Mitsubishi <3> Mitsubishi Electric PLC

[A series (AnA, AnU, AnUS, AnUSH) CPU Direct] Connection Method]



Applicable Models

Model	Series	Remarks
GP	GP70 series	Handy Type is excluded.
	GP77/77R series	Built-in 2 Port Feature supports
	GP2000 series	GP77/77R series and GP2000
		series only.
GLC	GLC2000 series	2 Port Adapter II and Built-in 2
		Port Feature have not been
		supported.



Applicable PLC

[Direct Connection]

CPU		Connecting	
	Connection	Cable	GP
	Method		
			·
A2A, A3A, A3U, A4U,	RS-422	Connection	
A2U-S1, A2US,		Method	
A2US-S1, A2USH-S1	RS-232C	[1]	

[When using 2 Port Adapter II]

CPU	Adapter		Connecting	
		Connection	Cable	GP
	[1523]ppppgg_]	Method		·
A2A, A3A, A4U,			Connection	
A2U-S1, A2US,	GP070-MD11	RS-422	Method	
A2USH-S1			[2]	

[When using built-in 2-port feature]

CPU	Connection Method	Connecting Cable	GP GP GP77/77R series
A2A, A3A, A2U-S1,	RS-232C	Connection Mothod	GP2000 series
A203, A205F51	RS-422	[1]	

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Select PLC type

When creating a project file, select the following PLC type.

Sinoname.tmp:Unitiled - Project Manager Project Screen/Setup Control Utility Heb			
GPPRO/PBIL O-Package03			
GP Sotup Project Legic Program Editor Transfer New Git Instruction Construction Marniner Construction Nor I/C Print			
	Mitsubishi Electric (CPU)	MELSEC	An
Open soreen for editing			

System Setting Example

GP settings		PLC settings
Transmission	9600bps (fixed)	
Data length	8bits (fixed)	
Stop bit	1bit (fixed)	
Parity bit	Odd (fixed)	
Busy Ready Control	ER	
Communication method (when using RS-232C)*1	RS-232	
Communication method (when using RS-422)	4-wire type	
Unit No.	0 (fixed)	

*1 Communication type: When using GP430-IP10-O Cable : select RS-232C

When using other cables : select 4-wire type



System Setting [GP]

1 [Setting up by GP-PRO/PBIII GPackage]

"GP Setup" is chosen from a project manager screen.

Communication Settings	Communication Settings	
GP Settings - noname.tmp X GP Settings I/O Settings Mode Settings Initial Screen Settings Extended Settings Communication Settings RS-232C / RS-422 Transmission Speed 9600 Image: RS-232C / RS-422 Transmission Speed 9600 Image: RS-232C / G & Line Parity Bit Stop Bit Data Length Parity Bit Stop Bit Image: RS-232C / RS-422 Image: RS-232C / G & Line Stop Bit Data Length Parity Bit Stop Bit Image: RS-232C / RS-422 Image: RS-232C / G & Line Stop Bit Image: RS-232C / G & Bit Parity Bit Stop Bit Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image: RS-232C / G & Ditrol Image:	Transmission Speed :9600bps Data length :8 bits Stop bit :1 bit Parity bit :Odd Busy Ready Control :ER Communication Format GP430-IP10-O use : RS-232C Other use :4-wire type *For, select the desired one.	
Mode Settings	Mode Settings	
GP Settings - noname.tmp X Initial Screen Settings L/O Settings Communication Settings GP Settings L/O Settings Mode Settings PLC Type MITSUBISHI MELSECANN(CPU) System Start Address D0000 Machine Number Image: Screecting Setting Seting Seting Setting Setting Setting Setting Seting Set	System Start Address : optional address Machine Number: 0 Select [Option].	
Mode Settings for 2-Port Feature/Direct	Mode Settings for 2-Port Feature/Direct	
2 Port Mode / Direct Mode OK © 2 Port Adapter Cancel © 2 Port Adapter + GPH Help © Internal 2Port Direct	When using GP430-IP10-O/home-made cable : Direct When using 2-Port Adapter : 2 Port Adapter When using built-in 2-Port Adapter Feature : Built-in 2-Port Feature	



Transfer Settings	2	Transfer Settings
Transfer Bettlegs - Send Homation 7: Upload Homation 7: GP System Science - Uning Homeon Comp - Uning Homeon Comp - Data (Inter Func CSV Data(OF carel)	Communications Plot C COM Conne Plot Conne Plot Communications Plot	GP System Screen: checked
Transfer Method G. Sand Al Screens C. Automotody Send Changed Screens C. Automotody Send Changed Screens Transfer Mode G. Pepproton for a transfer and a transfer are made situat	Plant PAdexx 0.0.0.0 Pat 1000 Pat 1000 Pat 1000 Pat Record.	
It is transfered site preparation for a transfer is limite Setup C Automatic Satup Use Ext C Torus System Setup D oh/07 Perform Setup Setup CFB file: G Digital C Japanese C Selection C Program Files(Pro Sec)ProFilm(OK	d anded Program : Nuklion fum Screen CFB0000 Boyner Concel Help	

After the settings are completed, transfer them to GP.

2 [Settings via GP]

- Display Setting Screen -

Within 10 seconds after the power supply turns on, push the upper left corner of the screen. Otherwise, push the upper right corner with the right below corner of the screen pushed. In that condition, push the left below corner, and the menu bar will display on the below part of the screen. Touch [Offline].

Confirm GP type	Confirm GP type
MAIN MENU V3.50c 03/00/00 00:00 1 INITIALIZE (V6.23) 2 SCREEN DATA TRANSFER 3 SELF-DIAGNOSIS 4 RUN 2/6x/2000 V4.10 SIM-LINK V3.34 MELSEC-Av4_CPU	When you select Mitsubishi Electric MELSEC-AnA (CPU), the following display appears. [MELSEC-AnA_CPU]
System Settings	System Settings
LACTO AFAIT	[Main Menu]
	[Initialize]
1 SET LP SED	[I/O Settings]
SET UP TOUCH PANEL	[System Settings]
5 SOUND SETTINGS	
·	

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SET UP SIO SET CANCEL OOMMUNICATION RATE 2400 4800 9000 19200 88400 57800 115200 DATA LENGTH 7 8 7 8 7 8 7 8 7 8 7 8 7 1 2 2 2 1 1 2 2 1 1 2 1 1 2 1 1 2 1 <	Communication Rate : 9600bps Data length :8 bits Stop bit :1bit Parity bit :Odd Data Flow Control :ER Control Communication Format When using GP430-IP10-O : RS-232C Other use :4-wire type *For select the desired one
Set Up Operation Surroundings	Set Up Operation Surroundings
1 SYSTEMENMEROMENT SETUP 2 SET UP IXO 3 PLC SETUP 4 INITIALIZE MEMORY 5 SET UP TIME 6 SET UP SCREEN	[Main Menu] [Initialize] [PLC SETUP] [PLC SETUP]
SET UP OPERATION SURROUNDINGS STATTING ADORESS OF SYSTEM DATA AREA [D00000] UNIT NO. (D) SYSTEM AREA READING AREA SIZE (0-256) (D) RESET OP ON DATA WRITE ERROR ON OFFE USE 2PORT MODE/CPU DIRECT NOD ADAPTER CPU INSIDE 1 2 3 4 5 6 7 8 9 0 1 4 85 1 2 3 4 5 6 7 8 9 0 1 4 85	System Area Start Address : Optional Address Unit No. : 0 2-Port Feature Mode When using GP430-IP10-O/home-made cable : Direct When using 2-Port Adapter II : Adapter When using built-in 2-Port Feature : Built-in *For select the desired one.

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3 [2-Port Adapter II Settings]



<Reference> Appearance of 2-Port Adapter II



System Settings [PLC]

No settings are required on the PLC side.

Connection Method

[1] When using Direct Connection/Built-in 2-Port Feature

Form	Connection Method	Distance
When using GP430-IP10-O	¢	5m
When creating a cable	$ \begin{array}{c} \text{GP (25p male)} \\ \hline 1.FG \\ \hline 7.SG \\ \hline 9.TRMX \\ \hline 10.RDA \\ \hline 11.SDA \\ \hline 15.SDB \\ \hline 2.RDA \\ \hline 15.RDB \\ \hline 2.RDA \\ \hline 15.RDB \\ \hline 2.RDA \\ \hline 15.RDB \\ \hline 2.RDA \\ \hline 15.SDB \\ \hline 1$	Less than 5m Applicable type GP2000/ GLC2000 series



This cable diagram is applicable only for GP/GLC2000 series.

Recommended products

GP side Connector /Cover	Dsub25 pin plug	XM2A-2501 <omron></omron>
	Dsub25 pin cover	XM2S-2511 <omron></omron>
	Jackscrew	XM2Z-0071 <omron></omron>
Cable	CO-MA-VV-SB5P x 28AWG <hitachi electric="" wire=""></hitachi>	
Fastener	Meter-scale screw M2	2.6 x 0.45 pitch

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[2] When using 2-Port Adapter II



Recommended products

GP side Connector/Cover	Dsub25 pin plug	XM2A-2501 <omron></omron>
	Dsub25 pin cover	XM2S-2511 <omron></omron>
	Jackscrew	XM2Z-0071 <omron></omron>
Adapter Terminal	V1.25-MS3-equivalent product <jst></jst>	
Cable	CO-SPEV-SB(A) 3PX0.5SQ <hitachi electric="" wire=""></hitachi>	
Fastener	Meter-scale screw M2.6 x 0.45 pitch	