CS/CJ Series HOST Link Driver

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Introduction

This manual describes how to connect the Display (GP3000 series) and the External Device (target PLC). In this manual, the connection procedure will be described by following the below sections:

System Configuration "1 System Configuration" (page 3) This section shows the types of External Devices which can be connected and SIO type. Selection of External Device 2 "2 Selection of External Device" (page 5) Select a model (series) of the External Device to be connected and connection method. **Example of Communication Settings** 3 "3 Example of Communication Setting" This section shows setting examples for (page 6) communicating between the Display and the External Device. Communication Settings 4 "4 Setup Items" (page 24) This section describes communication setup items on the Display. Set communication settings of the Display with GP-Pro EX or in off-line mode. Cable Diagram 5 "5 Cable Diagram" (page 29) This section shows cables and adapters for connecting the Display and the External Device. Operation

1 System Configuration

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

Series	CPU	Connection Port	SIO Type	Communication Settings	Cable Diagram
	CS1G-CPU45 CS1G-CPU44 CS1G-CPU43	RS232C port on the CPU unit	RS232C	Setting Example 1 (page 6)	Cable Diagram 1 (page 29)
	CS1G-CPU42 CS1G-CPU45H	Peripheral port on the CPU unit ^{*1}	RS232C	Setting Example 2 (page 9)	Cable Diagram 2 (page 30)
	CS1G-CPU44H CS1G-CPU43H CS1G-CPU42H	CS1W-SCU21	RS232C	Setting Example 5 (page 18)	
	CS1G-CPU45-V1 CS1G-CPU44-V1 CS1G-CPU43-V1	CS1W-SCB21	RS232C	Setting Example 3 (page 12)	Cable Diagram 1 (page 29)
CS1	CS1G-CPU42-V1 CS1H-CPU67 CS1H-CPU66		RS232C	Setting Example 3 (page 12)	
	CS1H-CPU65 CS1H-CPU64 CS1H-CPU63 CS1H-CPU67H CS1H-CPU65H CS1H-CPU65H CS1H-CPU63H CS1H-CPU67-V1 CS1H-CPU66-V1 CS1H-CPU65-V1 CS1H-CPU64-V1 CS1H-CPU63-V1	CS1W-SCB41	RS422/485 (4wire)	Setting Example 4 (page 15)	Cable Diagram 3 (page 31)
	CJ1G-CPU45 CJ1G-CPU44 CJ1M-CPU23	RS232C port on the CPU unit	RS232C	Setting Example 1 (page 6)	Cable Diagram 1 (page 29)
	CJ1M-CPU23 CJ1M-CPU22 CJ1M-CPU13 CJ1M-CPU12 CJ1M-CPU11 CJ1H-CPU66H CJ1H-CPU65H CJ1G-CPU45H CJ1G-CPU44H CJ1G-CPU43H CJ1G-CPU42H	Peripheral port on the CPU unit ^{*1}	RS232C	Setting Example 2 (page 9)	Cable Diagram 2 (page 30)
CJ		CJ1W-SCU41	RS232C	Setting Example 5 (page 18)	Cable Diagram 1 (page 29)
			RS422/485 (4wire)	Setting Example 6 (page 21)	Cable Diagram 3 (page 31)

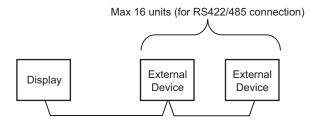
^{*1} Turn ON the DIP switch 4 on the CPU unit.

■ Connection Configuration

• 1:1 Connection

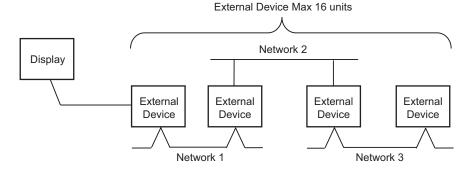


• 1:n Connection



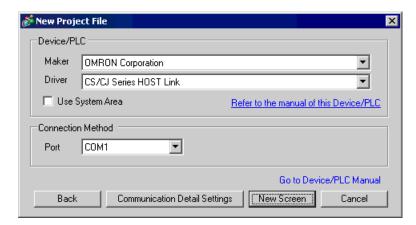
Access beyond network

You can access beyond maximum 3 levels of network.



2 Selection of External Device

Select the External Device to be connected to the Display.



Setup Items	Setup Description
Maker	Select the maker of the External Device to be connected. Select "OMRON Corporation".
Driver	Select a model (series) of the External Device to be connected and connection method. Select "CS/CJ Series HOST Link". Check the External Device which can be connected in "CS/CJ Series HOST Link" in system configuration. "1 System Configuration" (page 3)
Use System Area	Check this option when you synchronize the system data area of Display and the device (memory) of External Device. When synchronized, you can use the ladder program of External Device to switch the display or display the window on the display. Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)" This can be also set with GP-Pro EX or in off-line mode of Display. Cf. GP-Pro EX Reference Manual " 6.13.6 Setting Guide of [System Setting Window]■[Main Unit Settings] Settings Guide System Area Setting" Cf. GP3000 Series User Manual "4.3.6 System Area Setting"
Port	Select the Display port to be connected to the External Device.

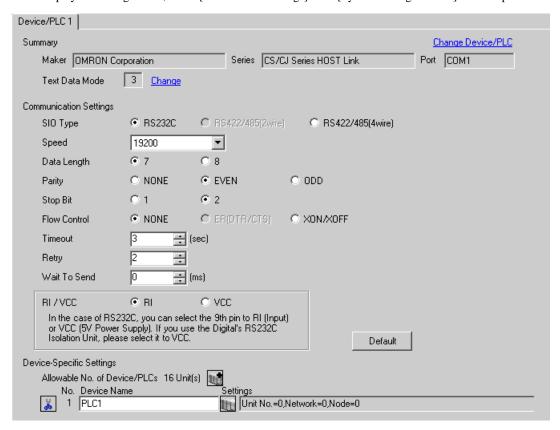
3 Example of Communication Setting

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

3.1 Setting Example 1

- Setting of GP-Pro EX
- ◆ Communication Settings

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



◆ Device Setting

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

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





- Set the unit No. you set in the External Device for "Unit No.".
- If you do not access beyond network, set "0" for "Network" and "Node" settings.

■ Setting of External Device

Click the [HOST Link Port] tab from the [PC System Settings] of the ladder software for the communication settings of the HOST link port (RS232C port on CPU) and set as below.

Setup Items	Settings
Speed	19200
Parameter	7,2,E
Mode	HOST link
DIP Switch*1	SW1: OFF SW5: OFF SW7: OFF SW8: OFF
Unit No.	Option
Source Network Address*2	Option
Node Address Setting Rotary Switch*3	Option

^{*1} Use the DIP switch on the front of the unit for setting.

Notes

• Do not set the duplicate node address in the same network address group.

^{*2} Parameter used when you access beyond network. Set in the routing table of "CX-Net Network Configuration". Please refer to the manual of the External Device for more details.

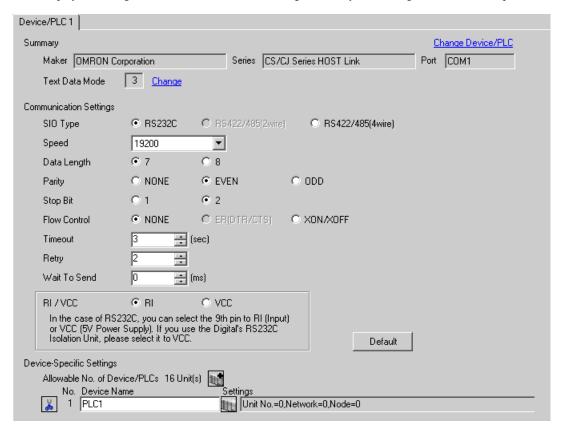
^{*3} Parameter used when you access beyond network. Set with the rotary switch on the front of the Controller Link unit used for access beyond network.

3.2 Setting Example 2

■ Setting of GP-Pro EX

◆ Communication Settings

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



◆ Device Setting

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

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





- Set the unit No. you set in the External Device for "Unit No.".
- If you do not access beyond network, set "0" for "Network" and "Node" settings.

■ Setting of External Device

Click the [Peripheral Port] tab from the [PC System Settings] of the ladder software for the communication settings of the peripheral port and set as below.

Setup Items	Settings
Speed	19200
Parameter	7,2,E
Mode	HOST link
DIP Switch*1	SW1: OFF SW4: ON SW7: OFF SW8: OFF
Unit No.	Option
Source Network Address*2	Option
Node Address Setting Rotary Switch*3	Option

^{*1} Use the DIP switch on the front of the unit for setting.

Notes

• Do not set the duplicate node address in the same network address group.

^{*2} Parameter used when you access beyond network. Set in the routing table of "CX-Net Network Configuration". Please refer to the manual of the External Device for more details.

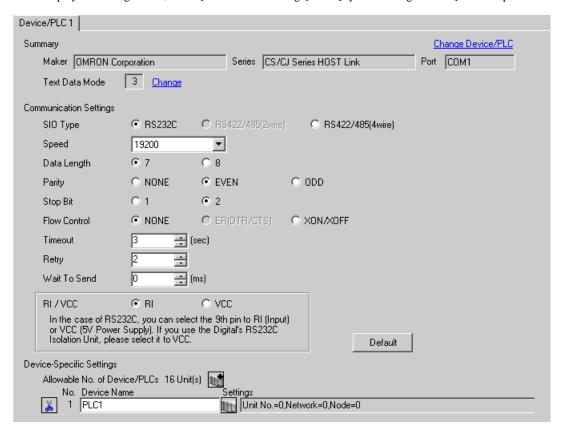
^{*3} Parameter used when you access beyond network. Set with the rotary switch on the front of the Controller Link unit used for access beyond network.

3.3 Setting Example 3

■ Setting of GP-Pro EX

Communication Settings

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



◆ Device Setting

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

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





- Set the unit No. you set in the External Device for "Unit No.".
- If you do not access beyond network, set "0" for "Network" and "Node" settings.

■ Setting of External Device

For communication settings of INNER board, open [I/O Table] of the ladder software first. Then, select [INNER Board Soft Switch] from the menu displayed by right-clicking [CS**-CPU**] (CPU of the External Device to set) and set as below.

Setup Items	Settings
Line Speed	19200
Parameter	1,7,2,E
Mode	Default (HOST Link)
Send Delay Time	0
CS Control	None
Unit No.	Option
Source Network Address*1	Option
Node Address Setting Rotary Switch*2	Option

^{*1} Parameter used when you access beyond network. Set in the routing table of "CX-Net Network Configuration". Please refer to the manual of the External Device for more details.

◆ Notes

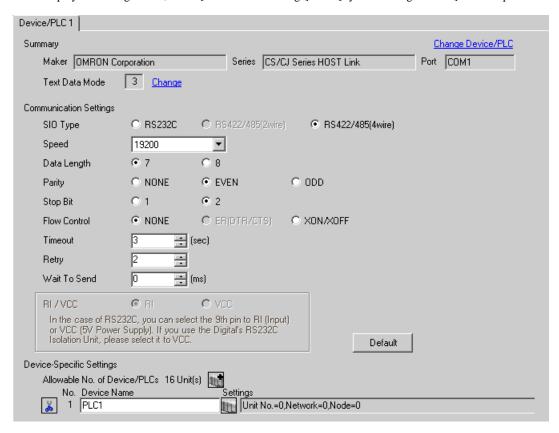
• Do not set the duplicate node address in the same network address group.

^{*2} Parameter used when you access beyond network. Set with the rotary switch on the front of the Controller Link unit used for access beyond network.

3.4 Setting Example 4

- Setting of GP-Pro EX
- ◆ Communication Settings

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



◆ Device Setting

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

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





- Set the unit No. you set in the External Device for "Unit No.".
- If you do not access beyond network, set "0" for "Network" and "Node" settings.

■ Setting of External Device

For communication settings of INNER board, open [I/O Table] of the ladder software first. Then, select [INNER Board Soft Switch] from the menu displayed by right-clicking [CS**-CPU**] (CPU of the External Device to set) and set as below.

Setup Items	Settings
WIRE (2wire/4wire switch)*1	4wire
TERM (Termination resistance switch)*2	ON
Line Speed	19200
Parameter	1,7,2,E
Mode	Default (HOST Link)
Send Delay Time	0
CS Control	None
Unit No.	Option
Source Network Address*3	Option
Node Address Setting Rotary Switch*4	Option

^{*1} Use the WIRE switch on the front of the INNER board to set.

Notes

• Do not set the duplicate node address in the same network address group.

^{*2} Use the TERM switch on the front of the INNER board to set. For 1:n connection, set only the station that serves as termination resistance to ON.

^{*3} Parameter used when you access beyond network. Set in the routing table of "CX-Net Network Configuration". Please refer to the manual of the External Device for more details.

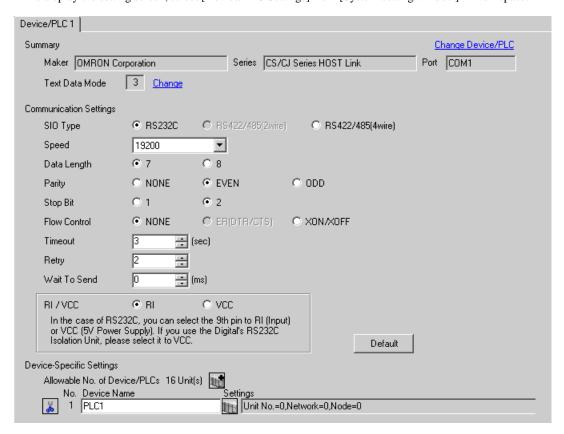
^{*4} Parameter used when you access beyond network. Set with the rotary switch on the front of the Controller Link unit used for access beyond network.

3.5 Setting Example 5

■ Setting of GP-Pro EX

Communication Settings

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



◆ Device Setting

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

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





- Set the unit No. you set in the External Device for "Unit No.".
- If you do not access beyond network, set "0" for "Network" and "Node" settings.

■ Setting of External Device

For communication settings of the communication unit, you need to register the serial communication unit to be used by the ladder software in advance.

After registration, open [I/O Table] of the ladder software. Click [Switch] from the menu displayed by right-clicking [Serial Communication Unit] and set as below.

Setup Items	Settings
Line Speed	19200
Parameter	1,7,2,E
Mode	Default (HOST Link)
Send Delay Time	0
CS Control	None
Unit No. Setting Rotary Switch*1	Same value as "CPU High Function Unit No."
Unit No.	Option
Source Network Address*2	Option
Node Address Setting Rotary Switch*3	Option

^{*1} You need to set this switch to the same value as "CPU High Function Unit No." of the serial communication unit in the I/O table assigned by the ladder tool.

Notes

• Do not set the duplicate node address in the same network address group.

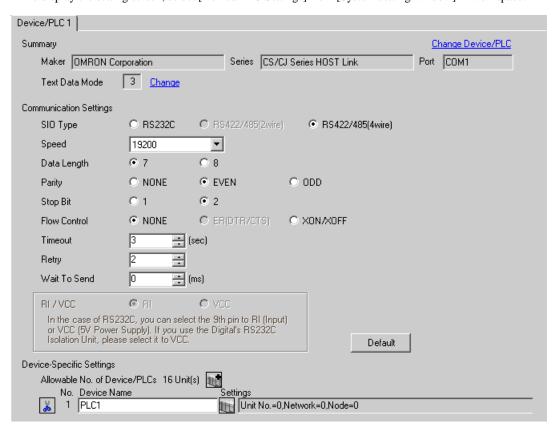
^{*2} Parameter used when you access beyond network. Set in the routing table of "CX-Net Network Configuration". Please refer to the manual of the External Device for more details.

^{*3} Parameter used when you access beyond network. Set with the rotary switch on the front of the Controller Link unit used for access beyond network.

3.6 Setting Example 6

- Setting of GP-Pro EX
- Communication Settings

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



◆ Device Setting

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

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





- Set the unit No. you set in the External Device for "Unit No.".
- If you do not access beyond network, set "0" for "Network" and "Node" settings.

■ Setting of External Device

For communication settings of the communication unit, you need to register the serial communication unit to be used by the ladder software in advance.

After registration, open [I/O Table] of the ladder software. Click [Switch] from the menu displayed by right-clicking [Serial Communication Unit] and set as below.

Setup Items	Settings
WIRE (2wire/4wire switch)*1	4wire
TERM (Termination resistance switch)*2	ON
Line Speed	19200
Parameter	1,7,2,E
Mode	Default (HOST Link)
Send Delay Time	0
CS Control	None
Unit No. Setting Rotary Switch*3	Same value as "CPU High Function Unit No."
Unit No.	Option
Source Network Address*4	Option
Node Address Setting Rotary Switch*5	Option

^{*1} Use the WIRE switch on the front of the Controller Link unit to set.

♦ Notes

• Do not set the duplicate node address in the same network address group.

^{*2} Use the TERM switch on the front of the Controller Link unit to set. For 1:n connection, set only the station that serves as termination resistance to ON.

^{*3} You need to set this switch to the same value as "CPU High Function Unit No." of the serial communication unit in the I/O table assigned by the ladder tool.

^{*4} Parameter used when you access beyond network. Set in the routing table of "CX-Net Network Configuration". Please refer to the manual of the External Device for more details.

^{*5} Parameter used when you access beyond network. Set with the rotary switch on the front of the Controller Link unit used for access beyond network.

4 Setup Items

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

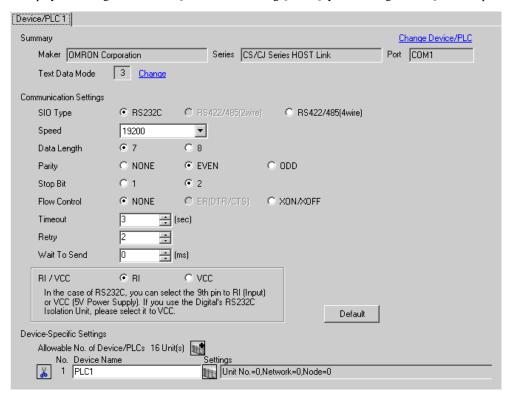
The setting of each parameter must be identical to that of External Device.

"3 Example of Communication Setting" (page 6)

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.



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

continued to next page

Setup Items	Setup Description
Wait To Send	Use an integer from 0 to 255 to enter standby time (ms) for the Display from receiving packets to transmitting next commands.
RI/VCC	You can switch RI/VCC of the 9th pin when you select RS232C for SIO type.

■ Device Setting

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

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



Setup Items	Setup Description	
Unit No.	Enter the unit No. for HOST link.	
Network	Enter the destination network address.	
Node	Enter the destination node address.	

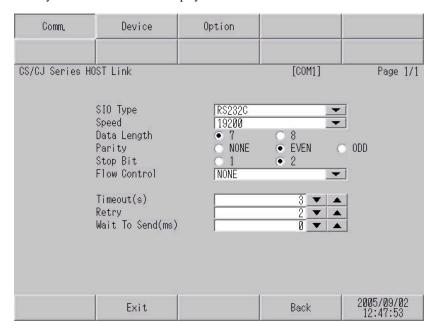
4.2 Setup Items in Off-line Mode



- Please refer to GP3000 Series User Manual for more information on how to enter off-line mode or about operation.
- Cf. GP3000 Series User Manual "Chapter 4 Settings"

■ Communication Settings

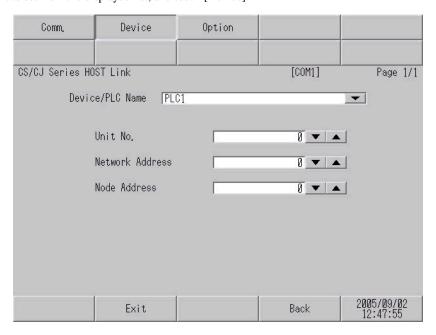
To display the setting screen, touch [Device/PLC Settings] from [Peripheral Settings] in off-line mode. Touch the External Device you want to set from the displayed list.



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

■ Device Setting

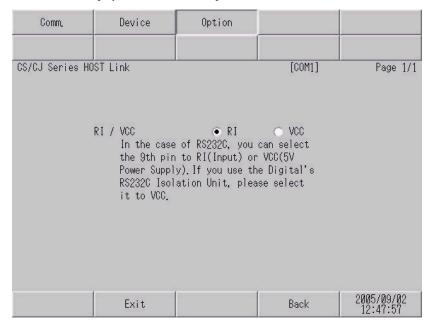
To display the setting screen, touch [Device/PLC Settings] from [Peripheral Settings]. Touch the External Device you want to set from the displayed list, and touch [Device].



Setup Items	Setup Description	
Device/PLC Name	Select the External Device for device setting. Device name is a title of External Device set with GP-Pro EX.(Initial value [PLC1])	
Unit No.	Enter the unit No. for HOST link.	
Network	Enter the destination network address.	
Node	Enter the destination node address.	

■ Option

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



Setup Items	Setup Description
RI/VCC	You can switch RI/VCC of the 9th pin when you select RS232C for SIO type.

5 Cable Diagram

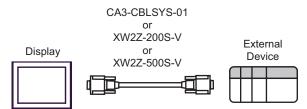
The cable diagram shown below may be different from the cable diagram recommended by OMRON Corporation. Please be assured there is no operational problem in applying the cable diagram shown in this manual

- 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.

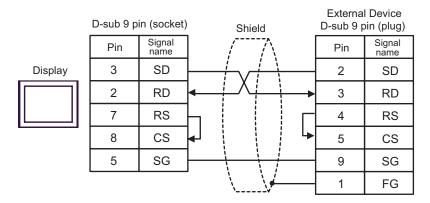
Cable Diagram 1

Display (Connection Port)		Cable	Notes
GP (COM1)	A	OMRON SYSMAC link cable by Pro-face CA3-CBLSYS-01 (5m)	
	В	XW2Z-200S-V (2m) or XW2Z-500S-V (5m) by OMRON Corporation	
	С	Your own cable	The cable length must be 15m or less.

- A) When using OMRON SYSMAC link cable (CA3-CBLSYS-01) by Pro-face
- B) When using XW2Z-200S-V or XW2Z-500S-V by OMRON Corporation



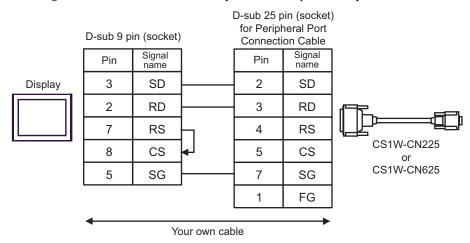
C) When using your own cable



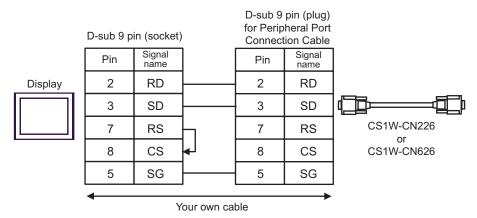
Cable Diagram 2

Display (Connection Port)	Cable		Notes
GR (COM1)	A	CS1W-CN225 (2m) or CS1W-CN625 (6m) by OMRON Corporation + Your own cable	The cable length must be
GP (COM1)	В	CS1W-CN226 (2m) or CS1W-CN626 (6m) by OMRON Corporation + Your own cable	15m or less.

A) When using CS1W-CN225 or CS1W-CN625 by OMRON Corporation or your own cable



B) When using CS1W-CN226 or CS1W-CN626 by OMRON Corporation or your own cable



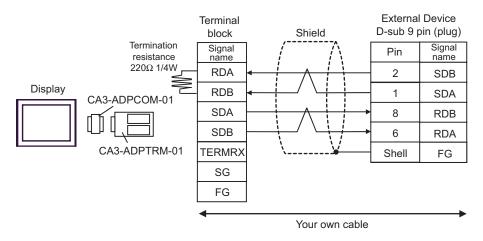
Cable Diagram 3

Display (Connection Port)		Cable	Notes
GP ^{*1} (COM1) AGP-3302 (COM2)	A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Your own cable	
	В	Your own cable	
GP ^{*1} (COM2)	С	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-0 + Your own cable	The cable length must be 500m or less.
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable	

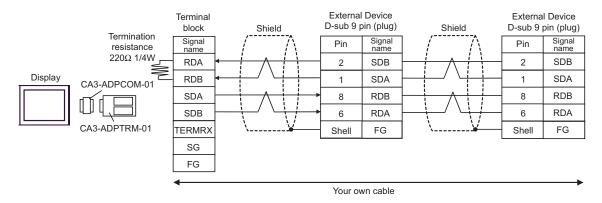
^{*1} Except AGP-3302 Series

IMPORTANT

- Please turn ON the termination resistance switch on the PLC.
- Set the 2wire/4wire toggle switch to 4wire.
- Note that pole A and pole B are reversely named for the Display and the External Device.
- A) When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Pro-face and your own cable
- 1:1 connection

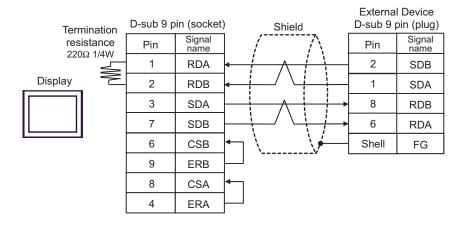


• 1:n connection

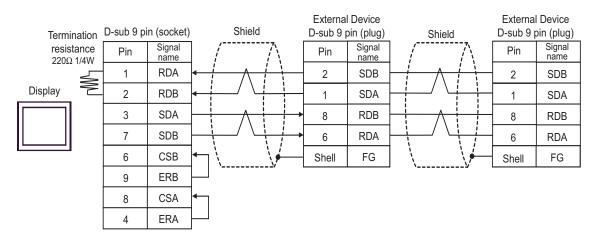


B) When using your own cable

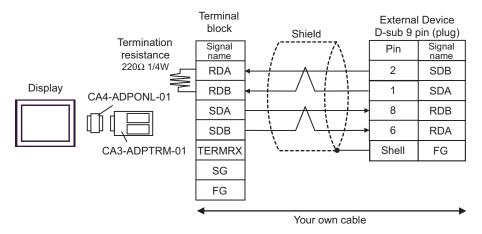
1:1 connection



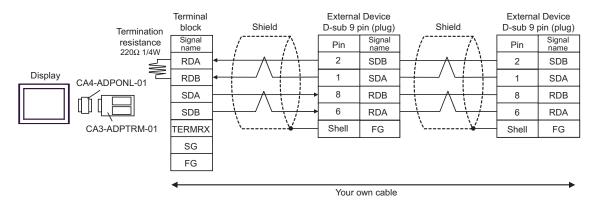
• 1:n connection



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

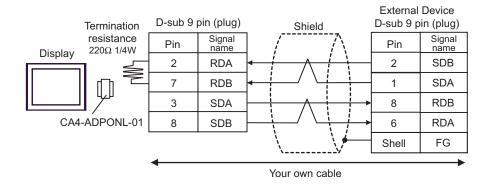


• 1:n connection

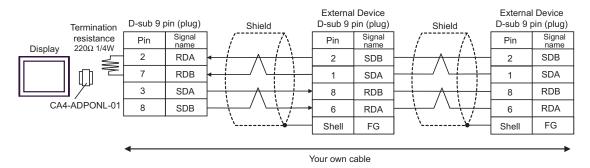


D) When using the online adapter (CA4-ADPONL-01) by Pro-face and your own cable

• 1:1 connection



• 1:n connection



6 Supported Device

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

This address can be specified as system data area.

Device	Bit Address	Word Address	32bits	Notes
Channel I/O	0000.00-6143.15	0000-6143		
Internal Auxiliary Relay	W000.00-W511.15	W000-W511		
Special Auxiliary Relay	A000.00-A959.15	A000-A959		*1
Latch Relay	H000.00-H511.15	H000-H511		
Timer (Time Up Flag)	T0000-T4095	-	[L/H]	*2
Counter (Count Up Flag)	C0000-C4095	-		*2
Timer (Current Value)	-	T0000-T4095		
Counter (Current Value)	-	C0000-C4095		
Data Memory	D00000.00-D32767.15	D00000-D32767		*3
Extension Data Memory (E0-EC)	E000000.00- EC32767.15	E000000-EC32767		*4*5
Extension Data Memory (Current Bank)	-	EM00000-EM32767		B: 15) *5*6
Task Flag (Bit)	TKB00-TKB31	-		*2
Task Flag (Status)	TK00.00-TK31.07	TK00-TK30		÷ 2) *2
Index Register	-	IR00-IR15		<u>₿ ; </u> 31 *7
Data Register	-	DR00-DR15		<u>B;</u> 15) ∗7

^{*1} Write disable in A000 to A447.

^{*2} Write disable

^{*3} When using the communication unit (CS1W-SCU21), do not use the address of D30000 to D31599. When using the communication board (CS1W-SCU21/41), do not use the address of D32000 to D32767. These addresses may be used as the system setting area on the External Device.

^{*4} Max 13 banks (E0 to EC) can be used. 1 bank can contain 32768 words. Available bank number is different depending on the CPU unit.

^{*5} CJM1 Series does not include the extension data memory (E0 to EC, current bank EM).

^{*6} CJ Series does not include the extension data memory (current bank EM).

^{*7} You cannot write during RUN.

NOTE

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

7 Device Code and Address Code

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

Device	Device Name	Device Code (HEX)	Address Code
Channel I/O	-	0080	Word Address
Internal Auxiliary Relay	W	0082	Word Address
Special Auxiliary Relay	A	0085	Word Address
Latch Relay	Н	0084	Word Address
Timer (Current Value)	Т	0060	Word Address
Counter (Current Value)	С	0061	Word Address
Data Memory	D	0000	Word Address
	E0	0010	Word Address
	E1	0011	Word Address
	E2	0012	Word Address
	E3	0013	Word Address
	E4	0014	Word Address
	E5	0015	Word Address
Extension Data Memory (E0-EC)	E6	0016	Word Address
,	E7	0017	Word Address
	E8	0018	Word Address
	E9	0019	Word Address
	EA	001A	Word Address
	EB	001B	Word Address
	EC	001C	Word Address
Extension Data Memory (Current Bank)		0001	Word Address
Task Flag (Status)	TK	0002	Word Address
Index Register	IR	0003	Word Address
Data Register	DR	0004	Word Address

8 Error Messages

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

Item	Description		
No.	Error No.		
Device Name	Name of External Device where error occurs. 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.		
	Displays IP address or device address of External Device where error occurs, or error codes received from External Device.		
Error Occurrence Area	 NOTE Received error codes are displayed such as "Decimal [Hex]". IP address is displayed such as "IP address (Decimal): MAC address (Hex)". 		

Display Examples of Error Messages

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

NOTE

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