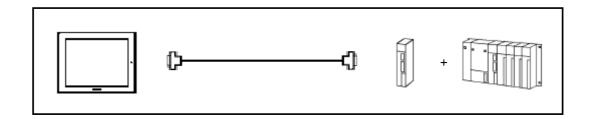


# <u>Mitsubishi <2> Mitsubishi Electric Corporation</u>

# A Series (AnUS) + Link Unit (Medium) Connection

## **System Structure**



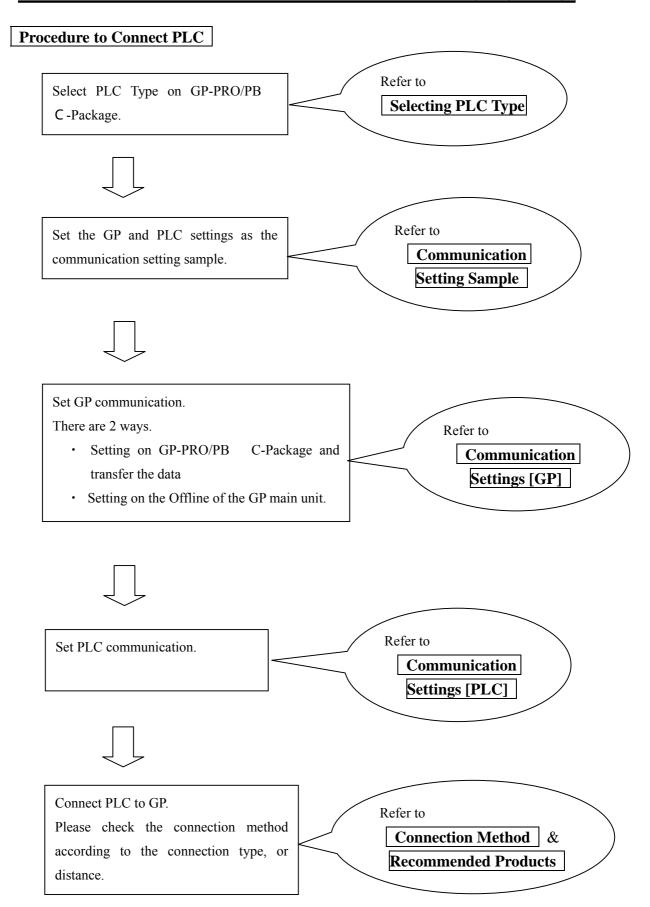
## GP

Machine	Model	Remark
GP	GP70 Series	Excepting for handy types.
	GP77/77R Series	
	GP2000 Series	
GLC	GLC2000 Series	

## PLC

CPU	Computer Link Unit	Communication	Connection Cable	
		Method	402	GP
A2US	A1SJ71C24-R2 A1SJ71UC24-R2	RS-232C	Connection Method [1]	
	A1SJ71UC24-R4	RS-422	Connection Method [2]	
A2USH-S1	A1SJ71UC24-R2	RS-232C	Connection Method [1]	
	A1SJ71UC24-R4	RS-422	Connection Method [2]	







## **Selecting PLC Type**

Start up GP-PRO /PBIII.

Select the following PLC Type when creating the project file.



## **Communication Setting Sample**

GP Setu	р	Computer Lin	k Unit Setitings
Baud Rate	19200 bps	Baud Rate	19200 bps
Data Length	7 bits	Data Bit	7 bits
Stop Bit	2 bits	Stop Bit	2 bits
Parity Bit	Even	Parity Check Parity setting even/odd	Yes Even
Data Flow Control	ER Control		
Communication Format (RS-232C)	RS-232C	Channel Setup Mode Setup (RS-232C)	RS-232C 4 (Format 4 protocol)
Communication Format (RS-422)	4-wire type	Channel Setup Mode Setup (RS-422)	RS-422 8 (Format 4 protocol)
	•	Write possible in RUN mode.	Possible
		Sum Check	Yes
Unit No.	0	Station Number	0

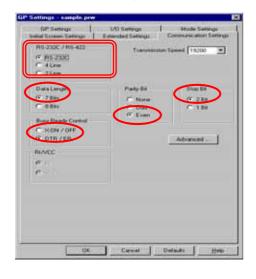


### **Communication Settings [GP]**

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

Select [GP Setup] on Project Manager.

#### 1) Communication Settings



#### 1) Communication Settings

Transmission Speed: 19200bps

Data Length: 7 Bits Stop Bit: 2 Bits Parity Bit: Even

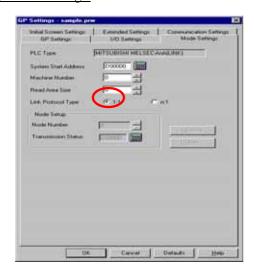
Busy Ready Control: DTR / ER

RS-232C/ RS-422

RS-232C Connection: RS-232C RS-422 Connection: 4 Line

\* Select one in depending on the communication method.

#### 2) Mode Settings



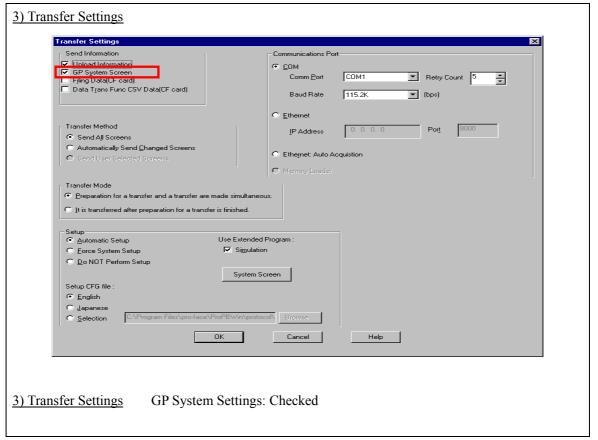
#### 2) Mode Settings

System Start Address: Arbitrary Address

Machine No.: 0
Link Protocol Type: 1:1



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



Transfer to GP after settings completed.

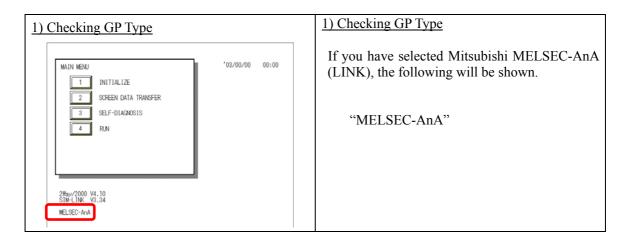


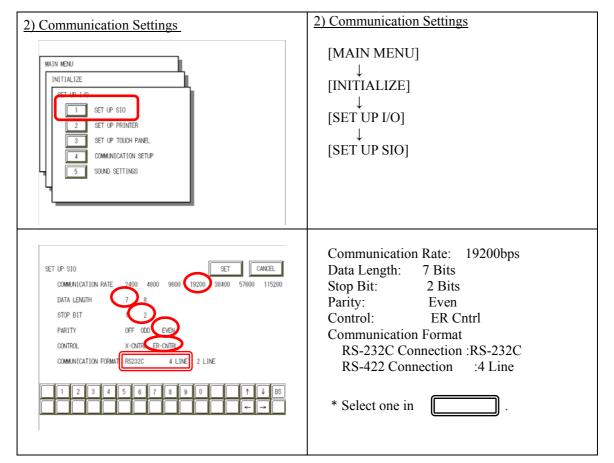
#### 2 [GP Settings]

- Displaying Setting Screen -

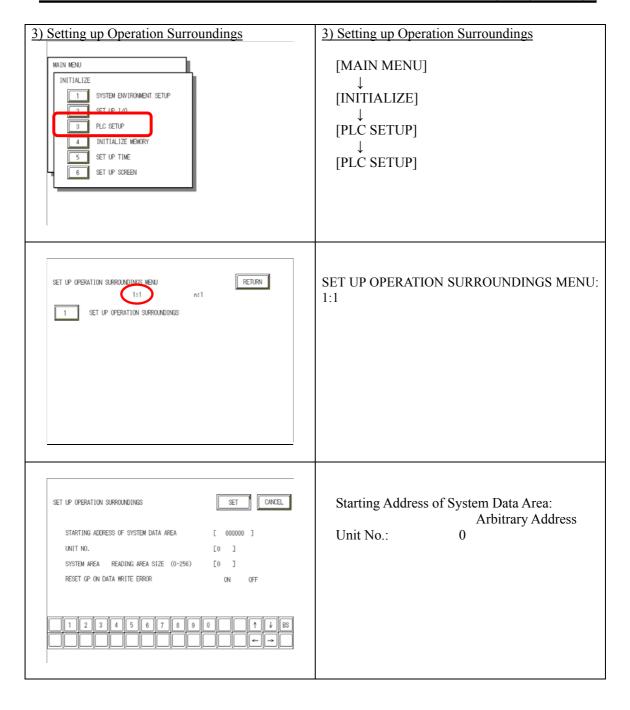
Touch the left top of the screen within 10 second after powering on.

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].











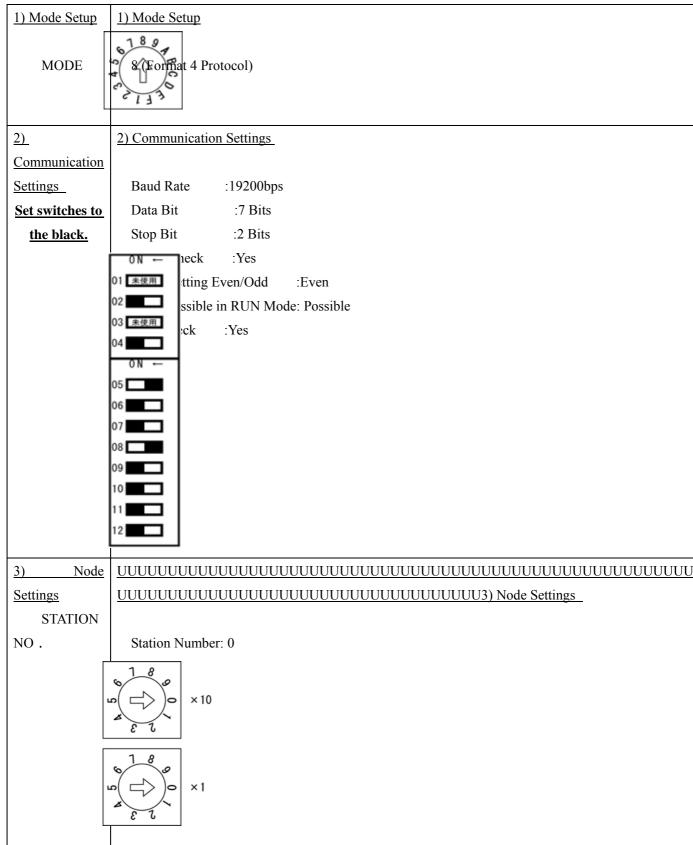
## **Communication Settings [PLC]**

### 1. RS-232C Connection

1) Mode Setup	1) Mode Setup
MODE 4 1 8 9	4 (Format 4 Protocol)
2) Communication Settings	2) Communication Settings
Set switches to the black.	
ON ←	Baud Rate :19200bps
03 未使用	Data Bit :7 Bits
04	Stop Bit :2 Bits
ON ←	Parity Check :Yes
05	Parity Setting Even/Odd :Even
06	Write Possible in RUN Mode: Possible
07	Sum Check :Yes
08	
10	
11	
12	
"- <b>-</b>	



#### 2. RS-422 Connection







### **Connection Method**

### 1. RS-232C Connection

Type	Connection Method		Distance
Using GP000-IS02-MS	₿ <u></u>	<b></b>	3m
Creating Cable	1.FG 2.SD 3.RD 4.RS 5.CS 6. 7.SG 8.CD 20.ER	1.CD 2.RD 3.SD 4.ER 5.SG 6.DR 7.RS 8.CS FG	Within 15m



\* If a communication cable is used, it must be connected to the SG.



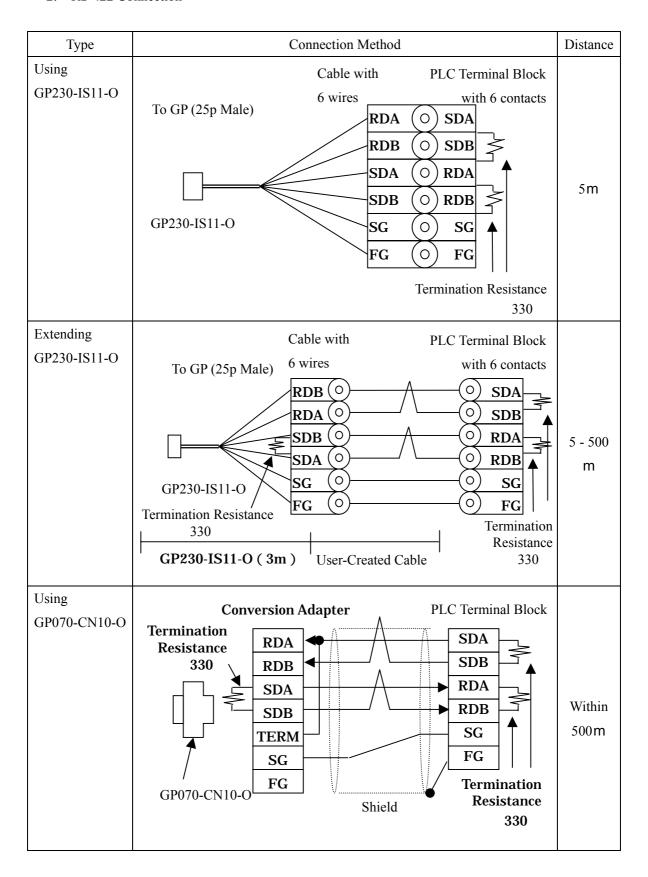
The optional cable, GP000-IS02-MS is 3m long. If you need a longer cable or shorter, please use a User-Created cable to connect.

### **Recommended Products**

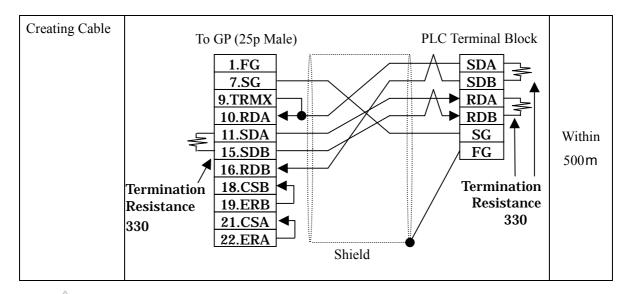
Connecter/Cover for GP	D-sub 25 pin Plug	XM2A-2501 <omron co.=""></omron>
	Cover for D-sub 25 pin	XM2S-2511 <omron co.=""></omron>
	Jack Screw	XM2Z-0071 <omron co.=""></omron>
Cable	CO-MA-VV-SB5P × 28AWG <hitachi cable="" ltd.=""></hitachi>	
Setscrew	Metric Coarse Screw Tread : M2.6 × 0.45	



#### 2. RS-422 Connection









- \* If a communication cable is used, it must be connected to the SG.
- \* Termination resistance when using AJ71UC24

PLC / between SDA and SDB, between RDA and RDB: 330

(with wattage specified on PLC)

GP Unit / as required (Refer to Cable Diagrams): 330

(with wattage specified on PLC)

### **Recommended Products**

Connecter/Cover for GP	D-sub 25 pin Plug	XM2A-2501 <omron co.=""></omron>	
loi Gr	Cover for D-sub 25 pin	XM2S-2511 <omron co.=""></omron>	
	Jack Screw	XM2Z-0071 <omron co.=""></omron>	
Cable	SPEV(SB)-MPC-0.2*3P <mitsubishi cable="" ind.=""></mitsubishi>		
Setscrew	Metric Coarse Screw Tread: M2.6 × 0.45		