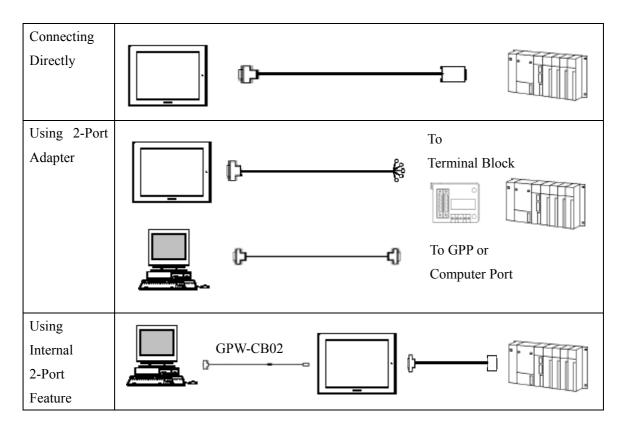


<u>Mitsubishi <3> Mitsubishi Electric Corporation</u> <u>A Series (AnA/AnU/AnUS/AnUSH) CPU Direct Connection</u>

System Structure



GP

Machine	Model	Remark
GP	GP70 Series GP77/77R Series GP2000 Series	Excepting for handy types. The internal 2-Port feature is supported by only GP77/77R Series and GP2000 Series.
GLC	GLC2000 Series	2-Port Adapter and the internal2-Port feature are not supported.



PLC

[Connecting Directly]			
СРИ	Communication	Connection Cable	
	Method	4O2	GP
A2A, A3A, A3U, A4U,	RS-422	Connection Method	ŀ
A2U-S1, A2US, A2US-S1, A2USH-S1	RS-232C	[1]	

[Using 2-Port Adapter]

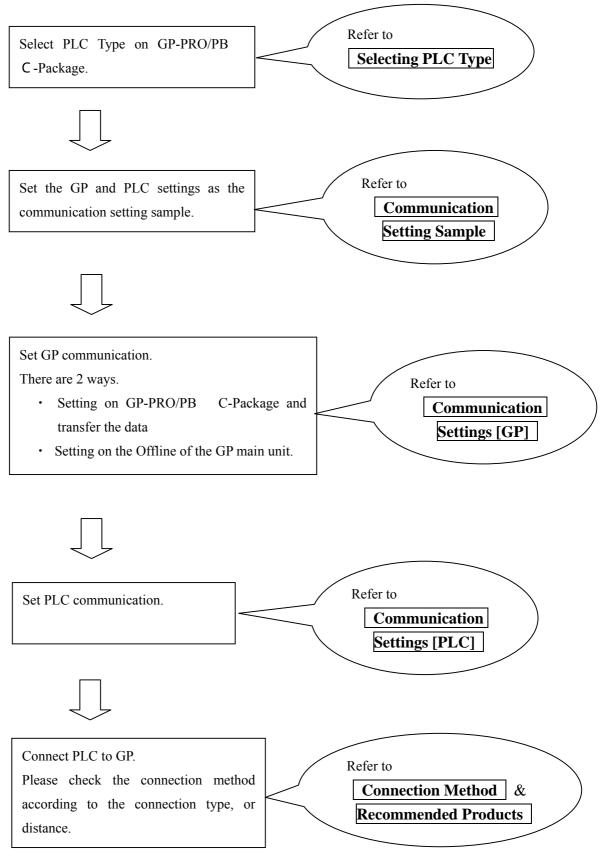
CPU	Adapter	Communication Method		GP
A2A, A3A, A4U, A2U-S1, A2US, A2USH-S1	GP070-MD11	RS-422	Connection Method [2]	

[Using Internal 2-Port Feature]

CPU	Communication Method		GP
A2A, A3A, A2U-S1, A2US, A2USH-S1	RS-232C	Connection Method	GP77/77R Series
A205, A205 1 -51	RS-422	[1]	GP2000 Series



Procedure to Connect PLC





Selecting PLC Type

Start up GP-PRO /PBIII.

Communication Setting Sample

Select the following PLC Type when creating the project file.

Sample.prw : Unlitled - Project Manager
GP-PRO/PBIIL C-Package03
GP Setup Project Logic Program Editor Transfer
New Serven Image: Francisco Open Maximur Maximur
MITSUBISHI MELSEC AnA (CPU)
Change the Device/PLC type for this project

Communication Setting Sample			
GP Setup		PLC Settings	
Baud Rate	9600 bps (fixed)		
Data Length	8 bit (fixed)		
Stop Bit	1 bit (fixed)		
Parity Bit	Odd (fixed)		
Data Flow Control	ER Control		
Communication Format *1 (RS-232C)	RS-232C		
Communication Format (RS-422)	4-wire type		
Unit No.	0 (fixed)		

*1 For Communication Format, select RS-232C when using GP430-IP10-O, or select 4-wire type cable when using another cable.



Communication Settings [GP]

1 [GP-PRO/PB C-Package Setting]

Select [GP Setup] on Project Manager.

1) Communication Settings	1) Communication Settings
GP Settings - sample pres GP Settings - sample pres GP Settings - lample pres GP Settings - lample - l	Transmission Speed : 9600bps Data Length : 8 Bits Stop Bit: 1 Bit Parity Bit: Odd Busy Ready Control : DTR / ER RS-232C/ RS-422 : Using GP430-IP10-O : RS-232C Using Other Cable: 4 Line
OF. Carcel Defaults Help	* Select one in
2) Mode Settings	2) Mode Settings
GP Settings - execute over Initial Scenero Settings Initial Scenero Settings Initial Scenero Settings Initial Seting Initial Settings Initial Settings Initial Settin	System Start Address: Arbitrary Address
Read Acea Size	Select [Option].
3) 2-Port Mode/Direct Mode Settings	3) 2-Port Mode/Direct Mode Settings
Option 2 Port Mode / Direct Mode © 2 Port Adapter © 2 Port Adapter + GPH © Internal 2Port © Direct	Using GP430-IP10-O or User-Created Cable: Direct Using 2-Port Adapter : 2-Port Adapter Using Internal 2-Port Feature: Internal 2-Port



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Select [Transfer]>	[Setup]>	[Transfer Settings].
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Send Information	Communications Port
GP System Screen	Comm Port COM1 Retry Count 5
Data T <u>r</u> ans Func CSV Data(CF card)	Baud Rate 115.2K 💌 (bps)
	© <u>E</u> themet
Transfer Method © Send All Screens	IP Address 0. 0. 0. 0 Port 8000
Automatically Send Changed Screens Send User Selected Screens	C Ethegnet: Auto Acquistion
	C Memory Loader
C Eorce System Setup Sim C Do NOT Perform Setup Setup CFG file : C English C Japanese C Selection C:\Program Files\pro-face\ProPBWin\	
<u> </u>	Cancel Help
<u>Fer Settings</u> GP System Settir	ngs: Checked

Transfer to GP after settings completed.



2 [GP Settings]

- Displaying Setting Screen -

Touch the left top of the screen within 10 second after powering on.

Or touch the right top and the right bottom of the screen at the same time. Keep 2 points touched and touch the left bottom. The menu bar will display on the bottom of the screen. Then touch [Offline].

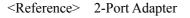
1) Checking GP Type	1) Checking GP Type
MAIN MENU I INITIALIZE SCREEN DATA TRANSFER SELF-DIADNOSIS 4 RUN 2002/000 V4-00 MELSEC-ArA_CPU	If you have selected Mitsubishi MELSEC-AnA (CPU), the following will be shown. "MELSEC-AnA_CPU"
2) Communication Settings	2) Communication Settings
MAIN MENU INITIALIZE SET UP SIO 2 SET UP PRINTER 3 SET UP TOUCH PANEL 4 COMMUNICATION SETUP 5 SOUND SETTINGS	[MAIN MENU] ↓ [INITIALIZE] ↓ [SET UP I/O] ↓ [SET UP SIO]
SET UP SIO SET CANCEL COMMUNICATION RATE 2400 4800 9800 19200 38400 57600 115200 DATA LENGTH 1 2 8 7 8 7 8 7 1 2 LINE PARITY OF OCO EVEN 2 LINE 1 2 2 LINE 1 2 3 4 5 6 7 8 9 1 4 85	Communication Rate: 9600bps Data Length: 8 Bits Stop Bit: 1 Bit Parity: Odd Control: ER Cntrl Communication Format Using GP430-IP10-O: RS-232C Using other cable: 4 Line * Select one in .

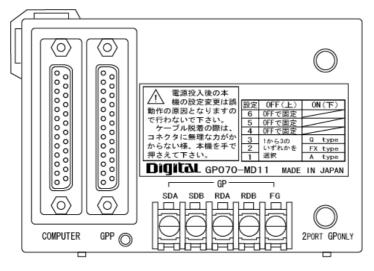


3) Setting up Operation Surroundings	3) Setting up Operation Surroundings
MAIN MENU INITIALIZE SYSTEM ENVIRONMENT SETUP SET UP LAO PLC SETUP 4 INITIALIZE MEMORY 5 SET UP TIME 6 SET UP SCREEN	$[MAIN MENU] \downarrow [INITIALIZE] \downarrow [PLC SETUP] \downarrow [PLC SETUP]$
SET UP OPERATION SURROUNDINGS SET CANCEL STARTING ADDRESS OF SYSTEM DATA AREA [000000] UNIT NO. [0] SYSTEM AREA READING AREA SIZE (0-256) [0] RESET GP ON DATA HRITE ERROR IN OFF USE 2PORT MODE/CPU DIRECT MODE ADAPTER ADAPTER-GPH CPU INSID 1 2 3 4 5 8 7 8 8 0 ↑ ↓ BS	Starting Address of System Data Area: Arbitrary Address Unit No.: 0 Use 2-Port Mode/CPU Direct Mode GP430-IP11-O Cable/User-Created Cable: CPU 2-Port Adapter : Adapter Internal 2-Port Adapter: Inside * Select one in



- 1) PLC Type Settings 1) PLC Type Settings → ON SW 6: OFF SW 5: OFF SW 4: OFF 586 585 584 583 582 581 SW 3: OFF SW 2: OFF SW 1: ON \rightarrow To PLC 2) Device/PLC Settings 2) Device/PLC Settings SW1 SW 1: Connecting Peripheral Device <u>SW2</u> RS-422 Cable: Right (GPP) RS-232C Cable : Left (COMPUTER) SW 2: Setting to connect any peripheral Π То devices PLC GP Only (No Peripheral Device): Right (GP ONLY) GP and Peripheral Device: Left (2-Port)
- 3 [2-Port Adapter Settings]







Communication Settings [PLC]

There are no items to set on the PLC.

Connection Method

[Connecting Directly / Connecting with Internal 2-Port Feature]

Туре	Connection Method	Distance
Using GP430-IP10-O		5m
Creating Cable	To GP (25p Male) 1.FG 7.SG 9.TRMX 10.RDA 11.SDA 15.SDB 15.SDB 16.RDB 15.SDB 16.RDB 15.SDB 16.RDB 15.SDB 16.RDB 15.SDB 16.RDB 15.SDB 16.RDB 15.SDB 16.RDB 15.SDB 16.RDB 15.SERA 18.CSB 20 21 Shield	Within 5m Supporting Models: GP2000 / GLC2000 Series



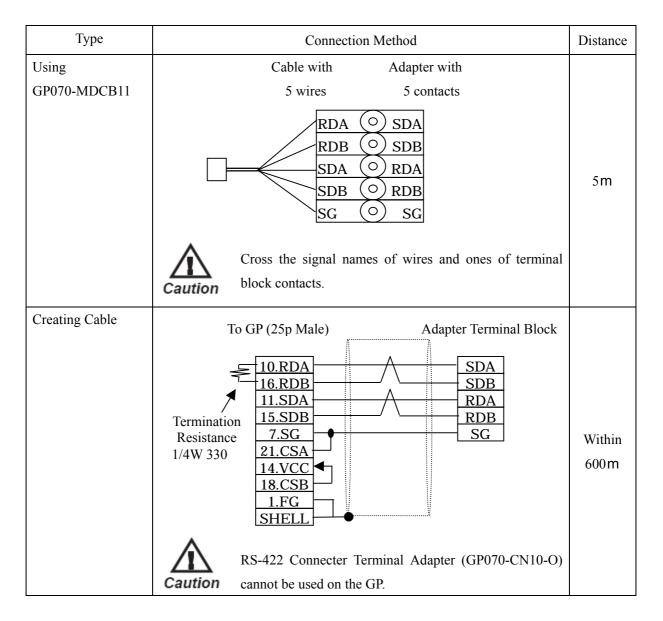
This wiring is available for only GP2000 Series / GLC2000 Series.

Recommended Products

Connecter/Cover for GP	D-sub 25 pin Plug	XM2A-2501 <omron co.=""></omron>
	Cover for D-sub 25 pin	XM2S-2511 <omron co.=""></omron>
	Jack Screw	XM2Z-0071 <omron co.=""></omron>
Cable	CO-MA-VV-SB5P × 28AWG <hitachi cable="" ltd.=""></hitachi>	
Setscrew	Metric Coarse Screw Tread : M2.6 × 0.45	



[Connecting via 2-Port Adapter]



Recommended Products

Connecter/Cover for GP	D-sub 25 pin Plug	XM2A-2501 <omron co.=""></omron>
	Cover for D-sub 25 pin	XM2S-2511 <omron co.=""></omron>
	Jack Screw	XM2Z-0071 <omron co.=""></omron>
Terminal on Adapter	Equivalent to V1.25-MS3 <j.s.t. co.,="" ltd.="" mfg.=""></j.s.t.>	
Cable	CO-SPEV-SB (A) 3PX0.5SQ <hitachi cable="" ltd.=""></hitachi>	
Setscrew	Metric Coarse Screw Tread : M2.6 × 0.45	