YOKOGAWA Electric Corporation

Personal Computer Link SIO Driver

1	System Configuration	3
2	Selection of External Device	
3	Example of Communication Setting	9
4	Setup Items	
5	Cable Diagram	54
6	Supported Device	
7	Device Code and Address Code	
8	Error Messages	111

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.	^{CP} "2 Selection of External Device" (page 8)
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 9)
4	Communication Settings This section describes communication setup items on the Display. Set communication settings of the Display with GP-Pro EX or in off-line mode.	ি "4 Setup Items" (page 49)
5	Cable Diagram This section shows cables and adapters for connecting the Display and the External Device.	ি "5 Cable Diagram" (page 54)
	Operation	

1 System Configuration

The system configuration in the case when the External Device of YOKOGAWA Electric Corp. and the Display are connected is shown.

- IMPORTANT You cannot connect more than 2 Display units simultaneously by using CPU Direct and Personal Computer Link Module.
 - Pass-Through Function can be used only when the display is connected to the programming port on the CPU.

1.1 CPU Direct

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
FA-M3	F3SP21-0N F3SP25-2N F3SP28-3N F3SP35-5N F3SP38-6N F3SP53-4H F3SP58-6H F3SP28-3S F3SP38-6S F3SP53-4S F3SP58-6S F3SP58-6S F3SP59-7S	Programming port on CPU	RS232C	Setting Example 1 (page 9)	Cable Diagram1 (page 54)
	F3SP66-4S F3SP67-6S	SIO port on CPU unit	R\$232C	Setting Example 20 (page 47)	Cable Diagram 9 (page 92)

1.2 Personal Computer Link Module

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
	F3SP20-0N F3SP21-0N F3SP25-2N F3SP28-3N F3SP30-0N	F3LC11-1N, F3LC11-1F, RS232C port on F3LC12-1F	RS232C	Setting Example 4 (page 15)	Cable Diagram 3 (page 60)
		RS422/485 (4Wire) port on F3LC11-2N, F3LC11-2F	RS422/485 (4wire)	Setting Example 3 (page 13)	Cable Diagram 2 (page 55)
FA-M3	F3SP35-5N F3SP36-3N F3SP38-6N F3SP53-4H F3SP58-6H F3SP28-3S F3SP38-6S F3SP53-4S F3SP53-4S F3SP58-6S F3SP59-7S F3SP66-4S F3SP67-6S	RS422/485 (2Wire) port on F3LC11-2N, F3LC11-2F	RS422/485 (2wire)	Setting Example 2 (page 11)	Cable Diagram 4 (page 61)

Series	CPU ^{*1}	Link I/F	SIO Type	Setting Example	Cable Diagram
	UT130-□□/RS	Terminal Block on the controller	RS422/485 (2wire)	Setting Example 5 (page 17)	Cable Diagram 5 (page 68)
-	UT150-□□/RS	Terminal Block on the controller	RS422/485 (2wire)	Setting Example 6 (page 19)	Cable Diagram 5 (page 68)
Temperature Controllers (UT100 Series)	UT152-□□/RS	Terminal Block on the controller	RS422/485 (2wire)	Setting Example 7 (page 21)	Cable Diagram 5 (page 68)
	UT155-□□/RS	Terminal Block on the controller	RS422/485 (2wire)	Setting Example 8 (page 23)	Cable Diagram 5 (page 68)
	UP150-□□/RS	Terminal Block on the controller	RS422/485 (2wire)	Setting Example 9 (page 25)	Cable Diagram 5 (page 68)
	UT320-□1	Terminal Block on the controller	RS422/485 (4wire)	Setting Example 10 (page 27)	Cable Diagram 6 (page 75)
			RS422/485 (2wire)	Setting Example 11 (page 29)	Cable Diagram 7 (page 80)
	UT350-□1 UT420-□7	Terminal Block on the controller	RS422/485 (4wire)	Setting Example 12 (page 31)	Cable Diagram 6 (page 75)
Digital Indicating			RS422/485 (2wire)	Setting Example 13 (page 33)	Cable Diagram 7 (page 80)
Controllers		Terminal Block on the controller	RS422/485 (4wire)	Setting Example 14 (page 35)	Cable Diagram 6 (page 75)
			RS422/485 (2wire)	Setting Example 15 (page 37)	Cable Diagram 7 (page 80)
		Terminal Block on the controller	RS422/485 (4wire)	Setting Example 16 (page 39)	Cable Diagram 6 (page 75)
			RS422/485 (2wire)	Setting Example 17 (page 41)	Cable Diagram 7 (page 80)
UT2000	UT2400-□	Terminal Block on the controller	RS422/485 (4wire)	Setting Example 18 (page 43)	Cable Diagram 8 (page 87)
0.2000	UT2800-□	Terminal Block on the controller	RS422/485 (4wire)	Setting Example 19 (page 45)	Cable Diagram 8 (page 87)

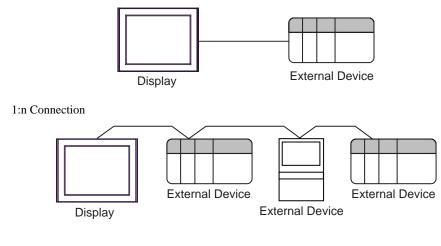
1.3 M&C Controllers

*1 Model number of external device, " \Box " differs depending on the specification of external device.

Connection Configuration

1:1 Connection

•



- FA-M3 or M&C controller (PA device) supported by this driver can be connected up to 16 at 1:n connection.
 - When Sequence Control is not required, the system can be composed only of M&C controller.

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

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

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

DIP switch setting: RS-232C

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

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

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

DIP switch	Setting	Description
1	OFF	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	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	KS (K13) 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	510 type. K5-422/485
4	OFF	Output mode of SD (TXD) data: Always output
5	OFF	Terminal resistance (220 Ω) insertion to SD (TXD): None
6	OFF	Terminal resistance (220 Ω) insertion to RD (RXD): None
7	ON	Short-circuit of SDA (TXA) and RDA (RXA): Available
8	ON	Short-circuit of SDB (TXB) and RDB (RXB): Available
9	ON	RS (RTS) Auto control mode: Enabled
10	ON	KS (K15) Auto control mode. Endoled

2 Selection of External Device

Select the External Device to be connected to the Display.

💰 New Project File		×
67-7ro 🕅	Device/PLC Maker YDKOGAWA Electric Corporation Series Personal Computer Link SID Use System Area R	efer to the manual of this Device/PLC
	Connection Method	Eo to Device/PLC Manuaj
Back () Communication Settings New Logic	New Screen Cancel

Setup Items	Setup Description	
Maker	Select the maker of the External Device to be connected. Select "YOKOGAWA Electric Corporation".	
Driver	Select a model (series) of the External Device to be connected and connection method. Select "Personal Computer Link SIO". Check the External Device which can be connected in "Personal Computer Link SIO" in system configuration. "" "1 System Configuration" (page 3)	
Use System Area	 Check this option when you synchronize the system data area of Display and the device (memory) of External Device. When synchronized, you can use the ladder program of External Device to switch the display or display the window on the display. Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)" This can be also set with GP-Pro EX or in off-line mode of Display. Cf. GP-Pro EX Reference Manual " 5.17.6 Setting Guide of [System Setting Window]■[Main Unit Settings] Settings Guide ♦ System Area Setting" Cf. Maintenance/Troubleshooting "2.15.1 Settings common to all Display models ♦ System Area Settings" 	
Port	Select the Display port to be connected to the External Device.	

3 Example of Communication Setting

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

3.1 Setting Example 1

Setting of GP-Pro EX

Communication Settings

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

Device/PLC 1				
Summary		Change Device/PLC		
Maker YOKOG	AWA Electric Corp	oration Series Personal Computer Link SIO Port COM1		
Text Data Mode	1 <u>Change</u>			
Communication Settings				
SIO Type	• RS232C	C RS422/485(2wire) C RS422/485(4wire)		
Speed	19200	•		
Data Length	0.7	• 8		
Parity	NONE	O EVEN O ODD		
Stop Bit	● 1	O 2		
Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF		
Timeout	3 📫	(sec)		
Retry	2			
Wait To Send	0 1	(ms)		
ExtentionMode ==				
🔲 Exist Sum Chec	k			
🔽 Exist Terminator	r			
RI / VCC	• BI	© 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.				
Isolation onic, pie	ase select it to vice	Default		
Device-Specific Settings	\$			
Allowable Number		16 💵		
Number Device	Name	Settings		
👗 1 🛛 PLC1		Series=FACTORY ACE Series,Station No.=1		

Device Setting

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

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

💰 Individual Device Settings 💦 💈		
PLC1		
Series	• FACTORY AC	E Series
	C M&C Controlle	rs
Please reconfirm all are using if you have		
Controller Type	Digital Indicating	Controllers 💌
Controller Model	UT320	7
Station No.	1	•
		Default
	OK (<u>D</u>)	Cancel

Setting of External Device

Execute [Configuration] from the [Project] menu in the ladder tool and set as below. Please refer to each maker's manual of the External Device for more detail on ladder tool.

Setup Items	Settings
Speed	19200
Data Length	8
Parity	None
Stop Bit	1
Exist Sum Check	None
Exist Terminator	Exists
Protect	None

3.2 Setting Example 2

Setting of GP-Pro EX

Communication Settings

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

Device/PLC 1	
Summary Change Device	PLC
Maker YOKOGAWA Electric Corporation Series Personal Computer Link SIO Port COM1	
Text Data Mode 1 Change	
Communication Settings	
SIO Type 🔿 RS232C 💿 RS422/485(2wire) 🛇 RS422/485(4wire)	
Speed 19200	
Data Length 🔿 7 💿 8	
Parity © NONE O EVEN O ODD	
Stop Bit 📀 1 🔿 2	
Flow Control C NONE C ER(DTR/CTS) C XON/XOFF	
Timeout 3 🙀 (sec)	
Retry 2	
Wait To Send 🛛 📑 (ms)	
Exist Terminator	
RL/VCC © RL 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. Default	
Device-Specific Settings	
Allowable Number of Devices/PLCs 16	
Number Device Name Settings Image: PLC1 Image: Series=FACTORY ACE Series,Station No.=1	

Device Setting

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

💰 Individual Dev	ice Settings	×
PLC1		
Series	FACTORY ACE Series	
	C M&C Controllers	
	I of address settings that you /e changed the series.	
Controller Type	Digital Indicating Controllers	$\overline{}$
Controller Model	UT320	
Station No.	1	÷
	Default	
	OK (<u>D)</u> Cancel	

Set the computer link module as below. Please refer to each maker's manual of the External Device for more detail.

Transmission Speed Setting Switch

Setup Items	Settings
Speed	19200

◆ Data Code Setting Switch

DIP Switch	Settings	Setup Description
SW1	ON	Data Length
SW2	OFF	Parity Bit
SW3	OFF	-
SW4	OFF	Stop Bit
SW5	OFF	Exist Sum Check
SW6	ON	Exist Terminator
SW7	OFF	Protect
SW8	OFF	Always OFF

Station No. Setting Switch

Setup Items	Settings
Station No.	No.1 station

NOTE

• Set the termination resistance switch of only the module which terminates the connection to 2-WIRE. Set other switches to OFF.

3.3 Setting Example 3

Setting of GP-Pro EX

Communication Settings

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

Device/PLC1		
Summary		Change Device/PLC
Maker YOKOGA	WA Electric Corp	oration Series Personal Computer Link SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	C RS232C	C RS422/485(2wire) © RS422/485(4wire)
Speed	19200	_
Data Length	C 7	• 8
Parity	NONE	C EVEN C ODD
Stop Bit	⊙ 1	C 2
Flow Control	C NONE	ER(DTR/CTS) C XON/XOFF
Timeout	3 📫	(sec)
Retry	2 🔅	
Wait To Send	0 📑	(ms)
ExtentionMode		
Exist Sum Check		
🔽 Exist Terminator		
RI / VCC	© RI	C VCC
	Supply). If you us	ect the 9th pin to RI (Input) se the Digital's RS232C
Device-Specific Settings Allowable Number of	Devices (DLC)	10
Allowable Number of Number Device N		16 Leftings
TI PLC1		Series=FACTORY ACE Series,Station No.=1

Device Setting

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

💕 Individual Dev	ice Settings	×
PLC1		
Series	• FACTORY AG	CE Series
	C M&C Controlle	ers
Please reconfirm al are using if you hav		
Controller Type	Digital Indicating	Controllers 💌
Controller Model	UT320	7
Station No.	1	*
		Default
	OK (<u>O</u>)	Cancel

Set the computer link module as below. Please refer to each maker's manual of the External Device for more detail.

Transmission Speed Setting Switch

Setup Items	Settings
Speed	19200

◆ Data Code Setting Switch

DIP Switch	Settings	Setup Description
SW1	ON	Data Length
SW2	OFF	Parity Bit
SW3	OFF	-
SW4	OFF	Stop Bit
SW5	OFF	Exist Sum Check
SW6	ON	Exist Terminator
SW7	OFF	Protect
SW8	OFF	Always OFF

Station No. Setting Switch

Setup Items	Settings
Station No.	No.1 station

NOTE

• Set the termination resistance switch of only the module which terminates the connection to 4-WIRE. Set other switches to OFF.

3.4 Setting Example 4

Setting of GP-Pro EX

Communication Settings

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

Device/PLC 1		
Summary		Change Device/PLC
Maker YOKOG	AWA Electric Corp	oration Series Personal Computer Link SIO Port COM1
Text Data Mode	1 Change	
Communication Settings		
SIO Type	RS232C	C RS422/485(2wire) C RS422/485(4wire)
Speed	19200	x
Data Length	O 7	• 8
Parity	NONE	C EVEN C ODD
Stop Bit	I 1	C 2
Flow Control	C NONE	ER(DTR/CTS) C XON/XOFF
Timeout	3 +	(sec)
Retry	2 🔹	
Wait To Send	0 🔹	(ms)
ExtentionMode		
Exist Sum Chec		
Exist Terminator		
RI / VCC	BI BI BI C BI C C	O VCC
		ect the 9th pin to RI (Input) se the Digital's RS232C
Isolation Unit, ple	ase select it to VCC	Default
Device-Specific Settings	\$	
Allowable Number		16 📊
Number Device	Name	Settings Series=FACTORY ACE Series,Station No.=1
🧑 - picci		Johnser Achorn Accionics, station No1

Device Setting

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

💣 Individual Devi	ice Settings	×
PLC1		
Series	• FACTORY A	ACE Series
	O M&C Contro	llers
Please reconfirm all are using if you hav		
Controller Type	Digital Indicatir	ng Controllers 💌
Controller Model	UT320	~
Station No.	1	•
		Default
	OK (<u>0)</u>	Cancel

Set the computer link module as below. Please refer to each maker's manual of the External Device for more detail.

Transmission Speed Setting Switch

Setup Items	Settings
Speed	19200

◆ Data Code Setting Switch

DIP Switch	Settings	Setup Description
SW1	ON	Data Length
SW2	OFF	Parity Bit
SW3	OFF	-
SW4	OFF	Stop Bit
SW5	OFF	Exist Sum Check
SW6	ON	Exist Terminator
SW7	OFF	Protect
SW8	OFF	Always OFF

3.5 Setting Example 5

Setting of GP-Pro EX

Communication Settings

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

Device/PLC 1	
Summary	Change Device/PLC
Maker YOKOGAW	A Electric Corporation Series Personal Computer Link SID Port COM1
Text Data Mode	1 Change
Communication Settings	
SIO Type	C RS232C 💿 RS422/485(2wire) C RS422/485(4wire)
Speed	9600
Data Length	07 🕫 8
Parity	ONDNE O EVEN O ODD
Stop Bit	€ 1 0 2
Flow Control	○ NONE
Timeout	3 😴 (sec)
Retry	2
Wait To Send	0 📑 (ms)
ExtentionMode	
Exist Sum Check	
Exist Terminator	
RI / VCC	RI O VCC
	C, you can select the 9th pin to BI (Input)
Isolation Unit, please	pply). If you use the Digital's RS232C select it to VCC. Default
Device-Specific Settings	
Allowable Number of D	wices/PLCs 16 📷
Number Device Nan	e <u>Settings</u>
👗 1 🛛 PLC1	Image Series=M&C Controllers,Controller Type=Temperature Controllers,Controller Mode

Device Setting

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

💰 Individual Devic	e Settings 🛛 🗙	
PLC1		
Series	C FACTORY ACE Series	
	M&C Controllers	
Please reconfirm all of address settings that you are using if you have changed the series.		
Controller Type	Temperature Controllers	
Controller Model	UT130 💌	
Station No.	1	
	OK (<u>D</u>) Cancel	

- Caution
 - Always put a check on the [Extension Mode]-[Exist Terminator] of the communication setting.

Use the SET/ENT key, UP key and DOWN key in front of the controller for communication settings of the External Device.

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

Procedure

- 1 Turn ON the power supply.
 - Change to [Operating Display].
- 2 Depress SET/ENT key on the [Operating Display] for 3 seconds or longer. Change to [Operating Parameter Setting Display].
- **3** Press SET/ENT key several times to display [LOC].
- 4 Set "-1" to [LOC] and press SET/ENT key.
 - Display changes to [Setup Parameter Setting Display].
- **5** Press SET/ENT key several times to display communication setup items.
- 6 Enter set value using UP or DOWN key and press SET/ENT key.
- 7 Depress SET/ENT key for 3 seconds or longer to return to [Operating Display]. Then the communication setting is finished.

Setup Items	Settings
PSL	0: PC-link communication
Adr	1
bPS	9.6: 9600bps
PrI	Evn
StP	1
dLn	8

3.6 Setting Example 6

Setting of GP-Pro EX

Communication Settings

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

Device/PLC 1		
Summary		Change Device/PLC
Maker YOKOG/	AWA Electric Corp	oration Series Personal Computer Link SIO Port COM1
Text Data Mode	1 Change	
Communication Settings		
SIO Type	O RS232C	• RS422/485(2wire)
Speed	9600	T
Data Length	0.7	• 8
Parity	O NONE	© EVEN C ODD
Stop Bit	I 1	0 2
Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF
Timeout	3 📫	(sec)
Retry	2 +	
Wait To Send	0 📫	(ms)
ExtentionMode		
Exist Sum Check		
Exist Terminator		
RI / VCC	• BI	© VCC
In the case of RS2	232C, you can sele	ect the 9th pin to RI (Input) se the Digital's RS232C
Isolation Unit, plea	ise select it to VCC	Default
Device-Specific Settings		
Allowable Number of	f Devices/PLCs	16 🔢
Number Device N	lame	Settings
🕺 1 🛛 PLC1		Series=M&C Controllers,Controller Type=Temperature Controllers,Controller Mode

Device Setting

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

💰 Individual Devid	e Settings	×
PLC1		
Series	C FACTORY ACE Series	
	M&C Controllers	
Please reconfirm all of address settings that you are using if you have changed the series.		
Controller Type	Temperature Controllers	•
Controller Model	UT150	•
Station No.	1	÷
	Default	
	OK (<u>O</u>) Cancel]

- Caution
 - Always put a check on the [Extension Mode]-[Exist Terminator] of the communication setting.

Use the SET/ENT key, UP key and DOWN key in front of the controller for communication settings of the External Device.

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

Procedure

- 1 Turn ON the power supply.
 - Change to [Operating Display].
- 2 Depress SET/ENT key on the [Operating Display] for 3 seconds or longer. Change to [Operating Parameter Setting Display].
- **3** Press SET/ENT key several times to display [LOC].
- 4 Set "-1" to [LOC] and press SET/ENT key.
 - Display changes to [Setup Parameter Setting Display].
- **5** Press SET/ENT key several times to display communication setup items.
- 6 Enter set value using UP or DOWN key and press SET/ENT key.
- 7 Depress SET/ENT key for 3 seconds or longer to return to [Operating Display]. Then the communication setting is finished.

Setup Items	Settings
PSL	0: PC-link communication
Adr	1
bPS	9.6: 9600bps
PrI	Evn
StP	1
dLn	8

3.7 Setting Example 7

Setting of GP-Pro EX

Communication Settings

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

Device/PLC 1		
Summary		Change Device/PLC
Maker YOKOG	AWA Electric Corp	ooration Series Personal Computer Link SIO Port COM1
Text Data Mode	1 Change	
Communication Settings		
SIO Type	C RS232C	RS422/485(2wire) RS422/485(4wire)
Speed	9600	•
Data Length	O 7	• 8
Parity	O NONE	● EVEN C ODD
Stop Bit	● 1	© 2
Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF
Timeout	3 ÷	(sec)
Retry	2 ÷	
Wait To Send	0 ÷	(ms)
ExtentionMode		
Exist Sum Check	¢.	
Exist Terminator		
RI / VCC	• BI	© VCC
		ect the 9th pin to RI (Input)
or VCC (5V Powe Isolation Unit, plea	r Supply). If you u ase select it to VCC	se the Digital's RS232C C. Default
Device-Specific Settings		
Allowable Number of		16 🙀
Number Device		Settings
👗 1 🛛 PLC1		Series=M&C Controllers,Controller Type=Temperature Controllers,Controller Mode

Device Setting

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

💰 Individual Devic	e Settings 🛛 🗙
PLC1	
Series	C FACTORY ACE Series
	M&C Controllers
Please reconfirm all o are using if you have	of address settings that you changed the series.
Controller Type	Temperature Controllers
Controller Model	UT152 💌
Station No.	1
	OK (<u>O)</u> Cancel

- Caution
 - Always put a check on the [Extension Mode]-[Exist Terminator] of the communication setting.

Use the SET/ENT key, UP key and DOWN key in front of the controller for communication settings of the External Device.

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

Procedure

- 1 Turn ON the power supply.
 - Change to [Operating Display].
- 2 Depress SET/ENT key on the [Operating Display] for 3 seconds or longer. Change to [Operating Parameter Setting Display].
- **3** Press SET/ENT key several times to display [LOC].
- 4 Set "-1" to [LOC] and press SET/ENT key.
 - Display changes to [Setup Parameter Setting Display].
- **5** Press SET/ENT key several times to display communication setup items.
- 6 Enter set value using UP or DOWN key and press SET/ENT key.
- 7 Depress SET/ENT key for 3 seconds or longer to return to [Operating Display]. Then the communication setting is finished.

Setup Items	Settings
PSL	0: PC-link communication
Adr	1
bPS	9.6: 9600bps
PrI	Evn
StP	1
dLn	8

3.8 Setting Example 8

Setting of GP-Pro EX

Communication Settings

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

Device/PLC 1		
Summary		Change Device/PLC
Maker YOKOG/	AWA Electric Corp	oration Series Personal Computer Link SIO Port COM1
Text Data Mode	1 Change	
Communication Settings		
SIO Type	O RS232C	• RS422/485(2wire)
Speed	9600	T
Data Length	0.7	• 8
Parity	O NONE	© EVEN C ODD
Stop Bit	I 1	0 2
Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF
Timeout	3 📫	(sec)
Retry	2 +	
Wait To Send	0 📫	(ms)
ExtentionMode		
Exist Sum Check		
Exist Terminator		
RI / VCC	• RI	© VCC
In the case of RS2	232C, you can sele	ect the 9th pin to RI (Input) se the Digital's RS232C
Isolation Unit, plea	ise select it to VCC	Default
Device-Specific Settings		
Allowable Number of	f Devices/PLCs	16 🔢
Number Device N	lame	Settings
🕺 1 🛛 PLC1		Series=M&C Controllers,Controller Type=Temperature Controllers,Controller Mode

Device Setting

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

💰 Individual Devic	e Settings 🛛 🗙
PLC1	
Series	C FACTORY ACE Series
	• M&C Controllers
Please reconfirm all o are using if you have	of address settings that you changed the series.
Controller Type	Temperature Controllers
Controller Model	UT155 🔹
Station No.	1 Default
	OK (<u>O)</u> Cancel

- Caution
 - Always put a check on the [Extension Mode]-[Exist Terminator] of the communication setting.

Use the SET/ENT key, UP key and DOWN key in front of the controller for communication settings of the External Device.

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

Procedure

- 1 Turn ON the power supply.
 - Change to [Operating Display].
- 2 Depress SET/ENT key on the [Operating Display] for 3 seconds or longer. Change to [Operating Parameter Setting Display].
- **3** Press SET/ENT key several times to display [LOC].
- 4 Set "-1" to [LOC] and press SET/ENT key.
 - Display changes to [Setup Parameter Setting Display].
- 5 Press SET/ENT key several times to display communication setup items.
- 6 Enter set value using UP or DOWN key and press SET/ENT key.
- 7 Depress SET/ENT key for 3 seconds or longer to return to [Operating Display]. Then the communication setting is finished.

Setup Items	Settings
PSL	0: PC-link communication
Adr	1
bPS	9.6: 9600bps
PrI	Evn
StP	1
dLn	8

3.9 Setting Example 9

Setting of GP-Pro EX

Communication Settings

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

Device/PLC 1		
Summary		Change Device/PLC
Maker YOKOGA	AWA Electric Corp	oration Series Personal Computer Link SIO Port COM1
Text Data Mode	1 Change	
Communication Settings		
SIO Type	C RS232C	RS422/485(2wire) RS422/485(4wire)
Speed	9600	•
Data Length	07	• 8
Parity	O NONE	EVEN ODD
Stop Bit	● 1	© 2
Flow Control	O NONE	ER(DTR/CTS) C XON/XOFF
Timeout	3 📫	(sec)
Retry	2 🔹	
Wait To Send	0 📫	(ms)
ExtentionMode		
Exist Sum Check		
Exist Terminator		
RI / VCC	• RI	© VCC
		ect the 9th pin to RI (Input)
Isolation Unit, plea	se select it to VCC	se the Digital's RS232C Default
Device-Specific Settings		
Allowable Number of	Devices/PLCs	16 📲
Number Device N	ame	Settings
👗 1 🛛 PLC1		Series=M&C Controllers,Controller Type=Temperature Controllers,Controller Mode

Device Setting

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

💰 Individual Devic	ce Settings 📃 💈	×
PLC1		
Series	C FACTORY ACE Series	
	M&C Controllers	
Please reconfirm all are using if you have	of address settings that you changed the series.	
Controller Type	Temperature Controllers	
Controller Model	UP150	
Station No.	1 Default	
	OK (<u>O</u>) Cancel	

- Caution
 - Always put a check on the [Extension Mode]-[Exist Terminator] of the communication setting.

Use the SET/ENT key, UP key and DOWN key in front of the controller for communication settings of the External Device.

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

Procedure

- 1 Turn ON the power supply.
 - Change to [Operating Display].
- 2 Depress SET/ENT key on the [Operating Display] for 3 seconds or longer. Change to [Operating Parameter Setting Display].
- **3** Press SET/ENT key several times to display [LOC].
- 4 Set "-1" to [LOC] and press SET/ENT key.
 - Display changes to [Setup Parameter Setting Display].
- **5** Press SET/ENT key several times to display communication setup items.
- 6 Enter set value using UP or DOWN key and press SET/ENT key.
- 7 Depress SET/ENT key for 3 seconds or longer to return to [Operating Display]. Then the communication setting is finished.

Setup Items	Settings
PSL	0: PC-link communication
Adr	1
bPS	9.6: 9600bps
PrI	Evn
StP	1
dLn	8

3.10 Setting Example 10

- Setting of GP-Pro EX
- Communication Settings

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

Device/PLC 1
Summary Change Device/PLC
Maker VOKOGAWA Electric Corporation Series Personal Computer Link SIO Port COM1
Text Data Mode 1 Change
Communication Settings
SID Type O RS232C O RS422/485(2wire) O RS422/485(4wire)
Speed 9600
Data Length O 7 💿 8
Parity O NONE O EVEN O ODD
Stop Bit 🔍 1 🔿 2
Flow Control O NONE O ER(DTR/CTS) C XON/XOFF
Timeout 3 🚉 (sec)
Retry 2 芸
Wait To Send 🛛 🕂 (ms)
ExtentionMode
Exist Sum Check
Exist Terminator
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. Default
Device-Specific Settings
Allowable Number of Devices/PLCs 16
Number Device Name Settings Number Device Name Settings 1 PLC1 Image: Setting Seting Setting Setting Setting Setting Setting Setting Setting Se

Device Setting

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

💰 Individual Devic	e Settings	×
PLC1		
Series	C FACTORY ACE Series	
	M&C Controllers	
Please reconfirm all o are using if you have	of address settings that you changed the series.	
Controller Type	Digital Indicating Controllers	•
Controller Model	UT320	•
Station No.	1 Default	••
	OK (<u>O)</u> Cancel	

- Caution
 - Always put a check on the [Extension Mode]-[Exist Terminator] of the communication setting.

Use the SET/ENT key, UP key and DOWN key in front of the controller for communication settings of the External Device.

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

Procedure

1 Turn ON the power supply.

Change to [Operating Display].

- 2 Depress SET/ENT key on the [Operating Display] for 3 seconds or longer. Change to [Operating Parameter Setting Display].
- **3** Press SET/ENT key several times to display communication setup items.
- 4 Enter set value using UP or DOWN key and press SET/ENT key.
- 5 Depress SET/ENT key for 3 seconds or longer to return to [Operating Display]. Then the communication setting is finished.

Setup Items	Settings
P.SL	0: PC link communication
bPS	4: 9600 (bps)
PrI	1: Even
StP	1
dLn	8
Adr	1

3.11 Setting Example 11

- Setting of GP-Pro EX
- Communication Settings

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

Device/PLC 1
Summary Change Device/PLC
Maker YOKOGAWA Electric Corporation Series Personal Computer Link SIO Port COM1
Text Data Mode 1 Change
Communication Settings
SIO Type O RS232C ④ RS422/485(2wire) O RS422/485(4wire)
Speed 9600
Data Length O 7 💿 8
Parity ONDNE OEVEN CODD
Stop Bit 💿 1 💿 2
Flow Control O NONE O ER(DTR/CTS) O XON/XOFF
Timeout 3 📑 (sec)
Retry 2
Wait To Send 🛛 💼 (ms)
ExtentionMode
Exist Sum Check
Kist Terminator
RL/VCC O RL C VCC
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C
Isolation Unit, please select it to VCC. Default
Device-Specific Settings
Allowable Number of Devices/PLCs 16
Number Device Name Settings Image: Setting state of the set o

Device Setting

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

💕 Individual Devic	e Settings	×
PLC1		
Series	C FACTORY ACE Series	
	M&C Controllers	
Please reconfirm all (are using if you have	of address settings that you changed the series.	
Controller Type	Digital Indicating Controllers	•
Controller Model	UT320	•
Station No.	1 Default	÷
	OK (<u>O)</u> Cancel]

- Caution
 - Always put a check on the [Extension Mode]-[Exist Terminator] of the communication setting.

Use the SET/ENT key, UP key and DOWN key in front of the controller for communication settings of the External Device.

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

Procedure

1 Turn ON the power supply.

Change to [Operating Display].

- 2 Depress SET/ENT key on the [Operating Display] for 3 seconds or longer. Change to [Operating Parameter Setting Display].
- **3** Press SET/ENT key several times to display communication setup items.
- 4 Enter set value using UP or DOWN key and press SET/ENT key.
- 5 Depress SET/ENT key for 3 seconds or longer to return to [Operating Display]. Then the communication setting is finished.

Setup Items	Settings
P.SL	0: PC link communication
bPS	4: 9600 (bps)
PrI	1: Even
StP	1
dLn	8
Adr	1

3.12 Setting Example 12

- Setting of GP-Pro EX
- Communication Settings

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

Device/PLC1
Summary Change Device/PLC
Maker YOKOGAWA Electric Corporation Series Personal Computer Link SIO Port COM1
Text Data Mode 1 Change
Communication Settings
SID Type C RS232C C RS422/485(2wire) 💿 RS422/485(4wire)
Speed 9600
Data Length C 7 💿 8
Parity C NONE C EVEN C ODD
Stop Bit 🔍 1 🔿 2
Flow Control C NONE C ER(DTR/CTS) C XDN/X0FF
Timeout 3 📑 (sec)
Retry 2
Wait To Send 0 🚔 (ms)
ExtentionMode
Exist Terminator
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. Default
Device-Specific Settings
Allowable Number of Devices/PLCs 16
Number Device Name Settings Number Device Name Settings Image: PLC1 Image: Settings Settings

Device Setting

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

💰 Individual Devic	e Settings	×
PLC1		
Series	C FACTORY ACE Series	
	M&C Controllers	
Please reconfirm all o are using if you have	of address settings that you changed the series.	
Controller Type	Digital Indicating Controllers	•
Controller Model	UT350	•
Station No.	1 Default	11
	OK (<u>O)</u> Cancel	

- Caution
 - Always put a check on the [Extension Mode]-[Exist Terminator] of the communication setting.

Use the SET/ENT key, UP key and DOWN key in front of the controller for communication settings of the External Device.

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

Procedure

1 Turn ON the power supply.

Change to [Operating Display].

- 2 Depress SET/ENT key on the [Operating Display] for 3 seconds or longer. Change to [Operating Parameter Setting Display].
- **3** Press SET/ENT key several times to display communication setup items.
- 4 Enter set value using UP or DOWN key and press SET/ENT key.
- 5 Depress SET/ENT key for 3 seconds or longer to return to [Operating Display]. Then the communication setting is finished.

Setup Items	Settings
P.SL	0: PC link communication
bPS	4: 9600 (bps)
PrI	1: Even
StP	1
dLn	8
Adr	1

3.13 Setting Example 13

- Setting of GP-Pro EX
- Communication Settings

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

Device/PLC 1
Summary Change Device/PLC
Maker YOKOGAWA Electric Corporation Series Personal Computer Link SIO Port COM1
Text Data Mode 1 Change
Communication Settings
SID Type C RS232C C RS422/485(2wire) C RS422/485(4wire)
Speed 9600
Data Length O 7 📀 8
Parity O NONE O EVEN O ODD
Stop Bit 💿 1 🔿 2
Flow Control O NONE © ER(DTR/CTS) O XON/XOFF
Timeout 3 📑 (sec)
Retry 2 \Xi
Wait To Send 🛛 💼 (ms)
ExtentionMode
Exist Sum Check
Kist Terminator
RL/VCC O RL C VCC
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C
Isolation Unit, please select it to VCC. Default
Device-Specific Settings
Allowable Number of Devices/PLCs 16
Number Device Name Settings 1 PLC1 Image: Setting Setti

Device Setting

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

💰 Individual Devic	e Settings	×
PLC1		
Series	C FACTORY ACE Series	
	M&C Controllers	
Please reconfirm all o are using if you have	of address settings that you changed the series.	
Controller Type	Digital Indicating Controllers	•
Controller Model	UT350	•
Station No.	1 Default	11
	OK (<u>O)</u> Cancel	

- Caution
 - Always put a check on the [Extension Mode]-[Exist Terminator] of the communication setting.

Use the SET/ENT key, UP key and DOWN key in front of the controller for communication settings of the External Device.

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

Procedure

1 Turn ON the power supply.

Change to [Operating Display].

- 2 Depress SET/ENT key on the [Operating Display] for 3 seconds or longer. Change to [Operating Parameter Setting Display].
- **3** Press SET/ENT key several times to display communication setup items.
- 4 Enter set value using UP or DOWN key and press SET/ENT key.
- 5 Depress SET/ENT key for 3 seconds or longer to return to [Operating Display]. Then the communication setting is finished.

Setup Items	Settings
P.SL	0: PC link communication
bPS	4: 9600 (bps)
PrI	1: Even
StP	1
dLn	8
Adr	1

3.14 Setting Example 14

- Setting of GP-Pro EX
- Communication Settings

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

Device/PLC 1
Summary Change Device/PLC
Maker YOKOGAWA Electric Corporation Series Personal Computer Link SID Port COM1
Text Data Mode 1 Change
Communication Settings
SID Type C RS232C C RS422/485(2wire) C RS422/485(4wire)
Speed 9600
Data Length 🔿 7 📀 8
Parity C NONE C EVEN C ODD
Stop Bit 💿 1 🔿 2
Flow Control C NONE C ER(DTR/CTS) C XON/XOFF
Timeout 3 (sec)
Retry 2
Wait To Send 0 📻 (ms)
ExtentionMode
Exist Sum Check
Exist Terminator
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. Default
Device-Specific Settings
Allowable Number of Devices/PLCs 16
Number Device Name Settings Image: PLC1 Image: Setting Series=M&C Controllers,Controller Type=Digital Indicating Controllers,Controlers,Controlers,Controllers,Controlers,Controllers,Controllers,Co

Device Setting

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

💕 Individual Devic	e Settings	х
PLC1		
Series	C FACTORY ACE Series	
	M&C Controllers	
Please reconfirm all o are using if you have	of address settings that you changed the series.	
Controller Type	Digital Indicating Controllers	•
Controller Model	UT420	•
Station No.	1 Default	÷
	OK (<u>O)</u> Cancel	

- Caution
 - Always put a check on the [Extension Mode]-[Exist Terminator] of the communication setting.

Use the SET/ENT key, UP key and DOWN key in front of the controller for communication settings of the External Device.

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

Procedure

- 1 Turn ON the power supply.
 - Change to [Operating Display].
- 2 Depress SET/ENT key on the [Operating Display] for 3 seconds or longer. Change to [Operating Parameter Setting Display].
- **3** Press UP or DOWN key several times to display [r485].
- 4 Press SET/ENT key several times to display communication setup items.
- 5 Enter set value using UP or DOWN key and press SET/ENT key.
- 6 Depress SET/ENT key for 3 seconds or longer to return to [Operating Display]. Then the communication setting is finished.

Setup Items	Settings
PSL	0: PC link communication
bPS	9600
PrI	EVEN
StP	1
dLn	8
Adr	1
rP.t	0: 0 × 10ms

3.15 Setting Example 15

- Setting of GP-Pro EX
- Communication Settings

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

Device/PLC 1
Summary Change Device/PLC
Maker YOKOGAWA Electric Corporation Series Personal Computer Link SIO Port COM1
Text Data Mode 1 Change
Communication Settings
SIO Type O RS232C ④ RS422/485(2wire) O RS422/485(4wire)
Speed 9600
Data Length O 7 💿 8
Parity ONDNE OEVEN CODD
Stop Bit 💿 1 💿 2
Flow Control O NONE O ER(DTR/CTS) O XON/XOFF
Timeout 3 📑 (sec)
Retry 2
Wait To Send 🛛 💼 (ms)
ExtentionMode
Exist Sum Check
Kist Terminator
RL/VCC O RL C VCC
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C
Isolation Unit, please select it to VCC. Default
Device-Specific Settings
Allowable Number of Devices/PLCs 16
Number Device Name Settings Image: Setting state of the set o

Device Setting

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

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

💰 Individual Devic	e Settings	×
PLC1		
Series	C FACTORY ACE Series	
	M&C Controllers	
Please reconfirm all o are using if you have	of address settings that you changed the series.	
Controller Type	Digital Indicating Controllers	•
Controller Model	UT420	•
Station No.	1 Default	••
	OK (<u>O)</u> Cancel	

- Caution
 - Always put a check on the [Extension Mode]-[Exist Terminator] of the communication setting.

Setting of External Device

Use the SET/ENT key, UP key and DOWN key in front of the controller for communication settings of the External Device.

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

Procedure

- 1 Turn ON the power supply.
 - Change to [Operating Display].
- 2 Depress SET/ENT key on the [Operating Display] for 3 seconds or longer. Change to [Operating Parameter Setting Display].
- **3** Press UP or DOWN key several times to display [r485].
- 4 Press SET/ENT key several times to display communication setup items.
- 5 Enter set value using UP or DOWN key and press SET/ENT key.
- 6 Depress SET/ENT key for 3 seconds or longer to return to [Operating Display]. Then the communication setting is finished.

Setting Value

Setup Items	Settings
PSL	0: PC link communication
bps	9600
Pri	EVEN
StP	1
dLn	8
Adr	1
rP.t	0: 0 × 10ms

3.16 Setting Example 16

- Setting of GP-Pro EX
- Communication Settings

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

Device/PLC1
Summary Change Device/PLC
Maker YOKOGAWA Electric Corporation Series Personal Computer Link SIO Port COM1
Text Data Mode 1 Change
Communication Settings
SID Type C RS232C C RS422/485(2wire) 💿 RS422/485(4wire)
Speed 9600
Data Length C 7 💿 8
Parity C NONE C EVEN C ODD
Stop Bit 🔍 1 🔿 2
Flow Control C NONE C ER(DTR/CTS) C XDN/X0FF
Timeout 3 📑 (sec)
Retry 2
Wait To Send 0 🚔 (ms)
ExtentionMode
Exist Terminator
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. Default
Device-Specific Settings
Allowable Number of Devices/PLCs 16
Number Device Name Settings Number Device Name Settings Image: PLC1 Image: Settings Settings

Device Setting

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

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

💰 Individual Devic	e Settings	×
PLC1		
Series	C FACTORY ACE Series	
	M&C Controllers	
Please reconfirm all o are using if you have	of address settings that you changed the series.	
Controller Type	Digital Indicating Controllers	•
Controller Model	UT450	•
Station No.	1 Default	11
	OK (<u>O)</u> Cancel	

- Caution
 - Always put a check on the [Extension Mode]-[Exist Terminator] of the communication setting.

Setting of External Device

Use the SET/ENT key, UP key and DOWN key in front of the controller for communication settings of the External Device.

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

Procedure

- 1 Turn ON the power supply.
- Change to [Operating Display].
- 2 Depress SET/ENT key on the [Operating Display] for 3 seconds or longer. Change to [Operating Parameter Setting Display].
- **3** Press UP or DOWN key several times to display [r485].
- 4 Press SET/ENT key several times to display communication setup items.
- 5 Enter set value using UP or DOWN key and press SET/ENT key.
- 6 Depress SET/ENT key for 3 seconds or longer to return to [Operating Display]. Then the communication setting is finished.

Setting Value

Setup Items	Settings
PSL	0: PC link communication
bPS	9600
PrI	EVEN
StP	1
dLn	8
Adr	1
rP.t	0: 0 × 10ms

3.17 Setting Example 17

- Setting of GP-Pro EX
- Communication Settings

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

Device/PLC 1
Summary Change Device/PLC
Maker YOKOGAWA Electric Corporation Series Personal Computer Link SIO Port COM1
Text Data Mode 1 Change
Communication Settings
SIO Type O RS232C ④ RS422/485(2wire) O RS422/485(4wire)
Speed 9600
Data Length O 7 💿 8
Parity ONDNE OEVEN CODD
Stop Bit 💿 1 💿 2
Flow Control O NONE O ER(DTR/CTS) O XON/XOFF
Timeout 3 📑 (sec)
Retry 2
Wait To Send 🛛 💼 (ms)
ExtentionMode
Exist Sum Check
Kist Terminator
RL/VCC O RL C VCC
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C
Isolation Unit, please select it to VCC. Default
Device-Specific Settings
Allowable Number of Devices/PLCs 16
Number Device Name Settings Image: Setting state of the set o

Device Setting

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

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

💕 Individual Devic	e Settings 📃 🔰	ĸ
PLC1		
Series	C FACTORY ACE Series	
	M&C Controllers	
Please reconfirm all (are using if you have	of address settings that you changed the series.	
Controller Type	Digital Indicating Controllers 💌	1
Controller Model	UT450 💌	1
Station No.	1 Default]
	OK (<u>D</u>) Cancel	

- Caution
 - Always put a check on the [Extension Mode]-[Exist Terminator] of the communication setting.

Setting of External Device

Use the SET/ENT key, UP key and DOWN key in front of the controller for communication settings of the External Device.

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

Procedure

- 1 Turn ON the power supply.
- Change to [Operating Display].2 Depress SET/ENT key on the [Operating Display] for 3 seconds or longer.
- Change to [Operating Parameter Setting Display].
- **3** Press UP or DOWN key several times to display [r485].
- 4 Press SET/ENT key several times to display communication setup items.
- 5 Enter set value using UP or DOWN key and press SET/ENT key.
- 6 Depress SET/ENT key for 3 seconds or longer to return to [Operating Display]. Then the communication setting is finished.

Setting Value

Setup Items	Settings
PSL	0: PC link communication
bps	9600
Pri	EVEN
StP	1
dLn	8
Adr	1
rP.t	0: 0 × 10ms

3.18 Setting Example 18

- Setting of GP-Pro EX
- Communication Settings

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

Device/PLC1
Summary Change Device/PLC
Maker YOKOGAWA Electric Corporation Series Personal Computer Link SIO Port COM1
Text Data Mode 1 Change
Communication Settings
SID Type C RS232C C RS422/485(2wire) 💿 RS422/485(4wire)
Speed 9600 💌
Data Length O 7 💿 8
Parity C NONE 📀 EVEN C ODD
Stop Bit 💿 1 💿 2
Flow Control C NDNE © ER(DTR/CTS) C XDN/XDFF
Timeout 3 📑 (sec)
Retry 2
Wait To Send 0 💼 (ms)
ExtentionMode
Exist Sum Check
Exist Terminator
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. Default
Device-Specific Settings
Allowable Number of Devices/PLCs 16
Number Device Name Settings Image: PLC1 Image: Setting S

Device Setting

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

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

💰 Individual Devi	ce Settings	×
PLC1		
Series	C FACTORY ACE Series	
	M&C Controllers	
	of address settings that you changed the series.	
Controller Type	UT2000	•
Controller Model	UT2400	•
Station No.	1	÷
	Default	
	OK (<u>O</u>) Cancel]

- Caution
 - Always put a check on the [Extension Mode]-[Exist Terminator] of the communication setting.
 - Remove the check from the [Extension Mode]-[Exist Sum Check] of the communication setting.

Setting of External Device

Use the DIP switch for protocol selection, rotary switch for communication setting and rotary switch for station number selection in front of the controller for communication settings of the External Device. Please refer to the manual of the controller for more details.

Procedure

- 1 Turn DIP switch for protocol selection "ON (PC-link communication)."
- **2** Set "2" to rotary switch for communication setting.
- **3** Set "0" to rotary switch for station number selection.

3.19 Setting Example 19

- Setting of GP-Pro EX
- Communication Settings

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

Device/PLC 1
Summary Change Device/PLC
Maker YDKOGAWA Electric Corporation Series Personal Computer Link SIO Port COM1
Text Data Mode 1 Change
Communication Settings
SID Type C RS232C C RS422/485(2wire) 💿 RS422/485(4wire)
Speed 9600
Data Length 🔿 7 💿 8
Parity C NONE © EVEN C ODD
Stop Bit
Flow Control C NDNE © ER(DTR/CTS) C XDN/X0FF
Timeout 3 💼 (sec)
Retry 2
Wait To Send 🛛 📑 (ms)
Exist Terminator
RI/VCC © BI O VCC
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C
Isolation Unit, please select it to VCC. Default
Device-Specific Settings
Allowable Number of Devices/PLCs 16
Number Device Name Settings Number Device Name Settings Image: PLC1 Image: Setting Setti

Device Setting

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

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

💰 Individual Devi	ce Settings	×		
PLC1				
Series	C FACTORY ACE Series			
	M&C Controllers			
Please reconfirm all of address settings that you are using if you have changed the series.				
Controller Type	UT2000	-		
Controller Model	UT2800	•		
Station No.	1	÷		
	Default			
	OK (<u>O)</u> Cancel]		

- Caution
 - Always put a check on the [Extension Mode]-[Exist Terminator] of the communication setting.
 - Remove the check from the [Extension Mode]-[Exist Sum Check] of the communication setting.

Setting of External Device

Use the DIP switch for protocol selection, rotary switch for communication setting and rotary switch for station number selection in front of the controller for communication settings of the External Device. Please refer to the manual of the controller for more details.

Procedure

- 1 Turn DIP switch for protocol selection "ON (PC-link communication)."
- **2** Set "2" to rotary switch for communication setting.
- **3** Set "0" to rotary switch for station number selection.

3.20 Setting Example 20

- Setting of GP-Pro EX
- Communication Settings

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

Device/PLC 1	
Summary	Change Device/PLC
Maker YOKOGA	WA Electric Corporation Series Personal Computer Link SIO Port COM1
Text Data Mode	1 Change
Communication Settings	
SIO Type	RS232C RS422/485(2wire) RS422/485(4wire)
Speed	9600
Data Length	C 7 C 8
Parity	O NONE O EVEN O ODD
Stop Bit	
Flow Control	O NONE O ER(DTR/CTS) O XON/XOFF
Timeout	3 💼 (sec)
Retry	2 *
Wait To Send	0 🗮 (ms)
ExtentionMode	
Exist Sum Check	
💌 Exist Terminator	
RI / VCC	O RI O VCC
In the case of RS2	32C, you can select the 9th pin to RI (Input)
or VCC (5V Power Isolation Unit, plea	Supply). If you use the Digital's RS232C se select it to VCC. Default
Device-Specific Settings	
Allowable Number of	Devices/PLCs 16
Number Device N	
👗 1 PLC1	Series=FACTORY ACE Series,Station No.=1

Device Setting

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

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

💰 Individual Dev	ice Settings	×
PLC1		
Series	• FACTORY ACE	Series
	O M&C Controllers	\$
	l of address settings e changed the series	
Controller Type	Digital Indicating (Controllers 💌
Controller Model	UT320	~
Station No.	1	
		Default
	OK (<u>D)</u>	Cancel

Setting of External Device

Use the ladder software (Wide Field2) for communication settings of the External Device. Please refer to each maker's manual of the External Device for more detail.

Procedure

- 1 Start the ladder software.
- 2 Create a ladder program in the [New] dialog box.
- **3** Insert the ladder program in the [Define Program Components] dialog box.
- **4** Double-clink [Configuration] in the tree view to display the [Configuration] dialog box.
- **5** Select "9600bps Even Parity" in [Communication Mode] of the [Communications Setup] tab.
- 6 Check the "Use Personal Computer Link" and "End Character" check boxes in the [CPU Personal Computer Link] of the [Communications Setup] tab.
- 7 Click [OK].
- 8 From the [Online] menu, select [Connect] and transfer the communication settings to the external device. Then the communication setting is finished.

4 Setup Items

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

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

"3 Example of Communication Setting" (page 9)

4.1 Communication Setting with GP-Pro EX

Communication Settings

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

Device/PLC 1			
Summary			Change Device/PLC
Maker	YOKOGAV	VA Electric Corpor	ation Series Personal Computer Link SIO Port COM1
Text Data	a Mode 🛛 🗍	1 <u>Change</u>	
Communication	n Settings		
SIO Type	а	RS232C	C RS422/485(2wire) C RS422/485(4wire)
Speed		19200	T
Data Len	ngth	O 7	• 8
Parity		NONE	O EVEN O ODD
Stop Bit		⊙ 1	© 2
Flow Con	ntrol	C NONE	ER(DTR/CTS) C XON/XOFF
Timeout		3 ÷ (s	ec)
Retry		2	
Wait To S	Send	0 📑 (r	ns)
Extention	nMode ——		
🔲 Exist 🤅	Sum Check		
🔽 Exist	Terminator		
RI / VCC	;	• RI	C VCC
or VCC	: (5V Power S	upply). If you use	t the 9th pin to RI (Input) the Digital's RS232C
Isolation	n Unit, please	select it to VCC.	Default
Device-Specif	fic Settings		
Allowable	e Number of D	evices/PLCs	16 📊
Number		me	Settings
👗 1	PLC1		Series=FACTORY ACE Series,Station 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	Select the communication control method to prevent overflow of transmission and reception data.	
Timeout	Use an integer from 1 to 127 to enter the time (s) for which the Display waits for the response from the External Device.	
Retry	In case of no response from the External Device, use an integer from 0 to 255 to enter how many times the Display retransmits the command.	

continued to 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.
Exist Sum Check (Extension Mode)	Set whether you perform the sum check.
Exist Terminator (Extension Mode)	Set whether you specify the data terminator.
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.

Device Setting

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

When [Allowable No. of Device/PLCs] is multiple, click if from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

💰 Individual Devid	ce Settings	×		
PLC1				
Series	C FACTORY ACE Series			
	M&C Controllers			
Please reconfirm all of address settings that you are using if you have changed the series.				
Controller Type	Digital Indicating Controllers	-		
Controller Model	UT320	-		
Station No.	1	3		
	Default			
	OK (<u>0)</u> Cancel			

Setup Items	Setup Description	
Series	Select the External Device series.	
Controller Type	Select the controller type. This can be set only by selecting "M & C Controllers" of [Series].	
Controller Model	Select the controller model. This can be set only by selecting "M & C Controllers" of [Series].	
Station No.	Use an integer 0 to 32 to enter the station number of the External Device to communicate.	

4.2 Communication Settings in Off-line Mode

NOTE

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

Cf. Maintenance/Troubleshooting "2.2 Offline Mode"

Communication Settings

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

Comm.	Device	Option		
Personal Comput	er Link SIO		[COM1]	Page 1/1
	SIO Type Speed Data Length Parity Stop Bit Flow Control	RS232C 19200 7 • NONE • 1 FER(DTR/C	• 8 • EVEN • 2 TS)	I ODD
	Timeout(s) Retry Wait To Send(ms)	·		
	Exist Check Sum Exist Terminator Exit	 OFF OFF 	ON ON Back	2007/04/01 22:02:12

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

continued to next page

Setup Items	Setup Description
Retry	In case of no response from the External Device, use an integer from 0 to 255 to enter how many times the Display retransmits the command.
Wait To Send	Use an integer from 0 to 255 to enter standby time (ms) for the Display from receiving packets to transmitting next commands.
Exist Check Sum	Set whether you perform the check sum.
Exist Terminator	Set whether you specify the data terminator.

Device Setting

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

Comm	Device	Option		
Personal Comput	er Link SIO		[COM1]	Page 1/1
Devic	e/PLC Name 🛛 🛛 🦷	LC1		
	Series Station No.	FACTORY F	NCE Series 1 ▼ ▲]
	Exit		Back	2007/04/01 22:02:17

Setup Items	Setup Description		
Device/PLC Name	Select the External Device for device setting. Device name is a title of External Device set with GP-Pro EX.(Initial value [PLC1])		
Series	Display the External Device series.		
Station No.	Use an integer 0 to 32 to enter the station number of the External Device to communicate.		

Option

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

Comm.	Device	Option		
Personal Comput	RI / VCC In the case	• RI of RS232C, you to RI(Input) or	can select	Page 1/1
		y).If you use th ation Unit, plea		
	Exit		Back	2007/04/01 22:02:22

Setup Items	Setup Description		
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.		

5 Cable Diagram

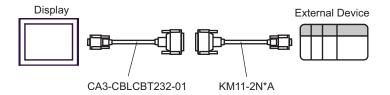
The cable diagram shown below may be different from the cable diagram recommended by YOKOGAWA Electric Corporation. Please be assured there is no operational problem in applying the cable diagram shown in this manual.

- 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..

Cable Diagram1

Display (Connection Port)	Cable	Notes
GP (COM1) ST (COM1) IPC ^{*1} PC/AT	9-pin-to-25-pin RS-232C Conversion Cable by Pro-face CA3-CBLCBT232-01 + Programming tool cable by YOKOGAWA Electric Corporation KM11-2N*A	The cable length must be 15m or less.

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



Cable Diagram 2

Display (Connection Port)	Cable	Notes
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) IPC ^{*3}	A COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	B Your own cable	
GP ^{*4} (COM2)	C Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	_
	D Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A

- *3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 IPC COM Port (page 6)
- *4 All GP models except GP-3200 series and AGP-3302B

NOTE

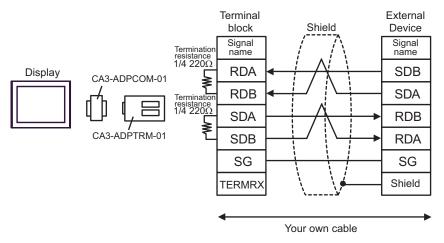
• Attach the termination resistance to the devices on both ends.

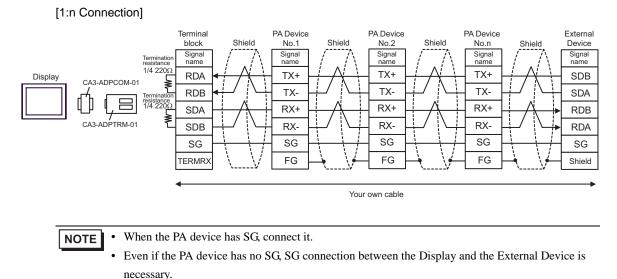
• Note that pole A and pole B are reversely named for the Display and the External Device.

- When the PA device has SG, connect it.
- Set the last resistance switch of the personal computer link module for the External Device which terminates the connection to 4-WIRE.
- We recommend CO-SPEU-SB(A)3P x 0.5SQ by Hitachi Cable, Ltd. for the connection cable.
- Total cable length is 1000m.
- Set the station No. for the personal computer link module to 2 to 32.
- You must set the different station No. of all PA devices connected to the Display. If there are more than 2 PA devices with the same station No., error occurs.
- Perform the identical communication settings for both the Display (m units) and the PA device (n units).

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

[1:1 Connection]

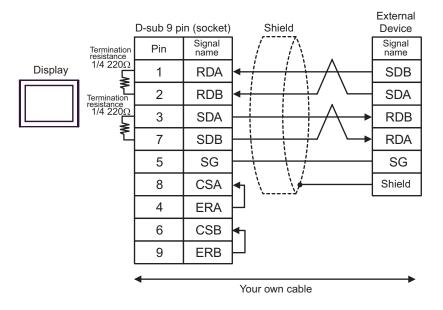




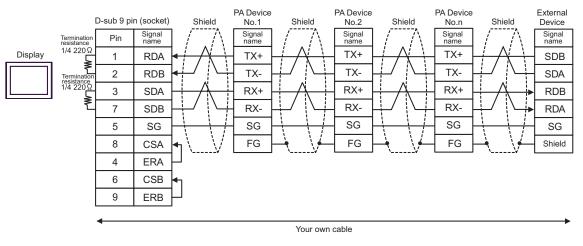
• When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

B) When using your own cable

[1:1 Connection]



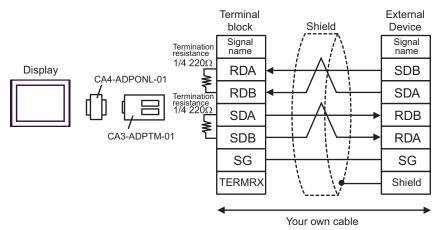
[1:n Connection]

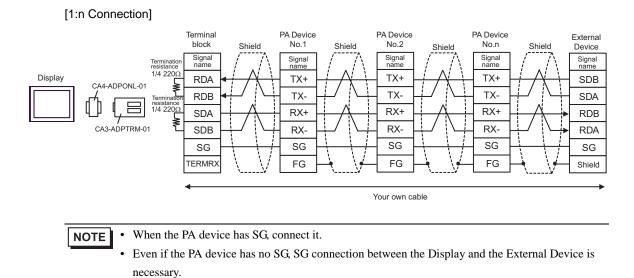


NOTE • When the PA device has SG, connect it.

- Even if the PA device has no SG, SG connection between the Display and the External Device is necessary.
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

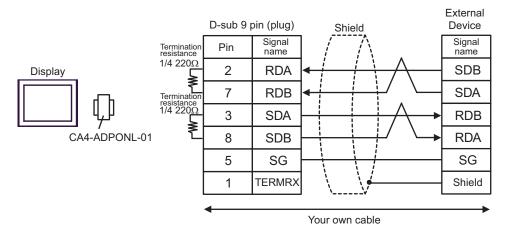
C) When using the online adapter (CA4-ADPONL-01) by Pro-face, the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable



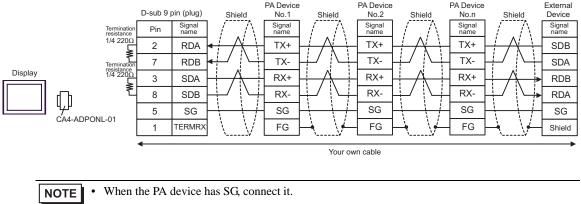


D) When using the online adapter (CA4-ADPONL-01) by Pro-face and your own cable

[1:1 Connection]



[1:n Connection]



• Even if the PA device has no SG, SG connection between the Display and the External Device is necessary.

Cable Diagram 3

Display (Connection Port)	Cable	Notes
GP (COM1) ST (COM1) IPC ^{*1} PC/AT	Your own cable	The cable length must be 15m or less.

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

IPC COM Port (page 6)

	D-sub 9	pin (socket)		External	Device
Pin 1	Pin	Signal name	Shield	Pin	Signal name
	1	CD	/	1	CD
	2	RD(RXD)		2	RD
Display	3	SD(TXD)		3	SD
	6	DR(DSR)		4	ER
	5	SG		5	SG
	4	ER(DTR)	┝	6	DR
	7	RS(RTS)		7	RS
	8	CS(CTS)	┝╾┙╲ ╵ ╲ ╵ └ ╺┝	8	CS
	9	RI/VCC		9	FG

Cable Diagram 4

Display (Connection Port)		Cable	Notes
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2)	А	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	В	Your own cable	
GP ^{*3} (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	_
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	
IPC ^{*4}	Е	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	F	Your own cable	

*1 All GP models except AGP-3302B

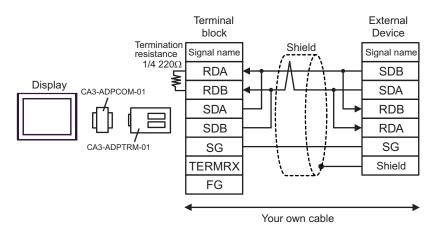
*2 All ST models except AST-3211A

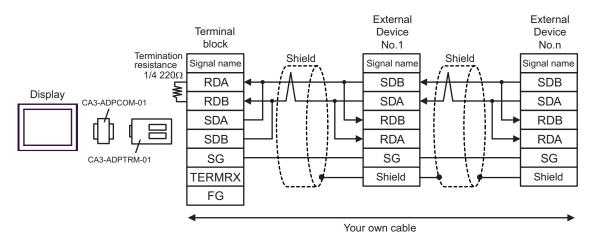
- *3 All GP models except GP-3200 series and AGP-3302B
- *4 Only the COM port which can communicate by RS-422/485 (2 wire) can be used.
 IPC COM Port (page 6)

- When the PA device has SG, connect it.
- Set the last resistance switch of the personal computer link module for the External Device which terminates the connection to 2-WIRE.
- We recommend CO-SPEU-SB(A)3P x 0.5SQ by Hitachi Cable, Ltd. for the connection cable.
- Total cable length is 1000m.

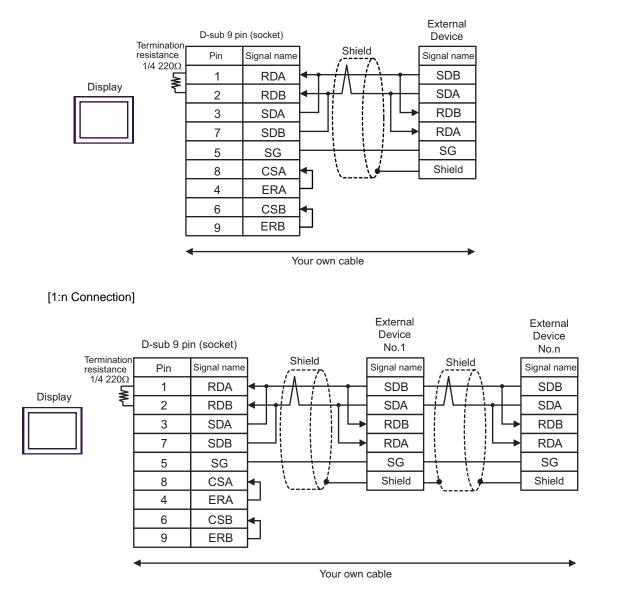
A) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable

[1:1 Connection]



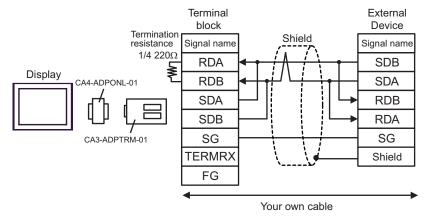


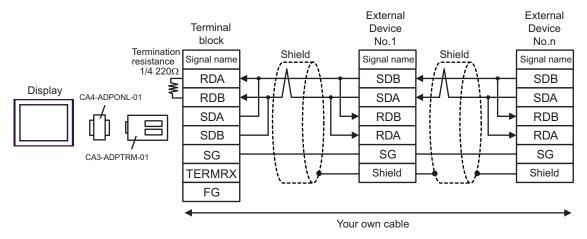
B) When using your own cable



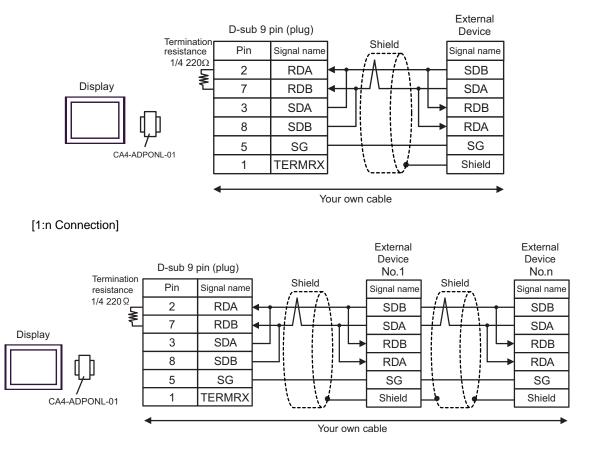
C) When using the online adapter (CA4-ADPONL-01) by Pro-face, the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable

[1:1 Connection]



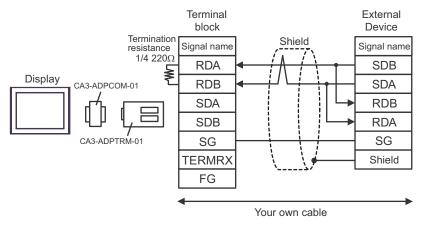


D) When using the online adapter (CA4-ADPONL-01) by Pro-face and your own cable

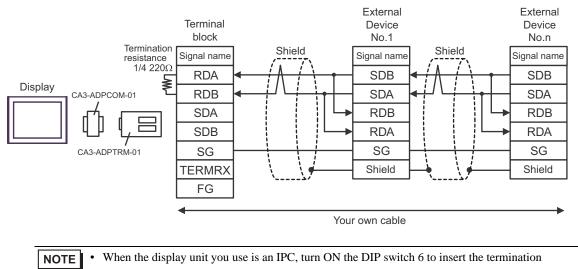


- E) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter
 - (CA3-ADPTRM-01) by Pro-face and your own cable

[1:1 Connection]



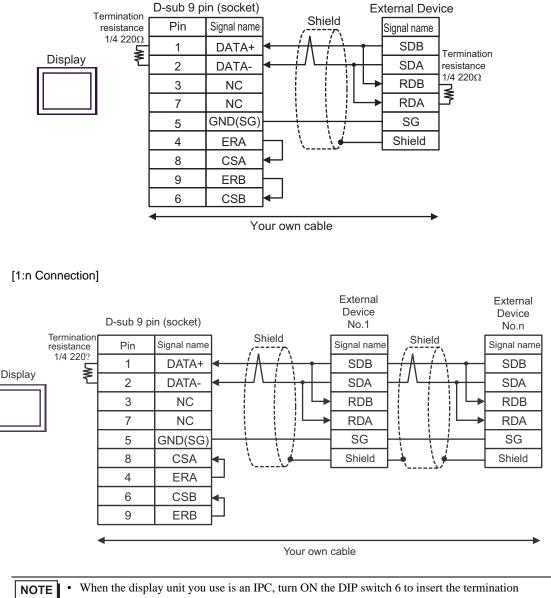
[1:n Connection]



resistance.

F) When using your own cable

[1:1 Connection]



resistance.

Cable Diagram 5

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

*1 All GP models except AGP-3302B

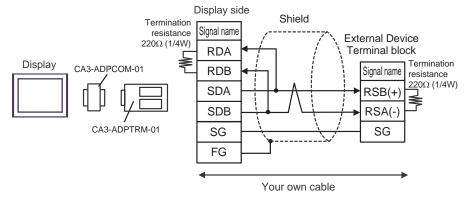
*2 All ST models except AST-3211A

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

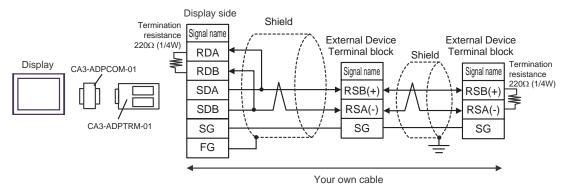
*4 Only the COM port which can communicate by RS-422/485 (2 wire) can be used.

IPC COM Port (page 6)

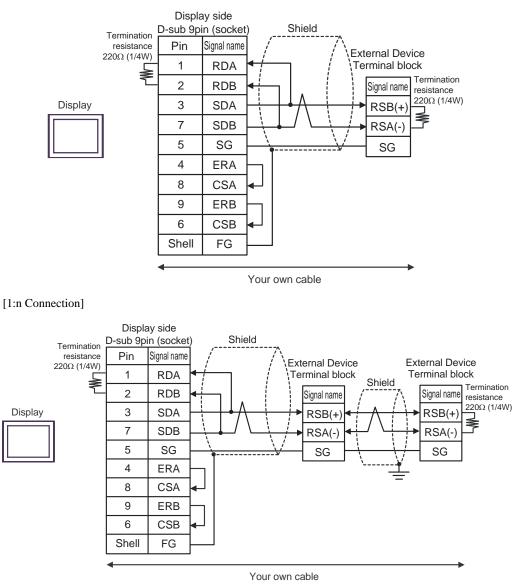
A) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable



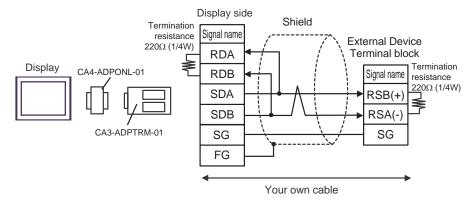




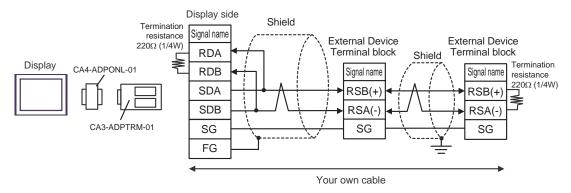
B) When using your own cable



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

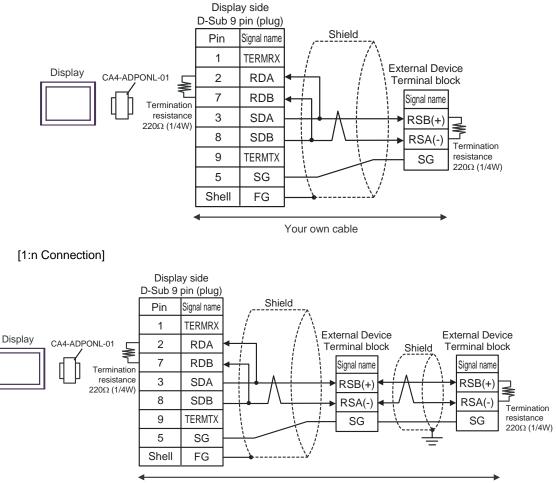






D) When using the online adapter (CA4-ADPONL-01) by Pro-face and your own cable

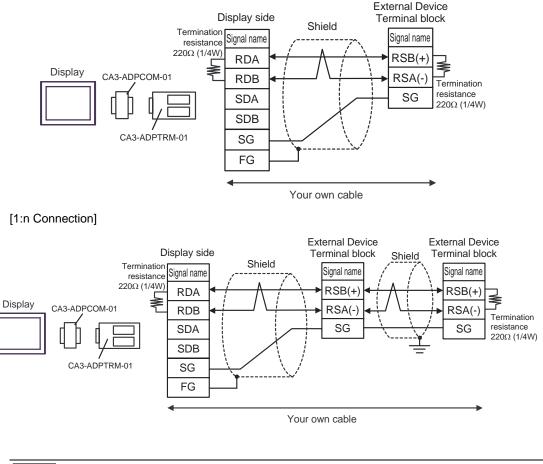
[1:1 Connection]



Your own cable

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

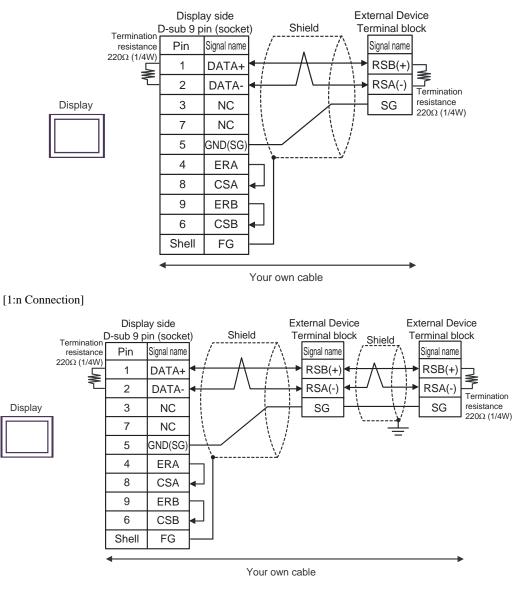
[1:1 Connection]



• When the display unit you use is an IPC, turn ON the DIP switch 6 to insert the termination resistance.

F) When using your own cable

[1:1 Connection]



• When the display unit you use is an IPC, turn ON the DIP switch 6 to insert the termination resistance.

Cable Diagram 6

Display (Connection Port)		Cable	Notes
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) LT (COM1) IPC ^{*3}	А	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	В	Your own cable	
GP ^{*4} (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	The cable length must be 1000m or less.
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

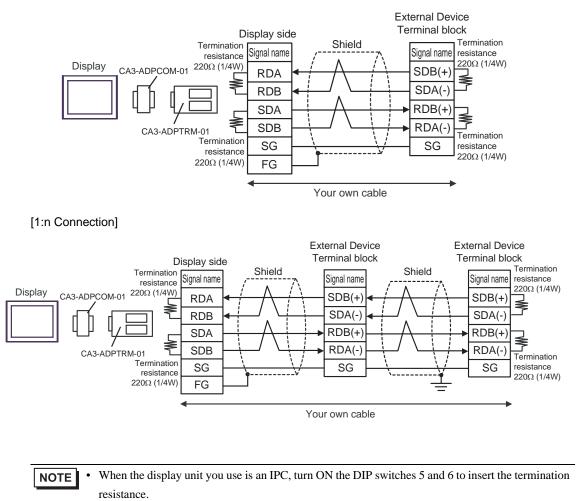
*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A

*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. ☞ ■ IPC COM Port (page 6)

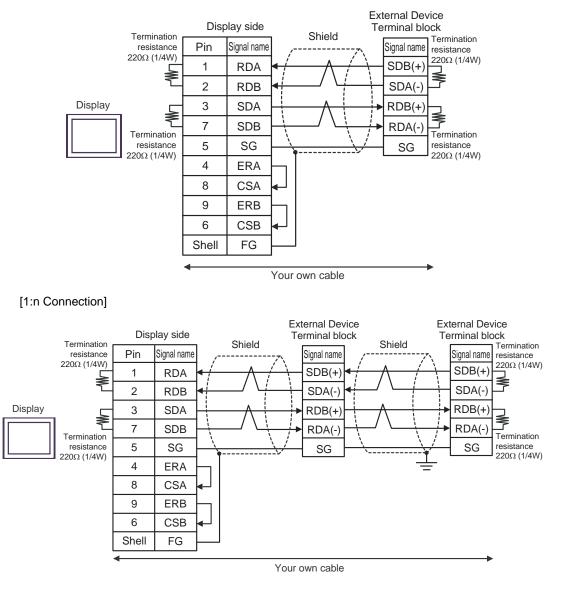
*4 All GP models except GP-3200 series and AGP-3302B

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



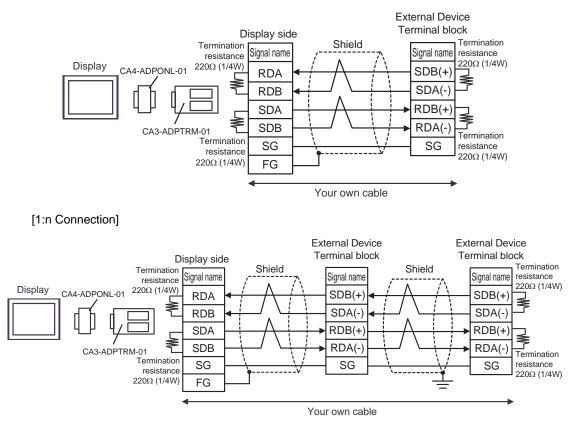
B) When using your own cable

[1:1 Connection]

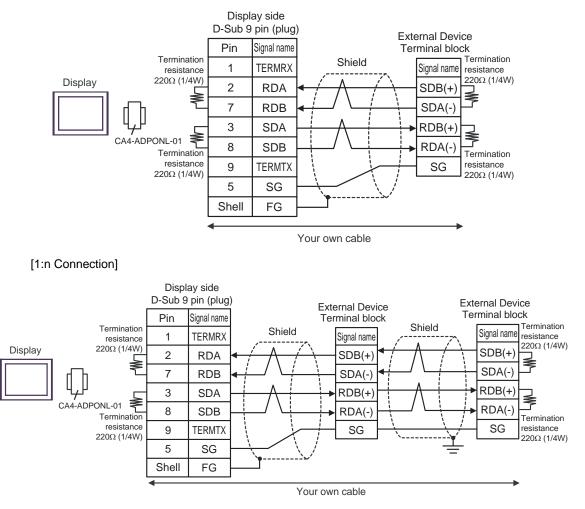


• When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

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



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



Cable Diagram 7

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

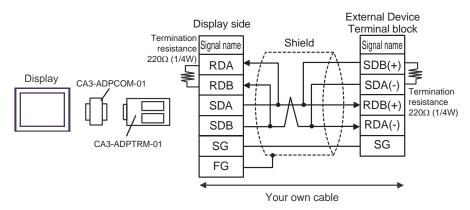
*1 All GP models except AGP-3302B

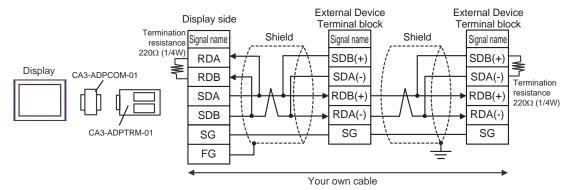
*2 All ST models except AST-3211A

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

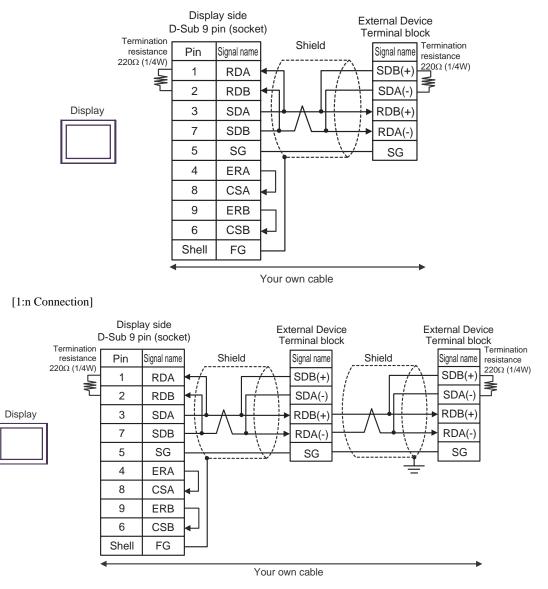
*4 Only the COM port which can communicate by RS-422/485 (2 wire) can be used. ☞ ■ IPC COM Port (page 6) A) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable

[1:1 Connection]



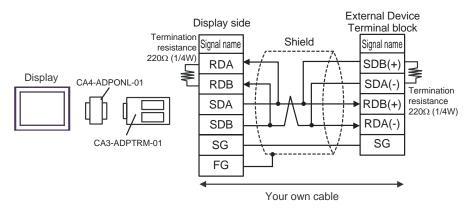


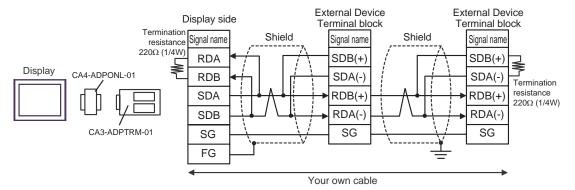
B) When using your own cable



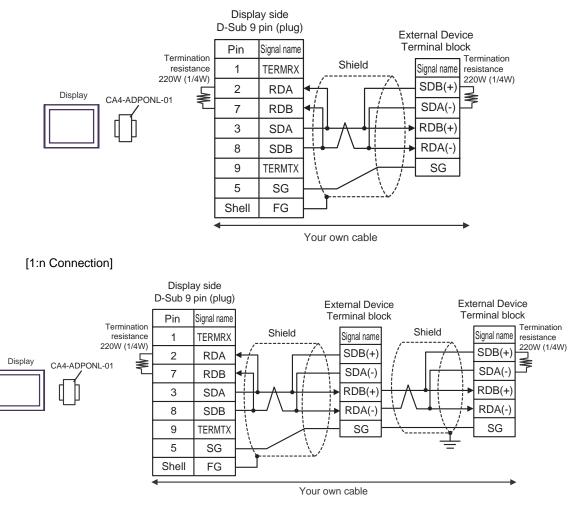
C) When using the online adapter (CA4-ADPONL-01) by Pro-face, the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable

[1:1 Connection]



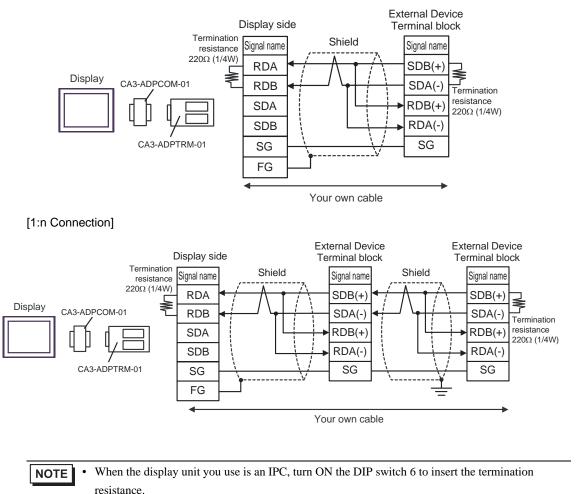


D) When using the online adapter (CA4-ADPONL-01) by Pro-face and your own cable

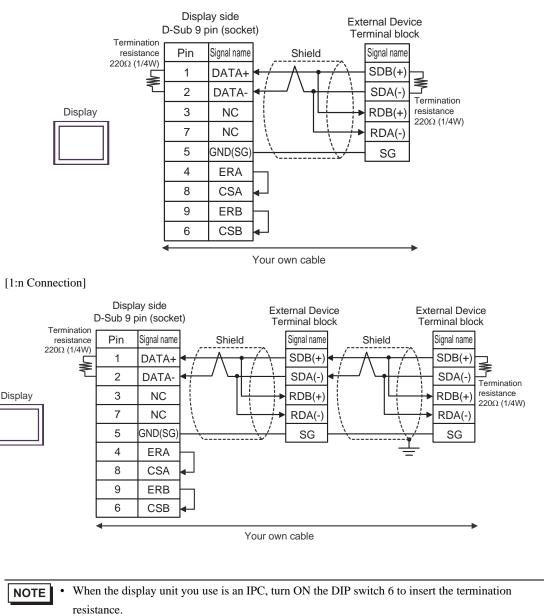


E) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter

(CA3-ADPTRM-01) by Pro-face and your own cable



F) When using your own cable



Cable Diagram 8

Display (Connection Port)		Cable	Notes
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) LT (COM1) IPC ^{*3}	A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	В	Your own cable	
GP ^{*4} (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	The cable length must be 1000m or less.
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

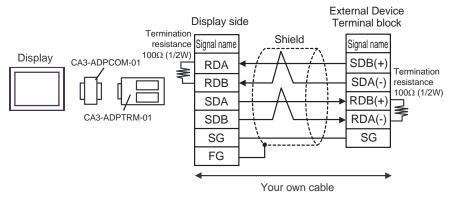
*1 All GP models except AGP-3302B

*2 All ST models except AST-3211A

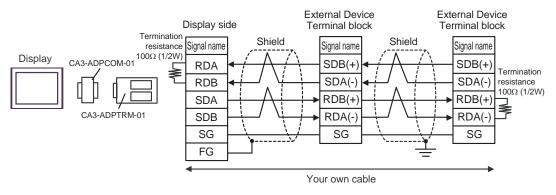
*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. ☞ ■ IPC COM Port (page 6)

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

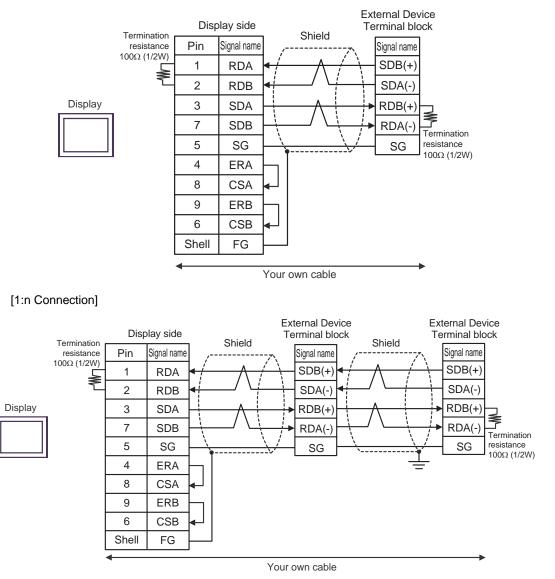
A) When using the COM port conversion adapter (CA3-ADPCOM-01), the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable



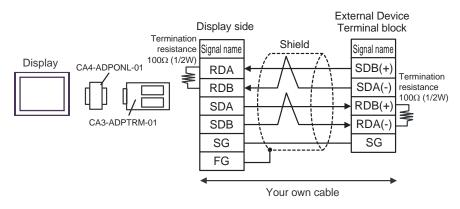




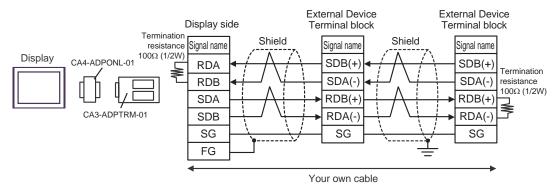
B) When using your own cable



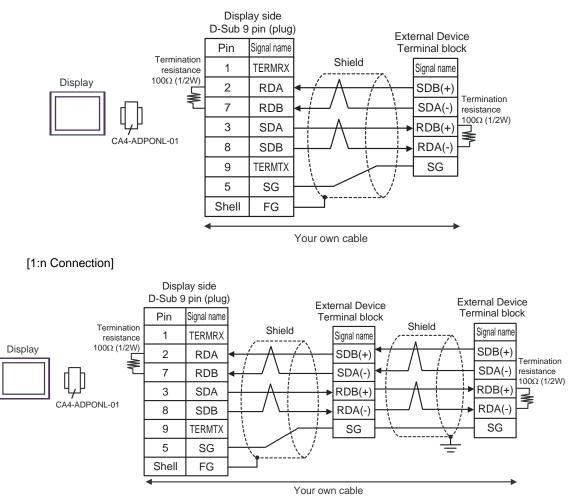
C) When using the online adapter (CA4-ADPONL-01) by Pro-face, the terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable







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

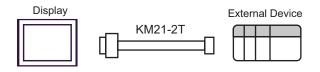


Cable Diagram 9

Display (Connection Port)	Cable	Notes
GP (COM1) ST (COM1) IPC ^{*1} PC/AT	Cable for SIO port by YOKOGAWA Electric Corporation KM21-2T	_

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

■ IPC COM Port (page 6)



6 Supported Device

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

Enter the External Device address in the dialog below.



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.

[Reference] is displayed when "M & C Controllers" of the series of the external device is selected.

6.1 FACTRY ACE series

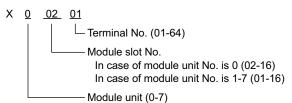
When using Programming port on CPU or personal computer link module:

This address can be specified as system data area.

Device	Bit Address	Word Address	32bits	Notes
Input Relay	X00201 - X71664	X00201 - X71649		+18+ 1 *1*2
Output Relay	Y00201 - Y71664	Y00201 - Y71649		+16+ 1 *1
Internal Relay	I00001 - I65535	I00001 - I65521		÷16+ 1
Common Relay	E0001 - E4096	E0001 - E4081		÷16+ 1
Special Relay	M0001 - M9984	M0001 - M9969		+16+ 1
Link Relay	L00001 - L78192	L00001 - L78177		<u>+16+</u>]*4
Timer (Contact)	TU0001 - TU3072			
Counter (Contact)	CU0001 - CU3072			
Timer (Current Value)		TP0001 - TP3072		
Timer (Setting Value)		TS0001 - TS3072		*2
Counter (Current Value)		CP0001 - CP3072		
Counter (Setting Value)		CS0001 - CS3072		*2
Data Register		D00001 - D65535		_{в і т} 15
File Register		B000001 - B262144	[_[L/H]	Bit 15 *3
General Register		R0001 - R4096		_{в і т} 15
Special Register		Z0001 - Z1024		_{в і т} 15
Link Register		W00001 - W78192		<u>ві t</u> 15) *4
Special Module		SW0010000 - SW7169999		*2 *5
		INF100 - INF101		*2 *6
		INF200 - INF214		*2 *6
Information		INF30010 - INF37163		*2 *6
		INF4100 - INF4215		ві т 15 *2 *6
		INF500		*2*6
Program Information		PRI00000 - PRI99913		*2*7
User Log Read		ULR000000 - ULR064128		*2*8
Error History Read		ERH000000 - ERH128000		*2*9

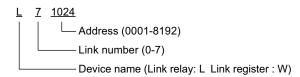
*1 Address input area for input relay (X) and output relay (Y) is shown below.

When you specify the word address, specify the terminal number with the value of (a multiple of 16) + 1. Example: X00201



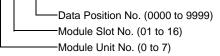
- *2 Write disable
- *3 When using the personal computer link module for connection, you can use up to B99999.
- *4 In link relay (L) and link register (W), the upper 1st digit on address input area shows the link number, and lower 4th digit shows the address. Specify the word address for link relay (L) and link register (W) with the value of (a multiple of 16) + 1.

Example: When specifying L71024 of link relay



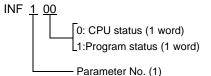
*5 Information of Special Module Read/Write

SW<u>0 01 0003</u>

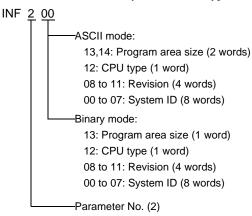


*6 Information Read

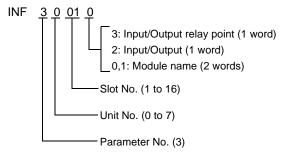
1. Read the status of CPU module and program



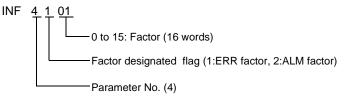
2. Read the information of system ID, CPU type and area size



3. Read the mounting module name



4. Read the ERR LED of CPU module or the ALM LED lighting factor



5. Delete the current alarm information of CPU module (write only)

INF <u>5</u>00

Parameter No. (5)

*7 Program Information Read When 000 is written in Read information PRI 000 00 -ASCII mode: Creation date: 7 to 13 (7 words) Size step No.: 4 to 6 (3 words) Program name: 0 to 3 (4 words) Binary mode: Creation date: 6 to 10 (5 words) Size step No.: 4 to 5 (2 words) Program name: 0 to 3 (4 words) Read information (000: Program name, Creation date) When one of the numbers from 001 to 999 is written in Read information PRI 000 00 ASCII mode: Size step No.: 4 to 6 (3 words) Program name: 0 to 3 (4 words) Binary mode: Size step No.: 4 to 5 (2 words) Program name: 0 to 3 (4 words) Read information (001 to 999: Reading such as the block names of No.n) *8 User Log Read ULR 000 000 User log: 0 to 128 (word) User log reading point 000: Latest user log 001 to 064: No.n user log from new data *9 Error History Read ERH 000 000 ASCII mode: 0: Error information (00: System error, 01: BASIC error, 02: Sequence error, 03: I/O error) 1, 2: Error code (Charactor string) 3 to 6: Date (YY/MM/DD) charactor string 7 to 10: Time (HH:MM:SS) charactor string 11 to 22: Added information (Charactor string) Binary mode: 0: Error information (0000: System error, 0001: BASIC error, 0002: Sequence error, 0003: I/O error) 1: Error code 2 to 4: Date (YYY/MMMM/DDDD) 5 to 7: Time (HHHH:MMMM:SSSS) 8 to 18: Added information Error history reading point 000: Latest user log

001 to 128: No.n user log from new data

NOTE	•	Please refer to the GP-Pro EX Reference Manual for system data area.
·		Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)" Please refer to the precautions on manual notation for icons in the table.
		"Manual Symbols and Terminology"

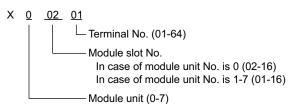
When using SIO port on CPU unit:

This address can be specified as system data area.

Device	Bit Address	Word Address	32bits	Notes
Input Relay	X00201 - X71664	X00201 - X71649	_	÷16+ 1 *1*2
Output Relay	Y00201 - Y71664	Y00201 - Y71649		÷16+ 1 *1
Internal Relay	I00001 - I32768	I00001 - I32753		÷16+ 1
Common Relay	E0001 - E4096	E0001 - E4081		÷16+ 1
Special Relay	M0001 - M9984	M0001 - M9969		÷16+
Link Relay	L00001 - L78192	L00001 - L78177		÷1B+ 1 *3
Timer (Contact)	TU0001 - TU3072			
Counter (Contact)	CU0001 - CU3072			
Timer (Current Value)		TP0001 - TP3072]	
Timer (Setting Value)		TS0001 - TS3072		*2
Counter (Current Value)		CP0001 - CP3072		
Counter (Setting Value)		CS0001 - CS3072		*2
Data Register		D00001 - D32768		_{в і т} 15
File Register		B000001 - B262144	[L/H)	_{в і т} 15
General Register		R0001 - R4096		_{ві 1} 15
Special Register		Z0001 - Z1024		_{в і т} 15
Link Register		W00001 - W78192		<u>ві t</u> 15 *3
Special Module		SW0010000 - SW7169999		*2 *4
		INF100 - INF101		*2 *5
		INF200 - INF214		*2 *5
Information		INF30010 - INF37163		*2 *5
		INF4100 - INF4215		<u>ві t15</u> *2 *5
		INF500		*2*5
Program Information		PRI00000 - PRI99913]	*2*6
User Log Read		ULR000000 - ULR064128		*2*7
Error History Read		ERH000000 - ERH128000		*2*8

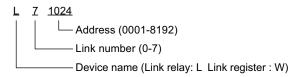
*1 Address input area for input relay (X) and output relay (Y) is shown below.

When you specify the word address, specify the terminal number with the value of (a multiple of 16) + 1. Example: X00201



- *2 Write disable
- *3 In link relay (L) and link register (W), the upper 1st digit on address input area shows the link number, and lower 4th digit shows the address. Specify the word address for link relay (L) and link register (W) with the value of (a multiple of 16) + 1.

Example: When specifying L71024 of link relay



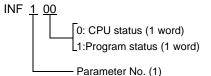
*4 Information of Special Module Read/Write

SW<u>0 01 0003</u>

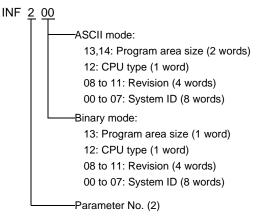
Data Position No. (0000 to 9999) Module Slot No. (01 to 16) Module Unit No. (0 to 7)

*5 Information Read

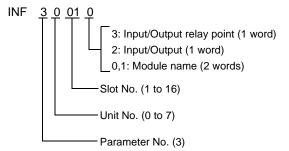
1. Read the status of CPU module and program



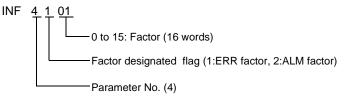
2. Read the information of system ID, CPU type and area size



3. Read the mounting module name



4. Read the ERR LED of CPU module or the ALM LED lighting factor



5. Delete the current alarm information of CPU module (write only)

INF <u>5</u>00

Parameter No. (5)

*6 Program Information Read When 000 is written in Read information PRI 000 00 -ASCII mode: Creation date: 7 to 13 (7 words) Size step No.: 4 to 6 (3 words) Program name: 0 to 3 (4 words) Binary mode: Creation date: 6 to 10 (5 words) Size step No.: 4 to 5 (2 words) Program name: 0 to 3 (4 words) Read information (000: Program name, Creation date) When one of the numbers from 001 to 999 is written in Read information PRI 000 00 ASCII mode: Size step No.: 4 to 6 (3 words) Program name: 0 to 3 (4 words) Binary mode: Size step No.: 4 to 5 (2 words) Program name: 0 to 3 (4 words) Read information (001 to 999: Reading such as the block names of No.n) *7 User Log Read ULR 000 000 User log: 0 to 128 (word) User log reading point 000: Latest user log 001 to 064: No.n user log from new data *8 Error History Read ERH 000 000 ASCII mode: 0: Error information (00: System error, 01: BASIC error, 02: Sequence error, 03: I/O error) 1, 2: Error code (Charactor string) 3 to 6: Date (YY/MM/DD) charactor string 7 to 10: Time (HH:MM:SS) charactor string 11 to 22: Added information (Charactor string) Binary mode: 0: Error information (0000: System error, 0001: BASIC error, 0002: Sequence error, 0003: I/O error) 1: Error code 2 to 4: Date (YYY/MMMM/DDDD) 5 to 7: Time (HHHH:MMMM:SSSS) 8 to 18: Added information Error history reading point 000: Latest user log

001 to 128: No.n user log from new data

NOTE	•	Please refer to the GP-Pro EX Reference Manual for system data area.
·		Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)" Please refer to the precautions on manual notation for icons in the table.
		"Manual Symbols and Terminology"

6.2 Temperature Controllers (UT100 Series)

UT130/UT150/UT152/UT155

This address can be specified as system data area.

Device	Bit Address	Word Address	32bits	Notes
I Relay	I0001 - I0048	I0001 - I0033		÷16+ 1 *1
D Register		D0001 - D0420	LIH	Bit 15 *1,*2

*1 There are write-protected areas and usage- disabled areas within the displayed addresses. Please check the controllers' manuals to get the description of function and usage of the registers for detail.

*2 Only D401 to D420 may be allocated as system area memory for the controller. Be careful of this point when the system area is set in GP-Pro EX or OFFLINE mode.

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

> Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)" • Please refer to the precautions on manual notation for icons in the table.

"Manual Symbols and Terminology"

UP150

This address can be specified as system data area.

Device	Bit Address	Word Address	32bits	Notes
I Relay	I0001 - I0054	I0001 - I0049	п ин	÷16+ 1 *1
D Register		D0001 - D0420	LIH	Bit 5 *1, *2

*1 There are write-protected areas and usage- disabled areas within the displayed addresses. Please check the controllers' manuals to get the description of function and usage of the registers for detail.

*2 Only D401 to D420 may be allocated as system area memory for the controller. Be careful of this point when the system area is set in GP-Pro EX or OFFLINE mode.

NOTE

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

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

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

"Manual Symbols and Terminology"

6.3 Digital Indicating Controllers

UT320/UT350

This address can be specified as system data area.

Device	Bit Address	Word Address	32bits	Notes
I Relay	I0001 - I0784	I0001 - I0769	п ин	÷16+ 1 *1
D Register		D0001 - D1300		Bit 15 *1,*2

*1 There are write-protected areas and usage- disabled areas within the displayed addresses. Please check the controllers' manuals to get the description of function and usage of the registers for detail.

*2 Only D50 to D100 may be allocated as system area memory for the controller. Be careful of this point when the system area is set in GP-Pro EX or OFFLINE mode.

- **NOTE** Please refer to the GP-Pro EX Reference Manual for system data area.
 - Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"Please refer to the precautions on manual notation for icons in the table.

"Manual Symbols and Terminology"

■ UT420/UT450

This address can be specified as system data area.

Device	Bit Address	Word Address	32bits	Notes
I Relay	I0001 - I2048	I0001 - I2033	п ин	÷16+ 1 *1
D Register		D0001 - D1300	LIH	Bit 15 *1, *2

T

*1 There are write-protected areas and usage- disabled areas within the displayed addresses. Please check the controllers' manuals to get the description of function and usage of the registers for detail.

*2 Only D50 to D100 may be allocated as system area memory for the controller. Be careful of this point when the system area is set in GP-Pro EX or OFFLINE mode.



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

Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)" • Please refer to the precautions on manual notation for icons in the table.

⁽³⁾ "Manual Symbols and Terminology"

6.4 UT2000

This address can be specified as system data area.

Device	Bit Address	Word Address	32bits	Notes
I Relay	I0001 - I1024	I0001 - I1009		÷16+ 1 *1
D Register		D0001 - D1024		в і т 15] *1

E

*1 There are write-protected areas and usage- disabled areas within the displayed addresses. Please check the controllers' manuals to get the description of function and usage of the registers for detail.

• Of the system area settings, only reading area size can be used by the controller. Please refer to the GP-Pro EX Reference Manual for reading area size.

Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"Please refer to the precautions on manual notation for icons in the table.

"Manual Symbols and Terminology"

7 Device Code and Address Code

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

7.1 FACTORY ACE Series

Device	Device Name	Device Code (HEX)	Address Code
Input Relay	1X	0080	
	2X	0180	(Module unit No. x $0x40$) + ((Module slot No 1) x $0x4$) + ((Terminal No 1) divided by 16) ^{*1}
	3X	0280	
	4X	0380	
	1Y	0081	
Output Relay	2Y	0181	(Module unit No. x 0x40) + ((Module slot No 1) x 0x4) + ((Terminal No 1)
Output Kelay	3Y	0281	divided by 16) ^{*1}
	4Y	0381	
	11	0082	
Internal Relay	21	0182	Value of (word address - 1) divided by 16
Internal Relay	31	0282	value of (word address - 1) divided by 10
	4I	0382	
	1E	0084	- Value of (word address - 1) divided by 16
Common Relay	2E	0184	
Common Relay	3E	0284	
	4E	0384	
	1 M	0083	
Special Relay	2M	0183	Value of (word address - 1) divided by 16
Special Kelay	3M	0283	value of (word address - 1) divided by 10
	4M	0383	
	1L	0088	
Link Relay	2L	0188	(Link No. x 0x10000) + ((Word Address - 1) divided by 16) ^{*2}
	3L	0288	
	4L	0388	
Timer (Current Value)	1TP	0060	
	2TP	0160	Word Address 1
	3TP	0260	Word Address - 1
	4TP	0360	

Device	Device Name	Device Code (HEX)	Address Code
Timer (Setting Value)	1TS	0063	
	2TS	0163	Word Address - 1
	3TS	0263	word Address - 1
	4TS	0363	
	1CP	0061	
Counter (Current	2CP	0161	Ward Addaren 1
Value)	3CP	0261	Word Address - 1
	4CP	0361	
	1CS	0064	
Counter (Setting	2CS	0164	Ward Addaren 1
Value)	3CS	0264	Word Address - 1
	4CS	0364	
	1D	0000	
Data Dagistar	2D	0100	XX7 1 A 11 1
Data Register	3D	0200	Word Address - 1
	4D	0300	
	1B	0004	
Common Desister	2B	0104	Word Address - 1
Common Register	3B	0204	
	4B	0304	
	1R	0003	
	2R	0103	NY7 1 4 11 1
General Register	3R	0203	Word Address - 1
	4R	0303	
	1Z	0001	
Special Register	2Z	0101	
	3Z	0201	Word Address - 1
	4Z	0301	
Link Register	1W	0002	
	2W	0102	(Link No. x 0x10000) + ((Word Address -
	3W	0202	1) divided by 16) $*^2$
	4W	0302	

Device	Device Name	Device Code (HEX)	Address Code
Special Module	1SW	0065	
	2SW	0165	Word address
	3SW	0265	word address
	4SW	0365	
	1INF1	0066	
	2INF1	0166	Word address
	3INF1	0266	(Read only)
	4INF1	0366	
	1INF2	006a	
	2INF2	016a	Word address
	3INF2	026a	(Read only)
	4INF2	03ба	
	1INF3	006b	
Information	2INF3	016b	Word address
mornation	3INF3	026b	(Read only)
	4INF3	036b	
	1INF4	0005	
	2INF4	0105	Word address (Read only)
	3INF4	0205	
	4INF4	0305	
	1INF5	006c	
	2INF5	016c	Word address
	3INF5	026c	(Write only)
	4INF5	036c	
	1PRI	0067	
Program Information	2PRI	0167	Word address
	3PRI	0267	(Read only)
	4PRI	0367	
User Log Read	1ULR	0068	Word address
	2ULR	0168	
	3ULR	0268	(Read only)
	4ULR	0368	

Device	Device Name	Device Code (HEX)	Address Code
Error History Read	1ERH	0069	
	2ERH	0169	Word address
	3ERH	0269	(Read only)
	4ERH	0369	

*1 Please refer to "6 Supported Device *1" for each name.

*2 Please refer to "6 Supported Device *4" for each name.

7.2 Temperature Controllers (UT100 Series)

Device	Device Name	Device Code (HEX)	Address Code
I Relay	Ι	0082	Value of (word address - 1) divided by 16
D Register	D	0000	Value of word Address - 1

7.3 Digital Indicating Controllers

Device	Device Name	Device Code (HEX)	Address Code
I Relay	Ι	0082	Value of (word address - 1) divided by 16
D Register	D	0000	Value of word Address - 1

7.4 UT2000

Device	Device Name	Device Code (HEX)	Address Code
I Relay	Ι	0082	Value of (word address - 1) divided by 16
D Register	D	0000	Value of word Address - 1

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 [02])"

NOTE

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

• Please refer to "When an error message is displayed (Error code list)" of "Maintenance/ Troubleshooting" for a common error message to the driver.