the series.			
Slave Address	1	•	
		Default	
OK	0	Cancel	

Settings of External Device

Use the SET key, shift key, down key and up key on the front of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. While pressing down the SET key, press the shift key to move from the PV/SV display mode to the communication setting mode.
- 2. Press the SET key to select the parameter.
- 3. Press the down/up keys to change the setting.
- 4. While pressing down the SET key, press the shift key to move from the communication setting mode to the PV/SV display mode.
- 5. To confirm the setting, restart the Temperature Controller.

Setting Value

Add	1
bPS	960
bIT	8n1



3.18 Setting Example 18

- Settings of GP-Pro EX
- ♦ Communication Settings

Device	PLC 1			
Summ	nary		Change Device/PLC	
ł	Maker RKC INSTRU	JMENT INC.	Driver Temp. Controller MODBUS SIO Port COM1	
-	Text Data Mode	1 <u>Change</u>		
Comr	nunication Settings			
9	SIO Type	RS232C	O RS422/485(2wire) O RS422/485(4wire)	
9	Speed	9600		
[Data Length	C 7	• 8	
F	Parity	NONE	O EVEN O ODD	
9	Stop Bit	● 1	0 2	
F	Flow Control	O NONE	O ER(DTR/CTS) O XON/XOFF	
-	Timeout	3 📑 (sec)	
F	Retry	2 📫		
١	Wait To Send	0 📑 (ms)	
F	RI / VCC	• BI	© VCC	
	In the case of RS23	32C, you can selec	t the 9th pin to RI (Input)	
	Isolation Unit, pleas	e select it to VCC.	Default	
Devic	Device-Specific Settings			
1	Allowable No. of Devi	ice/PLCs 16 Unit	s) 🔢	
Г	No. Device Nar	ne	Settings Seties=SRMiniHG(H-PCP-A),Slave Address=1	
L	••• ·			

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 Settir	nes 🔀	
PLC1		
Series	SRMiniHG(H-PCP-A)	
Please reconfirm all of address settings that you are using if you have changed the series.		
Slave Address	1 🔅	
	Default	
OK	(<u>0)</u> Cancel	

Settings of External Device

Use the slave address setting switch on the front of the Temperature Controller and the DIP switch inside the Temperature Controller for communication settings of the External Device. Please refer to the manual of the Temperature Controller for more details.

Procedure

1. Use the slave address setting switch on the front of the Temperature Controller to set the slave address for HOST link.

The number added 1 to the set value becomes the slave address.

2. Remove the Temperature Controller from the mother block, and use the DIP switch inside the Temperature Controller to set the speed and the data configuration.

Setting Value

Slave address setting switch

High digit setting	0
Low digit setting	0

DIP Switch

DIP Switch	Settings	Description
1	ON	Data configuration
2	ON	Data configuration
3	ON	Speed
4	OFF	Speed



3.19 Setting Example 19

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1			
Summary Change Device/PLC			
Maker RKC INSTRUMENT INC. Driver Temp. Controller MODBUS SIO Port COM1			
Text Data Mode 1 Change			
Communication Settings			
SID Type C RS232C C RS422/485(2wire) C RS422/485(4wire)			
Speed 9600 💌			
Data Length 🔘 7 💿 8			
Parity			
Stop Bit 1 2			
Flow Control 💿 NONE 🔿 ER(DTR/CTS) O XON/XOFF			
Timeout 3 👘 (sec)			
Retry 2			
Wait To Send 0 (ms)			
RI / VCC © RI O VCC			
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.			
Device-Specific Settings			
Allowable No. of Device/PLCs 16 Unit(s)			
I PLC1 Series=SRMiniHG(H-PCP-A),Slave Address=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].

💰 Individual Device Settir	ngs	×
PLC1		
Series	SRMiniHG((H-PCP-A)
Please reconfirm all of address settings that you are using if you have changed the series.		
Slave Address	1	-
		Default
OK	0	Cancel

Settings of External Device

Use the slave address setting switch on the front of the Temperature Controller and the DIP switch inside the Temperature Controller for communication settings of the External Device. Please refer to the manual of the Temperature Controller for more details.

Procedure

1. Use the slave address setting switch on the front of the Temperature Controller to set the slave address for HOST link.

The number added 1 to the set value becomes the slave address.

2. Remove the Temperature Controller from the mother block, and use the DIP switch inside the Temperature Controller to set the speed and the data configuration.

Setting Value

Slave address setting switch

High digit setting	0
Low digit setting	0

DIP Switch

DIP Switch	Settings	Description	
1	ON	Data configuration	
2	ON	Data configuration	
3	ON	Speed	
4	OFF	Speed	

NOTE

3.20 Setting Example 20

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1	
Summary Change Device/PLC	
Maker RKC INSTRUMENT INC. Driver Temp. Controller MODBUS SIO Port COM1	
Text Data Mode 1 Change	
Communication Settings	
SID Type O RS232C O RS422/485(2wire) O RS422/485(4wire)	
Speed 9600 💌	
Data Length O 7 O 8	
Parity © NONE © EVEN © ODD	
Stop Bit 💿 1 💿 2	
Flow Control © NONE C ER(DTR/CTS) C XON/XOFF	
Timeout 3 📑 (sec)	
Retry 2	
Wait To Send 0 📑 (ms)	
In the case of RS232C, you can select the 9th pin to RI (Input)	
Isolation Unit, please select it to VCC. Default	
Device-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
No. Device Name Settings No. Device Name Settings 1 PLC1 Series=SBMiniHG(H-PCPs,I) Slave Address=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].

💰 Individual Device Settir	ngs 🔀	
PLC1		
Series	SRMiniHG(H-PCPJ)	
Please reconfirm all of address settings that you are using if you have changed the series.		
Slave Address	1	
	Default	
OK	(<u>0</u>) Cancel	

Settings of External Device

Use the unit address setting switch on the front of the Temperature Controller and the DIP switch on the side of the Temperature Controller for communication settings of the External Device. Please refer to the manual of the Temperature Controller for more details.

Procedure

1. Use the unit address setting switch on the front of the Temperature Controller to set the module address for HOST link.

The number added 1 to the set value becomes the unit address.

2. Use the DIP switch on the side of the Temperature Controller to set the speed and the data configuration.

Setting Value

Unit address setting switch

High digit setting	0
Low digit setting	0

DIP Switch

COM.PORT1/COM.PORT2 setting switch

SW2	Settings	Description	
1	OFF	Data bit configuration	
2	OFF	Data on configuration	
3	OFF	Speed	
4	OFF	- Speed	
5	ON		
6	OFF	Communication Protocol	
7	OFF		
8	OFF		

COM.PORT3 setting switch

SW3	Settings	Description	
1	OFF	Data hit configuration	
2	OFF	Data on configuration	
3	OFF	Speed	
4	OFF	Speed	
5	ON	Communication Protocol	
6	OFF	Initialization	
7	OFF	MODBUS mode selection	
8	OFF	Fixed	

NOTE

3.21 Setting Example 21

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1			
Summary		<u>Chan</u>	<u>ge Device/PLC</u>
Maker RKC INSTR	UMENT INC.	Driver Temp. Controller MODBUS SIO Port	DM1
Text Data Mode	1 <u>Change</u>		
Communication Settings			
SIO Type	O RS232C	• RS422/485(2wire)	
Speed	9600	•	
Data Length	0.7	• 8	
Parity	• NONE	O 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)	
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.	ect the 9th pin to RI (Input) se the Digital's RS232C ~ Default	
Device-Specific Settings			
Allowable No. of Dev	ice/PLCs 16 Unit	it(s)	
1 PLC1		Series=SRMiniHG(H-PCPJ),Slave Address=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].

💰 Individual Device Settings 🛛 🗙		
PLC1		
Series	SRMiniHG(H-PCPJ)	
Please reconfirm all of address settings that you are using if you have changed the series.		
Slave Address	1	
	Default	
OK	(D) Cancel	

Settings of External Device

Use the unit address setting switch on the front of the Temperature Controller and the DIP switch on the side of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

1. Use the unit address setting switch on the front of the Temperature Controller to set the module address for HOST link.

The number added 1 to the set value becomes the unit address.

2. Use the DIP switch on the side of the Temperature Controller to set the speed and the data configuration.

Setting Value

Unit address setting switch

High digit setting	0
Low digit setting	0

DIP Switch

COM.PORT1/COM.PORT2setting switch

SW2	Settings	Description	
1	OFF	Data hit configuration	
2	OFF	Data on configuration	
3	OFF	Speed	
4	OFF	- Speed	
5	ON		
6	OFF	Communication	
7	OFF	Protocol	
8	OFF		

 COM.PORT3 setting switch 		
SW3	Settings	Description
1	OFF	Data bit configuration
2	OFF	Data on configuration
3	OFF	Speed
4	OFF	Speed
5	ON	Communication Protocol
6	OFF	Initialization
7	OFF	MODBUS mode selection
8	OFF	Fixed

NOTE

3.22 Setting Example 22

- Settings of GP-Pro EX
- ♦ Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker RKC INS	TRUMENT INC.	Driver Temp. Controller MODBUS SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Setting	s	
SIO Type	RS232C	C RS422/485(2wire) C RS422/485(4wire)
Speed	9600	
Data Length	0.7	• 8
Parity	NONE	C EVEN O ODD
Stop Bit	• 1	C 2
Flow Control	NONE	O ER(DTR/CTS) O XON/XOFF
Timeout	3 📫	(sec)
Retry	2 📫	
Wait To Send	0 📫	(ms)
RI / VCC	• BI	C VCC
In the case of F	S232C, you can sele	et the 9th pin to RI (Input)
Isolation Unit, p	lease select it to VCC	Default
Device-Specific Setting	js	
Allowable No. of [Device/PLCs 16 Uni	t(s) 📷
No. Device	Name	Settings Series=SRMiniHG(H-PCP-J).Slave Address=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].

💰 Individual Device Settii	ngs 🔀
PLC1	
Series	SRMiniHG(H-PCP-J)
Please reconfirm all of add are using if you have chang	lress settings that you ged the series.
Slave Address	1 📫
	Default
OK	(D) Cancel

Settings of External Device

Use the unit address setting switch on the front of the Temperature Controller and the DIP switch on the side of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

1. Use the unit address setting switch on the front of the Temperature Controller to set the module address for HOST link.

The number added 1 to the set value becomes the unit address.

2. Use the DIP switch on the side of the Temperature Controller to set the speed and the data configuration.

Setting Value

Unit	address	setting	switch
------	---------	---------	--------

High digit setting	0
Low digit setting	0

DIP Switch

COM.PORT3 setting switch

SW3	Settings	Description	
1	OFF	Data bit configuration	
2	OFF	Data on configuration	
3	OFF	Speed	
4	OFF	Speed	
5	ON	Communication	
5	ON	Protocol	
6	OFF	Initialization	
7	OFF	MODBUS mode	
7	011	selection	
8	OFF	Fixed	

NOTE

3.23 Setting Example 23

- Settings of GP-Pro EX
- Communication Settings

Device/PLC 1	
Summary	Change Device/PLC
Maker RKC	STRUMENT INC. Series Temp. Controller MODBUS SID Port COM1
Text Data Mode	1 Change
Communication Setting	
SIO Type	C RS232C © RS422/485(2wire) © RS422/485(4wire)
Speed	19200
Data Length	C 7 C 8
Parity	NONE O EVEN O ODD
Stop Bit	
Flow Control	NONE C ER(DTR/CTS) C XON/XOFF
Timeout	3 : (sec)
Retry	2 📫
Wait To Send	0 (ms)
RI / VCC	© RI C VCC
In the case of F or VCC (5V Por Isolation Unit, p	232C, you can select the 9th pin to RI (Input) ar Supply). If you use the Digital's RS232C ase select it to VCC.
Device-Specific Settin	
Allowable Numbe	of Devices/PLCs 16
Number Devic	Name Settings Series=SRZIZ-TI0],Slave Address=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].

💰 Individual Device Settings 🛛 🛛 🔀		
PLC1		
Series	SRZ(Z-TIO	I) –
If you change the series, please reconfirm all address settings.		
Slave Address	1	•
		Default
OK (<u>0)</u>	Cancel

Settings of External Device

Use the unit address setting switch on the front of the Temperature Controller and the DIP switch on the side of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- Use the unit address setting switch on the front of the Temperature Controller to set the slave address. The number added 1 to the set value becomes the slave address.
- 2. Use the DIP switch on the side of the Temperature Controller to set the speed, data bit configuration, and communication protocol.
- 3. After completing the settings, turn ON the Temperature Controller again.

Setting Value

Unit address setting switch		
Slave address setting	0	

DIP Switch

SW	Settings	Description
1	OFF	Sneed: 19200 bps
2	ON	Speed. 19200 0p3
3	OFF	Data hit configuration:
4	OFF	Data length 8 bits no parity stop 1 bit
5	ON	Dua lenga o ons, no pany, stop i on
6	ON	Communication protocol: MODBUS communication
7	OFF	Fixed
8	OFF	Fixed

NOTE

3.24 Setting Example 24

- Settings of GP-Pro EX
- Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker	RKC INSTRUMENT INC.	Series Temp. Controller MODBUS SIO Port COM1
Text Data M	iode 1 <u>Change</u>	
Communication 9	ettings	
SIO Type	C RS232C	RS422/485(2wire)
Speed	19200	•
Data Lengt	n 07	• 8
Parity	NONE	C EVEN C ODD
Stop Bit	● 1	C 2
Flow Contro	I 💿 NONE	C ER(DTR/CTS) C XON/XOFF
Timeout	3 📫 (se	c)
Retry	2 🚦	
Wait To Se	nd 🛛 🕂 (m:	3)
RI / VCC	© BI	O VCC
In the cas or VCC (5 Isolation L	e of RS232C, you can select I V Power Supply). If you use t Init, please select it to VCC.	he 9th pin to RI (Input) he Digital's RS232C Default
Device-Specific	Settings	
Allowable N	umber of Devices/PLCs	16
Number	LC1	Series=SRZ[Z-DI0],Slave Address=17

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	SRZ(Z-DIO))	•
If you change the series, please reconfirm all address settings.			
Slave Address	17	1	÷
		Default	
OK (<u>0)</u>	Cancel]

Settings of External Device

Use the unit address setting switch on the front of the Temperature Controller and the DIP switch on the side of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- Use the unit address setting switch on the front of the Temperature Controller to set the slave address. The number added 17 to the set value becomes the slave address.
- 2. Use the DIP switch on the side of the Temperature Controller to set the speed, data bit configuration, and communication protocol.
- 3. After completing the settings, turn ON the Temperature Controller again.

Setting Value

Unit address setting switch		
Slave address setting	0	

DIP Switch

SW	Settings	Description
1	OFF	Sneed: 19200 bps
2	ON	Speed. 19200 0p3
3	OFF	Data hit configuration:
4	OFF	Data length 8 bits no parity stop 1 bit
5	ON	Dua lenga o ons, no pany, stop i on
6	ON	Communication protocol: MODBUS communication
7	OFF	Fixed
8	OFF	Fixed

NOTE

3.25 Setting Example 25

- Settings of GP-Pro EX
- Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker RKC IN	TRUMENT INC.	Series Temp. Controller MODBUS SIO Port COM1
Text Data Mode	1 Change	
Communication Settings		
SIO Type	○ R\$232C 💿	RS422/485(2wire) C RS422/485(4wire)
Speed	19200	•
Data Length	07 01	8
Parity		EVEN C ODD
Stop Bit	©1 C;	2
Flow Control	C NONE C	ER(DTR/CTS) C XON/XOFF
Timeout	3 📫 (sec)	
Retry	2 🔅	
Wait To Send	0 📫 (ms)	
RI / VCC	© BL C Y	VCC
In the case of RS	232C, you can select the ! Supplu) If you use the [9th pin to RI (Input) Diaitelle BS232D
Isolation Unit, plea	ise select it to VCC.	Default
Device-Specific Settings		
Allowable Number of	f Devices/PLCs 16	
Number Device I	Jame	Settings Settings Seties=SRZ(Z-CT),Slave Address=33

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 🛛 🛛 🔀			I
PLC1			
Series	SRZ(Z-CT)) 🔽	
If you change the series, please reconfirm all address settings.			
Slave Address	33	•	
		Default	
OK (<u>0)</u>	Cancel	

Settings of External Device

Use the unit address setting switch on the front of the Temperature Controller and the DIP switch on the side of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- Use the unit address setting switch on the front of the Temperature Controller to set the slave address. The number added 33 to the set value becomes the slave address.
- 2. Use the DIP switch on the side of the Temperature Controller to set the speed, data bit configuration, and communication protocol.
- 3. After completing the settings, turn ON the Temperature Controller again.

Setting Value

Unit address setting switch		
Slave address setting	0	

DIP Switch

SW	Settings	Description
1	OFF	Sneed: 19200 bps
2	ON	Speed. 19200 0p3
3	OFF	Data hit configuration:
4	OFF	Data length 8 bits no parity stop 1 bit
5	ON	Dua lenga o ons, no pany, stop i on
6	ON	Communication protocol: MODBUS communication
7	OFF	Fixed
8	OFF	Fixed

NOTE

3.26 Setting Example 26

- Settings of GP-Pro EX
- Communication Settings

Summary Change Device/F Maker RKC INSTRUMENT INC. Series Temp. Controller MODBUS SID Port COM1 Text Data Mode 1 Change Communication Settings SiD Type RS232C RS422/485(2wire) RS422/485(4wire) Speed 19200 • Data Length 7 6 8 Parity • NONE EVEN ODD Stop Bit • 1 0 Stop Bit • 1 0 2 Flow Control • NONE ER(DTR/CTS) • XON/X0FF Timeout 3 • (sec) Retry 2 • • • • • • Wait To Send 0 • (ms) • • • •	
Maker RKC INSTRUMENT INC. Series Temp. Controller MODBUS SIO Poit COM1 Text Data Mode 1 Change Communication Settings Silo Type RS232C RS422/485(2wire) RS422/485(4wire) Speed 19200 Image Image Image Image Image Data Length 7 6 8 Image Image Image Image Stop Bit 0 1 0 2 Image Image Image Image Image How Control Image	PLC
Text Data Mode 1 Change Communication Settings SID Type RS232C RS422/485(2wire) RS422/485(4wire) Speed 19200 • Data Length 7 6 8 Parity NONE EVEN 0 DD Stop Bit 1 2 Flow Control NONE ER(DTR/CTS) XON/XOFF Timeout 3 • (sec) Retry 2 • Vait To Send 0	
Communication Settings SID Type RS232C RS422/485(2wire) RS422/485(4wire) Speed 19200 Image: Communication Settings Data Length 7 6 8 Parity NONE EVEN ODD Stop Bit 1 2 Flow Control NONE ER(DTR/CTS) XON/XOFF Timeout 3 Image: Communication Settings Wait To Send 0 Image: Communication Settings	
SIO Type C RS232C C RS422/485(2wire) C RS422/485(4wire) Speed 19200 Image: Comparison of the system Image:	
Speed 19200 Data Length 0 O T 6 Parity • NONE • EVEN Stop Bit • 1 0 Flow Control • NONE • ER(DTR/CTS) Flow Control • NONE • ER(DTR/CTS) Retry 2 • Wait To Send 0 • (ms)	
Data Length 0 7 © 8 Parity © NONE EVEN © ODD Stop Bit © 1 © 2 Flow Control © NONE © ER(DTR/CTS) © XON/XOFF Timeout 3 = (sec) Retry 2 = Wait To Send 0 = (ms)	
Parity Image: NONE Image: EVEN Image: ODD Stop Bit Image: 1 Image: 2 Flow Control Image: NONE Image: ER(DTR/CTS) Image: XON/XOFF Timeout Image: Image: XON/XOFF Image: XON/XOFF Timeout Image: Image: XON/XOFF Retry Image: XON/XOFF Wait To Send Image: Image: XON/XOFF	
Stop Bit I I I Flow Control Image: NONE Image: ER(DTR/CTS) Image: XON/XOFF Timeout 3 Image: ER(DTR/CTS) Image: XON/XOFF Retry 2 Image: ER(DTR/CTS) Image: XON/XOFF Wait To Send 0 Image: ER(DTR/CTS) Image: ER(DTR/CTS)	
Flow Control Image: NONE Image: ER(DTR/CTS) Image: XON/XOFF Timeout 3	
Timeout 3 4 Retry 2 4 Wait To Send 0 4	
Retry 2 式 Wait To Send 0 式 (ms)	
Wait To Send 0 (ms)	
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 Number of Devices/PLCs 16	
Number 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].

💰 Individual Device Settings 🛛 🛛 🛛		
PLC1		
Series	SRZ(Z-CO	M) 💌
If you change the all address setting:	series, plea s.	se reconfirm
Slave Address	1	•
		Default
ΟΚ (0)	Cancel

Settings of External Device

Use the unit address setting switch on the front of the Temperature Controller and the DIP switch on the side of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. Use the unit address setting switch on the front of the Temperature Controller to set the slave address. The number added 1 to the set value becomes the slave address.
- 2. Use the DIP switch on the side of the Temperature Controller to set the speed, data bit configuration, and communication protocol.
- 3. After completing the settings, turn ON the Temperature Controller again.

Setting Value

Unit address setting switch		
Slave address setting	0	

DIP Switch

SW	Settings	Description
1	OFF	Speed: 19200 bps
2	ON	Speed. 17200 0ps
3	ON	Communication protocol: Host communication (MODBUS) Data length 8 bits, no parity, stop 1 bit

NOTE

3.27 Setting Example 27

- Settings of GP-Pro EX
- Communication Settings

Devic	e/PLC1		
Sum	mary		Change Device/PLC
	Maker RKC INS	FRUMENT INC.	Series Temp. Controller MODBUS SIO Port COM1
	Text Data Mode	1 <u>Change</u>	
Com	munication Settings		
	SIO Type	C RS232C	• RS422/485(2wire) • RS422/485(4wire)
	Speed	19200	•
	Data Length	C 7	• 8
	Parity	NONE	C EVEN C ODD
	Stop Bit	● 1	© 2
	Flow Control	ONNE	C ER(DTR/CTS) C XON/XOFF
	Timeout	3 📑 (sec)
	Retry	2 📫	
	Wait To Send	0 📫 (ms)
	RI / VCC	© BI	C VCC
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.			
Devi	ice-Specific Settings		
Allowable Number of Devices/PLCs 16 📷			
	Number Device Na	ame	Settings The Series=SRZ[Z-COM],Slave Address=1
			Part 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].

💰 Individual Device Settings 🛛 🛛 🛛		
PLC1		
Series	SRZ(Z-CO	M) 💌
If you change the all address setting:	series, plea s.	se reconfirm
Slave Address	1	•
		Default
ΟΚ (0)	Cancel

Settings of External Device

Use the unit address setting switch on the front of the Temperature Controller and the DIP switch on the side of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- 1. Use the unit address setting switch on the front of the Temperature Controller to set the slave address. The number added 1 to the set value becomes the slave address.
- 2. Use the DIP switch on the side of the Temperature Controller to set the speed, data bit configuration, and communication protocol.
- 3. After completing the settings, turn ON the Temperature Controller again.

Setting Value

Unit address setting switch		
Slave address setting	0	

DIP Switch

SW	Settings	Description
1	OFF	Speed: 19200 bps
2	ON	Speed. 17200 0ps
3	ON	Communication protocol: Host communication (MODBUS) Data length 8 bits, no parity, stop 1 bit

NOTE

3.28 Setting Example 28

- Settings of GP-Pro EX
- Communication Settings

Device/PLC 1			
Summary		Change Device/PLC	
Maker RKC INSTR	IUMENT INC.	Series Temp. Controller MODBUS SIO Port COM1	
Text Data Mode	1 <u>Change</u>		
Communication Settings			
SIO Type	O R\$232C	C RS422/485(2wire) © RS422/485(4wire)	
Speed	19200		
Data Length	07	• 8	
Parity	NONE	C EVEN C ODD	
Stop Bit	• 1	• 2	
Flow Control	🖲 NONE	C ER(DTR/CTS) C XON/XOFF	
Timeout	3 📫 (se	ec)	
Retry	2 +		
Wait To Send	0 📫 (m	\$]	
RI / VCC	© RI	C VCC	
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.			
Device-Specific Settings			
Allowable Number of Devices/PLCs 16			
T PLC1		Securgs Series=SRZ(Z-COM),Slave Address=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].

💰 Individual Device Settings 🛛 🛛 🛛		
PLC1		
Series	SRZ(Z-CO	M) 💌
If you change the all address setting:	series, plea s.	se reconfirm
Slave Address	1	•
		Default
ΟΚ (0)	Cancel

Settings of External Device

Use the unit address setting switch on the front of the Temperature Controller and the DIP switch on the side of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- Use the unit address setting switch on the front of the Temperature Controller to set the slave address. The number added 1 to the set value becomes the slave address.
- 2. Use the DIP switch on the side of the Temperature Controller to set the speed, data bit configuration, and communication protocol.
- 3. After completing the settings, turn ON the Temperature Controller again.

Setting Value

Unit address setting switch		
Slave address setting	0	

DIP Switch

SW	Settings	Description
4	ON	Speed: 19200 bps
5	ON	Communication protocol:
6	OFF	Host communication (MODBUS)
7	OFF	Data length 8 bits, no parity, stop 1 bit
8	OFF	DIP switch setting: Enabled

NOTE

3.29 Setting Example 29

- Settings of GP-Pro EX
- Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker RKC IN:	STRUMENT INC.	Series Temp. Controller MODBUS SIO Port COM1
Text Data Mode	1 Change	
Communication Settings		
SIO Type	O RS232C	RS422/485(2wire) RS422/485(4wire)
Speed	19200	
Data Length	0.7	• 8
Parity	NONE	C EVEN C ODD
Stop Bit	● 1	C 2
Flow Control	NONE	C ER(DTR/CTS) C XON/XOFF
Timeout	3 +	(sec)
Retry	2 🔹	
Wait To Send	0 🗧	(ms)
RI / VCC	© BI	C VCC
In the case of RS or VCC (5V Powe Isolation Unit, plea	232C, you can sele r Supply). If you us ase select it to VCC.	ect the 9th pin to RI (Input) se the Digital's RS232C 2. Default
Device-Specific Settings		
Allowable Number o	f Devices/PLCs	16
Number DeviceN	lame	Settings Series=SBZ(Z-COM) Slave Address=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].

💰 Individual Device Settings 🛛 🔹 👂			C
PLC1			
Series SRZ(Z-COM)			1
If you change the series, please reconfirm all address settings.			
Slave Address	1	- -	1
		Default	
OK (<u>0)</u>	Cancel	

Settings of External Device

Use the unit address setting switch on the front of the Temperature Controller and the DIP switch on the side of the Temperature Controller for communication settings of the External Device.

Please refer to the manual of the Temperature Controller for more details.

Procedure

- Use the unit address setting switch on the front of the Temperature Controller to set the slave address. The number added 1 to the set value becomes the slave address.
- 2. Use the DIP switch on the side of the Temperature Controller to set the speed, data bit configuration, and communication protocol.
- 3. After completing the settings, turn ON the Temperature Controller again.

Setting Value

Unit address setting switch		
Slave address setting	0	

DIP Switch

SW	Settings	Description
4	ON	Speed: 19200 bps
5	ON	Communication protocol:
6	OFF	Host communication (MODBUS)
7	OFF	Data length 8 bits, no parity, stop 1 bit
8	OFF	DIP switch setting: Enabled

NOTE

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 10)

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 RKC INSTRUMENT INC. Driver Temp. Controller MODBUS SID Port COM1
Text Data Mode 1 Change
Communication Settings
SIO Type C RS232C 💿 RS422/485(2wire) C RS422/485(4wire)
Speed 9600 💌
Data Length C 7 💿 8
Parity © NONE © EVEN © ODD
Stop Bit
Flow Control 💿 NONE 🔿 ER(DTR/CTS) 🔿 XGN/XOFF
Timeout 3 💼 (sec)
Retry 2
Wait To Send 0 📑 (ms)
RI / VCC C 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
Allowable No. of Device/PLCs 16 Unit(s)
No. Device Name Settings 1 PLC1 Image: Settings

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	The communication control method to prevent overflow of transmission and reception data is displayed.
Timeout	Use an integer from 1 to 127 to enter the time (s) for which the Display waits for the response from the External Device.
Retry	In case of no response from the External Device, use an integer from 0 to 255 to enter how many times the Display retransmits the command.

continued to next page

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Setup Items	Setup Description
Wait To Send	Use an integer from 0 to 255 to enter standby time (ms) for the Display from receiving packets to transmitting next commands.
RI/VCC	Switches RI/VCC of the 9th pin. It is necessary to change RI/5V by changeover switch of IPC when connect with IPC. Please refer to the manual of the IPC for more detail.

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

When you connect multiple External Device, click if from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

💰 Individual Device Settings 🛛 🛛 🗙		
PLC1		
Series	CB	•
Please reconfirm all are using if you have	of address setting changed the serie	s that you es.
Slave Address	1	*
		Default
	OK (<u>D)</u>	Cancel

Setup Items	Setup Description
Series	Select a model of the External Device.
Slave Address	Enter the Slave Address of the External Device.

4.2 Setup Items in Off-Line Mode

NOTE

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

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

Communication Settings

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

Comm.	Device	Option		
Temp. Controlle	r MODBUS SIO		[COM1]	Page 1/1
	SIO Type Speed Data Length Parity Stop Bit Flow Control Timeout(s) Retry Wait To Send(ms)	RS422/48 9600 7 NONE 1 NONE	5(2wire)	ODD
	Exit		Back	2006/01/17 18:06:30

Setup Items	Setup Description		
	Select the SIO type to communicate with the External Device.		
SIO Type	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	The communication control method to prevent overflow of transmission and reception data is displayed.		
Timeout	Use an integer from 1 to 127 to enter the time (s) for which the Display waits for the response from the External Device.		
Retry	In case of no response from the External Device, use an integer from 0 to 255 to enter how many times the Display retransmits the command.		
Setup Items	Setup Description		
--------------	---		
Wait To Send	Use an integer from 0 to 255 to enter standby time (ms) for the Display from receiving packets to transmitting next commands.		

Device Setting

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

Comm.	Device	Option		
Temp. Controlle	r MODBUS SIO		[COM1]	Page 1/1
Devic	e/PLC Name PL	01		
	Series	CB		
	C1 A L L			
	Slave Address			
	E			2006/01/17
	Exit		Back	18:06:33

Setup Items	Setup Description
Device name	Select the External Device to set. Device name is a title of the External Device set with GP- Pro EX.(Default [PLC1])
Series	Displays a model of the External Device.
Slave Address	Enter the slave address of the External Device, using 1 to 99.

Option

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

Comm.	Device	Option		
Temp. Controlle	r MODBUS 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 th ation Unit, ples	o VCC can select VCC(5V me Digital's mse select	
	Exit		Back	2006/02/13 13:19:34

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

The cable diagram shown below may be different from the cable diagram recommended by RKC Instrument Inc. 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.
- When using RS422/485 (2 wire) or RS422/485 (4 wire) for connection, you can connect maximum 16 units of Temperature Controller. Note that you can connect maximum 15 units of Temperature Controller when using RS422/485 (4 wire) to connect the FB400/900 Series.
- Connect the isolation unit, when communication is not stabilized under the influence of a noise etc..

Cable Diagram 1

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

*1 Only the COM port which can communicate by RS-232C can be used.
 IPC COM Port (page 7)

	Displ D-Sub 9 F	ay side Pin (socket)	Shield	External Modu	Device side lar 6 Pin
	Pin	Signal name		Pin	Signal name
Display	2	RD(RXD)		2	SD
	3	SD(TXD)		4	RD
	4	ER(DTR)		3	SG
	5	SG		6	Shield
	6	DR(DSR)			
	7	RS(RTS)	$h \setminus \setminus I$		
	8	CS(CTS)			

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) LT (COM1) IPC ^{*3}	А	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	
	В	User-created cable	
GP ^{*4} (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 1200m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

- *3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. ☞ ■ IPC COM Port (page 7)
- *4 All GP models except GP-3200 series and AGP-3302B
 - A) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, and a user-created cable
 - 1:1 Connection





User-created cable

- B) When using a user-created cable
- 1:1 Connection





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



1:n Connection



D) When using the online adapter (CA4-ADPONL-01) by Pro-face and a user-created cable

1:1 Connection



• 1:n Connection



User-created cable

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) LT (COM1)	А	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	
	В	User-created cable	
GP*3 (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 1200m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
IPC ^{*4}	Е	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	
	F	User-created cable	

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

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

*4 Only the COM port which can communicate by RS-422/485 (2 wire) can be used. ☞ ■ IPC COM Port (page 7)

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





- B) When using a user-created cable
- 1:1 Connection





C) When using the online adapter (CA4-ADPONL-01), the terminal block conversion adapter (CA3-ADPTRM-

01) by Pro-face, and a user-created cable

• 1:1 Connection



D) When using the online adapter (CA4-ADPONL-01) by Pro-face and a user-created cable

• 1:1 Connection



User-created cable



- E) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, and a user-created cable
- 1:1 Connection





- F) When using a user-created cable
- 1:1 Connection





Display (Connection Port)	Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) LT (COM1) IPC ^{*3}	COM port conversion adapter by Pro CA3-ADPCOM-01 + Terminal block conversion adapter by F CA3-ADPTRM-01 + User-created cable	-face Pro-face
	User-created cable	
GP ^{*4} (COM2)	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by F CA3-ADPTRM-01 + User-created cable	Cable length: 1200m or less Pro-face
	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

- *3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 IPC COM Port (page 7)
- *4 All GP models except GP-3200 series and AGP-3302B
 - A) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, and a user-created cable
 - 1:1 Connection





• Termination resistance is not necessary.

B) When using a user-created cable

1:1 Connection





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





D) When using the online adapter (CA4-ADPONL-01) by Pro-face and a user-created cable

• 1:1 Connection



• 1:n Connection



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Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) LT (COM1)	А	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	
	В	User-created cable	
GP*3 (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 1200m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
IPC ^{*4}	Е	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	
	F	User-created cable	

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

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

*4 Only the COM port which can communicate by RS-422/485 (2 wire) can be used. ☞ ■ IPC COM Port (page 7)

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







B) When using a user-created cable



1:n Connection



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





NOTE • Termination resistance is not necessary.

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





F) When using a user-created cable

• 1:1 Connection





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

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

IPC COM Port (page 7)

When using a user-created cable



Display (Connection Port)	Cable		Remarks	
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) LT (COM1) IPC ^{*3}	А	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable		
	В	User-created cable		
GP ^{*4} (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 1200m or less	
	D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable		

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

- *3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 IPC COM Port (page 7)
- *4 All GP models except GP-3200 series and AGP-3302B
 - A) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, and a user-created cable
 - 1:1 Connection





- B) When using a user-created cable
- 1:1 Connection





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





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





Display (Connection Port)	Cable		Remarks	
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) LT (COM1) IPC ^{*3}	А	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable		
	В	User-created cable		
GP ^{*4} (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 1200m or less	
	D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable		

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

- *3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 IPC COM Port (page 7)
- *4 All GP models except GP-3200 series and AGP-3302B
 - A) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, and a user-created cable
 - 1:1 Connection





NOTE

Termination resistance is not necessary.

B) When using a user-created cable

• 1:1 Connection

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	Display side D-Sub 9 Pin (socket)		Shield	External Device side COM.PORT3 Modular 6 Pin	
Display	Pin	Signal name		Pin	Signal name
	1	RDA		4	T(B)
	2	RDB		5	T(A)
	3	SDA		2	R(B)
	7	SDB		1	R(A)
	5	SG		3	SG
	4	ERA	⊢ \ \⊬—	6	Shield
	8	CSA	· ۲		
	9	ERB			
	6	CSB	•		
	Shell	FG			

• 1:n Connection



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





NOTE

Termination resistance is not necessary.

D) When using the online adapter (CA4-ADPONL-01) by Pro-face and a user-created cable





Display (Connection Port)	Cable		Remarks	
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) LT (COM1)	A Terminal block conversion adapter by Pro-face CA3-ADPCOM-01 + A Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable			
	В	User-created cable		
GP*3 (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 1200m or less	
	D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable		
IPC*4 E COM port conversion adaption CA3-ADPCOM + Terminal block conversion adaption CA3-ADPCOM + Terminal block conversion adaption CA3-ADPCOM + User-created ca		COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable		
	F	User-created cable		

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

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

*4 Only the COM port which can communicate by RS-422/485 (2 wire) can be used. ☞ ■ IPC COM Port (page 7)

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





B) When using a user-created cable

• 1:1 Connection



• 1:n Connection



NOTE

C) When using the online adapter (CA4-ADPONL-01), the terminal block conversion adapter (CA3-ADPTRM-

- 01) by Pro-face, and a user-created cable
- 1:1 Connection



• 1:n Connection



NOTE

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





NOTE

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- E) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, and a user-created cable
- 1:1 Connection





NOTE

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F) When using a user-created cable

• 1:1 Connection



• 1:n Connection



Display (Connection Port)	Cable		Remarks	
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) LT (COM1)	A Terminal block conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable B User-created cable			
GP ^{*3} (COM2)	Online adapter CA4-ADP + Terminal block conversi CA3-ADP + User-creat	by Pro-face ONL-01 on adapter by Pro-face TRM-01 ed cable	Cable length: 1200m or less	
	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable			
IPC*4	E COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable			
	User-creat	ed cable		

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

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

*4 Only the COM port which can communicate by RS-422/485 (2wire) can be used.
 IPC COM Port (page 7)

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



• 1:n Connection (When connecting with the internal communication line)



• 1:n Connection



User-created cable

- B) When using a user-created cable.
- 1:1 Connection



• 1:n Connection (When connecting with the internal communication line)




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



• 1:n Connection (When connecting with the internal communication line)



• 1:n Connection



User-created cable

- D) When using the online adapter (CA4-ADPONL-01) by Pro-face, and a user-created cable.
- 1:1 Connection



• 1:n Connection (When connecting with the internal communication line)



• 1:n Connection



User-created cable

- E) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, and a user-created cable.
- 1:1 Connection



• 1:n Connection (When connecting with the internal communication line)



• 1:n Connection



F) When using a user-created cable.

• 1:1 Connection



• 1:n Connection (When connecting with the internal communication line)



• 1:n Connection



Cable Diagram 11

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) LT (COM1) IPC ^{*3}	А	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable + Connector cable from RKC Instrument Inc. ^{*5} W-BF-02	
	В	User-created cable + Connector cable from RKC Instrument Inc. ^{*5} W-BF-02	
GP ^{*4} (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable + Connector cable from RKC Instrument Inc. ^{*5} W-BF-02	Cable length: 1200m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable + Connector cable from RKC Instrument Inc. ^{*5} W-BF-02	

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

*3 Only the COM port which can communicate by RS-422/485 (4wire) can be used. ☞ ■ IPC COM Port (page 7)

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

*5 To use multiple External Devices, utilize the W-BF-02 connector cable from RKC Instrument Inc.

- A) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, a user-created cable, and the connector cable from RKC Instrument Inc.(W-BF-02).
- 1:1 Connection



COM.PORT3 with COM.PORT4.

B) When using a user-created cable, and the connector cable from RKC Instrument Inc.(W-BF-02).

• 1:1 Connection



1:n Connection



COM.PORT3 with COM.PORT4.

C) When using the online adapter (CA4-ADPONL-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, a user-created cable, and the connector cable from RKC Instrument Inc.(W-BF-02).

• 1:1 Connection



COM.PORT3 with COM.PORT4.

D) When using the online adapter (CA4-ADPONL-01) by Pro-face, a user-created cable, and the connector cable from RKC Instrument Inc.(W-BF-02).



• 1:1 Connection

• To use the External Device's COM.PORT, pair COM.PORT1 with COM.PORT2, and COM.PORT3 with COM.PORT4.

Cable Diagram 12

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) LT (COM1)		COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable + Connector cable from RKC Instrument Inc. ^{*5} W-BF-02	
	в	User-created cable + Connector cable from RKC Instrument Inc. ^{*5} W-BF-02	
GP ^{*3} (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable + Connector cable from RKC Instrument Inc. ^{*5} W-BF-02	Cable length: 1200m or less
	D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable + Connector cable from RKC Instrument Inc. ^{*5} W-BF-02	
IPC ^{*4}	Е	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable + Connector cable from RKC Instrument Inc. ^{*5} W-BF-02	
	F	User-created cable + Connector cable from RKC Instrument Inc. ^{*5} W-BF-02	

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

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

- *4 Only the COM port which can communicate by RS-422/485 (2wire) can be used.
 IPC COM Port (page 7)
- *5 To use multiple External Devices, utilize the W-BF-02 connector cable from RKC Instrument Inc.
 - A) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, a user-created cable, and the connector cable from RKC Instrument Inc.(W-BF-02).
 - 1:1 Connection



1:n Connection



B) When using a user-created cable, and the connector cable from RKC Instrument Inc.(W-BF-02).

1:1 Connection



• 1:n Connection



• To use the External Device's COM.PORT, pair COM.PORT1 with COM.PORT2, and COM.PORT3 with COM.PORT4.

- C) When using the online adapter (CA4-ADPONL-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, a user-created cable, and the connector cable from RKC Instrument Inc.(W-BF-02).
- 1:1 Connection



- D) When using the online adapter (CA4-ADPONL-01) by Pro-face, a user-created cable, and the connector cable from RKC Instrument Inc.(W-BF-02).
- 1:1 Connection



• 1:n Connection



NOTE

- We recommend the TM4P-66P from HIROSE ELECTRIC CO., LTD. as the modular connector.
- To use the External Device's COM.PORT, pair COM.PORT1 with COM.PORT2, and COM.PORT3 with COM.PORT4.

- E) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face, a user-created cable, and the connector cable from RKC Instrument Inc.(W-BF-02).
- 1:1 Connection



• To use the External Device's COM.PORT, pair COM.PORT1 with COM.PORT2, and COM.PORT3 with COM.PORT4.

F) When using a user-created cable, and the connector cable from RKC Instrument Inc.(W-BF-02).

1:1 Connection

•



connector.
To use the External Device's COM.PORT, pair COM.PORT1 with COM.PORT2, and COM.PORT3 with COM.PORT4.

6 Supported Device

Range of supported device address is shown in the table below. Please note that the actually supported range of the devices varies depending on the External Device to be used. Please check the actual range in the manual of your External Device.

Enter the External Device address in the dialog below.



6.1 CB Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Holding Register	0000.0-001C.F	0000-001C	[L/H]	*1

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

IMPORTANT	 To set [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].

- You can set only Read Area Size for the system data area available to use in the Temperature Controller. Please refer to the GP-Pro EX Reference Manual for reading area size.
 - Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"
 - Please refer to the precautions on manual notation for icons in the table.

"Manual Symbols and Terminology"

• Even if you use the nonexistent address, read error may not be displayed. In this case, "0" is retained for the read data. Note that the writing error is displayed.

6.2 FB400/900Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Holding Register	0000.0-150F.F	0000-150F	[L/H]	*1

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

IMPORTANT

To set [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].

• You can set only Read Area Size for the system data area available to use in the Temperature Controller. Please refer to the GP-Pro EX Reference Manual for reading area size.

Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"

- Please refer to the precautions on manual notation for icons in the table.
 "Manual Symbols and Terminology"
- Even if you use the nonexistent address, read error may not be displayed. In this case, "0" is retained for the read data. Note that the writing error is displayed.

6.3 HA900/400 Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Holding Register	0000.0-0535.F	0000-0535	[L/H]	*1

IMPORTANT • To set [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].
• You can set only Read Area Size for the system data area available to use in the Temperature Controller. Please refer to the GP-Pro EX Reference Manual for reading area size.
Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"
 Please refer to the precautions on manual notation for icons in the table. "Manual Symbols and Terminology"
• Even if you use the nonexistent address, read error may not be displayed. In this case, "0" is retained for the read data. Note that the writing error is displayed.

6.4 MA900/901 Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Holding Register	0000.0-14A0.F	0000-14A0	[L/H]	*1

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

[IMPORTANT]	To set [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].

- You can set only Read Area Size for the system data area available to use in the Temperature Controller. Please refer to the GP-Pro EX Reference Manual for reading area size.
 - Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"
 - Please refer to the precautions on manual notation for icons in the table.

"Manual Symbols and Terminology"

• Even if you use the nonexistent address, read error may not be displayed. In this case, "0" is retained for the read data. Note that the writing error is displayed.

6.5 SRV Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Holding Register	0000.0-1880.F	0000-1880		*1

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

IMPORTANT

To set [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].

• You can set only Read Area Size for the system data area available to use in the Temperature Controller. Please refer to the GP-Pro EX Reference Manual for reading area size.

- Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"
- Please refer to the precautions on manual notation for icons in the table.
 "Manual Symbols and Terminology"
- Even if you use the nonexistent address, read error may not be displayed. In this case, "0" is retained for the read data. Note that the writing error is displayed.

6.6 SRX Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Holding Register	0000.0-1883.F	0000-1883	[L/H]	*1

 IMPORTANT • To set [Enable System Data Area] in the system area setting of GP-Pro EX ma cause malfunction. Do not set [Enable System Data Area]. 	У
• You can set only Read Area Size for the system data area available to use in the Temperature Controller. Please refer to the GP-Pro EX Reference Manual for reading area size.	\$
Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"	
 Please refer to the precautions on manual notation for icons in the table. "Manual Symbols and Terminology" 	
 Even if you use the nonexistent address, read error may not be displayed. In this case, "0" is retained for the read data. Note that the writing error is displayed. 	

6.7 SA100 Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Holding Register	0000.0-0021.F	0000-0021	[L/H]	*1

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

IMPORTANT	•	To set [Enable System Data Area] in the system area setting of GP-Pro EX may
		cause malfunction. Do not set [Enable System Data Area].

- You can set only Read Area Size for the system data area available to use in the Temperature Controller. Please refer to the GP-Pro EX Reference Manual for reading area size.
 - Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"
 - Please refer to the precautions on manual notation for icons in the table.
 - "Manual Symbols and Terminology"
 - Even if you use the nonexistent address, read error may not be displayed. In this case, "0" is retained for the read data. Note that the writing error is displayed.

6.8 SA200 Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Holding Register	0000.0-001E.F	0000-001E	[L/H]	*1

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



• To set [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].

• You can set only Read Area Size for the system data area available to use in the Temperature Controller. Please refer to the GP-Pro EX Reference Manual for reading area size.

Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"

- Please refer to the precautions on manual notation for icons in the table.
 "Manual Symbols and Terminology"
- Even if you use the nonexistent address, read error may not be displayed. In this case, "0" is retained for the read data. Note that the writing error is displayed.

6.9 SR Mini HG(H-PCP-A)Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Holding Register	0000.0-02EE.F	0000-02EE		*1

IMPORTANT • To set [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].	
• You can set only Read Area Size for the system data area available to use in the Temperature Controller. Please refer to the GP-Pro EX Reference Manual for reading area size.	
Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"	
 Please refer to the precautions on manual notation for icons in the table. "Manual Symbols and Terminology" 	
 Even if you use the nonexistent address, read error may not be displayed. In this case, "0" is retained for the read data. Note that the writing error is displayed. 	

6.10 SR Mini HG(H-PCP-J) Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Holding Register	0000.0-1DEE.F	0000-1DEE	<u>[[] [] []</u>	*1

IMPORTANT • To set [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].
NOTE • You can set only Read Area Size for the system data area available to use in the Temperature
Controller. Please refer to the GP-Pro EX Reference Manual for reading area size.
Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"
• Please refer to the precautions on manual notation for icons in the table.
"Manual Symbols and Terminology"
• Even if you use the nonexistent address, read error may not be displayed. In this case, "0" is
retained for the read data. Note that the writing error is displayed.

6.11 SRZ (Z-TIO) / SRZ (Z-DIO) Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Holding Register	0000.0-150F.F	0000-150F	[L/H]	*1

IMPORTANT • To set [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].	
NOTE • You can set only Read Area Size for the system data area available to use in the Temperature Controller. Please refer to the GP-Pro EX Reference Manual for reading area size.	
Controller, i touse telef to the Or 110 Err reference manual for reading weat size.	
Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"	
• Please refer to the precautions on manual notation for icons in the table.	
"Manual Symbols and Terminology"	
• Even if you use the nonexistent address, read error may not be displayed. In this case, "0" is	
retained for the read data. Note that the writing error is displayed.	

6.12 SRZ (Z-CT) Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Holding Register	0000.0-01F1.F	0000-01F1	[L/H]	*1

IMPORTA	• To set [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].
NOTE	• You can set only Read Area Size for the system data area available to use in the Temperature Controller. Please refer to the GP-Pro EX Reference Manual for reading area size.
	Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"
	 Please refer to the precautions on manual notation for icons in the table. "Manual Symbols and Terminology" Even if even use the even visit of deven used even used to display a displayed by this area. "0" is
	• Even if you use the nonexistent address, read error may not be displayed. In this case, "0" is retained for the read data. Note that the writing error is displayed.

6.13 SRZ (Z-COM) Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Holding Register	0000.0-801B.F	0000-801B	[L/H]	*1

IMPORTANT • To set [Enable Sys cause malfunction	tem Data Area] in the system area setting of GP-Pro EX may Do not set [Enable System Data Area].
• You can set only Read Ar Controller. Please refer to	ea Size for the system data area available to use in the Temperature the GP-Pro EX Reference Manual for reading area size.
Cf. GP-Pro EX Refere	nce Manual "Appendix 1.4 LS Area (Direct Access Method)"
 Please refer to the precaut "Manual Symbols a Even if you use the nonex 	ions on manual notation for icons in the table. nd Terminology" istent address, read error may not be displayed. In this case, "0" is
retained for the read data.	Note that the writing error is displayed.

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 CB Series

Device	Device Name	Device Code (HEX)	Address Code
Holding Register	-	0080	Same as Word Address

7.2 FB900/400 Series

Device	Device Name	Device Code (HEX)	Address Code
Holding Register	-	0080	Same as Word Address

7.3 HA900/400 Series

Device	Device Name	Device Code (HEX)	Address Code
Holding Register	-	0080	Same as Word Address

7.4 MA900/901 Series

Device	Device Name	Device Code (HEX)	Address Code
Holding Register	-	0080	Same as Word Address

7.5 SRV Series

Device	Device Name	Device Code (HEX)	Address Code
Holding Register	-	0080	Same as Word Address

7.6 SRX Series

Device	Device Name	Device Code (HEX)	Address Code
Holding Register	-	0080	Same as Word Address

7.7 SA100 Series

Device	Device Name	Device Code (HEX)	Address Code
Holding Register	-	0080	Same as Word Address

7.8 SA200 Series

Device	Device Name	Device Code (HEX)	Address Code
Holding Register	-	0080	Same as Word Address

7.9 SR Mini Series

Device	Device Name	Device Code (HEX)	Address Code
Holding Register	-	0080	Same as Word Address

7.10 SR Mini HG Series

Device	Device Name	Device Code (HEX)	Address Code
Holding Register	-	0080	Same as Word Address

7.11 SRZ (Z-TIO) / SRZ (Z-DIO) Series

Device	Device Name	Device Code (HEX)	Address Code
Holding Register	-	0080	Same as Word Address

7.12 SRZ (Z-CT) Series

Device	Device Name	Device Code (HEX)	Address Code
Holding Register	-	0080	Same as Word Address

7.13 SRZ (Z-COM) Series

Device	Device Name	Device Code (HEX)	Address Code
Holding Register	-	0080	Same as 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 "Decimal[Hex]". 		

Display Examples of Error Messages

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

NOTE

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

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