Shinko Technos Co.,Ltd.

Indicating Controller SIO Driver

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Introduction

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

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

1	System Configuration This section shows the types of External Devices which can be connected and SIO type.	"1 System Configuration" (page 3)
2	Selection of External Device Select a model (series) of the External Device to be connected and connection method.	"2 Selection of External Device" (page 11)
3	Example of Communication Settings This section shows setting examples for communicating between the Display and the External Device.	"3 Example of Communication Setting" (page 12)
4	Setup Items This section describes communication setup items on the Display. Set communication settings of the Display with GP-Pro Ex or in offline mode.	^{ভেল} "4 Setup Items" (page 84)
5	Cable Diagram This section shows cables and adapters for connecting the Display and the External Device.	ি "5 Cable Diagram" (page 89)
	Operation	

1 System Configuration

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

Series	CPU ^{*1}	Link I/F	SIO Type	Setting Example	Cable Diagram
с	CPT-20A ^{*2}	Upper modular jack (Lower modular jack use for cascade connection)	RS422/485 (4 wire)	Setting Example 1 (page 12)	Cable Diagram 3 (page 102)
	FCD-13A-□/M,C	Terminal of back panel	RS-232C	Setting Example 2 (page 14)	Cable Diagram 1 (page 89)
	FCD-15A-R/M,□□,C	Terminal of back panel	RS-232C	Setting Example 3 (page 16)	Cable Diagram 1 (page 89)
	FCR-13A-□/M,C	Terminal of back panel	RS-232C	Setting Example 4 (page 18)	Cable Diagram 1 (page 89)
	FCR-15A-R/M,□□,C	Terminal of back panel	RS-232C	Setting Example 5 (page 20)	Cable Diagram 1 (page 89)
	FCR-23A-□/ M,□□,C	Terminal of back panel	RS-232C	Setting Example 6 (page 22)	Cable Diagram 1 (page 89)
FC		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 2 (page 14)	Cable Diagram 4 (page 107)
	FCD-13A-□/M,C5	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 2 (page 14)	Cable Diagram 5 (page 110)
		Terminal of back panel	RS422/485 (2 wire)	Setting Example 7 (page 24)	Cable Diagram 2 (page 91)
		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 3 (page 16)	Cable Diagram 4 (page 107)
	FCD-15A-R/M,□□,C5	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 3 (page 16)	Cable Diagram 5 (page 110)
		Terminal of back panel	RS422/485 (2 wire)	Setting Example 8 (page 26)	Cable Diagram 2 (page 91)

Series	CPU ^{*1}	Link I/F	SIO Type	Setting Example	Cable Diagram
		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 4 (page 18)	Cable Diagram 4 (page 107)
	FCR-13A-□/M,C5	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 4 (page 18)	Cable Diagram 5 (page 110)
		Terminal of back panel	RS422/485 (2 wire)	Setting Example 9 (page 28)	Cable Diagram 2 (page 91)
		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 5 (page 20)	Cable Diagram 4 (page 107)
FC	FCR-15A-R/M,□□,C5	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 5 (page 20)	Cable Diagram 5 (page 110)
		Terminal of back panel	RS422/485 (2 wire)	Setting Example 10 (page 30)	Cable Diagram 2 (page 91)
		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 6 (page 22)	Cable Diagram 4 (page 107)
	FCR-23A-□/ M,□□,C5	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 6 (page 22)	Cable Diagram 5 (page 110)
		Terminal of back panel	panel IF-400.)RS-232CExam (page (page)panelRS422/485 (2 wire)Settin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (page)panel IF-400.)RS-232CSettin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (page)panel IF-400.)RS-232CSettin Exam (page)panel IF-400.)RS-232CSettin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (page)panel IF-400.)RS-232CSettin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (page)panel IF-400.)RS-232CSettin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (page)panel IF-300-C5.)RS-232CSettin Exam (pag	Setting Example 11 (page 32)	Cable Diagram 2 (page 91)
	FIR-201-M,C	Terminal of back panel	RS-232C	Setting Example 12 (page 34)	Cable Diagram 1 (page 89)
FIR		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 12 (page 34)	Cable Diagram 4 (page 107)
	FIR-201-M,C5	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 12 (page 34)	Cable Diagram 5 (page 110)
		Terminal of back panel		Setting Example 13 (page 36)	Cable Diagram 2 (page 91)

Series	CPU ^{*1}	Link I/F	SIO Type	Setting Example	Cable Diagram
		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 14 (page 38)	Cable Diagram 4 (page 107)
FIR	JIR-301-M□,C5	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 14 (page 38)	Cable Diagram 5 (page 110)
		Terminal of back panel	RS422/485 (2 wire)	Setting Example 15 (page 40)	Cable Diagram 2 (page 91)
GC	GCS-33□-□/□,C5	Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 16 (page 42)	Cable Diagram 4 (page 107)
GC	003-330-0/0,03	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 16 (page 42)	Cable Diagram 5 (page 110)
		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 17 (page 44)	Cable Diagram 4 (page 107)
	JC□-13A-□/M,C5	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 17 (page 44)	Cable Diagram 5 (page 110)
		Terminal of back panel	RS422/485 (2 wire)	Setting Example 18 (page 46)	Cable Diagram 2 (page 91)
		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 19 (page 48)	Cable Diagram 4 (page 107)
JC	JCS-23A-□/□,C5	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 19 (page 48)	Cable Diagram 5 (page 110)
		Terminal of back panel	RS422/485 (2 wire)	Setting Example 20 (page 50)	Cable Diagram 2 (page 91)
		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 21 (page 52)	Cable Diagram 4 (page 107)
	JC□-33A-□/M□,C5	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 21 (page 52)	Cable Diagram 5 (page 110)
		Terminal of back panel	RS422/485 (2 wire)	Setting Example 22 (page 54)	Cable Diagram 2 (page 91)

Series	CPU ^{*1}	Link I/F	SIO Type	Setting Example	Cable Diagram
		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 23 (page 56)	Cable Diagram 4 (page 107)
JC	JCL-33A-□/M□,C5	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 23 (page 56)	Cable Diagram 5 (page 110)
		Terminal of back panel	RS422/485 (2 wire)	Setting Example 24 (page 58)	Cable Diagram 2 (page 91)
		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 25 (page 60)	Cable Diagram 4 (page 107)
AC	ACS-13A-□/M□,C5	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 25 (page 60)	Cable Diagram 5 (page 110)
		Terminal of back panel	RS422/485 (2 wire)	Setting Example 26 (page 62)	Cable Diagram 2 (page 91)
		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 27 (page 64)	Cable Diagram 4 (page 107)
NC	NCL-13A-□/M,□□□	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 27 (page 64)	Cable Diagram 5 (page 110)
		Terminal of back panel	RS422/485 (2 wire)	Setting Example 23 (page 56)Cable Diagram 4 (page 107)Setting Example 23 (page 56)Cable Diagram 5 (page 110)Setting Example 24 (page 58)Cable Diagram 2 (page 91)Setting Example 25 (page 60)Cable Diagram 4 (page 107)Setting Example 25 (page 60)Cable Diagram 4 (page 107)Setting Example 25 (page 60)Cable Diagram 4 (page 107)Setting Example 25 (page 60)Cable Diagram 4 (page 107)Setting Example 26 (page 62)Cable Diagram 2 (page 91)Setting Example 26 (page 64)Cable Diagram 4 (page 107)Setting Example 27 (page 64)Cable Diagram 4 (page 107)Setting Example 27 (page 64)Cable Diagram 4 (page 107)Setting Example 27 Diagram 4 (page 107)Setting Example 27 Diagram 4 (page 107)Setting Example 27 Diagram 5	Diagram 2
		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Example 29	Diagram 4
DC	DCL-33A-□/M□,C5	Terminal of back panel (When using the IF-400.)	RS-232C	Example 29	Diagram 5
		Terminal of back panel	RS422/485 (2 wire)	Example 30	Diagram 2
		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Example 31	Diagram 4
FCL	FCL-13A-¤/¤,C5,	Terminal of back panel (When using the IF-400.)	RS-232C	Example 31	Diagram 5
		Terminal of back panel	RS422/485 (2 wire)	Example 32	Diagram 2

Series	CPU ^{*1}	Link I/F	SIO Type	Setting Example	Cable Diagram
	PC-935-□/M,C PC-955-□/M,C	Terminal of back panel	RS-232C	Setting Example 33 (page 76)	Cable Diagram 1 (page 89)
		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 33 (page 76)	Cable Diagram 4 (page 107)
	PC-935-□/M,C5 PC-955-□/M,C5	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 33 (page 76)	Cable Diagram 5 (page 110)
PC-900		Terminal of back panel	RS422/485 (2 wire)	Setting Example 34 (page 78)	Cable Diagram 2 (page 91)
		Terminal of back panel (When using the IF-300-C5.)	RS-232C	Setting Example 35 (page 80)	Cable Diagram 4 (page 107)
	PCD-33A-□/M□,C5	Terminal of back panel (When using the IF-400.)	RS-232C	Setting Example 35 (page 80)	Cable Diagram 5 (page 110)
		Terminal of back panel	RS422/485 (2 wire)	Setting Example 36 (page 82)	Cable Diagram 2 (page 91)

*1 Type External Device depends on the specified options. Please refer to the brochure of each device for option details.

Regarding the option for serial communication, use C if an RS-232C follows a ",", and C5 if an RS422/485 follows a ",".

*2 When using multiple channels in C series, a 2ch temperature control unit (CCT-235-2-**) is required. Please refer to the manual of C series for details of types of **.

*3 FCL-13A,C5 is indicated as FCL-100 series in the manual.

IMPORTANT

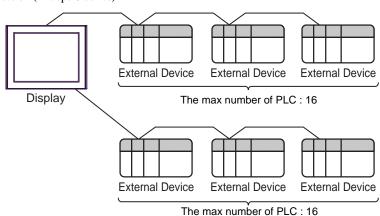
• When connecting with a model that requires a pull-up and pull-down resistance connection in the communication line, use an IF-300-C5 converter (Cable Diagram 4) or an IF-400 converter (Cable Diagram 5).

Connection Configuration

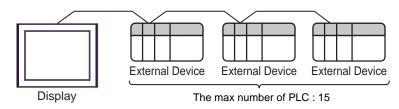
• 1:1 Connection



• 1:n Connection (Except C series)



• 1:n Connection (C series)



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				
Genes	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 (T41 model), PS-3651A (T41 model)	COM1 ^{*1}	-	-		
PS-3650A (T42 model), PS-3651A (T42 model)	COM1 ^{*1*2} , COM2	COM1*1*2	COM1*1*2		
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}		
PS4000 ^{*3}	COM1, COM2	-	-		
PL3000	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.

*3 When making communication between an External Device and COM port on the Expansion slot, only RS-232C is supported. However, ER (DTR/CTS) control cannot be executed because of the specification of COM port.
For connection with External Device, use user-created cables and disable Pin Nos. 1.4, 6 and 9.

For connection with External Device, use user-created cables and disable Pin Nos. 1, 4, 6 and 9. Please refer to the IPC manual for details of pin layout.

DIP Switch setting: RS-232C

DIP Switch	Setting	Description
1	OFF ^{*1}	Reserved (always OFF)
2	OFF	SIO type: RS-232C
3	OFF	510 type. K5-252C
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: RS-422/485 (4 wire)

DIP Switch	Setting	Description	
1	OFF	Reserved (always OFF)	
2	ON	SIO type: RS-422/485	
3	ON	510 type. 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	PS (PTS) Auto control mode: Disabled	
10	OFF	RS (RTS) Auto control mode: Disabled	

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

DIP Switch	Setting	Description	
1	OFF	Reserved (always OFF)	
2	ON	SIO type: RS-422/485	
3	ON	SIO type. K3-422/463	
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	PS (PTS) Auto control mode: Enabled	
10	ON	RS (RTS) Auto control mode: Enabled	

2 Selection of External Device

Select the External Device to be connected to the Display.

& Welcome to GP-Pro EX	Device/PLC	ices/PLCs	
		Device/PLC 1	
	Manufacturer	Shinko Technos Co., Ltd.	
	Series Indicating Controller SIO		
		Refer to the manual of this Device/PLC	
		Recent Device/PLC	
	Use System	Area Device Information	
		Back (B) Communication Settings New Screen Cancel	

Setup Items	Setup Description
Number of Devices/ PLCs	Enter an integer from 1 to 4 to define the number of Devices/PLCs to connect to the display.
Manufacturer	Select the manufacturer of the External Device to connect. Select "Shinko Technos Co.,Ltd.".
Series	Select the External Device model (series) and the connection method. Select "Indicating Controller SIO". In System configuration, make sure the External Device you are connecting is supported by "Indicating Controller SIO". "I System Configuration" (page 3)
Port	Select the Display port to be connected to the External Device.
Use System Area	Cannot be set in this driver.

3 Example of Communication Setting

Examples of communication settings of the Display and the External Device, recommended by Pro-face, are shown.

3.1 Setting Example 1

Settings of GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Shinko	Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode	2 Change	
Communication Settings		
SIO Type	C RS232C C RS422/485(2wire) C RS422/485(4wire)	
Speed	9600	
Data Length	• 7 C 8	
Parity	C NONE C EVEN C ODD	
Stop Bit		
Flow Control	NONE O ER(DTR/CTS) O XON/XOFF	
Timeout	3 • (sec)	
Retry	2 *	
Wait To Send	2 : (ms)	
RI / VCC	C RI C VCC	
or VCC (5V Power	232C, you can select the 9th pin to RI (Input) · Supply]. If you use the Digital's RS232C se select it to VCC. Defaul	t
Device-Specific Settings		
Allowable Number of Devices/PLCs	Add Device 16	
No. Device Name	Settings	Add Indirect Device
👗 1 PLC1	Series=CPT-20A,Unit No=1	*

IMPORTANT

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	2ms or more
19200bps	2ms or more

- Set Retry to 2 times or more.
- In the case of continuous writing, it may take time to write. For example, it takes 1 second to write 5 words.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

💰 Indivi	dual Device Sett	ings 🔀
PLC1		
Series	CPT-20A	•
Unit No	1 🚊	
		Default
	OK (<u>D</u>)	Cancel

Settings of External Device

Use the rotary switch for instrument number setting and DIP switch for communication setting in the External Device for communication settings of the External Device.

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

Setup Items

• Rotary switch for instrument number setting

Settings	Setup Description
1	Instrument number setting: 0 to 15

• DIP switch for communication setting

DIP switch	Settings	Setup Description	
SW1	OFF	Communication speed: 9600bps	
SW2	ON	Terminating resistance setting: ON	
SW3	OFF		
SW4	OFF	Communication form setting: Shinko Technos standard protocol	
SW5	OFF		
SW6	OFF		
SW7	OFF	Digital output setting: Turns ON/OFF by the communication command.	
SW8	OFF		

3.2 Setting Example 2

Settings of GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1				
Summary				Change Device/PLC
Manufacturer Shink	o Technos Co.,Ltd.	Series	Indicating Controller SIO	Port COM1
Text Data Mode	2 <u>Change</u>			
Communication Settings				
SIO Type	RS232C	C RS422/485(2w	ire) C RS422/485(4wire)	
Speed	9600	•		
Data Length	7	0.8		
Parity	C NONE	EVEN	O ODD	
Stop Bit	© 1	C 2		
Flow Control	NONE	C ER(DTR/CTS)	C XON/XOFF	
Timeout	3 🕂 (sec)		
Retry	2 ÷			
Wait To Send	20 📫 (ms)		
RI / VCC		C VCC		
or VCC (5V Powe		st the 9th pin to RI (In e the Digital's RS232		
Device-Specific Settings				
Allowable Number of Devices/PLCs	16	Device		
No. Device Name	Settings			Add Indirect Device
👗 1 PLC1		FCD-13A,Unit No=1		4

IMPORTANT

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	20ms or more
19200bps	20ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Individ	dual Device Setti	ngs 🗙
PLC1		
Series	FCD-13A	•
Unit No	1 📑	
		Default
	OK (<u>0</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key 6 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

6. communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

3.3 Setting Example 3

Settings of GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1				
Summary				Change Device/PLC
Manufacturer Shinko) Technos Co.,Ltd.	Series	Indicating Controller SIO	Port COM1
Text Data Mode	2 Change			
Communication Settings				
SIO Type	• R\$232C	C RS422/485(2w	vire) C RS422/485(4wire)	
Speed	9600	-	,	
Data Length	• 7	08		
Parity	O NONE	EVEN	O ODD	
Stop Bit	● 1	C 2		
Flow Control	NONE		C XON/XOFF	
Timeout	3 🛟	(sec)		
Retry	2 ÷			
- Wait To Send		(ms)		
	• BI			
RI / VCC		ct the 9th pin to RI (In	oputi	
or VCC (5V Power Isolation Unit, plea	Supply). If you us	e the Digital's RS232	Ć	-
Isolation Onit, plea	ISE SEIECT IT TO VEE		Default	
Device-Specific Settings				
Allowable Number of Devices/PLCs	16 <u>Add</u>	Device		
No. Device Name	Settings	\$		Add Indirect Device
👗 1 PLC1	Series:	=FCD-15A,Unit No=1		

IMPORTANT

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	20ms or more
19200bps	20ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Setti	ngs 🗙
PLC1		
Series	FCD-15A	•
Unit No	1 📮	
		Default
	OK (<u>0)</u>	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key 5 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.4 Setting Example 4

Settings of GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1	
Summary	Change Device/PLC
Manufacturer Shinko Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode 2 Change	
Communication Settings	
SID Type	
Speed 9600 💌	
Data Length © 7 © 8	
Parity C NONE C EVEN C ODD	
Stop Bit 1 2	
Flow Control © NONE C ER(DTR/CTS) C XON/XOFF	
Timeout 3 芸 (sec)	
Retry 2	
Wait To Send 20 📑 (ms)	
RI / VCC	
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default	
Device-Specific Settings	
Allowable Number <u>Add Device</u> of Devices/PLCs 16	
No. Device Name Settings	Add Indirect Device
I PLC1 Image Series=FCR-13A,Unit No=1	4

IMPORTANT

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	20ms or more
19200bps	20ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Settings	×
PLC1		
Series	FCR-13A	•
Unit No	1	
	Defa	ult
	OK (<u>O</u>) Cancel	

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key 6 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

6. communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

3.5 Setting Example 5

Settings of GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1	
Summary	Change Device/PLC
Manufacturer Shinko Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode 2 Change	
Communication Settings	
SIO Type	
Speed 9600 V	
Data Length © 7 C 8	
Parity CINONE CIVEN CIDD	
Stop Bit 1 2	
Flow Control © NONE C ER(DTR/CTS) C XON/XOFF	
Timeout 3 📑 (sec)	
Retry 2	
Wait To Send 20 📑 (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 <u>Add Device</u>	
of Devices/PLCs 16 No. Device Name Settings	Add Indirect
No. Device Name Settings I PLC1 Image: Series=FCR-154,Unit No=1	Device
	+

IMPORTANT

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	20ms or more
19200bps	20ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	idual Device Settin	gs 🗙
PLC1		
Series	FCR-15A	•
Unit No	1	
		Default
	OK (<u>O</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key 5 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.6 Setting Example 6

Settings of GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1				
Summary				Change Device/PLC
Manufacturer Shink	o Technos Co.,Ltd.	Series Ir	ndicating Controller SIO	Port COM1
Text Data Mode	2 Change			
Communication Settings				
SIO Type	RS232C	C RS422/485(2wir	e) C RS422/485(4wire)	
Speed	9600	-		
Data Length	© 7	C 8		
Parity	C NONE	EVEN	O ODD	
Stop Bit	€ 1	C 2		
Flow Control	💿 NONE	C ER(DTR/CTS)	C XON/XOFF	
Timeout	3 📫 ((sec)		
Retry	2 ÷			
Wait To Send	20 🕂 ((ms)		
RI / VCC	● BI	C VCC		
or VCC (5V Powe		ct the 9th pin to RI (Inp e the Digital's RS232C		
Device-Specific Settings				
Allowable Number of Devices/PLCs	Add 16	<u>Device</u>		
No. Device Name	Settings			Add Indirect Device
👗 1 PLC1		FCR-23A,Unit No=1		

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	20ms or more
19200bps	20ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Sett	ings 🗙
PLC1		
Series	FCR-23A	•
Unit No	1	
		Default
	OK (<u>0</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key 6 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

6. communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

3.7 Setting Example 7

Settings of GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Shinke	o Technos Co.,Ltd. Series Indicating Controller SID	Port COM1
Text Data Mode	2 Change	
Communication Settings		
SIO Type	C RS232C	
Speed	9600	
Data Length	• 7 C 8	
Parity	O NONE	
Stop Bit	● 1 ○ 2	
Flow Control	© NONE C ER(DTR/CTS) C XON/XOFF	
Timeout	3 • (sec)	
Retry	2	
Wait To Send	20 (ms)	
RI / VCC		
In the case of RS or VCC (5V Powe	232C, you can select the 9th pin to RI (Input) in Supply). If you use the Digital's RS232C ase select it to VCC. Default	
Device-Specific Settings		
Allowable Number of Devices/PLCs	Add Device 16	
No. Device Name	Settings	Add Indirect Device
👗 1 🛛 PLC1	Series=FCD-13A,Unit No=1	\$

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	20ms or more
19200bps	20ms or more

· Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Individ	ual Device Sett	ings 🗙
PLC1		
Series	FCD-13A	•
Unit No	1 📫	
		Default
	OK (<u>D</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key 6 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

6. communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

3.8 Setting Example 8

Settings of GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Shink	o Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode	2 Change	
Communication Settings		
SIO Type	C RS232C RS422/485(2wire) C RS422/485(4wire)	
Speed	9600	
Data Length	• 7 • 8	
Parity	○ NONE	
Stop Bit	© 1 © 2	
Flow Control	NONE O ER(DTR/CTS) O XON/XOFF	
Timeout	3 📫 (sec)	
Retry	2 📫	
Wait To Send	20 📫 (ms)	
RI / VCC		
or VCC (5V Powe	232C, you can select the 9th pin to RI (Input) a Supply). If you use the Digital's RS232C	
Isolation Unit, plea	ase select it to VCC. Default	
Device-Specific Settings		
Allowable Number of Devices/PLCs	Add Device 16	
No. Device Name	Settings	Add Indirect Device
👗 1 PLC1	Series=FCD-15A,Unit No=1	+

IMPORTANT

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	20ms or more
19200bps	20ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Setti	ngs 🗙
PLC1		
Series	FCD-15A	•
Unit No	1 🚍	
		Default
	OK (<u>0</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key 5 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.9 Setting Example 9

Settings of GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Shinke	o Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode	2 Change	
Communication Settings		
- SIO Type	C RS232C	
Speed	9600	
Data Length	• 7 C 8	
Parity	O NONE O EVEN O ODD	
Stop Bit	• 1 • 2	
Flow Control	NONE O ER(DTR/CTS) O XON/XOFF	
Timeout	3	
Retry	2 📫	
Wait To Send	20 🛨 (ms)	
RI / VCC	© RI O VCC	
or VCC (5V Powe	232C, you can select the 9th pin to RI (Input) r Supply). If you use the Digital's RS232C ase select it to VCC. Default	1
Device-Specific Settings		-
Allowable Number of Devices/PLCs	Add Device	
No. Device Name	I6 Settings	Add Indirect Device
1 PLC1	Series=FCR-13A,Unit No=1	-

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	20ms or more
19200bps	20ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Setti	ngs 🗙
PLC1		
Series	FCR-13A	•
Unit No	1 📑	
		Default
	OK (<u>D</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key 6 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

6. communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

3.10 Setting Example 10

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1				
Summary				Change Device/PLC
Manufacturer Shinke	o Technos Co.,Ltd.	Series I	ndicating Controller SIO	Port COM1
Text Data Mode	2 Change			
Communication Settings				
SIO Type	C RS232C	RS422/485(2will)	ire) C RS422/485(4wire)	
Speed	9600	•		
Data Length	• 7	C 8		
Parity	C NONE	EVEN	O ODD	
Stop Bit	● 1	C 2		
Flow Control	NONE	C ER(DTR/CTS)	C XON/XOFF	
Timeout	3 ÷	(sec)		
Retry	2 +			
Wait To Send	20 🔹	(ms)		
RI / VCC	© BI	O VCC		
or VCC (5V Powe	232C, you can sele r Supply). If you us ase select it to VCC	ect the 9th pin to RI (In e the Digital's RS2320	put) C Default	
Device-Specific Settings				
Allowable Number of Devices/PLCs	Add 16	Device		
No. Device Name	Setting	8		Add Indirect Device
👗 1 🛛 PLC1	Series	=FCR-15A,Unit No=1		+

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	20ms or more
19200bps	20ms or more

· Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Individ	lual Device Setti	ngs 🗙
PLC1		
Series	FCR-15A	•
Unit No	1 📑	
		Default
	OK (<u>0</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key 5 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.11 Setting Example 11

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Shink	o Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode	2 Change	
Communication Settings		
SIO Type	C RS232C	
Speed	9600	
Data Length	• 7 • 8	
Parity	O NONE O EVEN O ODD	
Stop Bit		
Flow Control	NONE O ER(DTR/CTS) O XON/XOFF	
Timeout	3	
Retry	2 -	
Wait To Send	20 ÷ (ms)	
RI / VCC	© RI C VCC	
or VCC (5V Powe	232C, you can select the 9th pin to RI (Input) r Supply). If you use the Digital's RS232C see select it to VCC. Default]
Device-Specific Settings		
Allowable Number of Devices/PLCs	Add Device	
No. Device Name	Settings	Add Indirect Device
👗 1 PLC1	Series=FCR-23A,Unit No=1	4

IMPORTANT

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	20ms or more
19200bps	20ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Setti	ngs 🗙
PLC1		
Series	FCR-23A	•
Unit No	1 🗧	
		Default
	OK (<u>0</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key 6 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

6. communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

3.12 Setting Example 12

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1			
Summary			Change Device/PLC
Manufacturer Shinko Tecl	nos Co.,Ltd. Series	Indicating Controller SIO	Port COM1
Text Data Mode 2	<u>Change</u>		
Communication Settings			
-	RS232C C RS422/485(2	wire) C RS422/485(4wire)	
Speed 9	00 🔻	, , ,	
Data Length 📀			
- Parity O	NONE CEVEN	C ODD	
Stop Bit 📀	1 0 2		
Flow Control	NONE C ER(DTR/CTS) C XON/XOFF	
Timeout 3	(sec)		
Retry 2			
Wait To Send 2			
RI/VCC •			
	you can select the 9th pin to RI (loout)	
	ly). If you use the Digital's RS23	2Ċ	
		Default	
Device-Specific Settings			
Allowable Number of Devices/PLCs 16	Add Device		
No. Device Name	Settings		Add Indirect Device
👗 1 PLC1	Series=FIR-201-M,Unit No	=1	4

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	20ms or more
19200bps	20ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Individu	al Device Sett	ings 🗙
PLC1		
Series	FIR-201-M	•
Unit No	1 📑	
		Default
[OK (<u>D)</u>	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key twice.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.13 Setting Example 13

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1				
Summary				Change Device/PLC
Manufacturer Shinke	o Technos Co.,Ltd.	Series	Indicating Controller SIO	Port COM1
Text Data Mode	2 Change			
Communication Settings				
SIO Type	C RS232C	• R\$422/485(2w)	vire) 🔿 RS422/485(4wire)	
Speed	9600	-		
Data Length	7	0.8		
- Parity	C NONE	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	20 🕂	(ms)		
RI / VCC	© BI	C VCC		
		ct the 9th pin to RI (In	nput)	
or VCC (5V Powe Isolation Unit, plea	r Supply). If you us ase select it to VCC.	e the Digital's RS232	Ú Default	1
]
Device-Specific Settings Allowable Number		Device		
of Devices/PLCs	16			Add Indirect
No. Device Name	Settings			Device
👗 1 PLC1	Series=	FIR-201-M,Unit No=1	1	

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	20ms or more
19200bps	20ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Settings	×
PLC1		
Series	FIR-201-M	•
Unit No	1	
	De	fault
	OK (<u>0)</u> Cano	el

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key twice.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.14 Setting Example 14

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1				
Summary				Change Device/PLC
Manufacturer Shinke	o Technos Co.,Ltd.	Series II	ndicating Controller SIO	Port COM1
Text Data Mode	2 Change			
Communication Settings				
SIO Type	RS232C	C RS422/485(2wi	re) 🔿 RS422/485(4wire)	
Speed	9600	-		
Data Length	• 7	C 8		
Parity	O NONE	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	10 📫	(ms)		
RI / VCC	• BI	C VCC		
or VCC (5V Powe		ct the 9th pin to RI (Inp e the Digital's RS2320		
Device-Specific Settings				
Allowable Number of Devices/PLCs	Add 16	<u>Device</u>		
No. Device Name	Settings			Add Indirect Device
👗 1 🛛 PLC1	Series=	JIR-301-M,Unit No=1		

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	10ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Individ	dual Device Setting	s 🗙
PLC1		
Series	JIR-301-M	•
Unit No	1 🗧	
		Default
	OK (<u>D</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key twice.

4. Change to communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

5. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

6. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.15 Setting Example 15

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Shink	Technos Co.,Ltd. Series Indicating Control	ller SIO Port COM1
Text Data Mode	2 Change	
Communication Settings		
SIO Type	C RS232C @ RS422/485(2wire) C RS4	422/485(4wire)
Speed	9600 🔻	
Data Length	• 7 • 8	
Parity	O NONE O EVEN O ODD	
Stop Bit	• 1 • 2	
Flow Control	NONE O ER(DTR/CTS) O XON/XO	FF
Timeout	3 🗧 (sec)	
Retry	2 🛨	
Wait To Send	10 📑 (ms)	
RL/VCC		
In the case of RS	232C, you can select the 9th pin to RI (Input)	
	: Supply). If you use the Digital's RS232C ise select it to VCC.	Default
Device-Specific Settings		
Allowable Number	Add Device	
of Devices/PLCs	16	Add Indirect
No. Device Name	Settings	Device
3 PLC1	Series=JIR-301-M,Unit No=1	

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	10ms or more

· Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Settings	×
PLC1		
Series	JIR-301-M	•
Unit No	1	
	Defa	ult
	OK (<u>D</u>) Cance	

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key twice.

4. Change to communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

5. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

6. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.16 Setting Example 16

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1	
Summary	Change Device/PLC
Manufacturer Shinko Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode 2 Change	
Communication Settings	
SID Type	
Speed 9600 💌	
Data Length © 7 C 8	
Parity CINONE CIEVEN CIODD	
Stop Bit 1 C 2	
Flow Control © NONE C ER(DTR/CTS) C XON/XOFF	
Timeout 3 📑 (sec)	
Retry 2	
Wait To Send 170 📩 (ms)	
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (SV Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default]
Device-Specific Settings	
Allowable Number <u>Add Device</u> of Devices/PLCs 16	
No. Device Name Settings	Add Indirect Device
I PLC1 Series=GCS-300,Unit No=1	4

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	180ms or more (When using the IF-300-C5.) 170ms or more (When using the IF-400.)
19200bps	200ms or more (When using the IF-300-C5.) 180ms or more (When using the IF-400.)

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] III To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

💰 Indivi	dual Device Sett	ings 🗙
PLC1		
Series	GCS-300	•
Unit No	1 🗮	
		Default
	OK (<u>D</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key 4 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.17 Setting Example 17

Settings of GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1				
Summary				Change Device/PLC
Manufacturer Shinka	o Technos Co.,Ltd.	Series II	ndicating Controller SIO	Port COM1
Text Data Mode	2 Change			
Communication Settings				
SIO Type	• RS232C	C RS422/485(2wi	re) 🔿 RS422/485(4wire)	
Speed	9600	•		
Data Length	• 7	0.8		
Parity	O NONE	EVEN	O ODD	
Stop Bit	• 1	C 2		
Flow Control	NONE	C ER(DTR/CTS)	C XON/XOFF	
Timeout	3 📫	(sec)		
Retry	2 📫			
Wait To Send	10 📫	(ms)		
RI / VCC	• BI	O VCC		
or VCC (5V Powe		ct the 9th pin to RI (Inp e the Digital's RS2320		
Device-Specific Settings				
Allowable Number of Devices/PLCs	Add	Device		
No. Device Name	Settings			Add Indirect Device
1 PLC1		- =JC*-13A,Unit No=1		4

IMPORTANT

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	10ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Settir	ngs 🗙
PLC1		
Series	JC*-13A	•
Unit No	1 🗮	
		Default
	OK (<u>0)</u>	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key 4 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed setting.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.18 Setting Example 18

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1			
Summary			Change Device/PLC
Manufacturer Shinko	Technos Co.,Ltd. Series Inc	dicating Controller SIO	Port COM1
Text Data Mode	2 Change		
Communication Settings			
SIO Type	C RS232C	e) C RS422/485(4wire)	
Speed	9600 💌		
Data Length	© 7 C 8		
Parity	C NONE . EVEN	O ODD	
Stop Bit	● 1 ○ 2		
Flow Control	NONE O ER(DTR/CTS)	C XON/XOFF	
Timeout	3 🕂 (sec)		
Retry	2 *		
Wait To Send	10 🔹 (ms)		
RI / VCC	© RI O VCC		
	32C, you can select the 9th pin to RI (Inp. Supply), If you use the Digital's RS232C e select it to VCC.	ut) Default	
Device-Specific Settings			
Allowable Number of Devices/PLCs	Add Device 16		
No. Device Name	Settings		Add Indirect Device
👗 1 PLC1	Series=JC*-13A,Unit No=1		•

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	10ms or more

· Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Sett	ines 🗙
PLC1		
Series	JC*-13A	•
Unit No	1 📫	
		Default
	OK (<u>D</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key 4 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed setting.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.19 Setting Example 19

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC1	
Summary	Change Device/PLC
Manufacturer Shinko Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode 2 Change	
Communication Settings	
SIO Type	4wire)
Speed 9600 🔻	
Data Length © 7 C 8	
Parity CINONE CIVEN CIODD	
Stop Bit 1 2	
Flow Control 📀 NONE C ER(DTR/CTS) C XON/XOFF	
Timeout 3 🐳 (sec)	
Retry 2	
Wait To Send 10 🕂 (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 <u>Add Device</u>	
of Devices/PLCs 16	Add Indirect
No. Device Name Settings No. Device Name Settings 1 PLC1 Image: Settings Setting Settings Settings Settings Setting Set	Device
1 PLC1 Series=JCS-23A,Unit No=1	4

IMPORTANT

٠

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	10ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Setti	ngs 🗙
PLC1		
Series	JCS-23A	•
Unit No	1 🗧	
		Default
	OK (<u>0</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key 4 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed setting.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.20 Setting Example 20

Settings of GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Shinke	o Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode	2 Change	
Communication Settings		
SIO Type	C RS232C	
Speed	9600 🔻	
Data Length	• 7 • 8	
Parity	O NONE O EVEN O ODD	
Stop Bit	• 1 • 2	
Flow Control	NONE O ER(DTR/CTS) O XON/XOFF	
Timeout	3	
Retry	2 *	
Wait To Send	10 (ms)	
RI / VCC	O BL O VCC	
or VCC (5V Powe	232C, you can select the 9th pin to RI (Input) rr Supply). If you use the Digital's RS232C ase select it to VCC, Default	
Device-Specific Settings		
Allowable Number of Devices/PLCs	Add Device	
No. Device Name	Settings	Add Indirect Device
J PLC1	Series=JCS-23A,Unit No=1	

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	10ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Setti	nes 🗙
PLC1		
Series	JCS-23A	•
Unit No	1 🗧	
		Default
	OK (<u>0</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key 4 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed setting.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.21 Setting Example 21

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1	
Summary	Change Device/PLC
Manufacturer Shinko Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode 2 Change	
Communication Settings	
SID Type • RS232C • RS422/485(2wire) • RS422/485(4wire)	
Speed 9600 💌	
Data Length © 7 C 8	
Parity CINONE CIEVEN CIODD	
Stop Bit	
Flow Control © NONE C ER(DTR/CTS) C XON/XOFF	
Timeout 3 💼 (sec)	
Retry 2	
Wait To Send 10 👘 (ms)	
RI/VCC RI VCC	
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default	
Device-Specific Settings	
Allowable Number <u>Add Device</u>	
of Devices/PLCs 16 No. Device Name Settings	Add Indirect
I PLC1 Imm Series=JCS R D M-33A,Unit No=1	Device

IMPORTANT

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	10ms or more (In the cases of except JCS-33A.) 15ms or more (In the case of JCS-33A.)

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Settings 🛛 🗙
PLC1	
Series	JCS R D M-33A
Unit No	1 📩
	Default
	OK (<u>O)</u> Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key.

4. Change to communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

5. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

6. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.22 Setting Example 22

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1	
Summary	Change Device/PLC
Manufacturer Shinko Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode 2 Change	
Communication Settings	
SIO Type C RS232C RS422/485(2wire) C RS422/485(4wire)	vire)
Speed 9600 💌	
Data Length	
Parity C NONE C EVEN C ODD	
Stop Bit 1 2 	
Flow Control © NONE C ER(DTR/CTS) C XON/XOFF	
Timeout 3 💼 (sec)	
Retry 2	
Wait To Send 10 🛨 (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	
	fault
Device-Specific Settings	
Allowable Number <u>Add Device</u> of Devices/PLCs 16	
No. Device Name Settings	Add Indirect Device
1 PLC1 Series=JCS R D M-33A,Unit No=1	4

IMPORTANT

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	10ms or more (In the cases of except JCS-33A.) 15ms or more (In the case of JCS-33A.)

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Settings 🛛 🗙
PLC1	
Series	JCS R D M-33A
Unit No	1 📩
	Default
	OK (<u>O)</u> Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key.

4. Change to communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

5. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

6. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.23 Setting Example 23

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1				
Summary				Change Device/PLC
Manufacturer Shinke	o Technos Co.,Ltd.	Series I	ndicating Controller SIO	Port COM1
Text Data Mode	2 Change			
Communication Settings				
SIO Type	RS232C	C RS422/485(2wi	re) C RS422/485(4wire)	
Speed	9600	-		
Data Length	7	0.8		
Parity	C NONE	EVEN	O ODD	
Stop Bit	I 1	O 2		
Flow Control	NONE	C ER(DTR/CTS)	C XON/XOFF	
Timeout	3 📫	(sec)		
Retry	2 📫			
Wait To Send	10 📫	(ms)		
RI / VCC	RI	O VCC		
or VCC (5V Powe		ct the 9th pin to RI (In e the Digital's RS2320		
Device-Specific Settings				
Allowable Number of Devices/PLCs	<u>Add</u>	<u>Device</u>		
No. Device Name	Settings			Add Indirect Device
👗 1 PLC1	Series=	=JCL-33A,Unit No=1		+

IMPORTANT

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	10ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Individ	lual Device Setti	ings 🗙
PLC1		
Series	JCL-33A	•
Unit No	1 📫	
		Default
	OK (<u>D</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key.

4. Change to communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

5. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

6. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.24 Setting Example 24

Settings of GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1				
Summary				Change Device/PLC
Manufacturer Shink	o Technos Co.,Ltd.	Series In	dicating Controller SIO	Port COM1
Text Data Mode	2 Change			
Communication Settings				
SIO Type	C RS232C	RS422/485(2wire)	e) C RS422/485(4wire)	
Speed	9600	T		
Data Length	• 7	0.8		
Parity	C NONE	EVEN	C ODD	
Stop Bit	⊙ 1	C 2		
Flow Control	C NONE	C ER(DTR/CTS)	C XON/XOFF	
Timeout	3 📫 (se	ec)		
Retry	2 📫			
Wait To Send	10 🕂 (ms	s)		
RI / VCC	© BI	C VCC		
or VCC (5V Powe	232C, you can select I r Supply), If you use t ase select it to VCC,		ut) Default	
Device-Specific Settings				
Allowable Number of Devices/PLCs	Add De	evice		
No. Device Name	Settings			Add Indirect Device
1 PLC1		CL-33A,Unit No=1		*

IMPORTANT

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	10ms or more

· Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Individ	dual Device Setti	ings 🗙
PLC1		
Series	JCL-33A	-
Unit No	1 📫	
		Default
	OK (<u>D</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key.

4. Change to communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

5. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

6. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.25 Setting Example 25

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1	
Summary	Change Device/PLC
Manufacturer Shinko Technos Co.,Ltd. Series Indicating Controller SID	Port COM1
Text Data Mode 2 Change	
Communication Settings	
SID Type	
Speed 9600 🔻	
Data Length © 7 C 8	
Parity CINONE CIEVEN CIODD	
Stop Bit © 1 © 2	
Flow Control © NONE C ER(DTR/CTS) C XON/XOFF	
Timeout 3 📫 (sec)	
Retry 2	
Wait To Send 2 👘 (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 <u>Add Device</u>	
of Devices/PLCs 16 No. Device Name Settings	Add Indirect
1 PLC1 Series=ACS-13A,Unit No=1	Device
	.

IMPORTANT

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	2ms or more
19200bps	This speed can not be used.

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Setti	ngs 🗙
PLC1		
Series	ACS-13A	•
Unit No	1 🗦	
		Default
	OK (<u>D)</u>	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode (setting value lock setting).

Press the mode key twice.

4. Change to communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

5. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

6. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.26 Setting Example 26

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1					
Summary					Change Device/PLC
Manufacturer Shinke	Technos Co.,Ltd.	Series Inc	dicating Controller SIO	Port	COM1
Text Data Mode	2 Change				
Communication Settings					
SIO Type	C RS232C • F	RS 422/485(2wire) C RS422/485(4wire	e)	
Speed	9600	-			
Data Length	07 01	3			
Parity	C NONE C I	EVEN	O ODD		
Stop Bit	• 1	2			
Flow Control	C NONE C E	ER(DTR/CTS)	C XON/XOFF		
Timeout	3 📫 (sec)				
Retry	2 ÷				
Wait To Send	2 📫 (ms)				
RI / VCC	© BL O				
	32C, you can select the s		ıt]		
	Supply). If you use the E se select it to VCC.)igital's RS232C	Defa	ult	
Device-Specific Settings					
Allowable Number	Add Device	2			
of Devices/PLCs	16				Indirect
No. Device Name	Settings	24.11-2.81-1		Dev	rice
1 PLC1	Series=ACS-1	3A,UNICNO=1			*

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	2ms or more
19200bps	This speed can not be used.

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Individ	lual Device Setti	ings 🗙
PLC1		
Series	ACS-13A	•
Unit No	1 📫	
		Default
	OK (<u>D</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode (setting value lock setting).

Press the mode key twice.

4. Change to communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

5. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

6. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.27 Setting Example 27

Settings of GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1	
Summary	Change Device/PLC
Manufacturer Shinko Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode 2 Change	
Communication Settings	
SID Type • RS232C • RS422/485(2wire) • RS422/485(4wire)	
Speed 9600 V	
Data Length © 7 © 8	
Parity CINONE © EVEN CIODD	
Stop Bit	
Flow Control © NONE © ER(DTR/CTS) © XON/XOFF	
Timeout 3 📫 (sec)	
Retry 2	
Wait To Send 10 🗘 (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	
Device-Specific Settings	
Allowable Number <u>Add Device</u> of Devices/PLCs 16	
No. Device Name Settings	Add Indirect Device
1 PLC1 Im Series=NCL-13A,Unit No=1	*

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	50ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Setti	nes 🗙
PLC1		
Series	NCL-13A	•
Unit No	1 🗮	
		Default
	OK (<u>0</u>)	Cancel

Use the rotary switch for instrument number setting and DIP switch for selecting communication speed and communication protocol in the External Device for communication settings of the External Device. Please refer to the manual of the External Device for more details.

♦ Setup Items

Rotary switch for instrument number setting

Rotary switch	Settings	Setup Description
×10	0	Instrument number setting: 0 to 94
×1	1	instanten number seamg. 0 to 74

• DIP switch for selecting communication speed and communication protocol

DIP switch	Settings	Setup Description
SW1	OFF	Communication speed: 9600bps
SW2	OFF	Communication speed. 90000ps
SW3	OFF	Digital output setting: Shinko Technos standard protocol
SW4	OFF	Start bit: 1, Data length: 7 Stop bit: 1, Parity bit: Even

3.28 Setting Example 28

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Shinke	o Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode	2 Change	
Communication Settings		
SIO Type	C RS232C	
Speed	9600	
Data Length	• 7 • 8	
Parity	O NONE O 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	10 📩 (ms)	
RI / VCC	© RI O VCC	
or VCC (5V Powe	232C, you can select the 9th pin to RI [Input] er Supply]. If you use the Digital's RS232C ase select it to VCC. Default	1
Device-Specific Settings		
Allowable Number of Devices/PLCs	Add Device	
No. Device Name	Settings	Add Indirect Device
👗 1 PLC1	Series=NCL-13A,Unit No=1	•

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	50ms or more

Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Settings	×
PLC1		
Series	NCL-13A	•
Unit No	1	
	Defaul	t
	OK (<u>D</u>) Cancel	

Use the rotary switch for instrument number setting and DIP switch for selecting communication speed and communication protocol in the External Device for communication settings of the External Device. Please refer to the manual of the External Device for more details.

♦ Setup Items

Rotary switch for instrument number setting

Rotary switch	Settings	Setup Description
×10	0	Instrument number setting: 0 to 94
×1	1	instanten number seamg. 0 to 74

• DIP switch for selecting communication speed and communication protocol

DIP switch	Settings	Setup Description	
SW1	OFF	Communication speed: 9600bps	
SW2	OFF	Communication speed. 90000ps	
SW3	OFF	Digital output setting: Shinko Technos standard protocol Start bit: 1, Data length: 7 Stop bit: 1, Parity bit: Even	
SW4	OFF		

3.29 Setting Example 29

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Shinko	o Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode	2 Change	
Communication Settings		
SIO Type	• RS232C	
Speed	9600 💌	
Data Length	© 7 C 8	
Parity	O NONE O EVEN O ODD	
Stop Bit	• 1 • C 2	
Flow Control	NONE O ER(DTR/CTS) O XON/XOFF	
Timeout	3	
Retry	2 -	
Wait To Send	10 🛨 (ms)	
RI / VCC	RI VCC	
or VCC (5V Powe	232C, you can select the 9th pin to RI (Input) r Supply). If you use the Digital's RS232C see select it to VCC. Default	
Device-Specific Settings		
Allowable Number of Devices/PLCs	Add Device	
No. Device Name	Settings	Add Indirect Device
I PLC1	Series=DCL-33A,Unit No=1	*

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	10ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Sett	ings 🗙
PLC1		
Series	DCL-33A	•
Unit No	1 🚍	
		Default
	OK (<u>0</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key twice.

4. Change to communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

5. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

6. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.30 Setting Example 30

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1	
Summary	Change Device/PLC
Manufacturer Shinko Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode 2 Change	
Communication Settings	
SID Type C RS232C RS422/485(2wire) C RS422/485(4wire)	
Speed 9600 💌	
Data Length • 7 C 8	
Parity CINONE CIEVEN CIOD	
Stop Bit	
Flow Control © NONE C ER(DTR/CTS) C XON/XOFF	
Timeout 3 📫 (sec)	
Retry 2	
Wait To Send 10 👘 (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 Number Add Device	
of Devices/PLCs 16	Add Indirect
No. Device Name Settings	Device
3 PLC1 Series=DCL-33A,Unit No=1	+

IMPORTANT

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	10ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Individ	ual Device Sett	ines 🗙
PLC1		
Series	DCL-33A	•
Unit No	1 📫	
		Default
	OK (<u>D</u>)	Cancel

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (setting value lock setting).

Press the mode key twice.

4. Change to communication protocol selection.

Set to "NOML" (Shinko Technos standard protocol) with the down key or the up key, and press the mode key.

5. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

6. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

3.31 Setting Example 31

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1	
Summary	Change Device/PLC
Manufacturer Shinko Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode 2 Change	
Communication Settings	
SID Type	
Speed 9600 🔻	
Data Length	
Parity CINONE CIVEN CIDD	
Stop Bit	
Flow Control © NONE © ER(DTR/CTS) © XON/XOFF	
Timeout 3 (sec)	
Retry 2	
Wait To Send 55 🚔 (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	1
Device-Specific Settings	
Allowable Number <u>Add Device</u>	
of Devices/PLCs 16 No. Device Name Settings	Add Indirect
No. Device Name Settings 1 PLC1 Series=FCL-13A,Unit No=1	Device
	

IMPORTANT

The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	55ms or more
19200bps	This speed can not be used.

Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

💰 Indivi	dual Device Setti	ings 🗙
PLC1		
Series	FCL-13A	-
Unit No	1 🗧	
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (PV/SV display change).

Press the mode key 5 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

Completion of setting

3.32 Setting Example 32

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Shinki	o Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode	2 Change	
Communication Settings		
SIO Type	C RS232C RS422/485(2wire) C RS422/485(4wire)	
Speed	9600 💌	
Data Length	© 7 C 8	
Parity	O 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	55 * (ms)	
RI / VCC	© BL C VCC	
or VCC (5V Powe	232C, you can select the 9th pin to RI (Input) r Supply]. If you use the Digital's RS232C see select it to VCC. Default	
Device-Specific Settings		
Allowable Number of Devices/PLCs	Add Device	
No. Device Name	Settings	Add Indirect Device
👗 1 PLC1	Series=FCL-13A,Unit No=1	4

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	55ms or more
19200bps	This speed can not be used.

· Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

💰 Indivi	idual Device Sett	ines 🗙
PLC1		
Series	FCL-13A	•
Unit No	1 📫	
		Default
	OK (<u>0</u>)	Cancel

Settings of External Device

Use the mode key, down key and up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to PV/SV display mode.

Press the down key and the mode key for about 3 seconds.

3. Change to auxiliary function setting mode 1 (PV/SV display change).

Press the mode key 5 times.

4. Change to instrument number setting.

Set to "1" with the down key or the up key, and press the mode key.

5. Change to communication speed selection.

Set to "96" (9600bps) with the down key or the up key, and press the mode key.

Completion of setting

3.33 Setting Example 33

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1	
Summary	Change Device/PLC
Manufacturer Shinko Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode 2 Change	
Communication Settings	
SID Type	
Speed 9600 V	
Data Length © 7 © 8	
Parity CINONE CIEVEN CIODD	
Stop Bit © 1 © 2	
Flow Control © NONE C ER(DTR/CTS) C XON/XOFF	
Timeout 3 * (sec)	
Retry 2	
Wait To Send 30 🕂 (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 VLL. Default	
Device-Specific Settings	
Allowable Number <u>Add Device</u> of Devices/PLCs 16	
No. Device Name Settings	Add Indirect Device
1 PLC1 Series=PC-900,Unit No=1	

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	30ms or more
19200bps	30ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

💰 Indivi	dual Device Settings	×
PLC1		
Series	PC-900	-
Unit No	1 🗦	
	Def	ault
	OK (<u>D</u>) Cance	el

Settings of External Device

Use the set/reset key, stop/mode key, hold/entry key, advance/down key and pattern/up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to program control execution mode.

Press the set/reset key.

3. Change to pattern setting mode.

Press the stop/mode key 4 times.

4. Change to auxiliary function setting mode.

Press the hold/entry key.

5. Change to alarm parameter.

Press the stop/mode key 4 times.

6. Change to communication parameter.

Press the hold/entry key.

7. Change to communication speed selection.

Set to "96" (9600bps) with the advance/down key or the pattern/up key, and press the hold/entry key.

8. Change to instrument number setting.

Set to "1" with the advance/down key or the pattern/up key, and press the hold/entry key.

9. Change to communication type selection.

Set to "NOML" (serial communication) with the advance/down key or the pattern/up key, and press the hold/entry key.

Completion of setting

3.34 Setting Example 34

Settings of GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC1	
Summary	Change Device/PLC
Manufacturer Shinko Technos Co.,Ltd. Series Indi	cating Controller SIO Port COM1
Text Data Mode 2 Change	
Communication Settings	
SIO Type C RS232C RS422/485(2wire)	C RS422/485(4wire)
Speed 9600 🔻	
Data Length O 7	
Parity O NONE O EVEN	C ODD
Stop Bit	
Flow Control © NONE C ER(DTR/CTS)	C XON/XOFF
Timeout 3 📫 (sec)	
Retry 2	
Wait To Send 🛛 😗 👘 (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 <u>Add Device</u>	
of Devices/PLCs 16	Add Indirect
No. Device Name Settings	Device
1 PLC1 Series=PC-900,Unit No=1	

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	30ms or more
19200bps	30ms or more

· Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

💰 Individ	ual Device Setti	ngs 🗙
PLC1		
Series	PC-900	•
Unit No	1 🗮	
		Default
	OK (<u>0</u>)	Cancel

Settings of External Device

Use the set/reset key, stop/mode key, hold/entry key, advance/down key and pattern/up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to program control execution mode.

Press the set/reset key.

3. Change to pattern setting mode.

Press the stop/mode key 4 times.

4. Change to auxiliary function setting mode.

Press the hold/entry key.

5. Change to alarm parameter.

Press the stop/mode key 4 times.

6. Change to communication parameter.

Press the hold/entry key.

7. Change to communication speed selection.

Set to "96" (9600bps) with the advance/down key or the pattern/up key, and press the hold/entry key.

8. Change to instrument number setting.

Set to "1" with the advance/down key or the pattern/up key, and press the hold/entry key.

9. Change to communication type selection.

Set to "NOML" (serial communication) with the advance/down key or the pattern/up key, and press the hold/entry key.

Completion of setting

3.35 Setting Example 35

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1				
Summary				Change Device/PLC
Manufacturer Shink	o Technos Co.,Ltd.	Series II	ndicating Controller SIO	Port COM1
Text Data Mode	2 <u>Change</u>			
Communication Settings				
SIO Type	RS232C	C RS422/485(2wi	re) C RS422/485(4wire)	
Speed	9600	•		
Data Length	• 7	0.8		
Parity	C NONE	EVEN	C ODD	
Stop Bit	© 1	C 2		
Flow Control	O NONE	C ER(DTR/CTS)	C XON/XOFF	
Timeout	3 ÷	(sec)		
Retry	2 +			
Wait To Send	10 🗧	(ms)		
RI / VCC	⊙ BI	O VCC		
		ct the 9th pin to RI (Ing		
Isolation Unit, plea	ase select it to VCC	e the Digital's RS2320	, Default	
Device-Specific Settings				
Allowable Number		Device		
of Devices/PLCs No. Device Name	16 Setting:			Add Indirect Device
X 1 PLC1		s =PCD-33A,Unit No=1		Device
	Hall Joonse			<u> </u>

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	10ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

💰 Individ	lual Device Sett	ings 🗙
PLC1		
Series	PCD-33A	•
Unit No	1 📫	
		Default
	ОК (0)	Cancel

Settings of External Device

Use the set/reset key, stop/mode key, hold/entry key, advance/down key and pattern/up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to program control execution mode.

Press the set/reset key.

3. Change to pattern setting mode.

Press the stop/mode key 4 times.

4. Change to auxiliary function setting mode.

Press the hold/entry key.

5. Change to alarm parameter.

Press the stop/mode key 4 times.

6. Change to communication parameter.

Press the hold/entry key.

7. Change to communication speed selection.

Set to "96" (9600bps) with the advance/down key or the pattern/up key, and press the hold/entry key.

8. Change to instrument number setting.

Set to "1" with the advance/down key or the pattern/up key, and press the hold/entry key.

9. Change to communication type selection.

Set to "NOML" (serial communication) with the advance/down key or the pattern/up key, and press the hold/entry key.

Completion of setting

3.36 Setting Example 36

- Settings of GP-Pro EX
- Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Shink	o Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode	2 Change	
Communication Settings		
SIO Type	C RS232C RS422/485(2wire) C RS422/485(4wire)	
Speed	9600	
Data Length	• 7 • 8	
Parity	C NONE C EVEN C ODD	
Stop Bit	© 1 C 2	
Flow Control	NONE O ER(DTR/CTS) O XON/XOFF	
Timeout	3 (sec)	
Retry	2 🕂	
Wait To Send	10 📫 (ms)	
RI / VCC	C RI C VCC	
or VCC (5V Powe	232C, you can select the 9th pin to RI (Input) er Supply). If you use the Digital's RS232C ase select it to VCC. Default	[
Device-Specific Settings		
Allowable Number of Devices/PLCs	Add Device	
No. Device Name	16 Settings	Add Indirect Device
1 PLC1	Series=PCD-33A,Unit No=1	

IMPORTANT

• The setting value of the weight to send is different by the speed. Please set up as follows.

Speed	Setting value
9600bps	10ms or more
19200bps	10ms or more

• Set Retry to 2 times or more.

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

💰 Individ	dual Device Settir	ngs 🗙
PLC1		
Series	PCD-33A	•
Unit No	1 🗮	
		Default
	OK (<u>0)</u>	Cancel

Settings of External Device

Use the set/reset key, stop/mode key, hold/entry key, advance/down key and pattern/up key in front of the External Device for communication settings of the External Device.

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

1. Turn ON the power supply.

2. Change to program control execution mode.

Press the set/reset key.

3. Change to pattern setting mode.

Press the stop/mode key 4 times.

4. Change to auxiliary function setting mode.

Press the hold/entry key.

5. Change to alarm parameter.

Press the stop/mode key 4 times.

6. Change to communication parameter.

Press the hold/entry key.

7. Change to communication speed selection.

Set to "96" (9600bps) with the advance/down key or the pattern/up key, and press the hold/entry key.

8. Change to instrument number setting.

Set to "1" with the advance/down key or the pattern/up key, and press the hold/entry key.

9. Change to communication type selection.

Set to "NOML" (serial communication) with the advance/down key or the pattern/up key, and press the hold/entry key.

Completion of setting

4 Setup Items

Set communication settings of the Display with GP-Pro EX or in offline mode of the Display.

The setting of each parameter must be identical to that of External Device.

"3 Example of Communication Setting" (page 12)

4.1 Setup Items in GP-Pro EX

Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer Shinko	Technos Co.,Ltd. Series Indicating Controller SIO	Port COM1
Text Data Mode	2 Change	
Communication Settings		
SIO Type	C RS232C C RS422/485(2wire)	
Speed	9600	
Data Length	© 7 C 8	
Parity	O NONE O EVEN O ODD	
Stop Bit	• 1 • 2	
Flow Control	NONE O ER(DTR/CTS) O XON/XOFF	
Timeout	3 <u>+</u> (sec)	
Retry	2 -	
Wait To Send	2 📫 (ms)	
RI / VCC	© RI C VCC	
	32C, you can select the 9th pin to RI (Input) Supply). If you use the Digital's RS232C e select it to VCC. Default	
Device-Specific Settings		
Allowable Number of Devices/PLCs	Add Device	
No. Device Name	Settings	Add Indirect Device
👗 1 PLC1	Series=CPT-20A,Unit No=1	*

Setup Items	Setup Description
SIO Type	Select the SIO type to communicate with the External Device.
Speed	Select speed between the External Device and the Display.
Data Length	Select data length.
Parity	Select how to check parity.
Stop Bit	Select stop bit length.
Flow Control	Display the communication control method to prevent overflow of transmission and reception data.
Timeout	Use an integer from 1 to 127 to enter the time (s) for which the Display waits for the response from the External Device.
Retry	In case of no response from the External Device, use an integer from 0 to 255 to enter how many times the Display retransmits the command.

Continues to the next page.

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

NOTE

Refer to the GP-Pro EX Reference Manual for Indirect Device.
 Cf. GP-Pro EX Reference Manual "Changing the Device/PLC at Runtime (Indirect Device)"

Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

💰 Indivi	dual	Device	Sett	ines 🗙
PLC1				
Series		FCD-1	3A	-
Unit No		1	÷	
				Default
		OK (<u>O</u>)		Cancel

Setup Items	Setup Description	
Series	Select the External Device series.	
Unit No	Use an integer from 0 to 94 to enter the Unit No. of the External Device.	

4.2 Setup Items in Offline Mode

NOTE

• Refer to the Maintenance/Troubleshooting guide for information on how to enter offline mode or about the operation.

- Cf. Maintenance/Troubleshooting Guide "Offline Mode"
- The number of the setup items to be displayed for 1 page in the offline mode depends on the Display in use. Please refer to the Reference manual for details.

Communication Settings

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

Comm.	Device	Option	-	
Indicating Cont	roller 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(4wire)	ODD
	Exit		Back	2007/02/08 00:30:10

Setup Items	Setup Description
SIO Type	Select the SIO type to communicate with the External Device. IMPORTANT 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.

Continues to the next page.

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

Device Settings

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		
Indicating Cont	roller SIO		[COM1]	Page 1/1
Devic	e/PLC Name PL	01		•
	Series	NCS-13A		
	Unit No.		1 🔻 🔺]
	Exit		Back	2007/02/08 00:30:13

Setup Items	Setup Description	
Device/PLC name	Select the External Device to set. Device name is a title of the External Device set with GP- Pro EX. (Initial value [PLC1])	
Unit No.	Enter the unit No. (0 to 94) of the External Device.	

Option

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

Comm.	Device	Option		
Indicating Cont	nollon SIO		[COM1]	
Indicating Cont	RI / VCC In the case the 9th pin Power Suppl	• RI e of RS232C, you i to RI(Input) or y). If you use th ation Unit, plea	can select • VCC(5V me Digital's	Page 1/1
	Exit		Back	2007/02/08 00:30:18

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.		

NOTE

• GP-4100 series do not have the [Option] setting in the offline mode.

5 Cable Diagram

The cable diagram shown below may be different from the cable diagram recommended by Shinko Technos Co.,Ltd. Please be assured there is no operational problem in applying the cable diagram shown in this manual.

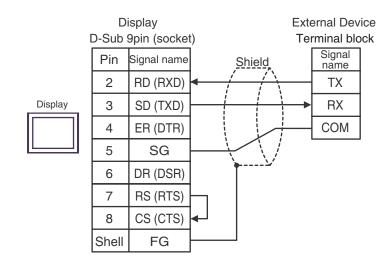
- The FG pin of the External Device body must be D-class grounded. Please refer to the manual of the External Device for more details.
- SG and FG are connected inside the Display. When connecting SG to the External Device, design the system not to form short-circuit loop.
- Connect the isolation unit, when communication is not stabilized under the influence of a noise etc..

Display (Connection Port)	Cable		Notes
GP3000 (COM1) GP4000 ^{*1} (COM1) ST (COM1) LT (COM1) IPC ^{*2} PC/AT	1A	User-created cable	The cable length must be 15m or less.
GP-4105 (COM1)	1B	User-created cable	

Cable Diagram 1

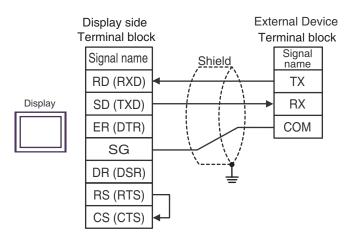
*1 All GP4000 models except GP-4100 Series, GP-4*01TM and GP-4203T

*2 Only the COM port which can communicate by RS-232C can be used.
 IPC COM Port" (page 9)



1B)

1A)



Cable Diagram 2

Display (Connection Port)	Cable		Notes
GP3000 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) LT (COM1)	2A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	
	2B	User-created cable	
GP3000 ^{*3} (COM2)	2C	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	
	2D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	The cable length must
IPC*4	2E	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	be 500m or less.
	2F	User-created cable	
GP-4106 (COM1)	2G	User-created cable	
GP-4107 (COM1) GP-4*03T ^{*5} (COM2) GP-4203T (COM1)	2H	User-created cable	
GP4000 ^{*6} (COM2) GP-4201T (COM1)	21	RS-422 Terminal Block Conversion Adapter by Pro-face PFXZCBADTM1 ^{*7} + User-created cable	
	2B	User-created cable	

*1 All GP3000 models except AGP-3302B

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

*3 All GP3000 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. ⁽²⁾ ■ IPC COM Port" (page 9)

*5 Except GP-4203T

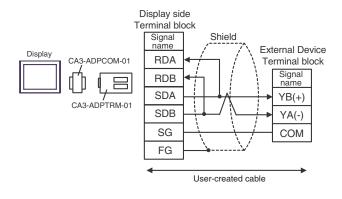
*6 All GP4000 models except GP-4100 Series, GP-4*01TM, GP-4201T and GP-4*03T

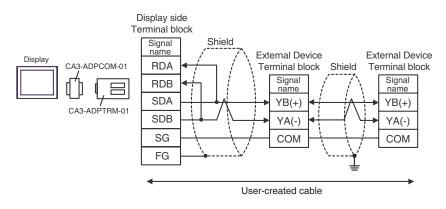
*7 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 2A.

NOTE	•	When connecting DCL-33A, CDM cable by Shinko Technos Co., Ltd. and terminal block can
		be used.
	•	When connecting NCL-13A, use terminal block (ATB-001-1) by Shinko Technos Co., Ltd.

2A)

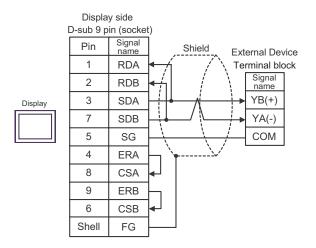
• 1:1 Connection

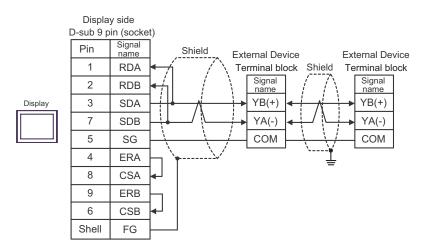




2B)

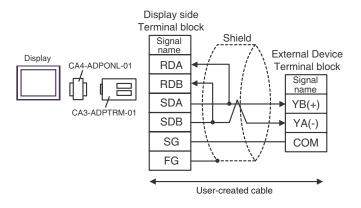
• 1:1 Connection

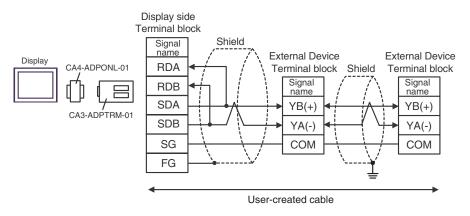




2C)

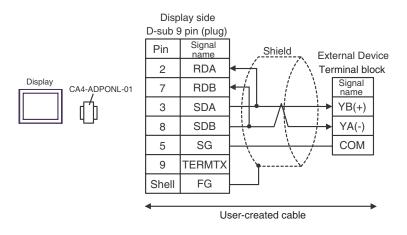
• 1:1 Connection

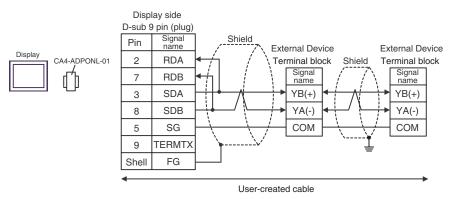




2D)

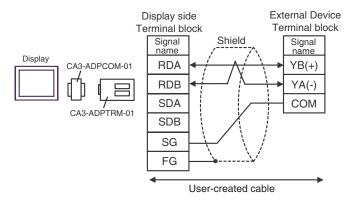
• 1:1 Connection

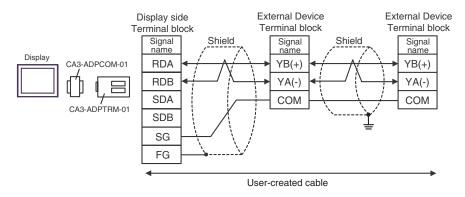




2E)

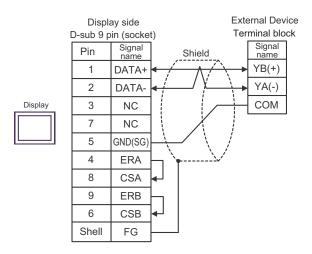
• 1:1 Connection

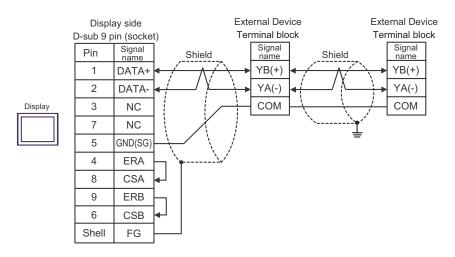




2F)

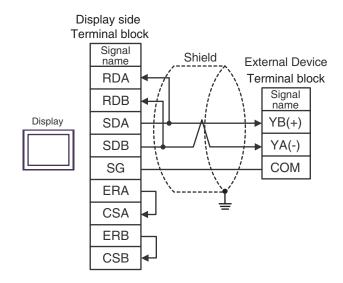
• 1:1 Connection

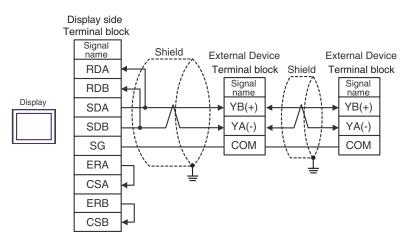




2G)

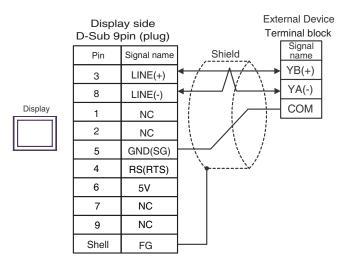
• 1:1 Connection



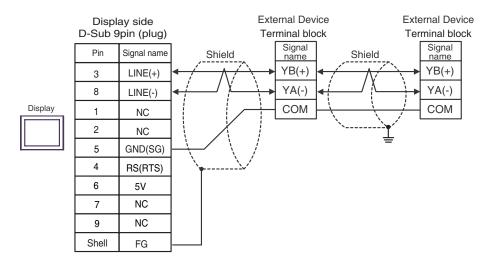


2H)

• 1:1 Connection



• 1:n Connection



IMPORTANT

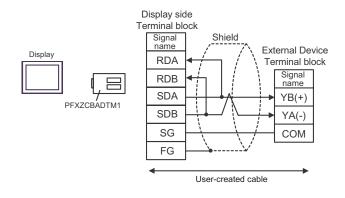
٠

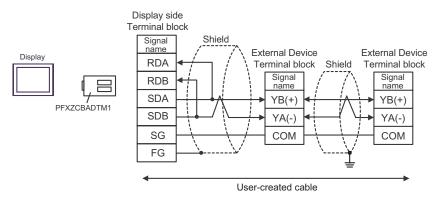
The 5V output (Pin #6) on the Display is the power for the Siemens AG's PROFIBUS connector. Do not use it for other devices.

• In COM on the GP-4107, the SG and FG terminals are isolated.

2I)

• 1:1 Connection





Cable Diagram 3

Display (Connection Port)		Cable	Notes
GP3000 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) LT (COM1) IPC ^{*3}	3A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable + Terminal block + CPM cable by Shinko Technos Co., Ltd.	
GP3000 ^{*4} (COM2)	3B	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable + Terminal block + CPM cable by Shinko Technos Co., Ltd.	 The cable length must be 1000m or less. The cable length can be extended at the 1m unit.
GP-4106 (COM1)	3C	User-created cable + Terminal block + CPM cable by Shinko Technos Co., Ltd.	
GP4000 ^{*5} (COM2) GP-4201T (COM1)	3D	RS-422 Terminal Block Conversion Adapter by Pro-face PFXZCBADTM1 ^{*6} + User-created cable + Terminal block + CPM cable by Shinko Technos Co., Ltd.	

*1 All GP3000 models except AGP-3302B

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

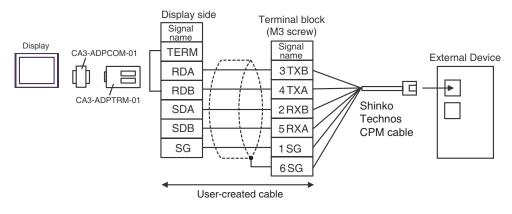
- *3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. ⁽³⁾ ■ IPC COM Port" (page 9)
- *4 All GP3000 models except GP-3200 series and AGP-3302B
- *5 All GP4000 models except GP-4100 Series, GP-4*01TM, GP-4201T and GP-4*03T
- *6 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 3A.

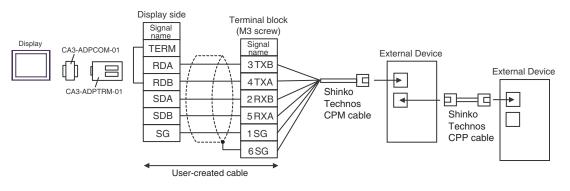
NOTE

- Turn on No.2 DIP switch to perform communication settings of the end External Device to the insert termination resistance (120Ω 1/2W).
- The names of poles A and B are inverted between the Display and the External Device.

3A)

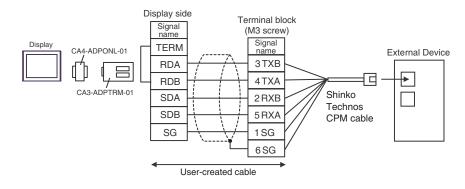
• 1:1 Connection

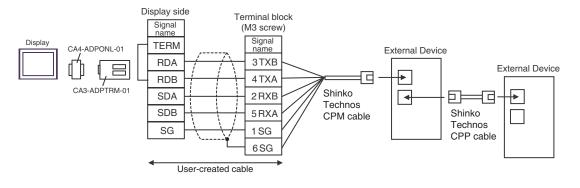




3B)

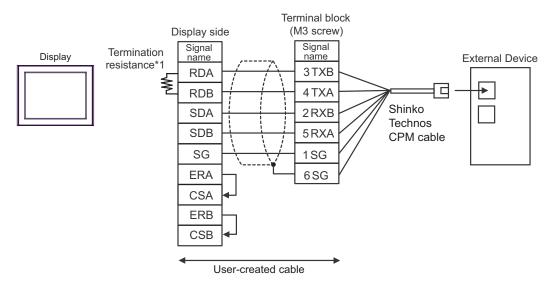
• 1:1 Connection



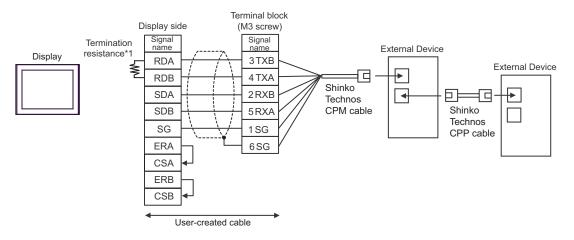


3C)

• 1:1 Connection



1:n Connection

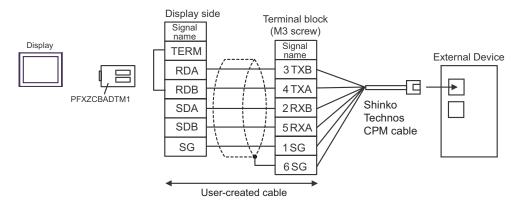


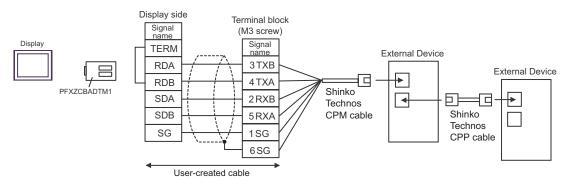
*1 The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

DIP Switch No.	Set Value
1	OFF
2	OFF
3	ON
4	ON

3D)

• 1:1 Connection





Cable Diagram 4

Display (Connection Port)	Cable		Notes
GP3000 (COM1) GP4000 ^{*1} (COM1) ST (COM1) LT (COM1) IPC ^{*2} PC/AT	4A	User-created cable + RS-232C↔ RS-485 converter (IF-300-C5) ^{*3} by Shinko Technos Co., Ltd.	 Between Display and IF-300-C5 Cable length :15m max. Between IF-300-C5 and
GP-4105 (COM1)	4B	User-created cable + RS-232C↔RS-485 converter (IF-300-C5) ^{*3} by Shinko Technos Co., Ltd.	Controller Cable length :1200m total

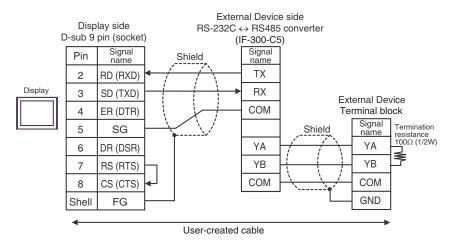
*1 All GP4000 models except GP-4100 Series, GP-4*01TM and GP-4203T

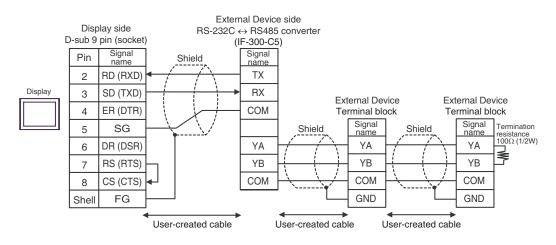
*3 When using an RS-232C↔RS-485 converter (IF-300-C5) by Shinko Technos Co., Ltd., set the RS-232C for the communication setting on the Display side. (RS-232C↔RS-485 commercial type converters are unusable.)

• Termination resistance (100 Ω) is built in the RS-232C \leftrightarrow RS-485 converter.

4A)

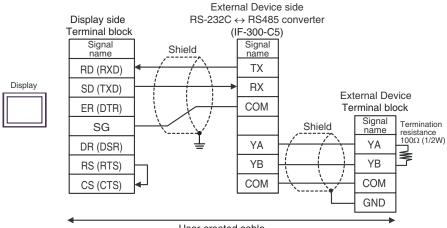
• 1:1 Connection



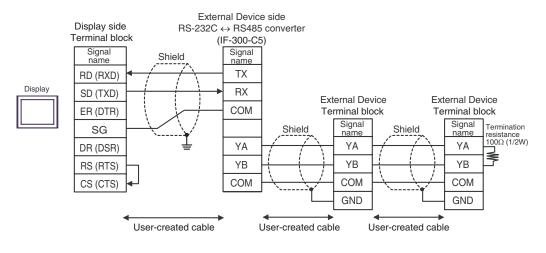


4B)

1:1 Connection



User-created cable



Cable Diagram 5

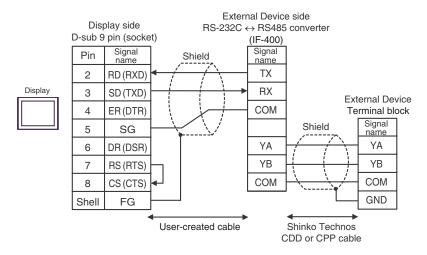
Display (Connection Port)		Cable	Notes
	5A	User-created cable + RS-232C↔RS-485 converter IF-400 (with DCL-33A) ^{*3} by Shinko Technos Co., Ltd.	
GP3000 (COM1) GP4000 ^{*1} (COM1) ST (COM1) LT (COM1) IPC ^{*2} PC/AT	5B	User-created cable + RS-232C↔RS-485 converter IF-400 (Controller of terminal block connection) by Shinko Technos Co., Ltd.	
5		User-created cable + RS-232C↔RS-485 converter IF-400 (Controller of screw plug connection) by Shinko Technos Co., Ltd.	 Between Display and IF-400 Cable length :15m max.
	User-created cable + 5D RS-232C↔RS-485 converter IF-400 (with DCL-33A) ^{*3} by Shinko Technos Co., Ltd.		• Between IF-400 and Controller Cable length :1200m total
GP-4105 (COM1)	5E	User-created cable + RS-232C↔RS-485 converter IF-400 (Controller of terminal block connection) by Shinko Technos Co., Ltd.	
	5F	User-created cable + RS-232C↔RS-485 converter IF-400 (Controller of screw plug connection) by Shinko Technos Co., Ltd.	

*1 All GP4000 models except GP-4100 Series, GP-4*01TM and GP-4203T

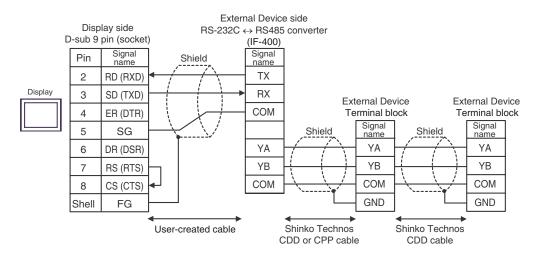
- *2 Only the COM port which can communicate by RS-232C can be used. ^(G) " ■ IPC COM Port" (page 9)
- *3 When using an RS-232C↔RS-485 converter (IF-400) by Shinko Technos Co., Ltd., set the RS-232C for the communication setting on the Display side. (RS-232C↔ RS-485 commercial type converters are unusable.)

5A)

• 1:1 Connection

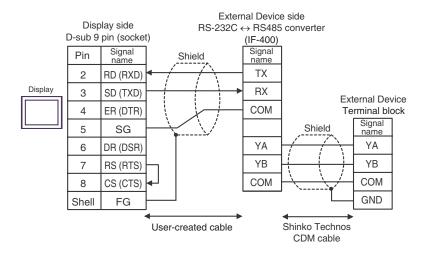


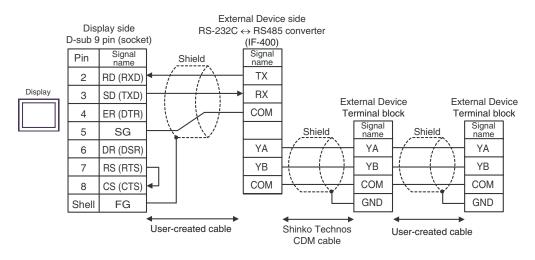
1:n Connection



5B)

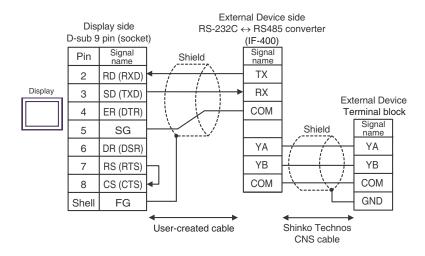
• 1:1 Connection

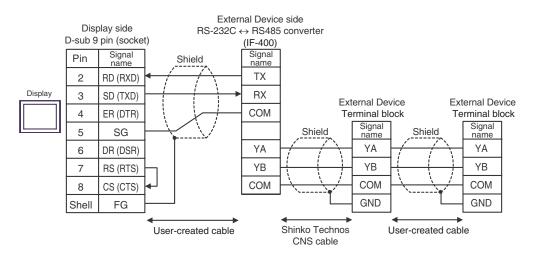




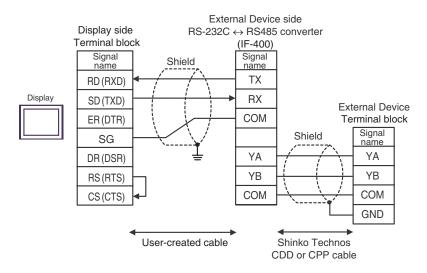
5C)

• 1:1 Connection

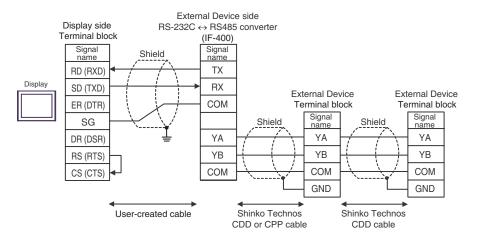




5D)

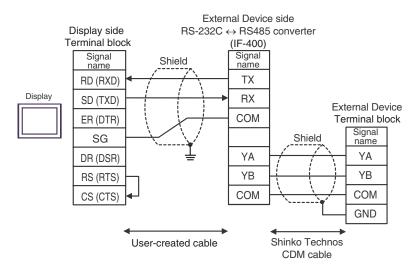


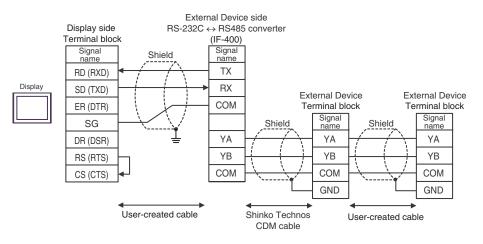
• 1:n Connection



5E)

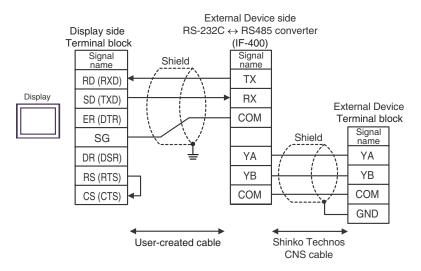
• 1:1 Connection

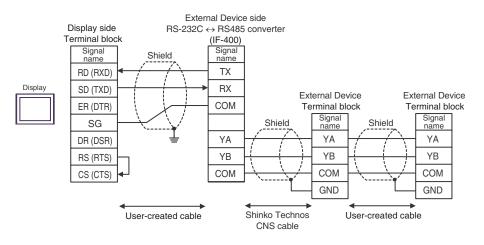




5F)

• 1:1 Connection





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 connecting equipment.

Enter the External Device address in the dialog below.



1. Address

2. Reference

Enter the address.

Available parameter list is displayed. Click the parameter to use and press "Select", then the address is entered. 6.1 C series

This address can be specified as system data area.

Device Bit Address Word Address 16 bits Notes Channel 1 1CH0001.0 - 1CH00A1.F 1CH0001 - 1CH00A1 *1 Channel 2 2CH001.0 - 2CH00A1.F 2CH0001 - 2CH00A1 *1 Channel 3 3CH0001.0 - 3CH00A1.F 3CH0001 - 4CH00A1 *1 Channel 4 4CH0001.0 - 4CH00A1.F 4CH0001 - 4CH00A1 *1 Channel 5 5CH0001.0 - 5CH00A1.F 5CH0001 - 5CH00A1 *1 Channel 6 6CH0001.0 - 6CH00A1.F 6CH0001 - 6CH00A1 *1 Channel 7 7CH0001.0 - 7CH00A1.F 7CH0001 - 7CH00A1 *1 Channel 8 8CH0001.0 - 8CH00A1.F 8CH0001 - 8CH00A1 *1 Channel 10 10CH0001.0 - 10CH00A1.F 10CH0001 - 10CH00A1 *1 Channel 10 10CH0001.0 - 10CH00A1.F 10CH0001 - 10CH00A1 *1 Channel 11 11CH0001.0 - 11CH00A1.F 12CH0001 - 12CH00A1 *1 Channel 12 12CH0001.0 - 13CH00A1.F 12CH0001 - 14CH00A1 *1 Channel 13 13CH0001.0 - 15CH00A1.F 13CH0001 - 15CH00A1 *1 Channel 14 1				•	•
Channel 1 ITCH0001.0 - ICH00A1.F ITCH0001 - ICH00A1 Channel 2 2CH0001.0 - 2CH00A1.F 2CH0001 - 2CH00A1 Channel 3 3CH0001.0 - 3CH00A1.F 3CH0001 - 3CH00A1 Channel 4 4CH0001.0 - 4CH00A1.F 4CH0001 - 4CH00A1 Channel 5 5CH0001.0 - 5CH00A1.F 5CH0001 - 5CH00A1 Channel 6 6CH0001.0 - 6CH00A1.F 6CH0001 - 6CH00A1 Channel 7 7CH0001.0 - 7CH00A1.F 7CH0001 - 7CH00A1 Channel 8 8CH0001.0 - 7CH00A1.F 7CH0001 - 9CH00A1 Channel 9 9CH0001.0 - 9CH00A1.F 9CH0001 - 9CH00A1 Channel 10 10CH0001.0 - 10CH00A1.F 10CH0001 - 10CH00A1 Channel 11 11CH0001.0 - 11CH00A1.F 11CH0001 - 11CH00A1 Channel 12 12CH0001.0 - 12CH00A1.F 12CH0001 - 13CH00A1 Channel 13 13CH0001.0 - 13CH00A1.F 13CH0001 - 14CH00A1 Channel 14 14CH0001.0 - 15CH00A1.F 15CH0001 - 15CH00A1 Channel 15 15CH0001.0 - 15CH00A1.F 13CH0001 - 14CH00A1 Channel 16 16CH0001.0 - 16CH00A1.F 16CH0001 - 16CH00A1 Channel 17 17CH0001.0 - 17CH00A1.F <	Device	Bit Address	Word Address	16 bits	Notes
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Channel 11 11CH0001.0 - 11CH00A1.F 11CH0001 - 11CH00A1 *1 Channel 12 12CH0001.0 - 12CH00A1.F 12CH0001 - 12CH00A1 *1 Channel 13 13CH0001.0 - 13CH00A1.F 13CH0001 - 13CH00A1 *1 Channel 14 14CH0001.0 - 14CH00A1.F 14CH0001 - 14CH00A1 *1 Channel 15 15CH0001.0 - 15CH00A1.F 15CH0001 - 15CH00A1 *1 Channel 16 16CH0001.0 - 16CH00A1.F 16CH0001 - 16CH00A1 *1 Channel 17 17CH0001.0 - 17CH00A1.F 17CH0001 - 17CH00A1 *1 Channel 18 18CH0001.0 - 18CH00A1.F 18CH0001 - 18CH00A1 *1 *1 *1 *1 *1	Channel 10	10CH0001.0 - 10CH00A1.F	10CH0001 - 10CH00A1	ыль	*1
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Channel 13 13CH0001.0 - 13CH00A1.F 13CH0001 - 13CH00A1 Channel 14 14CH0001.0 - 14CH00A1.F 14CH0001 - 14CH00A1 Channel 15 15CH0001.0 - 15CH00A1.F 15CH0001 - 15CH00A1 Channel 16 16CH0001.0 - 16CH00A1.F 16CH0001 - 16CH00A1 Channel 17 17CH0001.0 - 17CH00A1.F 17CH0001 - 17CH00A1 Channel 18 18CH0001.0 - 18CH00A1.F 18CH0001 - 18CH00A1 *1 *1 Channel 19 19CH0001.0 - 19CH00A1.F 19CH0001 - 19CH00A1	Channel 12	12CH0001.0 - 12CH00A1.F	12CH0001 - 12CH00A1		*1
Channel 14 14CH0001.0 - 14CH00A1.F 14CH0001 - 14CH00A1 Channel 15 15CH0001.0 - 15CH00A1.F 15CH0001 - 15CH00A1 Channel 16 16CH0001.0 - 16CH00A1.F 16CH0001 - 16CH00A1 Channel 17 17CH0001.0 - 17CH00A1.F 17CH0001 - 17CH00A1 Channel 18 18CH0001.0 - 18CH00A1.F 18CH0001 - 18CH00A1 *1 *1 Channel 19 19CH0001.0 - 19CH00A1.F	Channel 13	13CH0001.0 - 13CH00A1.F	13CH0001 - 13CH00A1		*1
Channel 15 15CH0001.0 - 15CH00A1.F 15CH0001 - 15CH00A1 *1 Channel 16 16CH0001.0 - 16CH00A1.F 16CH0001 - 16CH00A1 *1 Channel 17 17CH0001.0 - 17CH00A1.F 17CH0001 - 17CH00A1 *1 Channel 18 18CH0001.0 - 18CH00A1.F 18CH0001 - 18CH00A1 *1 Channel 19 19CH0001.0 - 19CH00A1.F 19CH0001 - 19CH00A1 *1	Channel 14	14CH0001.0 - 14CH00A1.F	14CH0001 - 14CH00A1		*1
Channel 16 16CH0001.0 - 16CH00A1.F 16CH0001 - 16CH00A1 Channel 17 17CH0001.0 - 17CH00A1.F 17CH0001 - 17CH00A1 *1 Channel 18 18CH0001.0 - 18CH00A1.F 18CH0001 - 18CH00A1 *1 Channel 19 19CH0001.0 - 19CH00A1.F 19CH0001 - 19CH00A1 *1	Channel 15	15CH0001.0 - 15CH00A1.F	15CH0001 - 15CH00A1		*1
Channel 17 17CH0001.0 - 17CH00A1.F 17CH0001 - 17CH00A1 Channel 18 18CH0001.0 - 18CH00A1.F 18CH0001 - 18CH00A1 Channel 19 19CH0001.0 - 19CH00A1.F 19CH0001 - 19CH00A1	Channel 16	16CH0001.0 - 16CH00A1.F	16CH0001 - 16CH00A1		*1
Channel 19 19CH0001.0 - 19CH00A1.F 18CH0001 - 18CH00A1 *1 *1 *1 *1	Channel 17	17CH0001.0 - 17CH00A1.F	17CH0001 - 17CH00A1		*1
Channel 19 19CH0001.0 - 19CH00A1.F 19CH0001 - 19CH00A1	Channel 18	18CH0001.0 - 18CH00A1.F	18CH0001 - 18CH00A1		*1
Channel 20 20CH0001.0 - 20CH00A1.F 20CH0001 - 20CH00A1 *1	Channel 19	19CH0001.0 - 19CH00A1.F	19CH0001 - 19CH00A1		*1
	Channel 20	20CH0001.0 - 20CH00A1.F	20CH0001 - 20CH00A1		*1

*1 When writing the data from the Display, the Display reads word addresses of 20CH of the External Device, changes read word addresses, and returns those changed 20CH addresses to the External Device. If the data is changed on the External Device side while the Display reads data and returns them to the External Device, correct data may not be able to be written.

NOTE

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

Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)"Please refer to the precautions on manual notation for icons in the table.

6.2 FC series

NOTE

NOTE

This address can be specified as system data area.

Device	Bit Address	Word Address	16 bits	Notes
Data item	0002.0 - 0086.F	0002 - 0086		*1
Setting value memory 1	1S0001.0 - 1S0036.F	1\$0001 - 1\$0036		*1
Setting value memory 2	2S0001.0 - 2S0036.F	2\$0001 - 2\$0036		*1
Setting value memory 3	3S0001.0 - 3S0036.F	3\$0001 -3\$0036	гн/ц	*1
Setting value memory 4	4S0001.0 - 4S0036.F	4\$0001 - 4\$0036		*1
Setting value memory 5	5S0001.0 - 5S0036.F	5\$0001 - 5\$0036		*1
Setting value memory 6	6S0001.0 - 6S0036.F	6\$0001 - 6\$0036		*1
Setting value memory 7	7S0001.0 - 7S0036.F	7\$0001 - 7\$0036		*1

*1 When bit writing is done, the Display reads corresponding word addresses of the External Device, a bit is made in the read word addresses, and it returns them to the External Device. If the word addresses are changed by the External Device while the Display reads data of the External Device and returns them to the External Device, correct data may not be able to be written.

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

- Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)"
- Please refer to the precautions on manual notation for icons in the table.

"Manual Symbols and Terminology"

6.3 JC*-13A, JCS-23A, GCS-300, FCL-13A, FIR-201-M

This address can be specified as system data area.

Device	Bit Address	Word Address	16 bits	Notes
Data item	0001.0 - 00A3.F	0001 - 00A3	[H/L]	*1

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*1 When bit writing is done, the Display reads corresponding word addresses of the External Device, a bit is made in the read word addresses, and it returns them to the External Device. If the word addresses are changed by the External Device while the Display reads data of the External Device and returns them to the External Device, correct data may not be able to be written.

Please refer to the GP-Pro EX Reference Manual for system data area.
Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)"
Please refer to the precautions on manual notation for icons in the table.

Please refer to the precautions on manual notation for icons in th

6.4 JCS-33A, JCR-33A, JCD-33A, JCM-33A, ACS-13A, NCL-13A, DCL-33A, JIR-301-M

This address can be specified as system data area.

Device	Bit Address	Word Address	16 bits	Notes
Data item	0001.0 - 00A1.F	0001 - 00A1	[H/L]	*1

*1 When bit writing is done, the Display reads corresponding word addresses of the External Device, a bit is made in the read word addresses, and it returns them to the External Device. If the word addresses are changed by the External Device while the Display reads data of the External Device and returns them to the External Device, correct data may not be able to be written.

NOTE	• Please refer to the GP-Pro EX Reference Manual for system data area.
	Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)"Please refer to the precautions on manual notation for icons in the table.
	"Manual Symbols and Terminology"

6.5 JCL-33A

This address can be specified as system data area.

Device	Bit Address	Word Address	16 bits	Notes
Data item	0001.0 - 1191.F	0001 - 1191	[H/L]	*1

*1 When bit writing is done, the Display reads corresponding word addresses of the External Device, a bit is made in the read word addresses, and it returns them to the External Device. If the word addresses are changed by the External Device while the Display reads data of the External Device and returns them to the External Device, correct data may not be able to be written.

NOTE

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

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

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

6.6 PCD-33A

This address can be specified as system data area.

Device	Bit Address	ss Word Address		Notes
Data item	0001.0 - 1992.F	0001 - 1992	[H/L]	*1

*1 When bit writing is done, the Display reads corresponding word addresses of the External Device, a bit is made in the read word addresses, and it returns them to the External Device. If the word addresses are changed by the External Device while the Display reads data of the External Device and returns them to the External Device, correct data may not be able to be written.

NOTE	Please refer to the GP-Pro EX Reference Manual for system data area.
L	 Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)" Please refer to the precautions on manual notation for icons in the table.
	Imanual Symbols and Terminology

6.7 PC-900

This address can be specified as system data area.

Device	Bit Address	Word Address	16 bits	Notes
Data item	0001.0 - 7901.F	0001 - 7901	[H/L]	*1

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*1 When bit writing is done, the Display reads corresponding word addresses of the External Device, a bit is made in the read word addresses, and it returns them to the External Device. If the word addresses are changed by the External Device while the Display reads data of the External Device and returns them to the External Device, correct data may not be able to be written.

NOTE

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

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

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

7 Device Code and Address Code

Use device code and address code when you select "Device Type & Address" for the address type in data displays.

Device	Device Name	Device Code (HEX)	Address Code
Data item	-	0000	Word Address
Setting value memory 1	1 S	0001	Word Address
Setting value memory 2	28	0002	Word Address
Setting value memory 3	38	0003	Word Address
Setting value memory 4	4S	0004	Word Address
Setting value memory 5	5S	0005	Word Address
Setting value memory 6	6S	0006	Word Address
Setting value memory 7	7S	0007	Word Address
Channel 1	1CH	0011	Word Address
Channel 2	2CH	0012	Word Address
Channel 3	3CH	0013	Word Address
Channel 4	4CH	0014	Word Address
Channel 5	5CH	0015	Word Address
Channel 6	6CH	0016	Word Address
Channel 7	7CH	0017	Word Address
Channel 8	8CH	0018	Word Address
Channel 9	9CH	0019	Word Address
Channel 10	10CH	001A	Word Address
Channel 11	11CH	001B	Word Address
Channel 12	12CH	001C	Word Address
Channel 13	13CH	001D	Word Address
Channel 14	14CH	001E	Word Address
Channel 15	15CH	001F	Word Address
Channel 16	16CH	0020	Word Address
Channel 17	17CH	0021	Word Address
Channel 18	18CH	0022	Word Address
Channel 19	19CH	0023	Word Address
Channel 20	20CH	0024	Word Address

8 Error Messages

Error messages are displayed on the screen of 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 External Device where error occurs. Device name is a title of External Device set with GP-Pro EX. (Initial value [PLC1])	
Error Message	Displays messages related to the error which occurs.	
	Displays IP address or device address of External Device where error occurs, or error codes received from External Device.	
Error Occurrence Area	 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 "Display-related errors" in "Maintenance/Troubleshooting Guide" for details on the error messages common to the driver.

Error Code Peculiar to Driver

Error code consists of 1byte in a hexadecimal numeral.

Error Code	Error Name	Cause
30	Error for unknown reasons	Error for unknown reasons This error occurs when a recoverable problem such as parity error occurs. This problem is recovered by resending a command.
31	The command does not exist.	The command does not exist.
33	The range of set value is exceeded.	The range of set value is exceeded.
34	In the state that setting cannot be implemented (AT is being executed or during warm-up after the power is turned on.)	In the state that setting cannot be implemented (AT is being executed or during warm-up after the power is turned on.)
35	In the case during mode setting via key operation	In the case during mode setting via key operation