

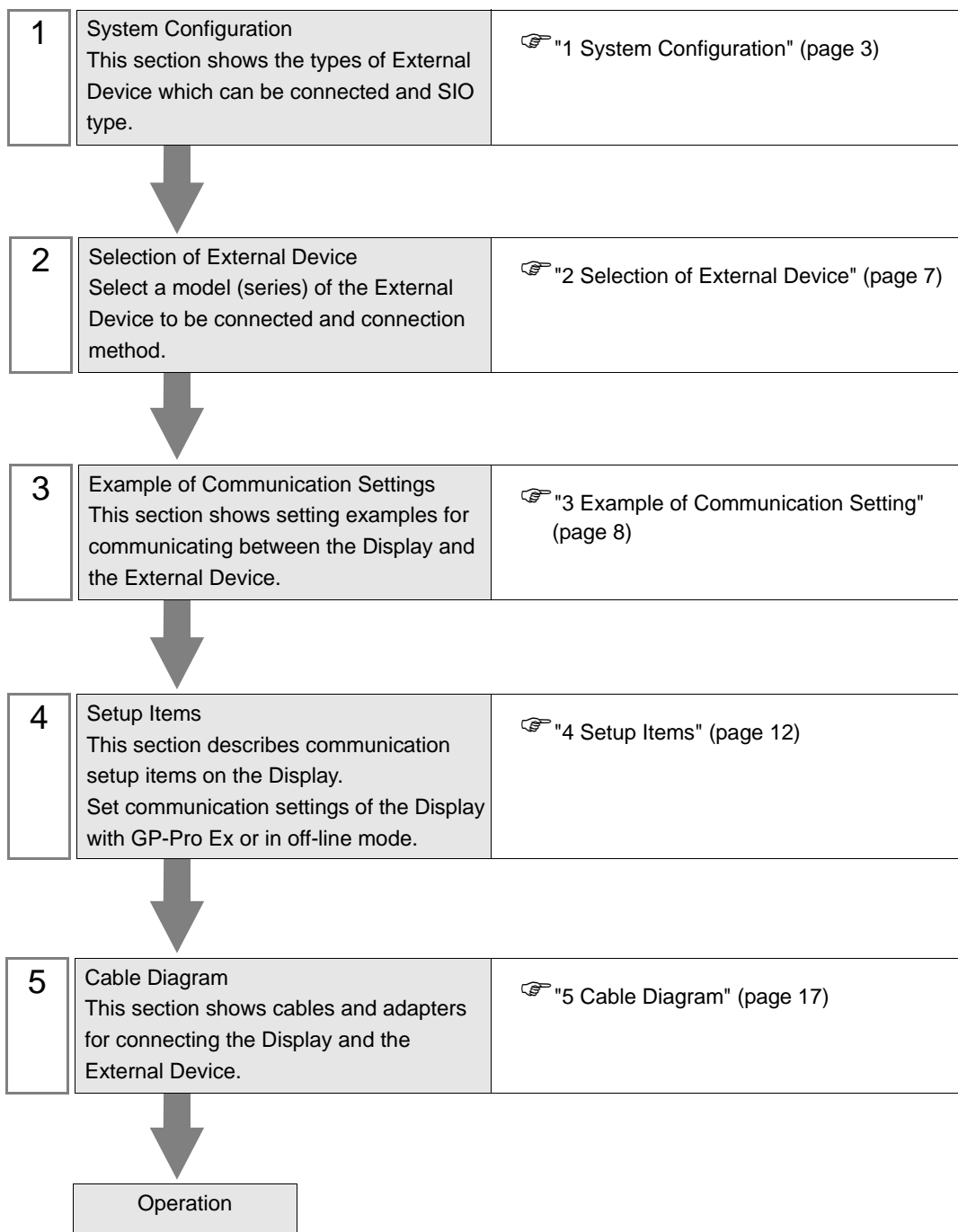
A Series CPU Direct Driver

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Introduction

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

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



1 System Configuration

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

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
MELSEC AnA Series	A2A	CPU Direct	RS232C	Setting Example 1 (page 8)	Cable Diagram 1 (page 17)
	A3A				
	A2U				
	A2US				
	A2U-S1		RS422 (4wire)	Setting Example 2 (page 10)	Cable Diagram 2 (page 18)
	A2US-S1				
	A2USH-S1				
	A3U				
	A4U				
	A2A	2-port adapter II by Pro-face (Model: GP070-MD11)	RS422 (4wire)	Setting Example 3 (page 11)	Cable Diagram 3 (page 19)
	A3A				
	A2US				
	A2U-S1				
	A2USH-S1				
	A4U				

continued to next page

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
MELSEC AnN Series	A2CCPU24	CPU Direct	RS232C	Setting Example 1 (page 8)	Cable Diagram 1 (page 17)
	A2CJ-S3				
	A3H				
	A0J2H				
	A1N				
	A2N				
	A3N		RS422 (4wire)	Setting Example 2 (page 10)	Cable Diagram 2 (page 18)
	A1S				
	A1SH				
	A2SH				
	A1SJ				
	A2CJ-S3	2-port adapter II by Pro-face (Model: GP070-MD11)	RS422 (4wire)	Setting Example 3 (page 11)	Cable Diagram 3 (page 19)
	A3H				
	A0J2H				
	A2N				
	A3N				
	A2SH				
	A1SH				
	A1S				
	A1SJ				
MELSEC Q Series A Mode	Q02CPU-A	CPU Direct	RS232C	Setting Example 1 (page 8)	Cable Diagram 4 (page 21)
	Q02HCPU-A				
	Q06HCPU-A				

■ COM Port of IPC

When connecting IPC with External Device, the COM port which can be used changes with series and SIO type. Please refer to the manual of IPC for details.

Usable port

Series	Usable port		
	RS-232C	RS-422/485(4 wire)	RS-422/485(2 wire)
PS-2000B	COM1 ^{*1} , COM2, COM3 ^{*1} , COM4	-	-
PS-3450A, PS-3451A	COM1, COM2 ^{*1*2}	COM2 ^{*1*2}	COM2 ^{*1*2}
PS-3650A, PS-3651A	COM1 ^{*1}	-	-
PS-3700A (Pentium®4-M) PS-3710A	COM1 ^{*1} , COM2 ^{*1} , COM3 ^{*2} , COM4	COM3 ^{*2}	COM3 ^{*2}
PS-3711A	COM1 ^{*1} , COM2 ^{*2}	COM2 ^{*2}	COM2 ^{*2}
PL-3000B	COM1 ^{*1*2} , COM2 ^{*1} , COM3, COM4	COM1 ^{*1*2}	COM1 ^{*1*2}

*1 The RI/5V can be switched. Please switch with the change switch of IPC.

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

Dip switch setting: RS-232C

Dip switch	Setting	Description
1	OFF ^{*1}	Reserve (always OFF)
2	OFF	SIO type: RS-232C
3	OFF	
4	OFF	Output mode of SD (TXD) data: Always output
5	OFF	Terminal resistance (220Ω) insertion to SD (TXD): None
6	OFF	Terminal resistance (220Ω) insertion to RD (RXD): None
7	OFF	Short-circuit of SDA (TXA) and RDA (RXA): Does not Exist
8	OFF	Short-circuit of SDB (TXB) and RDB (RXB): Does not Exist
9	OFF	RS (RTS) Auto control mode: Disable
10	OFF	

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

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

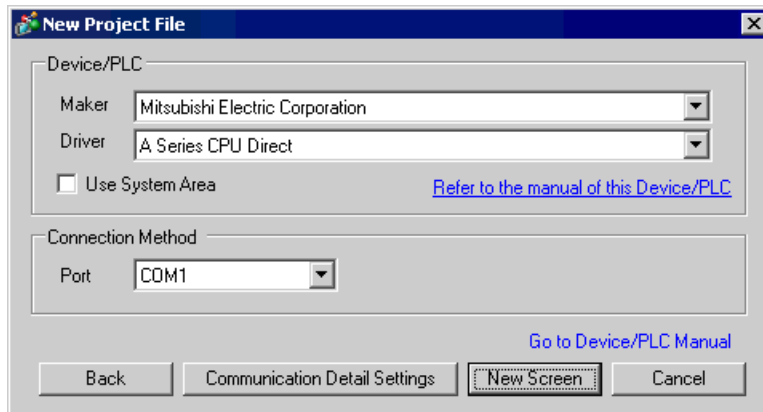
Dip switch	Setting	Description
1	OFF	Reserve (always OFF)
2	ON	SIO type: RS-422/485
3	ON	
4	OFF	Output mode of SD (TXD) data: Always output
5	OFF	Terminal resistance (220Ω) insertion to SD (TXD): None
6	OFF	Terminal resistance (220Ω) insertion to RD (RXD): None
7	OFF	Short-circuit of SDA (TXA) and RDA (RXA): Does not Exist
8	OFF	Short-circuit of SDB (TXB) and RDB (RXB): Does not Exist
9	OFF	RS (RTS) Auto control mode: Disable
10	OFF	

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

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

2 Selection of External Device

Select External Device to connect to the display.



Setup Items	Setup Description
Maker	Select the maker of the External Device to be connected. Select "Mitsubishi Electric Corporation".
Driver	Select a model (series) of the External Device to be connected and connection method. Select "A Series CPU Direct". Check the External Device which can be connected in "A Series CPU Direct" 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 " 5.14.6 Setting Guide of [System Setting Window]■[Main Unit Settings] Settings Guide◆System Area Setting" Cf. Maintenance/Troubleshooting "2.14.1 Settings common to all Display models ◆System Area Settings"
Port	Select the Display port to be connected to the External Device.

3 Example of Communication Setting

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

3.1 Setting Example 1

■ Settings 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

Maker: Mitsubishi Electric Corporation Series: A Series CPU Direct Port: COM1

Text Data Mode: 2

Communication Settings

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: 0 (ms)

Adapter: Direct

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 or CPU I/F Cable for Mitsubishi PLC A Series (Digital's:GP4304P10-0), please select it to VCC.

Default

Device-Specific Settings

Allowable No. of Device/PLCs: 1 Unit(s)

No.	Device Name	Settings
1	PLC1	Series=AnA Series

◆ Device Setting

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

Individual Device Settings

PLC1

Series: ☒ AnA Series ☐ AnN Series

The range of the address is different according to the series.
Please reconfirm all of address settings that you are using
if you have changed the series.

Default

OK (O) Cancel

NOTE

- Set Series according to your External Device.
 - Set [AnA Series] when you use Q Series A Mode.
-

■ Settings of External Device

There is no setting on the External Device.

3.2 Setting Example 2

■ Settings 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].

NOTE • Set Series according to your External Device.

■ Settings of External Device

There is no setting on the External Device.


3.3 Setting Example 3

■ Settings 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].

NOTE • Set Series according to your External Device.

■ Settings of External Device

There is no setting on the External Device.

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 8)

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

Maker Series Port [Change Device/PLC](#)

Text Data Mode [Change](#)

Communication Settings

SIO Type ☒ RS232C ☐ RS422/485(2wire) ☐ RS422/485(4wire)

Speed

Data Length ☐ 7 ☒ 8

Parity ☐ NONE ☐ EVEN ☒ ODD

Stop Bit ☒ 1 ☐ 2

Flow Control ☒ NONE ☐ ER(DTR/CTS) ☐ XON/XOFF

Timeout (sec)

Retry

Wait To Send (ms)

Adapter

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 or CPU I/F Cable for Mitsubishi PLC A Series (Digital's GP430-IP10-0), please select it to VCC.

Device-Specific Settings

Allowable No. of Device/PLCs: 1 Unit(s)


No.	Device Name	Settings
1	PLC1	Series=AnA Series

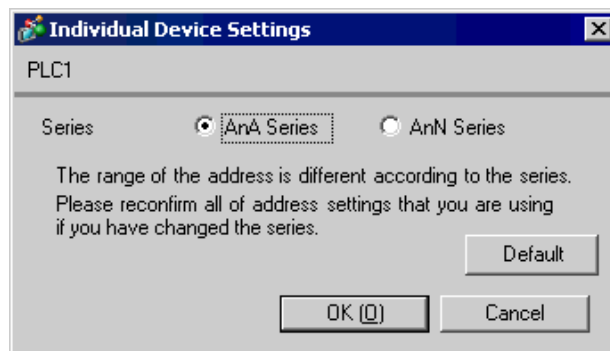
Setup Items	Setup Description
SIO Type	Select the SIO type to communicate with the External Device.
Speed	Select speed between the External Device and the Display.
Data Length	Select data length.
Parity	Select how to check parity.
Stop Bit	Select stop bit length.
Flow Control	Select the communication 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.

continued to next page

Setup Items	Setup Description
Retry	In case of no response from the External Device, use an integer from 0 to 255 to enter how many times the Display retransmits the command.
Wait To Send	Use an integer from 0 to 255 to enter standby time (ms) for the Display from receiving packets to transmitting next commands.
Adapter	When using adapter, select either "Direct" or "2 Port". When using 2-port adapter II, select "2 Port".
RI/VCC	You can switch RI/VCC of the 9th pin when you select RS232C for SIO type. It is necessary to change RI/5V by changeover switch of IPC when connect with IPC. Please refer to the manual of the IPC for more detail.

■ Device Setting

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



Setup Items	Setup Description
Series	Select either "AnA Series" or "AnN Series" for the driver series name. Set "AnA Series" when you use Q Series A Mode.

4.2 Setup Items in Off-Line Mode

NOTE

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

Cf. Maintenance/Troubleshooting "2.2 Offline Mode"

■ Communication Settings

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

(Page 1/2)

Comm.	Device			
A Series CPU Direct		[COM1]	Page 1/2	
SIO Type	RS232C			
Speed	9600			
Data Length	8			
Parity	ODD			
Stop Bit	1			
Flow Control	NONE			
Timeout(s)	3			
Retry	2			
Wait To Send(ms)	0			
Adapter	2 Port			
➔				
Exit		Back		2005/09/02 12:25:52

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

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.
Adapter	When using adapter, select either "Direct" or "2 Port". When using 2-port adapter II, select "2 Port".

(Page 2/2)

Comm.	Device			

A Series CPU Direct [COM1] Page 2/2

RI / VCC ☒ RI ☐ VCC

In the case of RS232C, if you use the Digital's RS232C Isolation Unit or CPU I/F Cable for Mitsubishi PLC A Series (Digital's:GP430-IP10-0), please select it to VCC.

←

	Exit		Back	2005/09/02 12:25:54
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Setup Items	Setup Description
RI/VCC	You can switch RI/VCC of the 9th pin when you select RS232C for SIO type. It is necessary to change RI/5V by changeover switch of IPC when connect with IPC. Please refer to the manual of the IPC for more detail.

■ Device Setting

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

Comm.	Device			
A Series CPU Direct [COM1] Page 1/1				
Device/PLC Name <input type="text" value="PLC1"/>				
Series AnA Series				
Exit		Back		2005/09/02 12:25:56

Setup Items	Setup Description
Device/PLC Name	Select the External Device for device setting. Device name is a title of External Device set with GP-Pro EX.(Initial value [PLC1])
Series	The driver series name "AnA Series" or "AnN Series" is displayed. You cannot change Series in [Device Setting] in off-line mode.

5 Cable Diagram

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

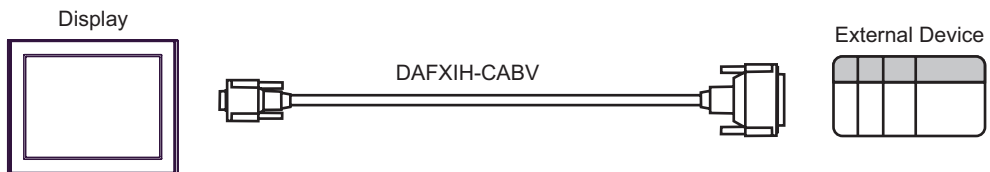
- The FG pin of the main body of the External Device must be D-class grounded. Please refer to the manual of the External Device for more details.
- SG and FG are connected inside the Display. When connecting SG to the External Device, design the system not to form short-circuit loop.
- Connect the isolation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

Cable Diagram 1

Display (Connection Port)	Cable	Notes
GP (COM1) ST (COM1) IPC*1 PC/AT	Interface internal cable for Mitsubishi FA equipments by Diatrend Corp. DAFXIH-CABV (3m)	Available to order the length up to 15 m

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

☞ ■ COM Port of IPC (page 5)

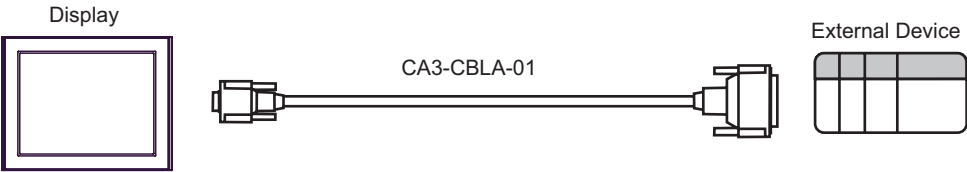


Cable Diagram 2

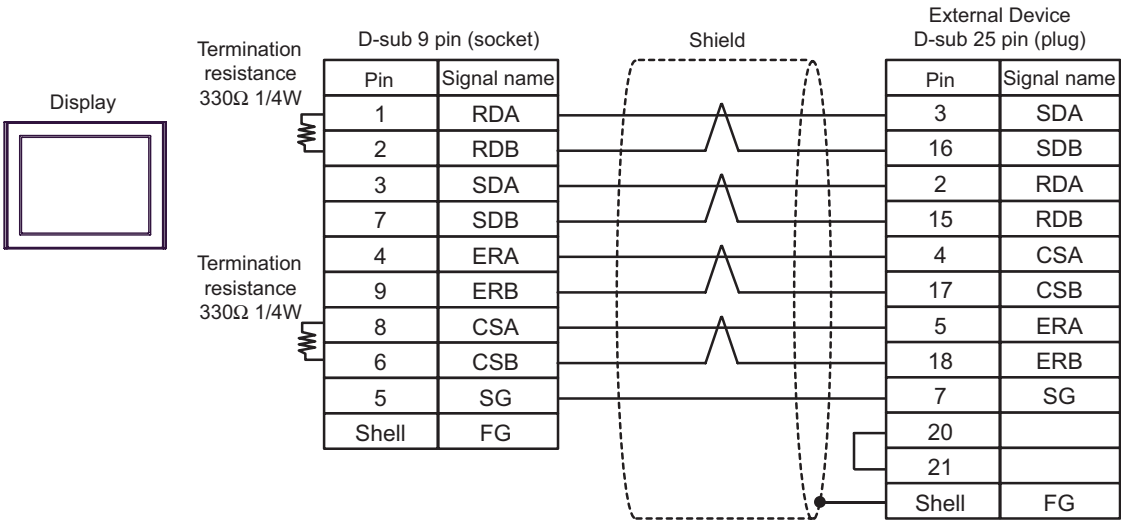
Display (Connection Port)	Cable		Notes
GP ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) IPC ^{*3}	A	Mitsubishi A connection cable by Pro-face CA3-CBLA-01 (5m)	
	B	Your own cable	The cable length must be 500m or less.

- *1 All GP models except AGP-3302B
- *2 All ST models except AST-3211A
- *3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
☞ ■ COM Port of IPC (page 5)

A) When using Mitsubishi A connection cable (CA3-CBLA-01) by Pro-face.



B) When using your own cable



Cable Diagram 3

Display (Connection Port)	Cable		Notes
GP* ¹ (COM1) AGP-3302B (COM2) ST* ² (COM2) IPC* ³	A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + 2-port adapter cable for AGP by Pro-face CA3-MDCB11 (5m) + 2-port adapter II by Pro-face GP070-MD11	
	B	Your own cable + 2-port adapter II by Pro-face GP070-MD11	The cable length must be 600m or less.
GP* ⁴ (COM2)	C	Online adapter by Pro-face CA4-ADPONL-01 + 2-port adapter cable for AGP by Pro-face CA3-MDCB11 (5m) + 2-port adapter II by Pro-face GP070-MD11	
	D	Online adapter by Pro-face CA4-ADPONL-01 + Your own cable + 2-port adapter II by Pro-face GP070-MD11	The cable length must be 600m or less.

*1 All GP models except AGP-3302B

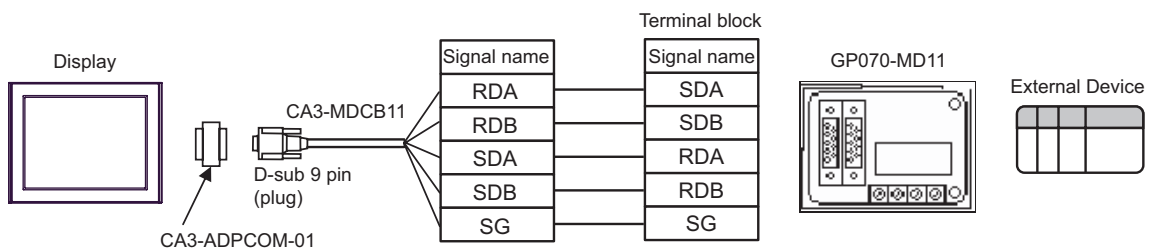
*2 All ST models except AST-3211A

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

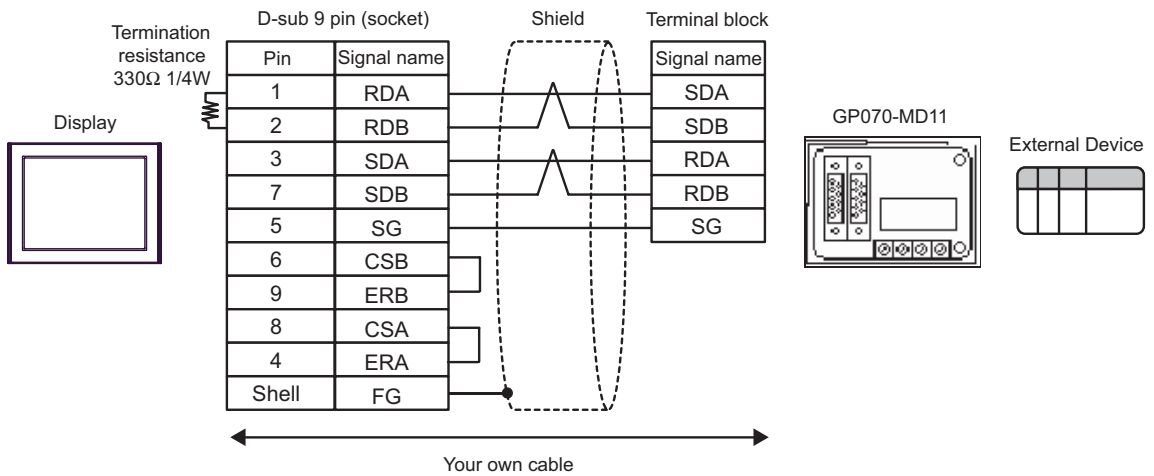
☞ ■ COM Port of IPC (page 5)

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

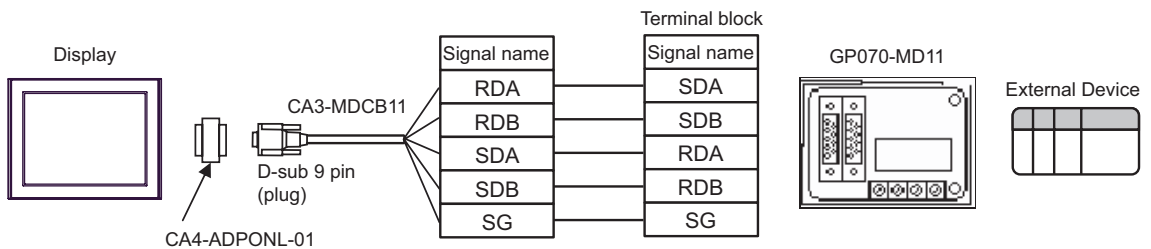
A) When using COM port conversion adapter (CA3-ADPCOM-01), 2-port adapter cable for AGP (CA3-MDCB11) by Pro-face and 2-port adapter II (GP070-MD11) by Pro-face.



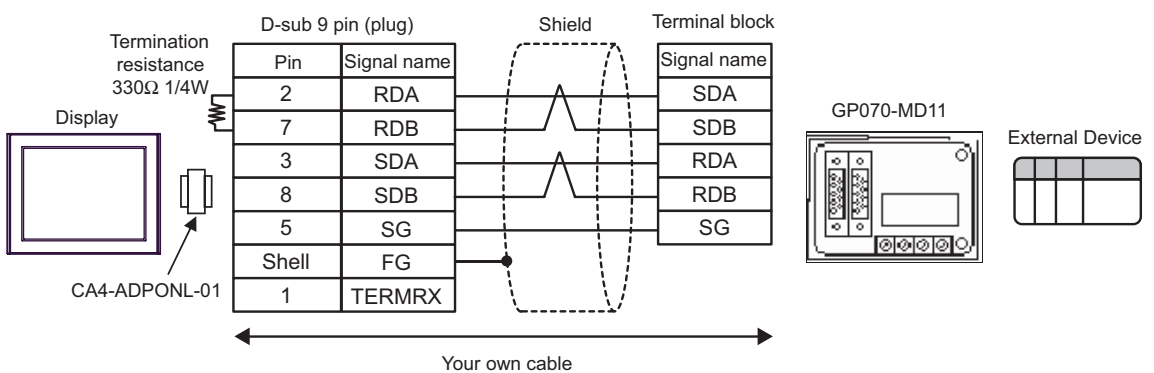
B) When using your own cable and 2-port adapter II (GP070-MD11) by Pro-face.



C) When using online adapter (CA4-ADPONL-01), 2-port adapter cable for AGP (CA3-MDCB11) by Pro-face and 2-port adapter II (GP070-MD11) by Pro-face.



D) When using online adapter (CA4-ADPONL-01) by Pro-face, your own cable and 2-port adapter II (GP070-MD11) by Pro-face.



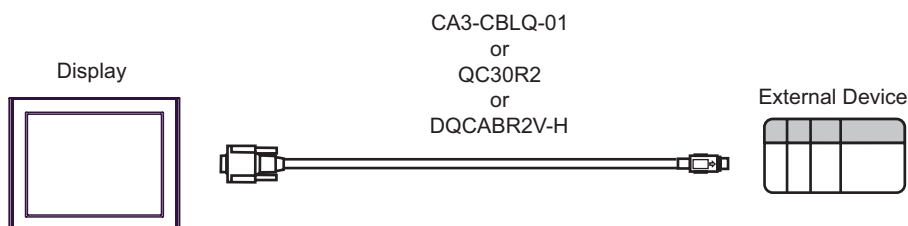
Cable Diagram 4

Display (Connection Port)	Cable	Notes
GP (COM1) ST (COM1) IPC ^{*1} PC/AT	Mitsubishi Q connection cable by Pro-face CA3-CBLQ-01 (5m) or QC30R2 (3m) by Mitsubishi Electric Corp. or DQCABR2V-H (3m) ^{*2} by Diatrend Corp.	

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

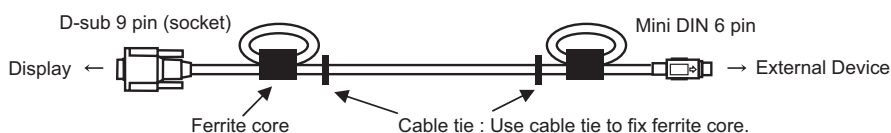
☞ ■ COM Port of IPC (page 5)

*2 Specify the cable length with (*m) Please contact Diatrend Corp. for available specified cable length.



IMPORTANT

- We recommend that ferrite core should be attached to your cable for improving noise tolerance.
- Attach ferrite core to the closest position to the connector on both ends of the cable. Also, wind the cable around ferrite core (1 turn) to expect more noise tolerance as shown below.

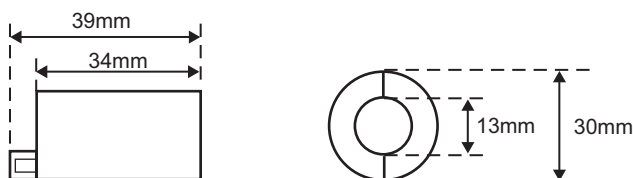


- The cable length must be 15 meters or less.

<Ferrite core recommended>

Maker: Seiwa Electric MFG. Co., Ltd.

Model: E04SR301334
















- You can use the ferrite core by other companies if it has same size as shown above.

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.

6.1 MELSEC AnA Series, Q Series A Mode

 This address can be specified as system data area.


Device	Bit Address	Word Address	32 bits	Notes
Input	X0000 - X1FFF	X0000 - X1FF0		
Output	Y0000 - Y1FFF	Y0000 - Y1FF0		
Internal Relay	M0000 - M8191	M0000 - M8176		
Latch Relay	L0000 - L8191	L0000 - L8176		
Special Relay	M9000 - M9255	M9000 - M9240		
Annunciator	F0000 - F2047	F0000 - F2032		
Link Relay	B0000 - B1FFF	-----		
Timer (Contact)	TS0000 - TS2047	-----		
Timer (Coil)	TC0000 - TC2047	-----		
Counter (Contact)	CS0000 - CS1023	-----		
Counter (Coil)	CC0000 - CC1023	-----		
Timer (Current Value)	-----	TN0000 - TN2047		
Counter (Current Value)	-----	CN0000 - CN1023		
Data Register	-----	 D0000 - D8191		
Special Register	-----	D9000 - D9255		
Link Register	-----	W0000 - W1FFF		
File Register	-----	R0000 - R8191		 *1

*1 When you use the file register in AnA, AnU, AnN and A3H, use the user memory area in the memory cassettes below.


・A3NMCA-0 ・A3NMCA-2 ・A3NMCA-4 ・A3NMCA-8 ・A3NMCA-16
 ・A3NMCA-24 ・A3NMCA-40 ・A3NMCA-56 ・A4UMCA-8E








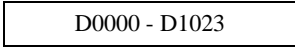



When you set the file register without using the memory cassette, error occurs during communication. Note that you may not use the file register when you set ROM to the ladder program.

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"
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6.2 MELSEC AnN Series

 This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Notes
Input	X0000 - X07FF	X0000 - X07F0		 *1
Output	Y0000 - Y07FF	Y0000 - Y07F0		 *1
Internal Relay	M0000 - M2047	M0000 - M2032		 *2
Latch Relay	L0000 - L2047	L0000 - L2032		 *2
Special Relay	M9000 - M9255	M9000 - M9240		 *2
Annunciator	F000 - F255	F000 - F240		 *2
Link Relay	B0000 - B03FF	-----		
Timer (Contact)	TS000 - TS255	-----		
Timer (Coil)	TC000 - TC255	-----		
Counter (Contact)	CS000 - CS255	-----		
Counter (Coil)	CC000 - CC255	-----		
Timer (Current Value)	-----	TN000 - TN255		
Counter (Current Value)	-----	CN000 - CN255		
Data Register	-----	 D0000 - D1023		 *3
Link Register	-----	W0000 - W03FF		 *3
File Register	-----	R0000 - R8191		 *3

*1 In case of using A2C, you cannot set the output relay Y01F0 - Y01FF (word: Y01F0) because they are used on the External Device.


*2 You cannot combine AnN and AJ71C24-S3 for use.

*3 When you use the file register in AnA, AnU, AnN and A3H, use the user memory area in the memory cassettes below.

•A3NMCA-0 •A3NMCA-2 •A3NMCA-4 •A3NMCA-8 •A3NMCA-16
 •A3NMCA-24 •A3NMCA-40 •A3NMCA-56 •A4UMCA-8E

When you set the file register without using the memory cassette, error occurs during communication. Note that you may not use the file register when you set ROM to the ladder program.

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 Type & Address" for the address type in data displays.

7.1 MELSEC AnA Series, Q Series A Mode

Device	Device Name	Device Code (HEX)	Address Code
Input	X	0080	Value of word address divided by 16
Output	Y	0081	Value of word address divided by 16
Internal Relay	M	0082	Value of word address divided by 16
Latch Relay	L	0084	Value of word address divided by 16
Special Relay	M	0083	Value of (word address - 9000) divided by 16
Annunciator	F	0085	Value of word address divided by 16
Timer (Current Value)	TN	0060	Word Address
Counter (Current Value)	CN	0061	Word Address
Data Register	D	0000	Word Address
Special Register	D	0001	Value of word address from which 9000 is deducted
Link Register	W	0002	Word Address
File Register	R	000F	Word Address

7.2 MELSEC AnN Series

Device	Device Name	Device Code (HEX)	Address Code
Input	X	0080	Value of word address divided by 16
Output	Y	0081	Value of word address divided by 16
Internal Relay	M	0082	Value of word address divided by 16
Latch Relay	L	0084	Value of word address divided by 16
Special Relay	M	0083	Value of (word address - 9000) divided by 16
Annunciator	F	0085	Value of word address divided by 16
Timer (Current Value)	TN	0060	Word Address
Counter (Current Value)	CN	0061	Word Address
Data Register	D	0000	Word Address
Link Register	W	0002	Word Address
File Register	R	000F	Word Address

8 Error Messages

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

Item	Description
No.	Error No.
Device Name	Name of the External Device where error occurs. Device name is a title of the External Device set with GP-Pro EX. (Initial value [PLC1])
Error Message	Displays messages related to the error which occurs.
Error Occurrence Area	<p>Displays IP address or device address of the External Device where error occurs, or error codes received from the External Device.</p> <div style="border: 1px solid black; padding: 2px; margin: 5px 0;">NOTE</div> <ul style="list-style-type: none"> • IP address is displayed such as "IP address(Decimal); MAC address(Hex)". • Device address is displayed such as "Address: Device address". • Received error codes are displayed such as "Decimal[Hex]".

Display Examples of Error Messages

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

NOTE

- Please refer to the manual of the External Device for more detail of received error codes.
- Please refer to "When an error message is displayed (Error code list)" of "Maintenance/Troubleshooting" for a common error message to the driver.

