Yamatake Corporation

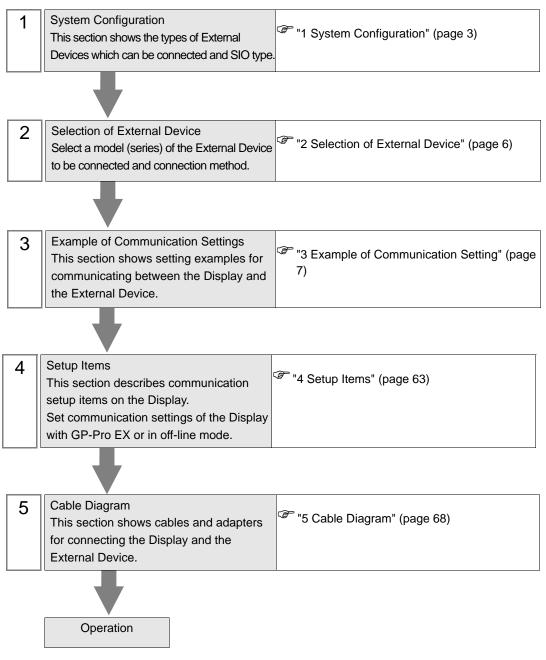
Digital Controller SIO Driver

1	System Configuration	
2	Selection of External Device	
3	Example of Communication Setting	7
4	Setup Items	63
5	Cable Diagram	68
6	Supported Device	
7	Device Code and Address Code	
8	Error Messages	

PREFACE

This manual describes how to connect the Display (GP3000 series) and the External Device (target Controller).

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



1 System Configuration

The system configuration in the case when the External Device of Yamatake Corporation and the Display are connected is shown.

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
SDC10	C10□□□□05□□	Terminal block on the controller	RS422/485(2 wire)	"Setting Example 1" (page 7)	" Cable Diagram5" (page 84)
SDC15	C15□□□□03□□ C15□□□□06□□	Terminal block on the controller	RS422/485(2 wire)	"Setting Example 2" (page 9)	" Cable Diagram6" (page 89)
	C2000000000000000000000000000000000000	Terminal block on the controller	RS232C	"Setting Example 3" (page 11)	" Cable Diagram 1" (page 68)
SDC20/21	C2000000200 C200000400 C2000000900	Terminal block on	block on vire) (page 13) (page 13)	" Cable Diagram 2" (page 69)	
	C210000300 C210000600 C210000800	the controller	RS422/485(2 wire)	RS422/485(4 wire)Example 4" (page 13)Diagram (page 6)RS422/485(2 wire)"Setting (page 15)"Cable Diagram (page 7)RS422/485(2 wire)"Setting (page 17)"Cable Diagram (page 8)RS422/485(2 wire)"Setting (page 17)"Cable Diagram (page 8)RS422/485(4"Setting Example 7""Cable Diagram	" Cable Diagram 3" (page 74)
SDC25/26	C2500000200 C2600000200	Terminal block on the controller	RS422/485(2 wire)	Example 6"	" Cable Diagram6" (page 89)
SDC30/31	C3000004000 C3000004100 C3100004500	Terminal block on	RS422/485(4 wire)	U	" Cable Diagram 2" (page 69)
30030/31	C3100044600 C3100054600	the controller	RS422/485(2 wire) "Setting Example 8" (page 21)	" Cable Diagram 3" (page 74)	
SDC35/36	C35DDDDD2DD C35DDDDD4DD C36DDDDD2DD C36DDDDD2DD C36DDDDD4DD	Terminal block on the controller	RS422/485(2 wire)	"Setting Example 9" (page 23)	" Cable Diagram6" (page 89)
SDC40A	C40ADDDDDD3DD	Terminal block on the controller	RS232C	"Setting Example 10" (page 25)	" Cable Diagram 1" (page 68)
		Terminal block on	RS422/485(4 wire)	"Setting Example 11" (page 27)	" Cable Diagram 2" (page 69)
	C40ADDDDDDD2DD	the controller	RS422/485(2 wire)	"Setting Example 12" (page 29)	" Cable Diagram 3" (page 74)

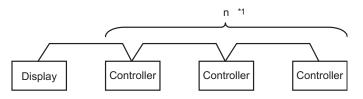
Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
	C40BDDDDDD3DD	Terminal block on the controller	RS232C	"Setting Example 13" (page 31)	" Cable Diagram 1" (page 68)
SDC40B		Terminal block on	RS422/485(4 wire)	"Setting Example 14" (page 33)	" Cable Diagram 2" (page 69)
	C40BDDDDDD2DD	the controller	RS422/485(2 wire)	"Setting Example 15" (page 35)	eDiagram3"" CableJuagram 1" (page 68)" Cable4"Diagram 2" (page 69)5"" Cable5"" CableDiagram 3" (page 74)6"" Cable6"Diagram 2" (page 69)7"Cable9"" Cable9"" Cable10" Cable11"Diagram 3" (page 69)11"Diagram 3" (page 74)11"Diagram 3" (page 69)12"" Cable13"Diagram 1" (page 68)4"Diagram 3" (page 74)5"" CableDiagram 3" (page 74)6"" CableDiagram 3" (page 74)6"" CableDiagram 3" (page 69)7"CableDiagram 1" (page 68)7"CableDiagram 1" (page 68)7"CableDiagram 3" (page 69)8"" CableDiagram 3" (page 69)8"" CableDiagram 3" (page 69)6"Diagram 3" (page 69)
SDC40G	C40G□□□□095□□	Terminal block on	RS422/485(4 wire)	"Setting Example 16" (page 37)	Diagram 2"
320400		the controller	RS422/485(2 wire)	"Setting Example 17" (page 39)	Diagram 3"
DMC10	DMC10000000000	Terminal block on the controller	RS422/485(2 wire)	"Setting Example 18" (page 41)	Diagram4"
DCP31		Terminal block on	RS422/485(4 wire)	"Setting Example 19" (page 43)	Diagram 2"
Dersi		the controller	RS422/485(2 wire)	"Setting Example 20" (page 45)	Diagram 3"
DCB22	P32A000000200	Terminal block on	RS422/ 485(4wire)	"Setting Example 21" (page 47)	Diagram 2"
DCP32		the controller	RS422/485(2 wire)	"Setting Example 22" (page 49)	Diagram 3"
			RS232C	"Setting Example 23" (page 51)	Diagram 1"
DCP551	DCP551000200	Terminal block on the controller	RS422/485(4 wire)	"Setting Example 24" (page 53)	Diagram 2"
			RS422/485(2 wire)	"Setting Example 25" (page 55)	Diagram 3"
			RS232C	"Setting Example 26" (page 57)	Diagram 1"
DCP552	DCP552 DCP5521 121 1	Terminal block on the controller	RS422/ 485(4wire)	"Setting Example 27" (page 59)	Diagram 2"
			RS422/485(2 wire)	"Setting Example 28" (page 61)	

Connection Configuration

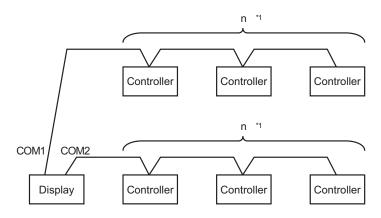
[Connection example 1:n]



[Connection example 1:n When using COM1 or COM2]



[Connection example 1:n When using COM1 and COM2]



*1 You can connect maximum 16 units of External Device. Note that maximum 15 units can be connected if DMC10 is included.

MEMO
 Do not add the termination resistance when the Controller to be connected using 1:n connection includes the following series.
 SDC15
 SDC25/26
 SDC35/36
 DMC10

2 Selection of External Device

Select the External Device to be connected to the Display.

ð	New Projec	st File
Г	Device/PL	C
	Maker	Yamatake Corporation
	Driver	Digital Controller SIO
	🔲 Use S	ystem Area Refer to the manual of this Device/PLC
Г	Connection	Method
	Port	COM1
		Go to Device/PLC Manual
	Back	Communication Detail Settings New Screen Cancel

Setup Items	Setup Description
Maker	Select the maker of the External Device to be connected. Select "Yamatake Corporation".
Driver	Select a model (series) of the External Device to be connected and connection method. Select "Digital Controller SIO". Check the External Device which can be connected in "Digital Controller SIO" in system configuration.
Use System Area	Cannot use in this driver.
Port	Select the Display port to be connected to the External Device.

3 Example of Communication Setting

Examples of communication settings of the Display and the External Device, recommended by Digital Electronics Corp., are shown.

3.1 Setting Example 1

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 Yamatake Corpo	oration	Driver Digital Controller SIO Port COM1
Text Data Mode 🛛 🗍	<u>Change</u>	
Communication Settings		
SIO Type 🔍	0 RS232C (RS422/485(2wire) RS422/485(4wire)
Speed	9600	
Data Length 🤇	7 (• 8
Parity C	NONE (EVEN C ODD
Stop Bit 🤇	01 (0 2
Flow Control	D NONE 🛛 🤇	O ER(DTR/CTS) O XON/XOFF
Timeout	l 📑 (sec	ec)
Retry 2	2 📑	
Wait To Send 7	70 📑 (ms)	\$]
RI/VCC 6	D RI 🗸	O VCC
In the case of RS232C or VCC (5V Power Sup Isolation Unit, please s	oply). If you use th	the 9th pin to RI (Input) the Digital's RS232C Default
Device-Specific Settings		
Allowable No. of Device/	/PLCs 16 Unit(s)	· · · · · · · · · · · · · · · · · · ·
No. Device Name		Settings Series=SDC10,Device Address=1

IMPORTANT |

•

When using SDC10, you need to set Wait To Send to 70ms or more.

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

💰 Individual Device Se	ttings	×			
PLC1					
Series	SDC10	•			
Please reconfirm all of address settings that you are using if you have changed the series.					
Device Address	1	•			
		Default			
OK (<u>0</u>)		Cancel			

Settings of External Device

Use the PARA key, ENT key, down key and up 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. Press and hold the PARA key in operation mode (3 seconds) to move to the parameter mode.

2.Press and hold the PARA key in parameter mode (3 seconds) to move to the setup mode.

3. Press the PARA key several times to display the setup items.

4.Use the down/up keys to select the setting contents. (Setting value will blink.)

5. When you stop operating for 2 seconds, blinking of the setting value ends to confirm the change.

6.Press and hold the PARA key (3 seconds) to move to the standard display.

Setting Value

Setup Items	Setting Value
C22	1
C23	0

MEMO

3.2 Setting Example 2

Setting of GP-Pro EX

Communication Settings

Device/PLC1	
Summary	Change Device/PLC
Maker Yamatake Corporation Driver Dig	jital Controller SIO Port COM1
Text Data Mode 1 Change	
Communication Settings	
SID Type C RS232C RS422/485(2wir	re) C RS422/485(4wire)
Speed 9600 💌	
Data Length C 7 💿 8	
Parity C NONE © EVEN	O ODD
Stop Bit C 2	
Flow Control © NONE O ER(DTR/CTS)	C XON/XOFF
Timeout 3 📑 (sec)	
Retry 2	
Wait To Send 10 📑 (ms)	
RI / VCC I RI C VCC	
In the case of RS232C, you can select the 9th pin to RI (Inp or VCC (5V Power Supply) If you use the Digital's RS232C	
Isolation Unit, please select it to VCC.	Default
Device-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
	DC15,Device Address=1
or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s) No. Device Name <u>Set</u> tings	Default

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

💰 Individual Device Se	ttings	×			
PLC1					
Series	SDC15	•			
Please reconfirm all of address settings that you are using if you have changed the series.					
Device Address	1	*			
		Default			
OK (<u>O</u>)		Cancel			

Settings of External Device

Use the PARA key, mode key, down key and up 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. Press and hold the PARA key in operation display (2 seconds) to move to the parameter setting display.

2.Press and hold the PARA key in the parameter setting display (2 seconds) to move to the setup display.

3. Press the PARA key several times to display the setup items.

4.Use the down/up keys to select the setting contents. (Setting value will blink.)

5. When you stop key operation for 2 seconds, blinking of the setting value ends to confirm the change.

6.Press the mode key to move to the standard display.

Setting Value

Setup Items	Setting Value
C64	0
C65	1
C66	1
C67	1
C68	0
C69	0

MEMO

3.3 Setting Example 3

Setting of GP-Pro EX

Communication Settings

Summary Change Device/PLC Maker Yamatake Corporation Driver Digital Controller SIO Port COM1 Text Data Mode 1 Change Communication Settings SIO Type	evice/PLC 1			
Text Data Mode 1 Change Communication Settings SIO Type RS232C RS422/485(2wire) RS422/485(4wire) Speed 9600 Image Image Image Image Data Length 7 6 8 Image Image Image Data Length 7 6 8 Image Image	Summary			Change Device/PLC
Communication Settings SIO Type	Maker Yamatake	Corporation	Driver Digital Controller SIO	Port COM1
SIO Type • RS232C • RS422/485(2wire) • RS422/485(4wire) Speed 9600 • Data Length • 7 • 8 Parity • NONE • EVEN • ODD Stop Bit • 1 • 2 Flow Control • NONE • ER(DTR/CTS) • XON/XOFF Timeout 3 • (sec) Retry 2 • Wait To Send 10 • (ms) RI / VCC • RI • VCC In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (Sy Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s)	Text Data Mode	1 <u>Change</u>		
Speed 9600 Data Length 7 6 Parity NONE EVEN ODD Stop Bit 1 2 Flow Control NONE ER(DTR/CTS) XON/XOFF Timeout 3 (sec) Retry 2 Vait To Send 10 NUME 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	Communication Settings			
Data Length 7 8 Parity NONE EVEN ODD Stop Bit 1 2 Flow Control NONE ER(DTR/CTS) XON/XOFF Timeout 3 (sec) Retry 2 (ms) Retry 2 (ms) RI / VCC RI VCC In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s)	SIO Type	• R\$232C	C RS422/485(2wire) C RS422/485(4wire)
Parity NONE EVEN ODD Stop Bit 1 2 Flow Control NONE ER(DTR/CTS) XON/XOFF Timeout 3 (sec) Retry 2 (ms) RI / VCC RI VCC In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s)	Speed	9600	•	
Stop Bit 1 2 Flow Control NONE ER(DTR/CTS) Timeout 3 (sec) Retry 2 (sec) Wait To Send 10 (ms) RI / VCC RI In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s)	Data Length	07	• 8	
Flow Control Image: NDNE ER(DTR/CT9) XON/XOFF Timeout 3 (sec) Retry 2 (ms) Wait To Send 10 (ms) RI / VCC RI VCC In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s)	Parity	O NONE	● EVEN ○ ODD	
Timeout 3 image (sec) Retry 2 image Wait To Send 10 image Wait To Send 10 image RI / VCC Image RI In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s)	Stop Bit	● 1	© 2	
Retry 2 Wait To Send 10 ID (ms) RI / VCC RI VCC RI In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s)	Flow Control	NONE	O ER(DTR/CTS) O XON/XOFF	
Wait To Send 10 (ms) RI / VCC RI VCC In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s)	Timeout	3 🕂	(sec)	
RI / VCC In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s)	Retry	2 🕂		
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s)	Wait To Send	10 🔅	(ms)	
or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default Device-Specific Settings Allowable No. of Device/PLCs 16 Unit(s)	RI / VCC	• BI	O VCC	
Allowable No. of Device/PLCs 16 Unit(s)	or VCC (5V Powe	er Supply). If you u	se the Digital's RS232C	dt
1 1 1 Sal) evice-Specific Setting:	;		
No. Device Name <u>Settings</u>				
3 1 PLC1 Series=SDC20/21,Device Address=1		lame		

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

💰 Individual Device Se	ttings	×
PLC1		
Series	SDC20/	21 💌
Please reconfirm all of a you are using if you have		
Device Address	1	-
		Default
OK (<u>0</u>)		Cancel

Settings of External Device

Use the ENT key, DISP key, down key and up 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. Press and hold the ENT key and the down key together (3 seconds or more) to display the setup items.

2.Press the down/up keys to select the setup items and press the ENT key.

3.Use the down/up keys to select the setup contents and press the ENT key.

4. Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C31	1
C32	0
C33	0



3.4 Setting Example 4

Setting of GP-Pro EX

Communication Settings

Device	/PLC1		
Summ	ary		Change Device/PLC
M	1aker Yamatake Co	rporation	Driver Digital Controller SIO Port COM1
т	ext Data Mode	1 Change	
Comm	unication Settings		
	ilO Type	C R\$232C	RS422/485(2wire) RS422/485(4wire)
S	ipeed	9600	_
D)ata Length	0 7	• 8
P	arity	C NONE	
s	itop Bit	⊙ 1	0 2
F	Tow Control	O NONE	O ER(DTR/CTS) O XON/XOFF
Т	imeout	3	sec)
R	letry	2 📫	
٧	Vait To Send	10 📫 (i	ms)
B	1 / VCC	© BI	O VCC
	In the case of RS23	2C, you can selec	st the 9th pin to RI (Input)
	Isolation Unit, please	supply). If you use e select it to VCC.	e the Digital's RS232C Default
Device	e-Specific Settings		
	llowable No. of Devic		
	No. Device Nam	ne	Settings Seties=SDC20/21,Device Address=1
0			

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

💰 Individual Device Se	ttings 🛛 🔀
PLC1	
Series	SDC20/21
Please reconfirm all of a you are using if you have	
Device Address	1
	Default
OK (<u>D</u>)	Cancel

Settings of External Device

Use the ENT key, DISP key, down key and up 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. Press and hold the ENT key and the down key together (3 seconds or more) to display the setup items.

2.Press the down/up keys to select the setup items and press the ENT key.

3.Use the down/up keys to select the setup contents and press the ENT key.

4. Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C31	1
C32	0
C33	0



3.5 Setting Example 5

Setting of GP-Pro EX

Communication Settings

Devid	e/PLC1		
Sum	mary		Change Device/PLC
	Maker Yamatake Co	orporation	Driver Digital Controller SIO Port COM1
	Text Data Mode	1 <u>Change</u>	
Corr	munication Settings		
	SIO Type	C RS232C	• RS422/485(2wire)
	Speed	9600	T
	Data Length	0.7	• 8
	Parity	O NONE	• EVEN O ODD
	Stop Bit	• 1	O 2
	Flow Control	NONE	O ER(DTR/CTS) O XON/XOFF
	Timeout	3	(sec)
	Retry	2 ÷	
	Wait To Send	10 📑	(ms)
	RI / VCC	© BI	C VCC
			ct the 9th pin to RI (Input)
	Isolation Unit, pleas		e the Digital's RS232C Default
Dev	ice-Specific Settings		
	Allowable No. of Devi		i(s) 📷
	No. Device Nar	ne	Settings
	👗 1 PLC1		

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

💰 Individual Device Se	ttings	×
PLC1		
Series	SDC20/	21 💌
Please reconfirm all of a you are using if you have		
Device Address	1	-
		Default
OK (<u>0</u>)		Cancel

Settings of External Device

Use the ENT key, DISP key, down key and up 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. Press and hold the ENT key and the down key together (3 seconds or more) to display the setup items.

2.Press the down/up keys to select the setup items and press the ENT key.

3.Use the down/up keys to select the setup contents and press the ENT key.

4. Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C31	1
C32	0
C33	0



3.6 Setting Example 6

Setting of GP-Pro EX

Communication Settings

Device/PLC 1	
Summary	Change Device/PLC
Maker Yamatake	Corporation Driver Digital Controller SIO Port COM1
Text Data Mode	1 Change
Communication Settings	
SIO Type	C RS232C RS422/485(2wire) C RS422/485(4wire)
Speed	9600
Data Length	C 7 • 8
Parity	C NONE C EVEN C ODD
Stop Bit	
Flow Control	© NONE C ER(DTR/CTS) C XON/XOFF
Timeout	3
Retry	2
Wait To Send	10 (ms)
RI / VCC	© RI C VCC
	i232C, you can select the 9th pin to RI (Input) er Supply). If you use the Digital's RS232C
	ase select it to VCC. Default
Device-Specific Settings	
	evice/PLCs 16 Unit(s)
No. Device N	lame Settings Series=SDC25/26,Device Address=1

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

💰 Individual Device Se	ttings	×
PLC1		
Series	SDC25/26	•
Please reconfirm all of a you are using if you have		
Device Address	1	÷
	Defa	ult
OK (<u>D</u>)	Cancel	

Settings of External Device

Use the PARA key, mode key, enter key, down key and up 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. Press and hold the PARA key in operation display (2 seconds) to move to the bank selection display.

2.Press the enter key in the bank selection display to move to the bank setup display.

3.Press the PARA key several times to display the setup items.

4. Press the enter key to blink the display area of the setting value.

5.Use the down/up keys to select the setting contents.

6.Press the enter key to confirm the change.

7.Press the mode key to move to the operation display.

Setting Value

Setup Items	Setting Value
C64	0
C65	1
C66	1
C67	1
C68	0
C69	0

MEMO

3.7 Setting Example 7

Setting of GP-Pro EX

Communication Settings

Device/PLC1	
Summary Change	Device/PLC
Maker Yamatake Corporation Driver Digital Controller SIO Port COM	11
Text Data Mode 1 Change	
Communication Settings	
SIO Type O RS232C O RS422/485(2wire) • RS422/485(4wire)	
Speed 9600 💌	
Data Length 0 7 0 8	
Parity C NONE C EVEN C ODD	
Stop Bit 1 2	
Flow Control 💿 NONE 🔿 ER(DTR/CTS) 🔿 XON/XOFF	
Timeout 3 🙀 (sec)	
Retry 2	
Wait To Send 10 📑 (ms)	
RI / VCC © RI C VCC	
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.	
Device-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
No. Device Name Settings 1 PLC1 Series=SDC30/31,Device Address=1	

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

💰 Individual Device Se	ettings 🛛 🔀	۲
PLC1		
Series	SDC30/31 💌	1
Please reconfirm all of a you are using if you have		
Device Address	1	ł
	Default	
OK (<u>0</u>)	Cancel	

Settings of External Device

Use the ENT key, DISP key, MODE key, down key and up key in front of the Controller for communication settings of the External Device. You can change the communication setting only in the READY mode. Move the External Device to the READY mode before setting.

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

Procedure

1.Press the MODE key twice in the standard display. When the RUN/READY mode switch display appears, change to the READY mode.

2.Press and hold the ENT key and the down key together (3 seconds or more) to display the setup items.

3.Press the down/up keys to select the setup items and press the ENT key.

4.Use the down/up keys to select the setup contents and press the ENT key.

5. Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C31	1
C32	0
C33	0

MEMO

3.8 Setting Example 8

Setting of GP-Pro EX

Communication Settings

Device/PLC 1			
Summary			Change Device/PLC
Maker Yama	ake Corporation	Driver Digital Controller SIO	Port COM1
Text Data Mod	le <u>1 Change</u>		
Communication Set	inas		
SIO Type	© RS232C	RS422/485(2wire) RS422/485(4wire)	
Speed	9600	•	
Data Length	0 7	• 8	
Parity	O NONE	• EVEN C ODD	
Stop Bit	• 1	C 2	
Flow Control	O NONE	C ER(DTR/CTS) C XON/XOFF	
Timeout	3 📫 (;	sec)	
Retry	2 🔹		
Wait To Send	10 📑 (r	ms)	
RI / VCC	© BI	C VCC	
	if RS232C, you can selec Power Supply). If you use	the 9th pin to RI (Input)	
	, please select it to VCC.	Default	1
Device-Specific Se	tings		
	of Device/PLCs 16 Unit(
No. Dev		Settings Series=SDC30/31,Device Address=1	
F 20			

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

💰 Individual Device Se	ettings 🛛 🔀	۲
PLC1		
Series	SDC30/31 💌	1
Please reconfirm all of a you are using if you have		
Device Address	1	ł
	Default	
OK (<u>0</u>)	Cancel	

Settings of External Device

Use the ENT key, DISP key, MODE key, down key and up key in front of the Controller for communication settings of the External Device. You can change the communication setting only in the READY mode. Move the External Device to the READY mode before setting.

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

Procedure

1.Press the MODE key twice in the standard display. When the RUN/READY mode switch display appears, change to the READY mode.

2.Press and hold the ENT key and the down key together (3 seconds or more) to display the setup items.

3.Press the down/up keys to select the setup items and press the ENT key.

4.Use the down/up keys to select the setup contents and press the ENT key.

5. Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C31	1
C32	0
C33	0

MEMO

3.9 Setting Example 9

Setting of GP-Pro EX

Communication Settings

Device	e/PLC 1		
Sumr	mary		Change Device/PLC
	Maker Yamatake Co	orporation	Driver Digital Controller SIO Port COM1
	Text Data Mode	1 <u>Change</u>	
Comr	munication Settings		
	SIO Type	O RS232C	RS422/485(2wire) RS422/485(4wire)
	Speed	9600	
	Data Length	0 7	• 8
	Parity	○ NONE	EVEN C ODD
	Stop Bit	⊙ 1	© 2
	Flow Control	NONE	O ER(DTR/CTS) O XON/XOFF
	Timeout	3 📑 (;	(sec)
	Retry	2 📫	
	Wait To Send	10 🔅 ((ms)
	RI / VCC	© RI	O VCC
			ect the 9th pin to RI (Input) se the Digital's RS232C
	Isolation Unit, pleas		
Devid	ce-Specific Settings		
	Allowable No. of Devi		
[No. Device Nar 1 PLC1	ne	Settings Series=SDC35/36,Device Address=1
L			

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

💰 Individual Device Se	ettings 🔰 🔉	<
PLC1		
Series	SDC35/36 💌	1
Please reconfirm all of a you are using if you have		
Device Address	1	ł
	Default	
OK (<u>D</u>)	Cancel	

Settings of External Device

Use the PARA key, mode key, enter key, down key and up 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. Press and hold the PARA key in operation display (2 seconds) to move to the bank selection display.

2.Press the enter key in the bank selection display to move to the bank setup display.

3.Press the PARA key several times to display the setup items.

4. Press the enter key to blink the display area of the setting value.

5.Use the down/up keys to select the setting contents.

6.Press the enter key to confirm the change.

7. Press the mode key to move to the operation display.

Setting Value

Setup Items	Setting Value
C64	0
C65	1
C66	1
C67	1
C68	0
C69	0

MEMO

3.10 Setting Example 10

- Setting of GP-Pro EX
- Communication Settings

Device/PL	.C1		
Summary			Change Device/PLC
Mak	er Yamatake Co	orporation	Driver Digital Controller SIO Port COM1
Text	Data Mode	1 <u>Change</u>	
Communic	cation Settings		
	Туре	RS232C	RS422/485(2wire) RS422/485(4wire)
Spee	ed	9600	·
Data	Length	0.7	• 8
Pariț	у	O NONE	⊙ EVEN ○ ODD
Stop	Bit	⊙ 1	0 2
Flow	Control	O NONE	O ER(DTR/CTS) O XON/XOFF
Time	eout	3 🕂 (isec)
Retr	y	2 📫	
Wait	To Send	10 📑 (ims)
BL/	VCC	⊙ BI	C VCC
			st the 9th pin to RI (Input)
		Supply). If you use e select it to VCC.	e the Digital's RS232C Default
Device-Si	pecific Settings		
	vable No. of Devi	ice/PLCs_16 Unit((s) 📊
X	No. Device Nar 1 PLC1	ne	Settings Seties=SDC40A,Device Address=1
	, preor		

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

💰 Individual Device Se	ettings	х
PLC1		
Series	SDC40A	•
Please reconfirm all of a you are using if you have		
Device Address	1	•
	Default	
OK (<u>O</u>)	Cancel	

Settings of External Device

Use the PARA key, ENT key, DISP key, down key and up key in front of the Controller for communication settings of the External Device. You can change the communication setting only in the READY mode. Move the External Device to the READY mode before setting.

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

Procedure

1. Press the PARA key in the standard display to display PARA. Next, press the ENT key to display rnry and move to the READY mode.

2.Press the PARA key several times in the standard display to display SETUP.

3. Press the ENT key to display the setup items.

4.Press the down/up keys to select the setup items and press the ENT key.

5.Use the down/up keys to select the setup contents and press the ENT key.

6.Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C84	1
C85	0

MEMO

3.11 Setting Example 11

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1	
Summary Change Devic	<u>e/PLC</u>
Maker Yamatake Corporation Driver Digital Controller 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 CNONE CEVEN CODD	
Stop Bit 💿 1 💿 2	
Flow Control 💿 NONE 🔿 ER(DTR/CTS) 🔿 XON/XOFF	
Timeout 4 🙀 (sec)	
Retry 2	
Wait To Send 10 🚔 (ms)	
In the case of RS232C, you can select the 9th pin to RI (Input)	
or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default	
Device-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
No. Device Name Settings No. Device Name Image: Provide Address = 1 Image: Provide Address = 1	
1 PLC1	

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

💰 Individual Device Settings 🛛 🛛 🗙				
PLC1				
Series	SDC40A			
Please reconfirm all of a you are using if you have				
Device Address	1			
	Default			
OK (<u>0</u>)	Cancel			

Settings of External Device

Use the PARA key, ENT key, DISP key, down key and up key in front of the Controller for communication settings of the External Device. You can change the communication setting only in the READY mode. Move the External Device to the READY mode before setting.

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

Procedure

1. Press the PARA key in the standard display to display PARA. Next, press the ENT key to display rnry and move to the READY mode.

2. Press the PARA key several times in the standard display to display SETUP.

3. Press the ENT key to display the setup items.

4.Press the down/up keys to select the setup items and press the ENT key.

5.Use the down/up keys to select the setup contents and press the ENT key.

6.Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C84	1
C85	0

MEMO

3.12 Setting Example 12

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1	
Summary Change Device/P	LC
Maker Yamatake Corporation Driver Digital Controller 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 ONONE O EVEN O ODD	
Stop Bit 💿 1 💿 2	
Flow Control © NONE © ER(DTR/CTS) © XON/XOFF	
Timeout 4 💼 (sec)	
Retry 2	
Wait To Send 10 (ms)	
RI / VCC O RI O VCC	
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.	
Device-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
No. Device Name Settings No. Device Name Image: PLC1 Image: Settings	

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

💰 Individual Device Settings 🛛 🛛 🗙				
PLC1				
Series	SDC40A			
Please reconfirm all of a you are using if you have				
Device Address	1			
	Default			
OK (<u>0</u>)	Cancel			

Settings of External Device

Use the PARA key, ENT key, DISP key, down key and up key in front of the Controller for communication settings of the External Device. You can change the communication setting only in the READY mode. Move the External Device to the READY mode before setting.

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

Procedure

1. Press the PARA key in the standard display to display PARA. Next, press the ENT key to display rnry and move to the READY mode.

2. Press the PARA key several times in the standard display to display SETUP.

3. Press the ENT key to display the setup items.

4.Press the down/up keys to select the setup items and press the ENT key.

5.Use the down/up keys to select the setup contents and press the ENT key.

6.Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C84	1
C85	0

MEMO

3.13 Setting Example 13

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1									
Summary								<u>CI</u>	hange Device/PLC
Maker	Yamatake Corp	poration		Driver Digita	al Con	troller SIO		Port	COM1
Text Da	ta Mode 🛛 🗍	1 <u>Change</u>							
Communicatio	on Settinas								
SIO Typ	-	RS232C	O RS4	422/485(2wire)		C RS422/-	485(4wire)		
Speed	1	9600	•						
Data Le	ngth (0 7	• 8						
Parity		O NONE	• EVE	N	0	ODD			
Stop Bit		• 1	O 2						
Flow Co	ntrol	INONE	O ER(DTR/CTS)	0	XON/XOFF			
Timeout		4 📫 (s	sec)						
Retry		2 ÷							
Wait To	Send	10 📫 (r	ns)						
RI / VC		• RI	0 VCC	;]			
		C, you can selec ipply). If you use			t)				
		select it to VCC.	i ine Digil	dis nozozu			Default		
Device-Spec	ific Settings								
Allowabl	e No. of Device	e/PLCs_16 Unit(s	s) 📊						
	Device Name		Se	ettings	2400	D : A11	-		
3 1	PLC1		11	E Series=SDI	.40B,	Device Addre	ess=1		

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

💰 Individual Device Settings 🛛 🛛 🗙				
PLC1				
Series	SDC40B			
Please reconfirm all of a you are using if you have				
Device Address	1			
	Default			
OK (<u>0</u>)	Cancel			

Settings of External Device

Use the PARA key, ENT key, DISP key, down key and up 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. Press the PARA key in the standard display to move to the setup mode.

2.Press the ENT key to display the setup items.

3.Press the down/up keys to select the setup items and press the ENT key.

4.Use the down/up keys to select the setup contents and press the ENT key.

5.Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C25	1
C26	0
C27	0



3.14 Setting Example 14

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1	
Summary	Change Device/PLC
Maker Yamata	ake Corporation Driver Digital Controller SIO Port COM1
Text Data Mode	e 1 <u>Change</u>
Communication Setti	inas
SIO Type	○ RS232C C RS422/485(2wire)
Speed	9600
Data Length	07 08
Parity	O NONE O EVEN O ODD
Stop Bit	● 1 ○ 2
Flow Control	NONE O ER(DTR/CTS) O XON/XOFF
Timeout	4 (sec)
Retry	2
Wait To Send	10 💼 (ms)
RI / VCC	
	f RS232C, you can select the 9th pin to RI (Input)
	ower Supply). If you use the Digital's RS232C , please select it to VCC. Default
Device-Specific Sett	Lings
	of Device/PLCs 16 Unit(s) 📷
No. Devic	

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

💰 Individual Device Settings 🛛 🛛 🗙				
PLC1				
Series	SDC40B			
Please reconfirm all of a you are using if you have				
Device Address	1			
	Default			
OK (<u>0</u>)	Cancel			

Settings of External Device

Use the PARA key, ENT key, DISP key, down key and up 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. Press the PARA key in the standard display to move to the setup mode.

2.Press the ENT key to display the setup items.

3.Press the down/up keys to select the setup items and press the ENT key.

4.Use the down/up keys to select the setup contents and press the ENT key.

5.Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C25	1
C26	0
C27	0



3.15 Setting Example 15

- Setting of GP-Pro EX
- Communication Settings

Device/	PLC 1		
Summa	ary		Change Device/PLC
M	aker Yamatake Co	rporation	Driver Digital Controller SIO Port COM1
Τe	ext Data Mode 🛛 🗍	1 <u>Change</u>	
Commu	unication Settings		
SI	Ю Туре	C RS232C	RS422/485(2wire) RS422/485(4wire)
Sp	peed	9600	•
De	ata Length	O 7	• 8
Pa	arity	C NONE	EVEN ODD
St	top Bit	● 1	0 2
Flo	ow Control	NONE	O ER(DTR/CTS) O XON/XOFF
Ti	imeout	4 📫 (:	sec)
Be	etry	2 📫	
W	/ait To Send	10 📑 (r	ms)
BI	I / VCC	© Ri	O VCC
		upply). If you use	st the 9th pin to RI (Input) s the Digital's RS232C
	isolation onit, piease	SEIECULU VCC.	Default
	Specific Settings		
AI	llowable No. of Devic No. Device Nam		sj und Settings
ă	1 PLC1		Series=SDC40B,Device Address=1

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

💰 Individual Device Settings 🛛 🗙		
PLC1		
Series	SDC40B	
Please reconfirm all of address settings that you are using if you have changed the series.		
Device Address	1	
	Default	
OK (<u>0</u>)	Cancel	

Settings of External Device

Use the PARA key, ENT key, DISP key, down key and up 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. Press the PARA key in the standard display to move to the setup mode.

2.Press the ENT key to display the setup items.

3.Press the down/up keys to select the setup items and press the ENT key.

4.Use the down/up keys to select the setup contents and press the ENT key.

5.Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C25	1
C26	0
C27	0



3.16 Setting Example 16

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1
Summary Change Device/PLC
Maker Yamatake Corporation Driver Digital Controller SIO Port COM1
Text Data Mode 1 Change
Communication Settings
SID Type O RS232C O RS422/485(2wire) 💿 RS422/485(4wire)
Speed 9600 💌
Data Length O 7 💿 8
Parity ONONE OEVEN OODD
Stop Bit 💿 1 💿 2
Flow Control O NONE O ER(DTR/CTS) O XON/XOFF
Timeout 4 💼 (sec)
Retry 2
Wait To Send 10 🛫 (ms)
RI / VCC © RI O VCC
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC, Default
Device-Specific Settings
Allowable No. of Device/PLCs 16 Unit(s)
No. Device Name Settings 1 PLC1 Image: Settings Series=SDC40G,Device Address=1

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

💰 Individual Device Se	ttings 🛛 🗙
PLC1	
Series	SDC40G
Please reconfirm all of a you are using if you have	
Device Address	1
	Default
OK (<u>0</u>)	Cancel

Settings of External Device

Use the PARA key, ENT key, DISP key, down key and up key in front of the Controller for communication settings of the External Device. You can change the communication setting only in the READY mode. Move the External Device to the READY mode before setting.

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

Procedure

1. Press the PARA key in the standard display to display PARA. Next, press the ENT key to display rnry and move to the READY mode.

2. Press the PARA key several times in the standard display to display SETUP.

3. Press the ENT key to display the setup items.

4.Press the down/up keys to select the setup items and press the ENT key.

5.Use the down/up keys to select the setup contents and press the ENT key.

6.Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C25	1
C26	0
C27	0

MEMO

3.17 Setting Example 17

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1	
Summary Ct	ange Device/PLC
Maker Yamatake Corporation Driver Digital Controller 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 🔿 7 💿 8	
Parity C NONE O EVEN C ODD	
Stop Bit 1	
Flow Control O NONE O ER(DTR/CTS) O X0N/X0FF	
Timeout 4 📫 (sec)	
Retry 2	
Wait To Send 10 🕂 (ms)	
RI / VCC 💿 RI O VCC	
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.	
Device-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
No. Device Name Settings No. Device Name Image: Place Name Settings Image: Place Name Settings	

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

💰 Individual Device Se	ttings 🛛 🗙
PLC1	
Series	SDC40G
Please reconfirm all of a you are using if you have	
Device Address	1
	Default
OK (<u>0</u>)	Cancel

Settings of External Device

Use the PARA key, ENT key, DISP key, down key and up key in front of the Controller for communication settings of the External Device. You can change the communication setting only in the READY mode. Move the External Device to the READY mode before setting.

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

Procedure

1. Press the PARA key in the standard display to display PARA. Next, press the ENT key to display rnry and move to the READY mode.

2. Press the PARA key several times in the standard display to display SETUP.

3. Press the ENT key to display the setup items.

4.Press the down/up keys to select the setup items and press the ENT key.

5.Use the down/up keys to select the setup contents and press the ENT key.

6.Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C25	1
C26	0
C27	0

MEMO

3.18 Setting Example 18

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Yamatake (Corporation Driver Digital Controller SIO	Port COM1
Text Data Mode	1 Change	
Communication Settings		
SIO Type	C RS232C	e)
Speed	9600	
Data Length	07 08	
Parity	O NONE O EVEN O ODD	
Stop Bit	● 1 ● 2	
Flow Control	NONE O ER(DTR/CTS) O XON/XOFF	
Timeout	3 (sec)	
Retry	2	
Wait To Send	10 (ms)	
RI / VCC	© BL C VCC	
	232C, you can select the 9th pin to RI (Input)	
	r Supply). If you use the Digital's RS232C ise select it to VCC. Defa	ault
Device-Specific Settings		
	vice/PLCs 16 Unit(s)	
No. Device N		
👗 1 PLC1	Series=DMC10,Device Address=1	

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

💰 Individual Device Se	ttings	×
PLC1		
Series	DMC10	•
Please reconfirm all of a you are using if you have		
Device Address	1	÷
	Default	
OK (<u>0</u>)	Cancel	

Settings of External Device

Use the ladder software for communication setting of the External Device. (Operation confirmed using SLP-D10 V3.0.1) Set the device address of the External Device with the rotary switch on the front of the Controller. Please refer to the manual of the Controller for more details.

Procedure

1.Set the device address with the rotary switch for the device address on the front of the Controller.

After setting, turn ON the power of the External Device again.

2.Click [Set] with the ladder software to display the setting screen.

3. Click [Model Setting] from the menu to select the model No. of the External Device.

4.Click [Environmental Setting] from the menu to perform the setup transfer setting.

5.Select [Communication] from [Basic Function] in the tree view to set the communication.

6. Transfer the setting to the External Device.

When writing is completed, turn on the power of the External Device again.

Setting Value

Setup Items	Setting Value
Line Speed	3
Data Format	0
Communication Minimum Response Time	1
Value including communication minimum response time	0
CPL/MODBUSswitch	0
Memory Protect	0

MEMO

3.19 Setting Example 19

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1	
Summary Chang	e Device/PLC
Maker Yamatake Corporation Driver Digital Controller SIO Port CO	М1
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 ONONE OEVEN ODD	
Stop Bit	
Flow Control © NONE © ER(DTR/CTS) © XON/XOFF	
Timeout 3 🚉 (sec)	
Retry 2	
Wait To Send 10 🚔 (ms)	
RI / VCC © RI O VCC	
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC, Default	
Device-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
No. Device Name Settings No. Device Name Image: Provide Address = 1 Image: Provide Address = 1	

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

💰 Individual Device Se	ttings	×
PLC1		
Series	DCP31	•
Please reconfirm all of a you are using if you have		
Device Address	1	-
		Default
OK (<u>0</u>)		Cancel

Settings of External Device

Use the FUNC key, PARA key, ENT key, DISP key, down key and up 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. While pressing the FUNC key, press the PARA key to move to the screen of the setting group selection.

2.Press the PARA key several times to display the setup data setting group, and press the ENT key.

3.Press the down/up keys several times to select the setup items and press the ENT key.

4.Use the down/up keys to select the setup contents and press the ENT key.

5.Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C84	1
C85	0
C93	0

MEMO

3.20 Setting Example 20

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1	
Summary Change Device/PL	<u>.c</u>
Maker Vamatake Corporation Driver Digital Controller SIO Port COM1	
Text Data Mode 1 Change	
Communication Settings	
SID Type O RS232C RS422/485(2wire) O RS422/485(4wire)	
Speed 9600 💌	
Data Length O 7 O 8	
Parity O NONE O EVEN O ODD	
Stop Bit 💿 1 💿 2	
Flow Control 💿 NONE 🔿 ER(DTR/CTS) 🔿 XON/XOFF	
Timeout 3 📑 (sec)	
Retry 2	
Wait To Send 10 拱 (ms)	
In the case of RS232C, you can select the 9th pin to RI (Input)	
or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default	
Device-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
No. Device Name Settings 1 PLC1 Image Series=DCP31,Device Address=1	
1 PLC1 III Series=DCP31,Device Address=1	

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

💰 Individual Device Se	ttings	×
PLC1		
Series	DCP31	•
Please reconfirm all of address settings that you are using if you have changed the series.		
Device Address	1	-
		Default
OK (<u>0</u>)		Cancel

Settings of External Device

Use the FUNC key, PARA key, ENT key, DISP key, down key and up 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. While pressing the FUNC key, press the PARA key to move to the screen of the setting group selection.

2.Press the PARA key several times to display the setup data setting group, and press the ENT key.

3.Press the down/up keys several times to select the setup items and press the ENT key.

4.Use the down/up keys to select the setup contents and press the ENT key.

5.Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C84	1
C85	0
C93	0

MEMO

3.21 Setting Example 21

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1	
Summary Change [Device/PLC
Maker Yamatake Corporation Driver Digital Controller SIO Port COM	
Text Data Mode 1 Change	
Communication Settings	
SID Type C RS232C C RS422/485(2wire) C RS422/485(4wire)	
Speed 9600 V	
Data Length 0 7 © 8	
Parity CNONE © EVEN CODD	
Stop Bit 💿 1 💿 2	
Flow Control 💿 NONE 🔿 ER(DTR/CTS) 🔿 XON/XOFF	
Timeout 3 😴 (sec)	
Retry 2	
Wait To Send 10 😴 (ms)	
In the case of RS232C, you can select the 9th pin to RI (Input)	
or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default	
Device-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
No. Device Name Settings	
1 PLC1	

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

💰 Individual Device Se	ettings 🛛 🗙	
PLC1		
Series	DCP32	
Please reconfirm all of address settings that you are using if you have changed the series.		
Device Address	1	
	Default	
OK (<u>0</u>)	Cancel	

Settings of External Device

Use the FUNC key, PARA key, ENT key, DISP key, down key and up 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. While pressing the FUNC key, press the PARA key to move to the screen of the setting group selection.

2.Press the PARA key several times to display the setup data setting group, and press the ENT key.

3.Press the down/up keys several times to select the setup items and press the ENT key.

4.Use the down/up keys to select the setup contents and press the ENT key.

5.Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C84	1
C85	0
C93	0

MEMO

3.22 Setting Example 22

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1	
Summary Change Device	/PLC
Maker Yamatake Corporation Driver Digital Controller SIO Port COM1	
Text Data Mode 1 Change	
Communication Settings	
SID Type C RS232C © RS422/485(2wire) C RS422/485(4wire)	
Speed 9600 💌	
Data Length C 7 📀 8	
Parity C NONE C EVEN C ODD	
Stop Bit 💿 1 🔿 2	
Flow Control 💿 NONE 🔿 ER(DTR/CTS) 🔿 XON/XOFF	
Timeout 3 🚔 (sec)	
Retry 2	
Wait To Send 10 (ms)	
RI / VCC O RI O VCC	
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.	
Device-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
No. Device Name Settings No. Device Name Image: Setting state of the set of th	

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

💰 Individual Device Se	ttings	×
PLC1		
Series	DCP32	•
Please reconfirm all of address settings that you are using if you have changed the series.		
Device Address	1	-
		Default
OK (<u>0</u>)		Cancel

Settings of External Device

Use the FUNC key, PARA key, ENT key, DISP key, down key and up 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. While pressing the FUNC key, press the PARA key to move to the screen of the setting group selection.

2.Press the PARA key several times to display the setup data setting group, and press the ENT key.

3.Press the down/up keys several times to select the setup items and press the ENT key.

4.Use the down/up keys to select the setup contents and press the ENT key.

5.Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C84	1
C85	0
C93	0

MEMO

3.23 Setting Example 23

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Yamatake Co	orporation	Driver Digital Controller SIO Port COM1
Text Data Mode	1 <u>Change</u>	
Communication Settings		
SIO Type	• RS232C	C RS422/485(2wire) C RS422/485(4wire)
Speed	9600	
Data Length	0.7	• 8
Parity	O NONE	• EVEN O ODD
Stop Bit	© 1	0 2
Flow Control	C NONE	O ER(DTR/CTS) O XON/XOFF
Timeout	3 📫 (se	ec)
Retry	2 +	
Wait To Send	10 📑 (ms	s)
RI / VCC	• RI	C VCC
	Supply). If you use th	the 9th pin to RI (Input) the Digital's RS232C Default
Device-Specific Settings		
Allowable No. of Devi		
	ne	
or VCC (5V Power 1 Isolation Unit, pleas Device-Specific Settings	Supply). If you use the select it to VCC.	the Digital's RS232C Default

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

💰 Individual Device Se	ttings	×
PLC1		
Series	DCP551	•
Please reconfirm all of address settings that you are using if you have changed the series.		
Device Address	1	-
		Default
OK (<u>0</u>)		Cancel

Settings of External Device

Use the PROG key, RUN/HOLD key, SETUP key, ENT key, DISP key, down key and up key in front of the Controller for communication settings of the External Device. You can change the communication setting only in the READY mode. Move the External Device to the READY mode before setting. Please refer to the manual of the Controller for more details.

Procedure

1. Press the RUN/HOLD key while pressing the PROG key to move to the READY mode.

2.Press the SETUP key in the standard display to move to the setup mode.

3.Press the down/up keys several times to select the setup items and press the ENT key.

4.Use the down/up keys to select the setup contents and press the ENT key.

5. Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C76	1
C77	0
C78	0
C79	0
C80	1
C97	0

MEMO

3.24 Setting Example 24

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1	
Summary Change	Device/PLC
Maker Yamatake Corporation Driver Digital Controller SIO Port COM	1
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 O 8	
Parity CNONE CEVEN CODD	
Stop Bit 💿 1 💿 2	
Flow Control 💿 NONE 🔿 ER(DTR/CTS) 🔿 XON/XOFF	
Timeout 3 🙀 (sec)	
Retry 2	
Wait To Send 10 🚔 (ms)	
In the case of RS232C, you can select the 9th pin to RI (Input)	
or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC. Default	
Device-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
No. Device Name Settings No. Device Name Settings I PLC1 Image: Settings Image: Settings	
1 PLC1 Series=DCP551,Device Address=1	

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

💰 Individual Device Settings 🛛 🛛 🔀		
PLC1		
Series	DCP551	•
Please reconfirm all of a you are using if you have		
Device Address	1	•
		Default
OK (<u>0</u>)		Cancel

Settings of External Device

Use the PROG key, RUN/HOLD key, SETUP key, ENT key, DISP key, down key and up key in front of the Controller for communication settings of the External Device. You can change the communication setting only in the READY mode. Move the External Device to the READY mode before setting. Please refer to the manual of the Controller for more details.

Procedure

1. Press the RUN/HOLD key while pressing the PROG key to move to the READY mode.

2.Press the SETUP key in the standard display to move to the setup mode.

3.Press the down/up keys several times to select the setup items and press the ENT key.

4.Use the down/up keys to select the setup contents and press the ENT key.

5. Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C76	1
C77	0
C78	0
C79	0
C80	0
C97	0

MEMO

3.25 Setting Example 25

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1			
Summary			Change Device/PLC
Maker 🗗	Yamatake Co	rporation	Driver Digital Controller SIO Port COM1
Text Data	a Mode 🛛 🗍	1 <u>Change</u>	
Communication	n Settinas		
SIO Type	-	O RS232C	RS422/485(2wire) RS422/485(4wire)
Speed		9600	T
Data Len	gth	0.7	• 8
Parity		O NONE	EVEN ODD
Stop Bit		● 1	C 2
Flow Con	trol	🖲 NONE	O ER(DTR/CTS) O XON/XOFF
Timeout		3 📑 ((sec)
Retry		2 🔹	
Wait To 9	Send	10 📑 ((ms)
RI / VCC		© BI	C VCC
			ect the 9th pin to RI (Input) se the Digital's RS232C
		select it to VCC.	
Device-Specif	ic Settings		
		e/PLCs 16 Unit	
No.	Device Nam PLC1	e	Settings Series=DCP551,Device Address=1
00			NUL I

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

💰 Individual Device Settings 🛛 🗙		×
PLC1		
Series	DCP551	•
Please reconfirm all of a you are using if you have		
Device Address	1	-
		Default
OK (<u>0</u>)		Cancel

Settings of External Device

Use the PROG key, RUN/HOLD key, SETUP key, ENT key, DISP key, down key and up key in front of the Controller for communication settings of the External Device. You can change the communication setting only in the READY mode. Move the External Device to the READY mode before setting. Please refer to the manual of the Controller for more details.

Procedure

1. Press the RUN/HOLD key while pressing the PROG key to move to the READY mode.

2.Press the SETUP key in the standard display to move to the setup mode.

3.Press the down/up keys several times to select the setup items and press the ENT key.

4.Use the down/up keys to select the setup contents and press the ENT key.

5. Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C76	1
C77	0
C78	0
C79	0
C80	0
C97	0

MEMO

3.26 Setting Example 26

- Setting of GP-Pro EX
- Communication Settings

Device/P	'LC 1			
Summary	y		Change Device/F	<u>۲LC</u>
Mal	ker Yamatake Co	orporation	Driver Digital Controller SIO Port COM1	
Tex	kt Data Mode	1 <u>Change</u>		
Commun	nication Settings			
SIO	-) Туре	• RS232C	C RS422/485(2wire) C RS422/485(4wire)	
Spe	eed	9600	•	
Dat	ta Length	0.7	• 8	
Par	rity	O NONE	EVEN ODD	
Sto	ip Bit	● 1	O 2	
Flov	w Control	O NONE	O ER(DTR/CTS) O XON/XOFF	
Tim	neout	3 📫 (;	(sec)	
Ret	try	2 .		
Wa	ait To Send	10 📑 ()	(ms)	
BL	/VCC	• RI	© VCC	
or		Supply). If you use	ect the 9th pin to RI (Input) se the Digital's RS232C 	
Device-9	Specific Settings			
Allo	wable No. of Devi			
ă	No. Device Nan	ne	Settings Series=DCP552,Device Address=1	
a				

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

💰 Individual Device Settings 🛛 🗙		
PLC1		
Series	DCP552	•
Please reconfirm all of a you are using if you have		
Device Address	1	-
	[Default
OK (<u>D</u>)		Cancel

Settings of External Device

Use the PROG key, RUN/HOLD key, SETUP key, ENT key, DISP key, down key and up key in front of the Controller for communication settings of the External Device. You can change the communication setting only in the READY mode. Move the External Device to the READY mode before setting. Please refer to the manual of the Controller for more details.

Procedure

1. Press the RUN/HOLD key while pressing the PROG key to move to the READY mode.

2.Press the SETUP key in the standard display to move to the setup mode.

3.Press the down/up keys several times to select the setup items and press the ENT key.

4.Use the down/up keys to select the setup contents and press the ENT key.

5. Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C76	1
C77	0
C78	0
C79	0
C80	1
C97	0

MEMO

3.27 Setting Example 27

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1		
Summary		Change Device/PLC
Maker Yamatake C	orporation	Driver Digital Controller SIO Port COM1
Text Data Mode	1 Change	
Communication Settings		
SIO Type	C RS232C (© RS422/485(2wire)
Speed	9600	•
Data Length	07 (• 8
Parity	O NONE (EVEN C ODD
Stop Bit	© 1 (0 2
Flow Control	O NONE	O ER(DTR/CTS) O XON/XOFF
Timeout	3 📫 (see	c)
Retry	2 📫	
Wait To Send	10 📑 (ms	s)
RI / VCC	© BL (O VCC
		the 9th pin to RI (Input)
Isolation Unit, pleas	Supply). If you use the select it to VCC.	Digital's H5232C Default
Device-Specific Settings		
Allowable No. of Dev	vice/PLCs 16 Unit(s)	
No. Device Na	me	Settings Series=DCP552,Device Address=1
. PEST		

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

💰 Individual Device Settings 🛛 🛛 🔀		
PLC1		
Series	DCP552	
Please reconfirm all of a you are using if you have		
Device Address	1	
	Default	
OK (<u>D</u>)	Cancel	

Settings of External Device

Use the PROG key, RUN/HOLD key, SETUP key, ENT key, DISP key, down key and up key in front of the Controller for communication settings of the External Device. You can change the communication setting only in the READY mode. Move the External Device to the READY mode before setting. Please refer to the manual of the Controller for more details.

Procedure

1. Press the RUN/HOLD key while pressing the PROG key to move to the READY mode.

2.Press the SETUP key in the standard display to move to the setup mode.

3.Press the down/up keys several times to select the setup items and press the ENT key.

4.Use the down/up keys to select the setup contents and press the ENT key.

5. Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C76	1
C77	0
C78	0
C79	0
C80	0
C97	0

MEMO

3.28 Setting Example 28

- Setting of GP-Pro EX
- Communication Settings

Device/PLC 1	
Summary	Change Device/PLC
Maker Yamatake Corporation Driver Digital Controller SIO	Port COM1
Text Data Mode 1 Change	
Communication Settings	
SID Type C RS232C © RS422/485(2wire) C RS422/485(4wire)	
Speed 9600 💌	
Data Length O 7 💿 8	
Parity C NONE O EVEN C ODD	
Stop Bit 💿 1 💿 2	
Flow Control O NONE O ER(DTR/CTS) O XON/XOFF	
Timeout 3 💼 (sec)	
Retry 2	
Wait To Send 10 💼 (ms)	
RI / VCC © RI © VCC	
In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.	
Device-Specific Settings	
Allowable No. of Device/PLCs 16 Unit(s)	
No. Device Name Settings No. Device Name Image: PLC1 Image: PLC1	

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

💰 Individual Device Settings 🛛 🗙		
PLC1		
Series	DCP552	
Please reconfirm all of a you are using if you have		
Device Address	1	
	Default	
OK (<u>D</u>)	Cancel	

Settings of External Device

Use the PROG key, RUN/HOLD key, SETUP key, ENT key, DISP key, down key and up key in front of the Controller for communication settings of the External Device. You can change the communication setting only in the READY mode. Move the External Device to the READY mode before setting. Please refer to the manual of the Controller for more details.

Procedure

1. Press the RUN/HOLD key while pressing the PROG key to move to the READY mode.

2.Press the SETUP key in the standard display to move to the setup mode.

3.Press the down/up keys several times to select the setup items and press the ENT key.

4.Use the down/up keys to select the setup contents and press the ENT key.

5. Press the DISP key to move to the standard display.

Setting Value

Setup Items	Setting Value
C76	1
C77	0
C78	0
C79	0
C80	0
C97	0

MEMO

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 7)

4.1 Setup Items in GP-Pro EX

Communication Settings

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

Device/PLC 1		
Summary		Change Device/PLC
Maker Yamatake C	orporation	Driver Digital Controller SIO Port COM1
Text Data Mode	1 Change	
Communication Settings		
SIO Type	C RS232C	RS422/485(2wire) RS422/485(4wire)
Speed	9600	•
Data Length	C 7	• 8
Parity	C NONE	⊙ EVEN ○ ODD
Stop Bit	● 1	© 2
Flow Control	NONE	O ER(DTR/CTS) O XON/XOFF
Timeout	4 🔹	(sec)
Retry	2 🔹	
Wait To Send	70 🕂	(ms)
RI / VCC	🖲 BI	O VCC
	Supply). If you us	ect the 9th pin to RI (Input) se the Digital's RS232C 2. Default
Device-Specific Settings		
Allowable No. of Dev		
No. Device Na	me	Series=SDC10,Device Address=1
Isolation Unit, plea Device-Specific Settings Allowable No. of Dev No. <u>Device Na</u>	se select it to VCC vice/PLCs 16 Uni	it(s) Efault

Setup Items	Setup Description		
SIO Type	Select the SIO type to communicate with the External Device.		
Speed	Select speed between the External Device and the Display.		
Data Length	Select data length.		
Parity	Select how to check parity.		
Stop Bit	Select stop bit length.		
Flow Control	Display the communication control method to prevent overflow of transmission and reception data.		
Timeout	Use an integer from 1 to 127 to enter the time (s) for which the Display waits for the response from the External Device.		

continued to next page

63

Setup Items	Setup Description	
Retry	In case of no response from the External Device, use an integer from 0 to 255 to enter how many times the Display retransmits the command.	
Wait To Send	Use an integer from 0 to 255 to enter standby time (ms) for the Display from receiving packets to transmitting next commands.	
RI/VCC	Switches RI/VCC of the 9th pin.	

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 **int** from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

💰 Individual Device Se	ttings 🛛 🔀
PLC1	
Series	SDC10
Please reconfirm all of a you are using if you have	
Device Address	1
	Default
OK (<u>O</u>)	Cancel

Setup Items	Setup Description	
Series	Displays a model of the External Device.	
Device Address	Enter the address of the External Device, using 1 to 127.	

4.2 Settings in Off-Line Mode

MEMO

• Please refer to GP3000 Series User's Manual for more information on how to enter off-line mode or about operation.

Cf: GP3000 Series User's Manual "Chapter 4 Setting"

Communication Settings

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

Comm.	Device	Option		
Digital Controller	\$10		[[COM1]	Page 1/1
	SIO Type Speed Data Length Parity Star Dit	RS422/485(9600 7 NONE	• 8 • EVEN	• • • ODD
	Stop Bit Flow Control Timeout(s) Retry Wait To Send(ms)	• 1 NONE	 2 3 ✓ 2 ✓ 10 ✓ 	k k
	Exit		Back	2006/01/31 15:56:38

Setup Items	Setup Description		
SIO Type	Select the SIO type to communicate with the External Device.		
Speed	Select speed between the External Device and the Display.		
Data Length	Select data length.		
Parity	Select how to check parity.		
Stop Bit	Select stop bit length.		
Flow Control	Display the communication control method to prevent overflow of transmission and reception data.		
Timeout	Use an integer from 1 to 127 to enter the time (s) for which the Display waits for the response from the External Device.		
Retry	In case of no response from the External Device, use an integer from 0 to 255 to enter how many times the Display retransmits the command.		
Wait To Send	Use an integer from 0 to 255 to enter standby time (ms) for the Display from receiving packets to transmitting next commands.		
RI/VCC	Switches RI/VCC of the 9th pin.		

65

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

Comm.	Device	Option		
		Ì		
Digital Controller	\$10		[COM1]	Page 1/1
Device	/PLC Name PLC	01		
	Series	SDC30/31		
	Device Address			1 🔻 🔺
	Exit		Back	2006/01/31 15:56:42

Setup Items	Setup Description
Device/PLC Name	Select the External Device to set. Device name is a title of the External Device set with GP- Pro EX. (Initial value [PLC1])
Series	Displays a model of the External Device.
Device Address	Enter the address of the External Device, using 1 to 127.

Option

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

Comm,	Device	Option		
				Ì
Digital Controller	\$10		[COM1]	Page 1/1
	the 9th pin to Power Supply).	• RI ⁵ RS232C, you can se 5 RI(Input) or VCC(5 ⁴ 1f you use the Digi on Unit, please sel 16 Note: No	√ tál's	
	Exit		Back	2006/01/31 15:56:48

Setup Items	Setup Description	
RI/VCC	Switches RI/VCC of the 9th pin.	

5 Cable Diagram

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

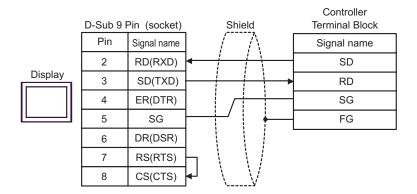
- The FG pin of the main body of the External Device must be D-class grounded. Please refer to the manual of the External Device for more details.
- SG and FG are connected inside the Display. When connecting SG to the External Device, design the system not to form short-circuit loop.
- Check the terminal No. on the side of External Device in the manual of the External Device. It varies depending on the additional function.

Recommended cable

Company Name		Model No.
Fujikura Densen	2 cores	IPEV-S-0.9mm ² x1P
Pujikura Densen	3 cores	ITEV-S-0.9mm ² x1T
Hitachi Densen	2 cores	KPEV-S-0.9mm ² x1P
Thach Deliseli	3 cores	KTEV-S-0.9mm ² x1T

Cable Diagram 1

Display (Connection Port)	Cable	Remarks	
GP(COM1)	Your own cable	Cable length: 15m or less	

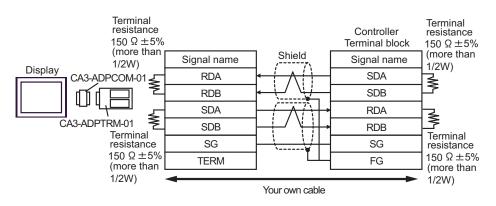


Cable Diagram 2

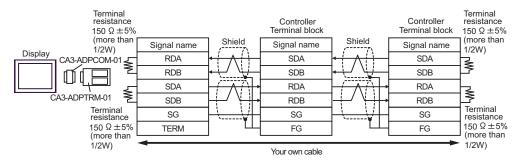
Display (Connection Port)		Cable	Remarks	
GP(COM1) ^{*1} AGP- 3302(COM2)	А	COM port conversion adapter by Digital Electronics Corp. CA3-ADPCOM-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable		
	В	Your own cable	Cable length: 500m or less	
GP(COM2) ^{*1}	С	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable		
	D	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Your own cable		

*1 Except AGP-3302 Series

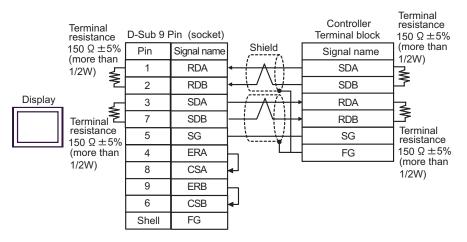
- A. When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection



• 1:n Connection



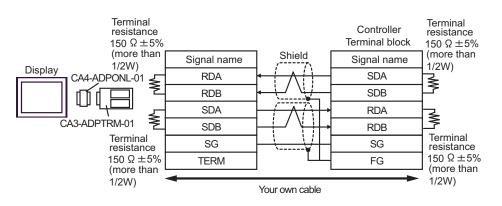
- B. When self-made cable is used
- 1:1 Connection



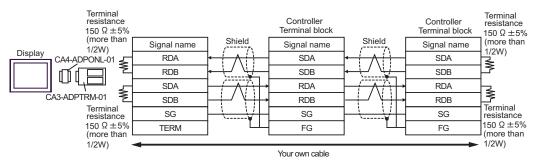
• 1:n Connection

	Terminal resistance			Controller Terminal block			Controller Terminal block	Terminal resistance $150 \Omega \pm 5\%$
	150 $\Omega \pm 5\%$ (more than	Pin	Signal name	Shield	Signal name	Shield	Signal name	(more than
	Terminal resistance 150 Ω ±5% (more than 1/2W)	1	RDA		SDA		SDA	1/2W) Terminal resistance 150 $\Omega \pm 5\%$ (more than
		2	RDB		SDB		SDB	
] ' 1 (3	SDA		RDA		RDA	
		7	SDB		RDB		RDB	
		5	SG		SG		SG	
		4	ERA		FG		FG	
		8	CSA					1/2W)
		9	ERB					
		6	CSB	┣┛				
		Shell	FG]				

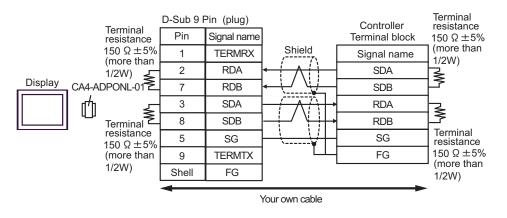
- C. When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection

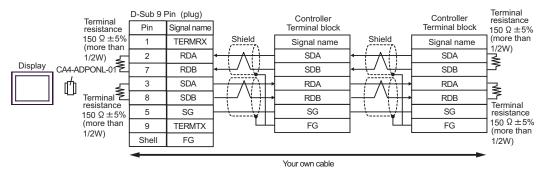


• 1:n connection



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



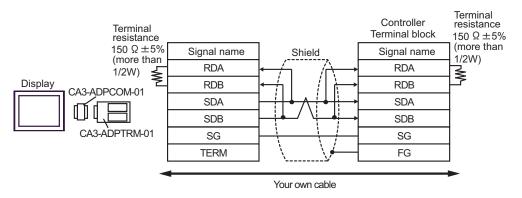


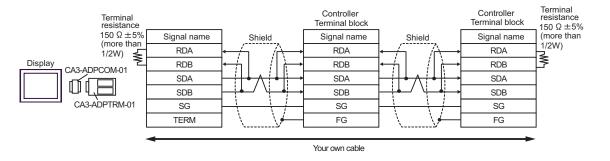
Cable Diagram 3

Display (Connection Port)		Cable	Remarks	
GP(COM1) ^{*1} AGP- 3302(COM2)	A	COM port conversion adapter by Digital Electronics Corp. CA3-ADPCOM-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable		
	В	Your own cable		
GP(COM2) ^{*1}	С	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	Cable length: 500m or less	
	D	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Your own cable		

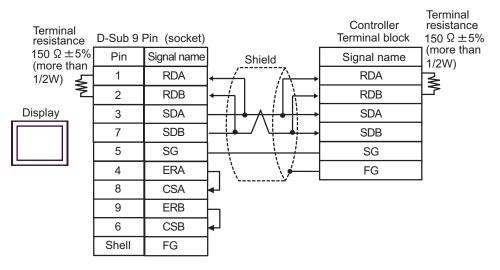
*1 Except AGP-3302 Series

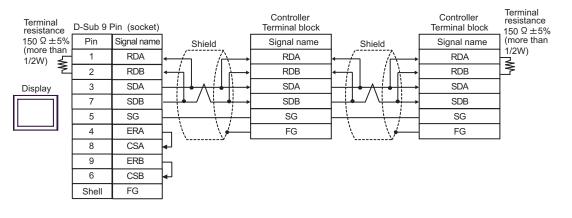
- A. When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection



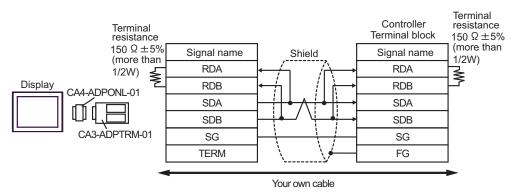


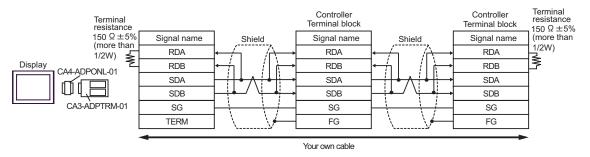
- B. When self-made cable is used
- 1:1 Connection





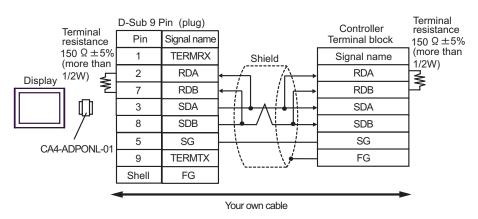
- C. When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection

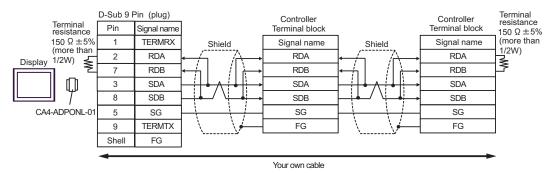




D. When using the online adapter (CA4-ADPONL-01) by Digital Electronics Corp. and your own cable

• 1:1 Connection



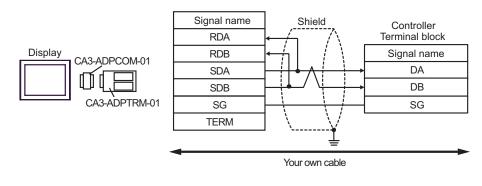


Cable Diagram4

Display (Connection Port)		Cable	Remarks	
GP(COM1) ^{*1} AGP- 3302(COM2)	A	COM port conversion adapter by Digital Electronics Corp. CA3-ADPCOM-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable		
	В	Your own cable		
GP(COM2) ^{*1}	С	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	Cable length: 500m or less	
	D	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Your own cable		

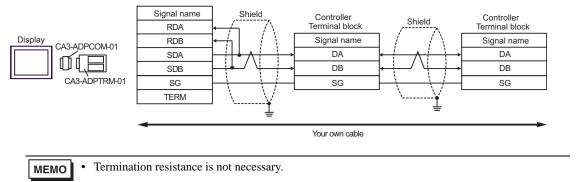
*1 Except AGP-3302 Series

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

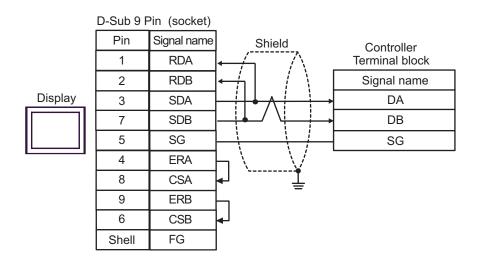


МЕМО

Termination resistance is not necessary.



- B. When self-made cable is used
- 1:1 Connection

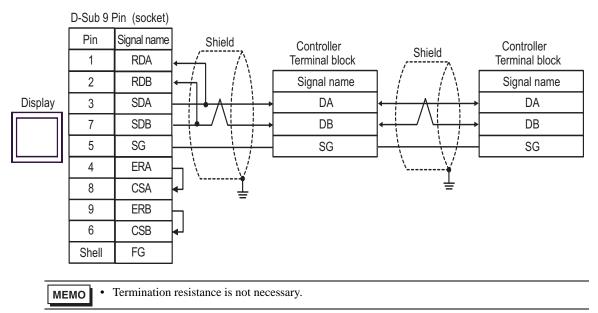


MEMO

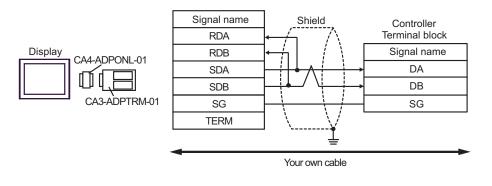
Termination resistance is not necessary.

1:n Connection

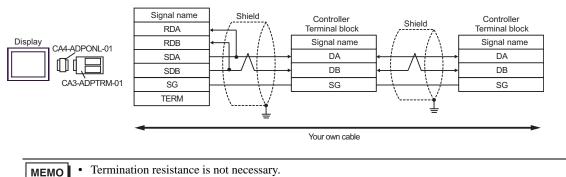
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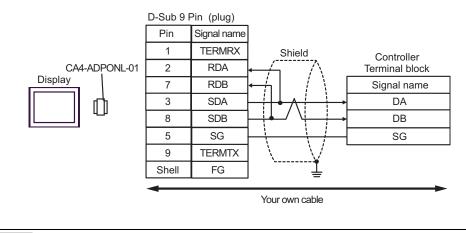
- C. When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection



MEMO • Termination resistance is not necessary.



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

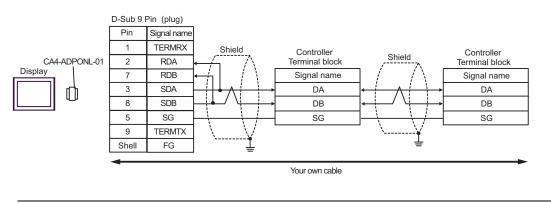


MEMO

Termination resistance is not necessary.

1:n Connection

٠



MEMO

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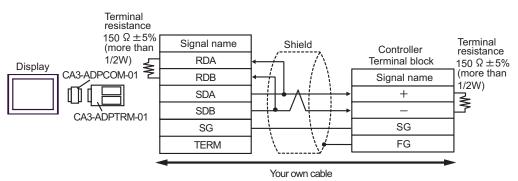
Termination resistance is not necessary.

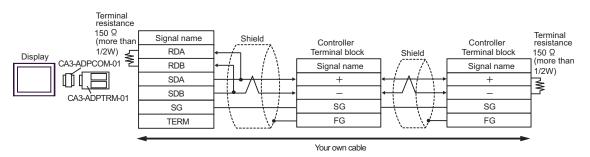
Cable Diagram5

Display (Connection Port)		Cable	Remarks	
GP(COM1) ^{*1} AGP- 3302(COM2)	A	COM port conversion adapter by Digital Electronics Corp. CA3-ADPCOM-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable		
	В	Your own cable		
GP(COM2) ^{*1}	С	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	Cable length: 500m or less	
	D	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Your own cable		

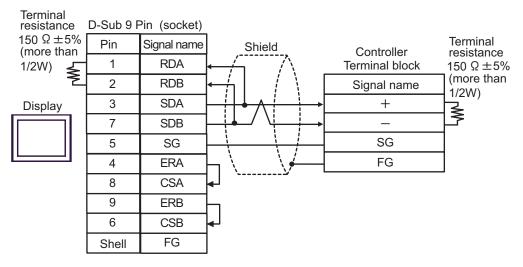
*1 Except AGP-3302 Series

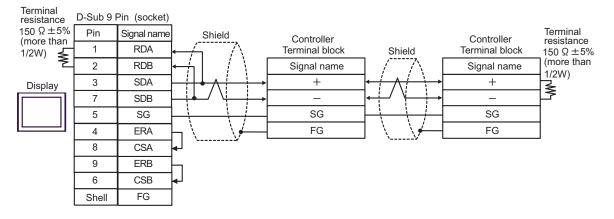
- A. When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection



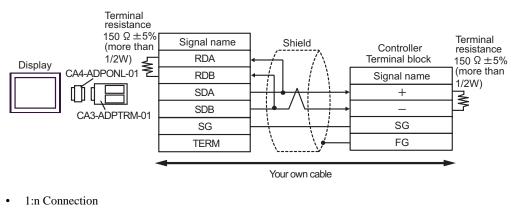


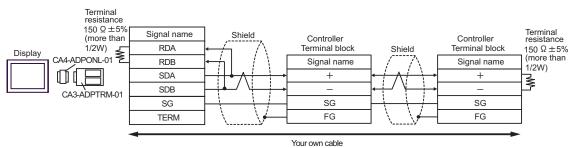
- B. When self-made cable is used
- 1:1 Connection





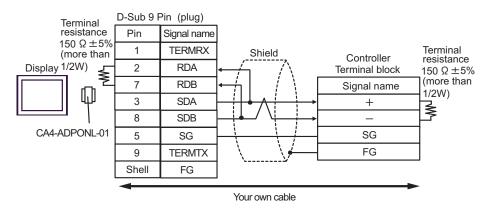
- C. When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection

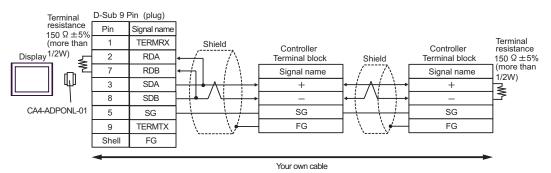




D. When using the online adapter (CA4-ADPONL-01) by Digital Electronics Corp. and your own cable

• 1:1 Connection



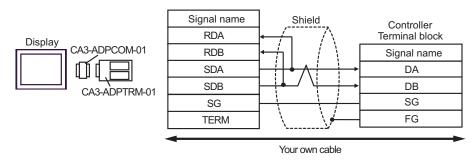


Cable Diagram6

Display (Connection Port)		Cable	Remarks	
GP(COM1) ^{*1} AGP- 3302(COM2)	A	COM port conversion adapter by Digital Electronics Corp. CA3-ADPCOM-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable		
	В	Your own cable		
GP(COM2) ^{*1}	С	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	Cable length: 500m or less	
	D	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Your own cable		

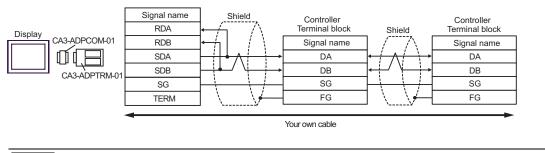
*1 Except AGP-3302 Series

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



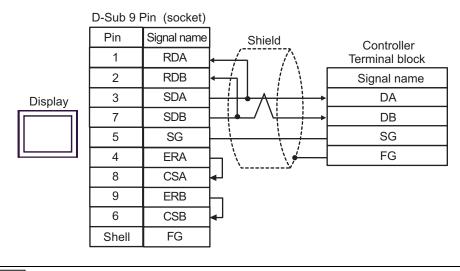
MEMO

• Termination resistance is not necessary.



MEMO • Termination resistance is not necessary.

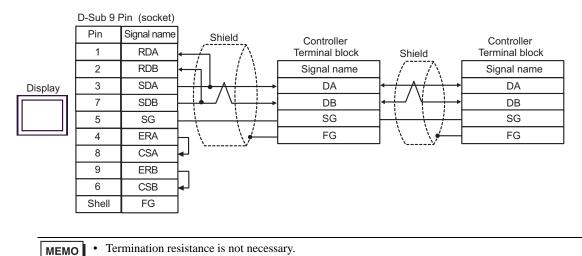
- B. When self-made cable is used
- 1:1 Connection



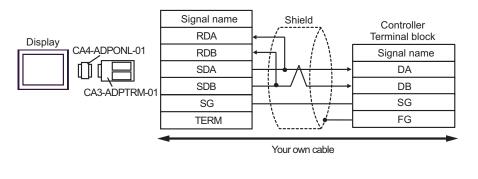
MEMO

• Termination resistance is not necessary.

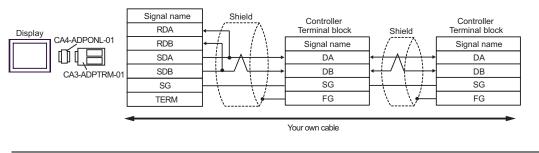
1:n Connection



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

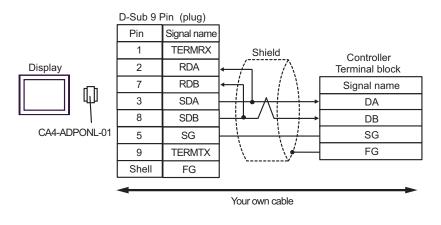


MEMO • Termination resistance is not necessary.



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MEMO • Termination resistance is not necessary.
```

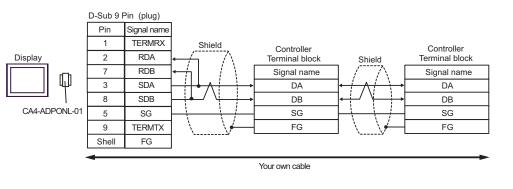
- D. When using the online adapter (CA4-ADPONL-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection



MEMO

• Termination resistance is not necessary.

1:n Connection



MEMO

• Termination resistance is not necessary.

Supported Device 6

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.

	🏄 I	npu	t Ad	ldres	s (W	ord		ĸ	
	Dev	ice/F	PLC	PLC1			-		/
				005	01		/		
	Ba	ick				0	lr		
	А	В	С		7	8	9		
2	D	Е	F		4	5	6		
					1	2	3		
	Re	eterer	nce		0	E	nt		
								·	

1. Address

Enter the address.

2. Reference

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

6.1 SDC10

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bit	Remarks
Data	00501.0-04504.F	00501-04504	[L / H]	*1

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

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

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

- Cf: GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"
- Please refer to the precautions on manual notation for icons in the table.

Manual Symbols and Terminology

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

6.2 SDC15/SDC25/SDC26/SDC35/SDC36

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bit	Remarks
Data	00273.0-31243.F	00273-31243	[L/H]	*1

Г

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

6.3 SDC20/SDC21

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bit	Remarks
Data	0301.0-0690.F	0301-0690	[L/H]	*1

F

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

6.4 SDC30/SDC31

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bit	Remarks
Data	00501.0-06049.F	00501-06049	[L / H]	*1

F

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

6.5 SDC40A

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bit	Remarks
Data	00501.0-06100.F	00501-06100	[L/H]	*1

F

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

6.6 SDC40B

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bit	Remarks
Data	00501.0-08902.F	00501-08902	[L/H]	*1

F

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

6.7 SDC40G

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bit	Remarks
Data	00501.0-06100.F	00501-06100	[L/H]	*1

F

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

6.8 DMC10

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bit	Remarks
Data	01001.0-07806.F	01001-07806	[L/H]	*1

F

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

6.9 DCP31/DCP32

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bit	Remarks
Data	00501.0-04600.F	00501-04600	[L / H]	*1

F

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

6.10 DCP551

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bit	Remarks
Data	00256.0-01712.F	00256-01712	[L/H]	*1

F

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

6.11 DCP552

This address can be specified as system data area.

Device	Bit Address	Word Address	32 bit	Remarks
Data	00256.0-02003.F	00256-02003	[L/H]	*1

F

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

7 Device Code and Address Code

Use device code and address code when you select "Device Type & Address" for the address type in data displays. Address of the External Device is configured as follows.

7.1 SDC10

Device	Device Name	Device Code (HEX)	Address Code
Data		0080	Word Address

7.2 SDC15/SDC25/SDC26/SDC35/SDC36

Device	Device Name	Device Code (HEX)	Address Code
Data		0080	Word Address

7.3 SDC20/SDC21

Device	Device Name	Device Code (HEX)	Address Code
Data		0080	Word Address

7.4 SDC30/SDC31

Device	Device Name	Device Code (HEX)	Address Code
Data		0080	Word Address

7.5 SDC40A

Device	Device Name	Device Code (HEX)	Address Code
Data		0080	Word Address

7.6 SDC40B

Device	Device Name	Device Code (HEX)	Address Code
Data		0080	Word Address

7.7 SDC40G

Device	Device Name	Device Code (HEX)	Address Code
Data		0080	Word Address

7.8 DMC10

Device	Device Name	Device Code (HEX)	Address Code
Data		0080	Word Address

7.9 DCP31/DCP32

Device	Device Name	Device Code (HEX)	Address Code
Data		0080	Word Address

7.10 DCP551

Device	Device Name	Device Code (HEX)	Address Code
Data		0080	Word Address

7.11 DCP552

Device	Device Name	Device Code (HEX)	Address Code
Data		0080	Word Address

8 Error Messages

Error messages are displayed on the screen of Display as follows: "No. : Device Name: Error Message(Error Occurrence Area)". Each description is shown below.

Item	Requirements		
No.	Error No.		
Device Name	Name of External Device where error occurs. Name of External Device is a title of External Device set with GP-Pro EX.(Initial value[PLC1])		
Error Message	Displays messages related to the error which occurs.		
Error Occurrence Area	Displays IP address or device address of External Device where error occurs, or error codes received from External Device.		
	 MEMO IP address is displayed such as "IP address(Decimal): MAC address(Hex)". Device address is displayed such as "Address: Device addressî. Received error codes are displayed such as "Decimal[Hex]". 		

Display Examples of Error Messages

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



Memo