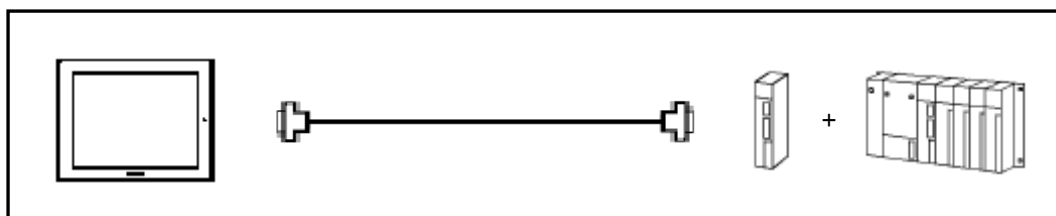



OMRON Corporation PLC SYSMAC C Series Connection





System Structure



GP

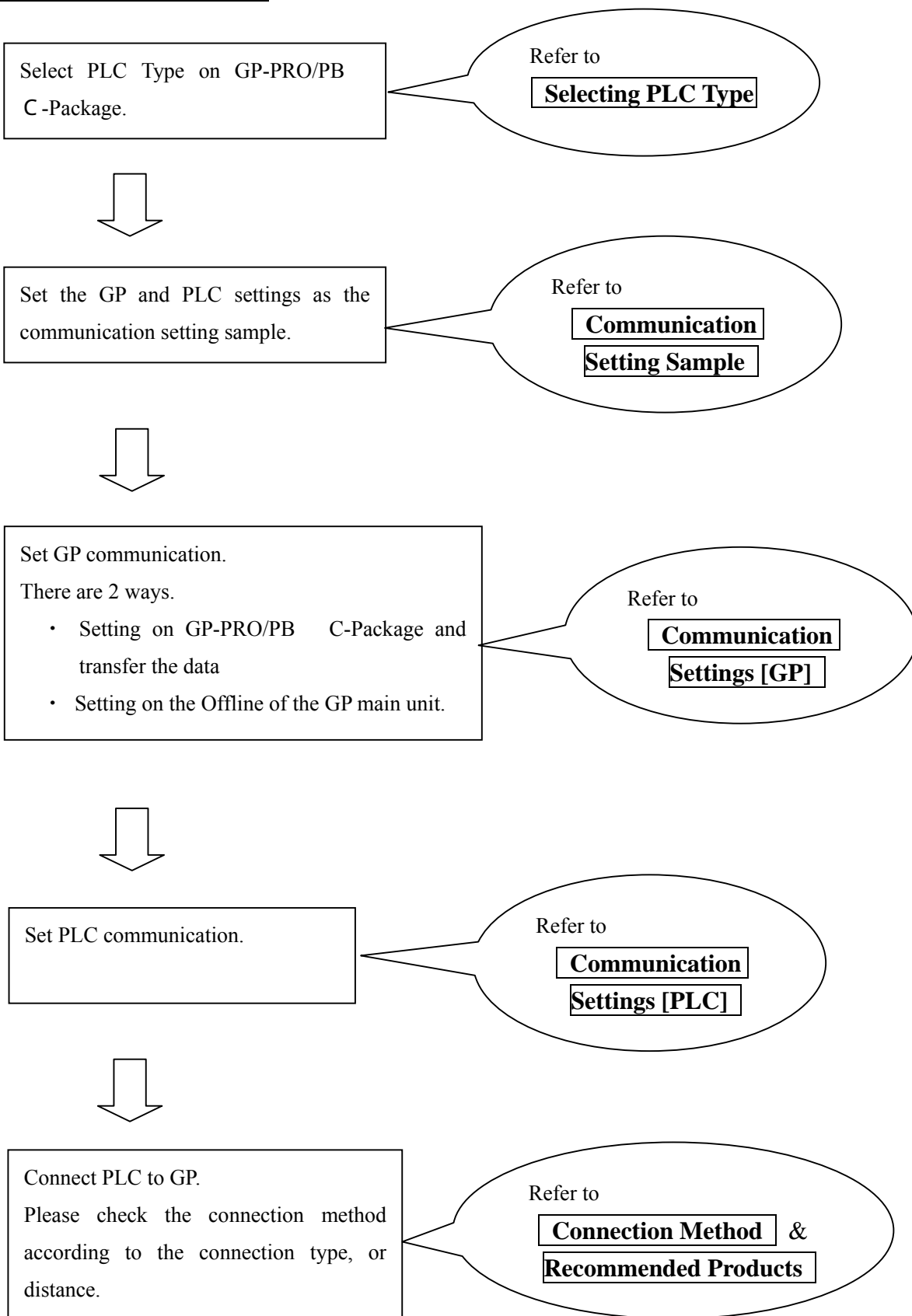
Machine 	Model	Remark
GP	GP70 Series GP77/77R Series GP2000 Series	Excepting for handy types.
GLC	GLC2000 Series	

P L C

CPU 	Host Link Interface 	Communication Method	Connection Cable 	GP 
C20H C28H C40H	Link I/F on CPU Unit *1	RS-232C	Connection Method [1]	

*1 Connected to RS-232C Port

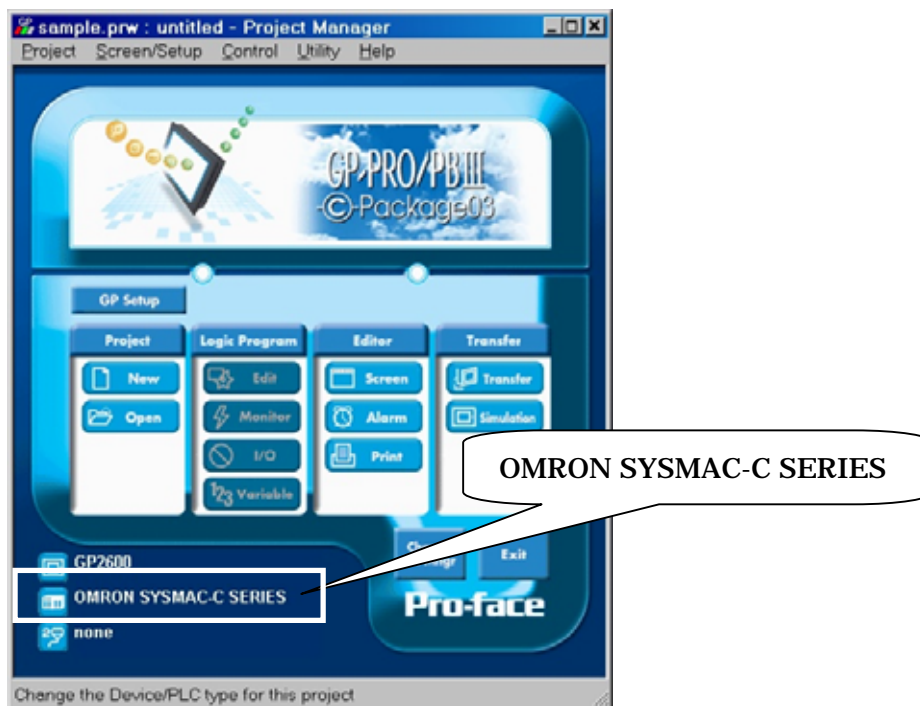
Procedure to Connect PLC



Selecting PLC Type

Start up GP-PRO /PBIII.

Select the following PLC Type when creating the project file.



Communication Setting Sample

■ SYSMAC-C Series

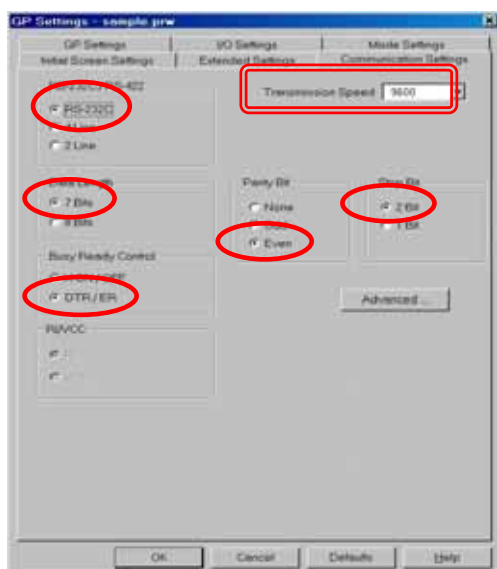
GP Setup		PLC Setup	
Baud Rate	9600bps	Baud Rate	9600bps
Data Length	7 bits	Data Length	7 bits
Stop Bit	2 bits	Stop Bit	2 bits
Parity Bit	Even	Parity Bit	Even
Data Flow Control	ER Control	_____	
Communication Format	RS-232C	_____	
Unit No.	0	Station No.	0

Communication Settings [GP]

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

Select [GP Setup] on Project Manager.

1) Communication Settings

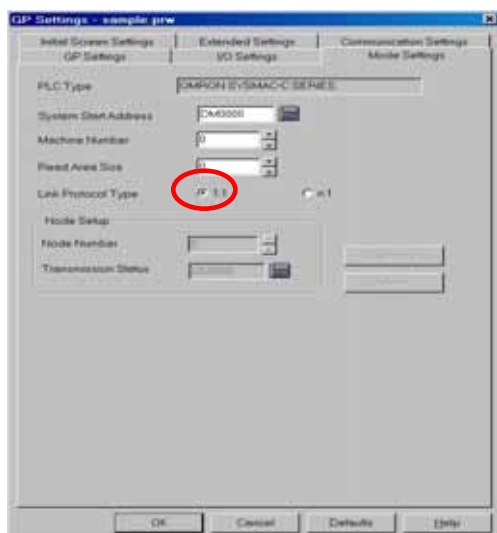


1) Communication Settings

Transmission Speed: 9600bps
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

* Change in .

2) Mode Settings

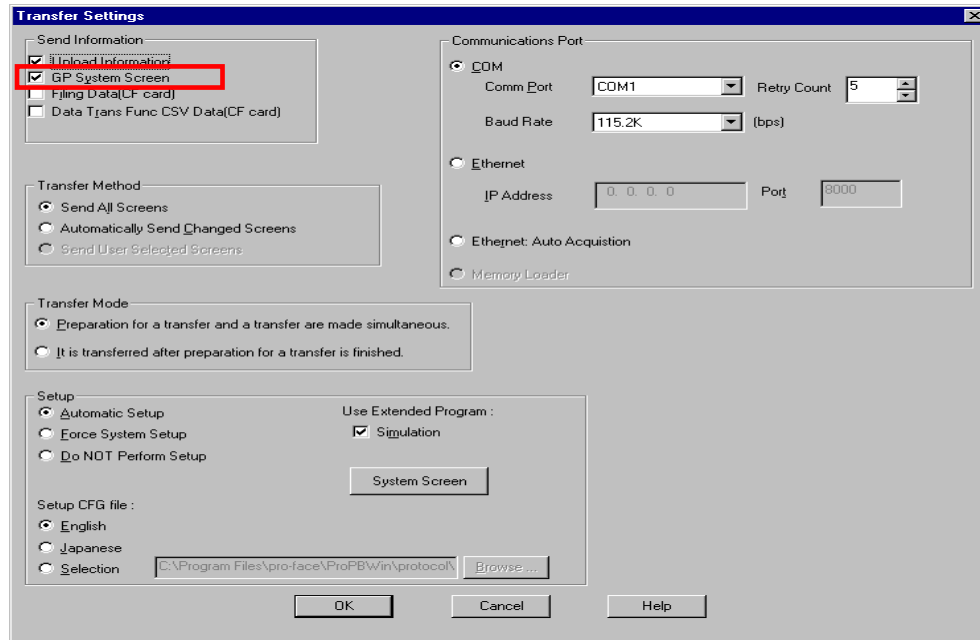


2) Mode Settings

System Start Address: Arbitrary Address
Machine Number: 0
Link Protocol Type: 1:1

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

3) Transfer Settings



3) Transfer Settings GP System Settings: Checked

Transfer to GP after settings completed.

2. [GP Settings]

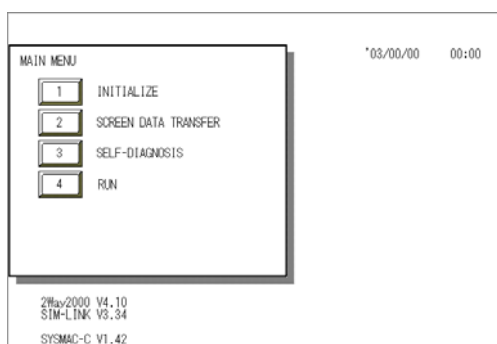
- Displaying Setting Screen -

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

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

Then touch [Offline].

1) Checking GP Type

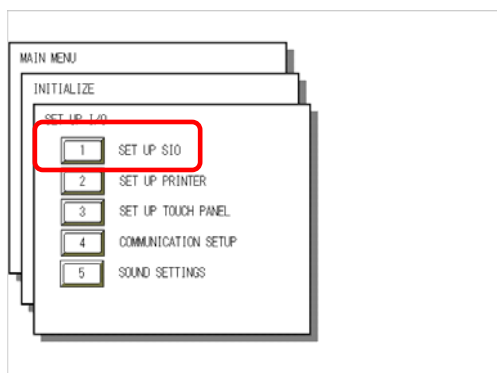


1) Checking GP Type

If you have selected OMRON SYSMAC-C Series, following will be shown.

“SYSMAC-C”

2) Communication Settings



2) Communication Settings

[MAIN MENU]



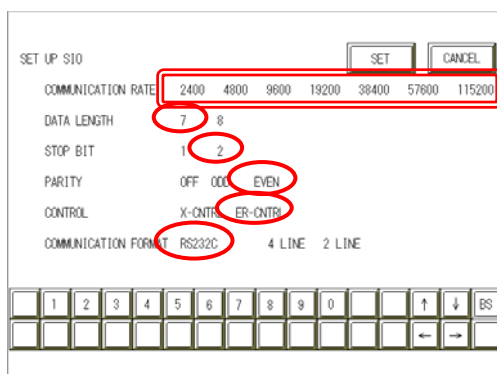
[INITIALIZE]



[SET UP I/O]



[SET UP SIO]



Communication Rate: 9600bps

Data Length: 7 Bits

Stop Bit: 2 Bits

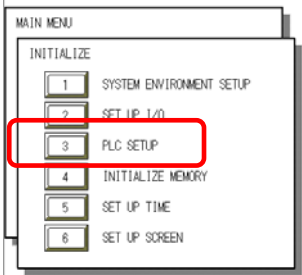
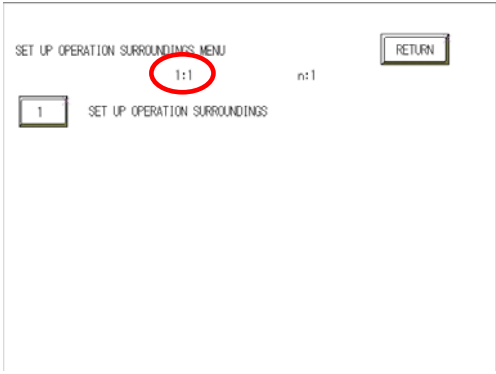
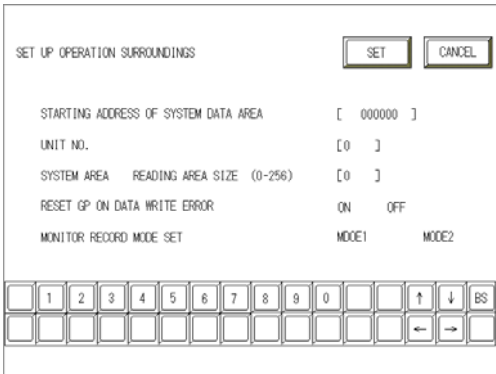
Parity: Even

Control: ER Cntrl

Communication Format

RS-232C Connection: RS-232C

* Change in .

<p><u>3) Setting up Operation Surroundings</u></p> 	<p><u>3) Setting up Operation Surroundings</u></p> <p>[MAIN MENU] ↓ [INITIALIZE] ↓ [PLC SETUP] ↓ [PLC SETUP]</p>
	<p>SET UP OPERATION SURROUNDINGS MENU: 1:1</p>
	<p>Starting Address of System Data Area: Arbitrary Address Unit No.: 0</p>

Communication Settings [PLC]

1. RS-232C Port on CPU Unit

Standard Settings	
Baud Rate	9600bps
Start Bit	1 Bit
Data Length	7 Bits
Stop Bit	2 Bit
Parity Bit	Even
Station No.	Station No. 0

* Communicate by default values (standard settings).

The maximum baud rate for C20H, C28H, and C40H is 9600bps.

Connection Method

1. RS-232C Connection

[RS-232C Port on CPU Unit (C20H, C28H, or C40H)]

Type	Connection Method	Distance
Creating Cable		Within 15m

Recommended Products

Connector/Cover for GP	D-sub 25 pin Plug	XM2A-2501	<OMRON Co.>
	Cover for D-sub 25 pin	XM2S-2511	<OMRON Co.>
	Jack Screw	XM2Z-0071	<OMRON Co.>
Cable	H-9293A (CO-HC-ESV-3P*7/0.2) <Hirakawa Hewtech Corp.>		
Setscrew	Metric Coarse Screw Tread : M2.6 × 0.45		