

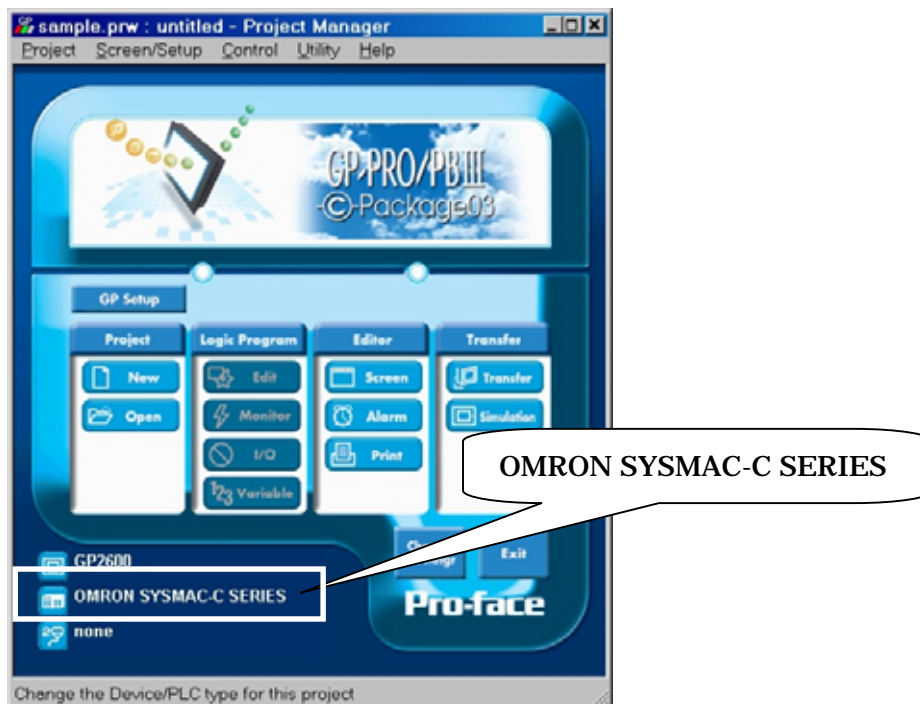
OMRON Corporation PLC

SYSMAC α Series Connection

Selecting PLC Type

Start up GP-PRO /PBIII.

Select the following PLC Type when creating the project file.



Communication Setting Sample

SYSMAC α Series <Communication Board>

GP Setup		Communication Board Setup	
Baud Rate	19200bps	Baud Rate	19200bps
Data Length	7 Bits	Data Bit	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)	RS-232C	_____	
Communication Format (RS-422)	4-Wire Type	RS-422/485 Cable (2-Wire/4-Wire Type) Switching Settings (Dipswitch 1)	4
Unit No.	0	Station Number	0

SYSMAC α Series <RS-232C Port on CPU Unit>

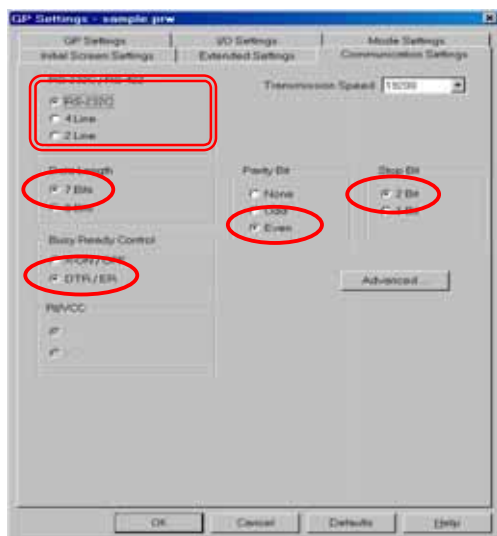
GP Setup		RS-232C Port Setup	
Baud Rate	19200bps	Baud Rate	19200bps
Data Length	7 Bits	Data Bit	7 Bits
Stop Bit	2 Bits	Stop Bit	2 Bits
Parity Bit	Even	Parity Bit	Even
Data Flow Control	ER Control	_____	
Communication Format	RS-232C	Mode	Host Link
Unit No.	0	Station Number	0

Communication Settings [GP]

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

Select [GP Setup] on Project Manager.

1) Communication Settings

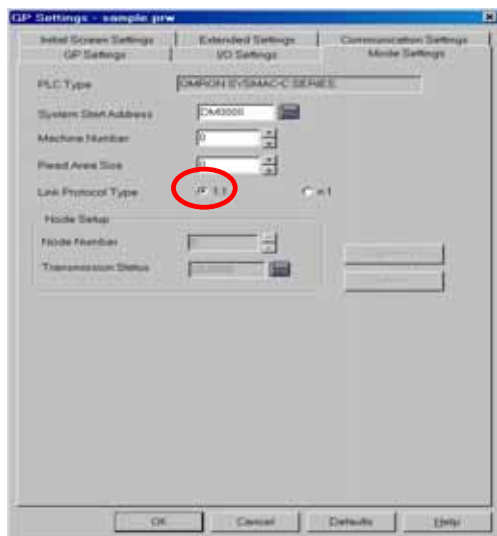


1) Communication Settings

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 .

2) Mode Settings

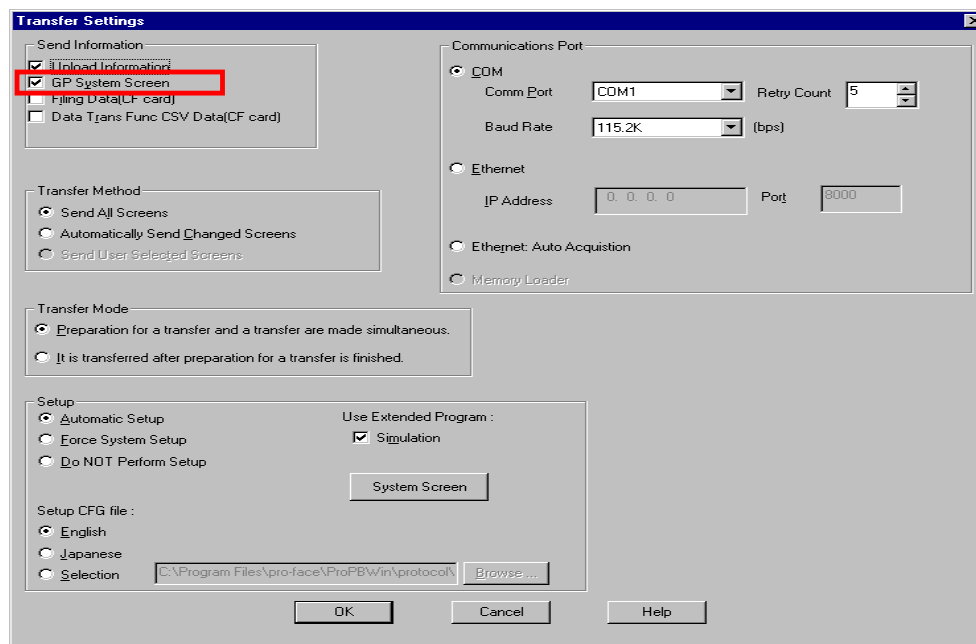


2) Mode Settings

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

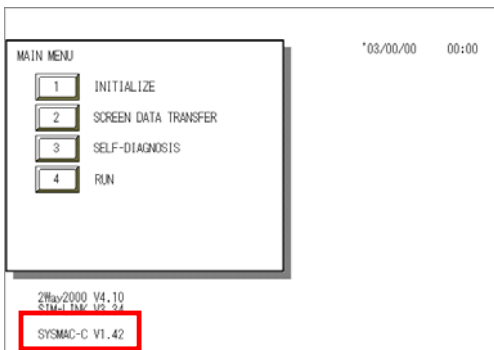
Transfer to GP after settings completed.

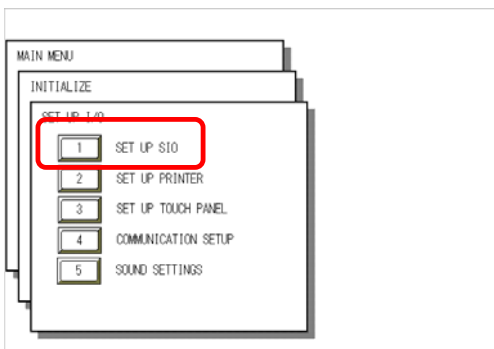
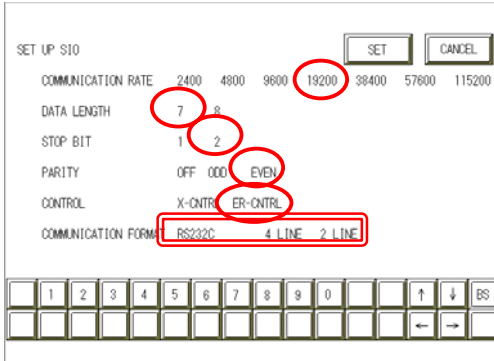
2. [GP Settings]

- Displaying Setting Screen -

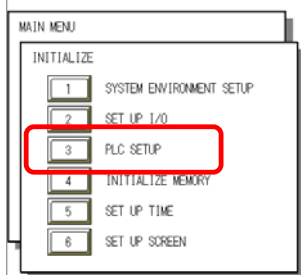
Touch the top left of the screen within 10 second after powering on.

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].

	<h3>1) Checking GP Type</h3> <p>If you have selected OMRON SYSMAC-C Series, following will be shown.</p> <p>“SYSMAC-C”</p>
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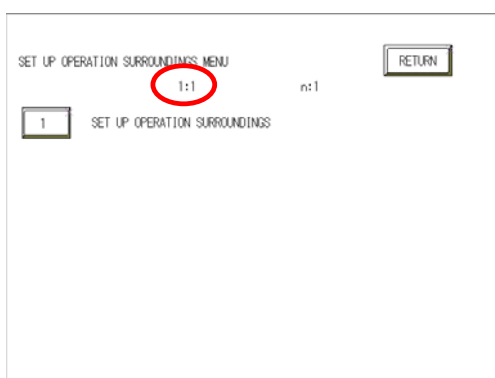
<h3>2) Communication Settings</h3> 	<h3>2) Communication Settings</h3> <p>[MAIN MENU] ↓ [INITIALIZE] ↓ [SET UP I/O] ↓ [SET UP SIO]</p>
	<p>Communication Rate: 19200bps Data Length: 7 Bits Stop Bit: 2 Bits Parity: Even Control: ER Cntrl Communication Format RS-232C Connection: RS-232C RS-422 Connection: 4 Line</p> <p>* Select one in <input type="text"/>.</p>

3) Setting up Operation Surroundings

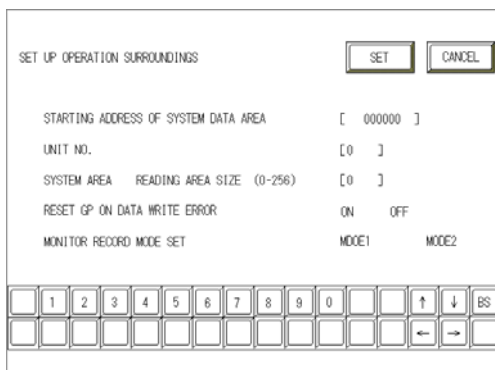


3) Setting up Operation Surroundings

[MAIN MENU]
↓
[INITIALIZE]
↓
[PLC SETUP]
↓
[PLC SETUP]



SET UP OPERATION SURROUNDINGS MENU:
1:1



Starting Address of System Data Area:
Arbitrary Address
Unit No.: 0

Communication Settings [PLC]

1. RS-232C Port on CPU Unit

Word Address	Value	Setting Contents
DM6645	0001 (HEX)	Depending on the settings of DM6646 Mode Setup: Host Link
DM6646	0304 (HEX)	Baud Rate: 19200bps Data Length: 7 Bits Stop Bit: 2 Bits Parity Bit: Even
DM6648	0000 (HEX)	Host Link Station No. Settings: Station No. 0

* Please make sure to turn OFF the mode setup switch SW5 on the CPU unit.

2-1 Communication Board C200HW-COM06 (RS-232C Connection)

[Port B]

Word Address	Value	Setting Contents
DM6550	0001 (HEX)	Depending on the settings of DM6551 Mode Setup: Host Link
DM6551	0304 (HEX)	Baud Rate: 19200bps Data Length: 7 Bits Stop Bit: 2 Bits Parity Bit: Even

* Please make sure to turn OFF the mode setup switch SW5 on the CPU unit.

2-2 Connection Board C200HW-COM06 (RS-422 Connection)

[Port A]

Word Address	Value	Setting Contents
DM6555	0001 (HEX)	Depending on the settings of DM6556 Mode Setup: Host Link
DM6556	0304 (HEX)	Baud Rate: 19200bps Data Length: 7 Bits Stop Bit: 2 Bits Parity Bit: Even

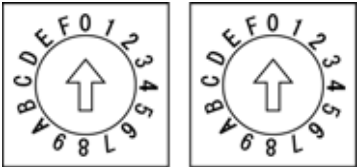
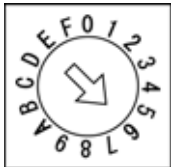
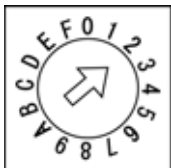

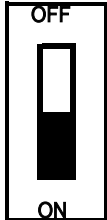
* Please make sure to turn OFF the mode setup switch SW5 on the CPU unit.

* Set the dipswitch on the communication board as below.

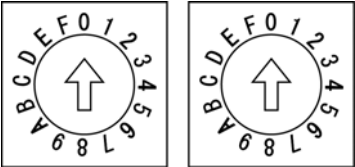



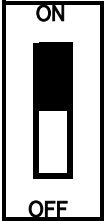
SW1 : 4

SW2 : ON

3. Host Link Unit C200H-LK201-V1

<p><u>1) Front Switch Settings</u></p> <div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="margin-right: 10px;">SW1 SW2</div>  </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="margin-right: 10px;">SW3</div>  </div> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">SW4</div>  </div> </div>	<p><u>1) Front Switch Settings</u></p> <p>0: Station No. Settings ($\times 10$) 0: Station No. Settings ($\times 1$)</p> <p>6: Baud Rate Settings (19200bps)</p> <p>2: (Parity/Data/Stop Bit Settings) Parity Bit: Even Data Bit: 7 Bits Stop Bit: 2 Bits</p>
<p><u>2) Back Dipswitch Settings</u></p> <p><u>Set the switches to the black.</u></p> 	<p><u>2) Back Dipswitch Settings</u></p> <p>SW1: Unused SW2: Unused SW3 (Relation): 1 to n SW4 (5V Power Supply): No</p>
<p><u>3) CTS Switch Settings</u></p> 	<p><u>3) CTS Switch Settings</u></p> <p>ON (Turning CTS ON)</p>

4. Host Link Unit C200H-LK202-V1

<p><u>1) Front Switch Settings</u></p> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 20px;"> <div style="text-align: right; margin-right: 10px;">SW1 SW2</div>  </div> <div style="display: flex; align-items: center; margin-bottom: 20px;"> <div style="text-align: right; margin-right: 10px;">SW3</div>  </div> <div style="display: flex; align-items: center;"> <div style="text-align: right; margin-right: 10px;">SW4</div>  </div> </div>	<p><u>1) Front Switch Settings</u></p> <p>0: Station No. Settings ($\times 10$) 0: Station No. Settings ($\times 1$)</p> <p>6: Baud Rate Settings (19200bps)</p> <p>2: (Parity/Data/Stop Bit Settings) Parity Bit: Even Data Bit: 7 Bits Stop Bit: 2 Bits</p>
<p><u>2) Relation Switch Settings</u></p> 	<p><u>2) Relation Switch Settings</u></p> <p>OFF (1 to n Relation)</p>
<p><u>3) Termination Resistance Connection Switch Settings</u></p> 	<p><u>3) Termination Resistance Connection Switch Settings</u></p> <p>ON (With Termination Resistance)</p>