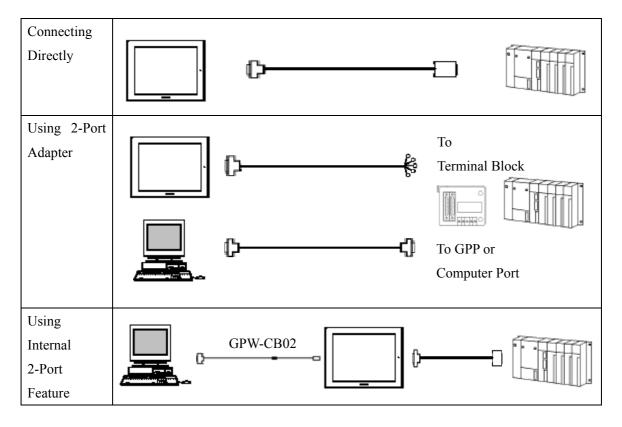


Mitsubishi <6> Mitsubishi Electric Corporation

A Series (AnN/AnS) CPU Direct Connection

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 internal 2-Port feature are not supported.



PLC

[Connecting Directly]

CPU	Communication Method	Connection Cable	GP
A1N, A2N, A3N, A3H	RS-422	Connection Method [1]	
A1FX	RS-232C	Connection Method [2]	

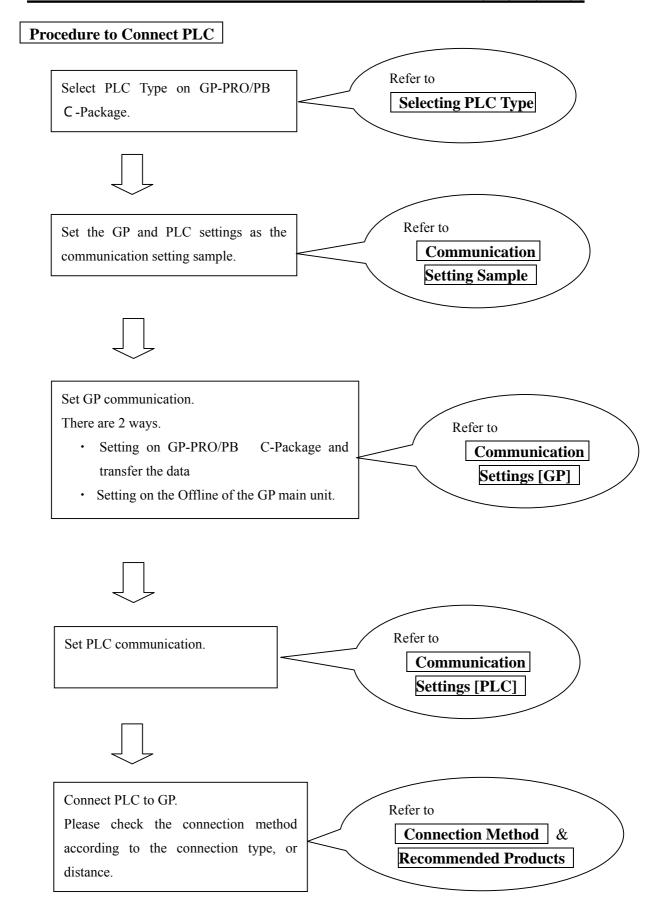
[Using 2-Port Adapter]

CPU	Adapter	Communication Method	Connection Cable	GP
A1S, A2N,				
A3H, A3N	GP070-MD11	RS-422	Connection Method [3]	
A1FX				

[Using Internal 2-Port Feature]

СРИ	Communication Method	Connection Cable	GP
A1S, A2N, A3H, A3N	RS-232C	Connection Method	GP77/77R Series
ASIN	RS-422	[1]	GP2000 Series







Selecting PLC Type

Start up GP-PRO /PBIII.

Select the following PLC Type when creating the project file.



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)	

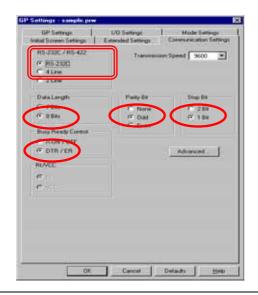
^{*1} For Communication Format, select RS-232C when using GP430-IP10-O, or select 4-wire type cable when using another cable.



Communication Settings [GP]

1 [GP-PRO/PB C-Package Setting]
Select [GP Setup] on Project Manager.

1) Communication Settings



1) Communication Settings

Transmission Speed: 9600bps Data Length: 8 Bits

Stop Bit: 1 Bit
Parity Bit: Odd

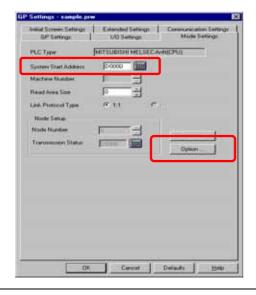
Busy Ready Control : DTR / ER

RS-232C/ RS-422:

GP430-IP10-O: RS-232C Other Cable: 4 Line

* Select one in

2) Mode Settings

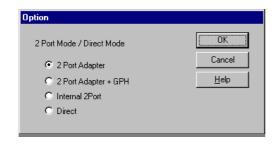


2) Mode Settings

System Start Address: Arbitrary Address

Select [Option...].

3) 2-Port Mode/Direct Mode Settings



3) 2-Port Mode/Direct Mode Settings

Using GP430-IP10-O or User-Created Cable:

Direct

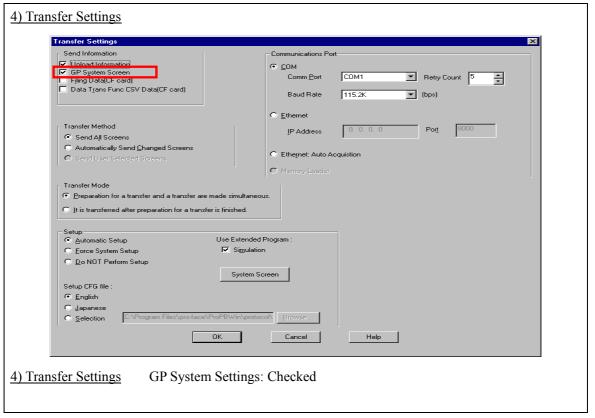
Using 2-Port Adapter : 2-Port Adapter

Using Internal 2-Port Feature:

Internal 2-Port



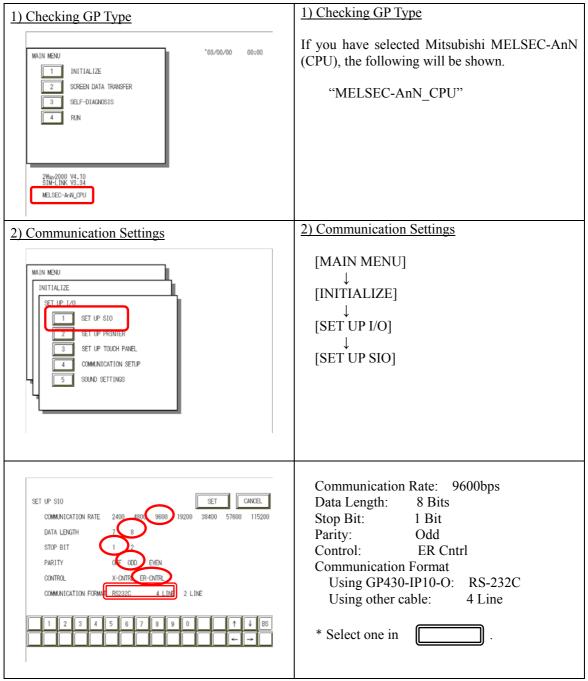
Select [Transfer] --> [Setup] --> [Transfer Settings].



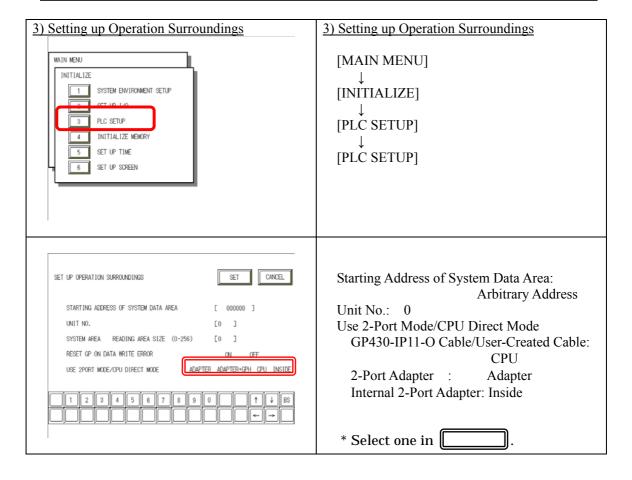
Transfer to GP after settings completed.



2 [GP Settings]

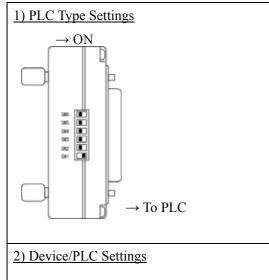








3 [2-Port Adapter Settings]



1) PLC Type Settings

SW 6: OFF

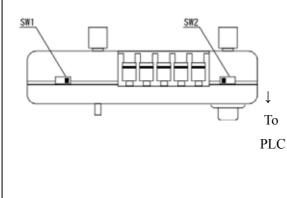
SW 5: OFF

SW 4: OFF

SW 3: OFF

SW 2: OFF

SW 1: ON



2) Device/PLC Settings

SW 1: Connecting Peripheral Device

RS-422 Cable: Right (GPP)

RS-232C Cable: Left (COMPUTER)

SW 2: Setting to connect any peripheral

devices

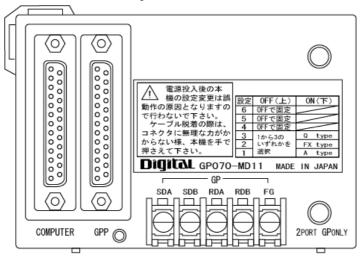
GP Only (No Peripheral Device):

Right (GP ONLY)

GP and Peripheral Device:

Left (2-Port)

<Reference> 2-Port Adapter





Communication Settings [PLC]

There are no items to set on the PLC.

Connection Method

[Connecting to A1N / A2N / A3N / A3H]

Туре	Connection Method	Distance
Using GP430-IP10-O	C	5m
Creating Cable	To GP (25p Male) 1.FG 7.SG 9.TRMX 10.RDA 11.SDA 15.SDB 16.RDB 16.RDB 18.CSB 19.ERB 21.CSA 22.ERA Shield To PLC (25p Male) 3.SDA 16.SDB 7.SG 2.RDA 15.RDB 4.CSA 17.CSB 5.ERA 18.ERB 20 21	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.>
101 GF	Cover for D-sub 25 pin	XM2S-2511 <omron co.=""></omron>
	Jack Screw	XM2Z-0071 < OMRON Co.>
Cable	CO-MA-VV-SB5P × 2	8AWG <hitachi cable="" ltd.=""></hitachi>
Setscrew	Metric Coarse Screw Tread : M2.6 × 0.45	

[Connecting to A1FX]

Туре	Connection Method	Distance
Using GP430-IP11-O	D	5m



[Connecting via 2-Port Adapter]

Туре	Connection Method	Distance
Using GP070-MDCB11	Cable with Adapter with 5 wires 5 contacts RDA O SDA RDB O SDB SDA O RDA SDB O RDB SG O SG Cross the signal names of wires and ones of terminal block contacts.	5m
Creating Cable	To GP (25p Male) To GP (25p Male) Adapter Terminal Block 10.RDA 16.RDB 11.SDA Termination Resistance 1/4W 330 ROB To GP (25p Male) SDA SDB RDA RDB To GP (25p Male) SDA SDB RDA RDB To GP (25p Male) ROB ROB ROB ROB ROB ROB ROB RO	Within 600m



Connecting to A1FX via 2-Port Adapter



*1: You need a straight cable to adjust height of the connecter on the CPU and align it with that of the CPU cover.



Recommended Products

	I	<u></u>	
Connecter/Cover for GP	D-sub 25 pin Plug	XM2A-2501 <omron co.=""></omron>	
101 GF	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. Mfg. Co., Ltd.>		
Cable	CO-SPEV-SB (A) 3PX0.5SQ <hitachi cable="" ltd.=""></hitachi>		
Setscrew	Metric Coarse Screw Tread: M2.6 × 0.45		