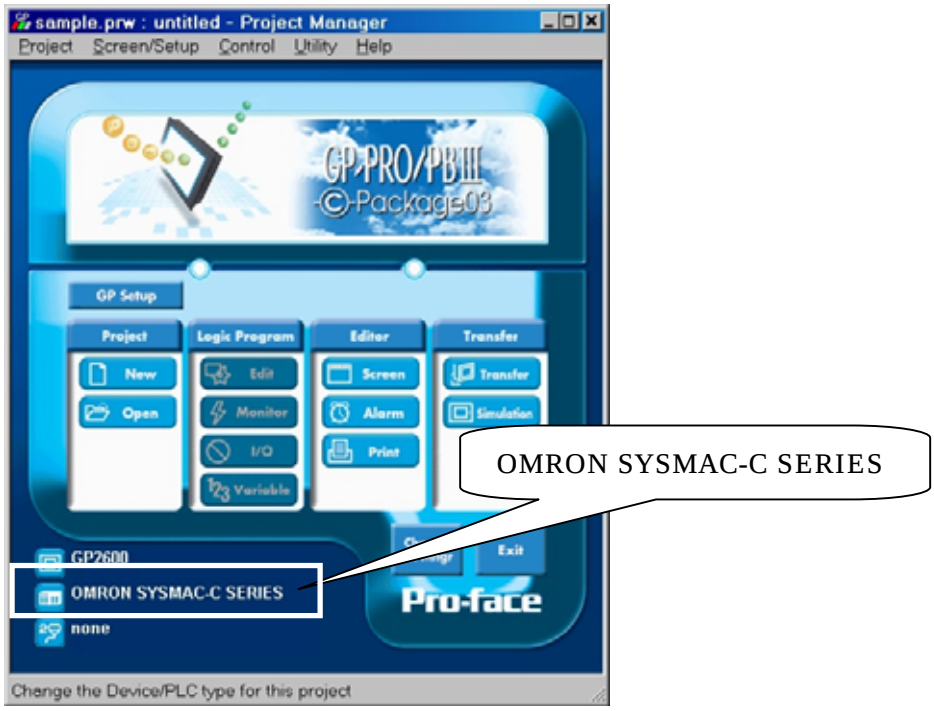
OMRON Corporation PLC
SYSMAC C Series Connection

Selecting PLC Type

Start up GP-PRO /PBIII.

Select the following PLC Type when creating the project file.



Communication Setting Sample

■ SYSMAC-C Series

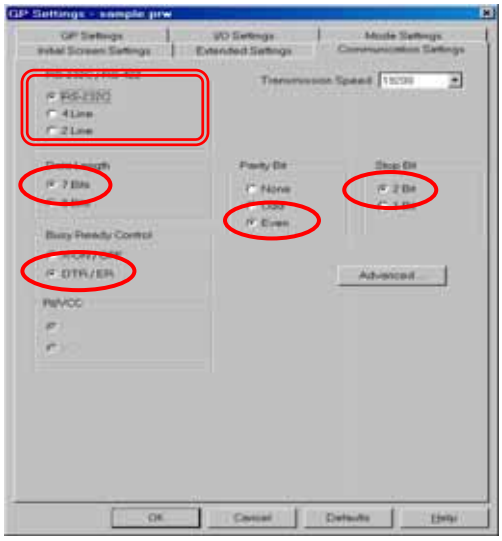
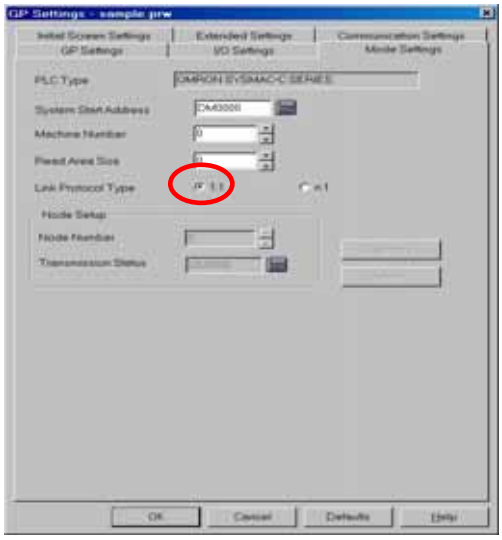
GP Setup		PLC Setup	
Baud Rate	19200bps	Baud Rate	19200bps
Data Length	7 bits	Data Length	7 bits
Stop Bit	2 bits	Stop Bit	2 bits
Parity Bit	Even	Parity Bit	Even
Data Flow Control	ER Control	————————	
Communication Format (RS-232)	RS-232C	Communication Format *1	RS-232C
Communication Format (RS-422)	4 Line	Communication Format *1	RS-422
————————		Command Level *1	Level 1,2,and 3 are valid.
————————		Relation *1	1 to n
————————		5V Power Supply *1	No
————————		CTS Setup *1	Normally ON
————————		Mode Setup *2	Host Link
Unit No.	0	Station Number	0

*1 This setup is unavailable for the RS-232C port of C200HS.
*2 This setup is available only for the RS-232C port of C200HS.

Communication Settings [GP]

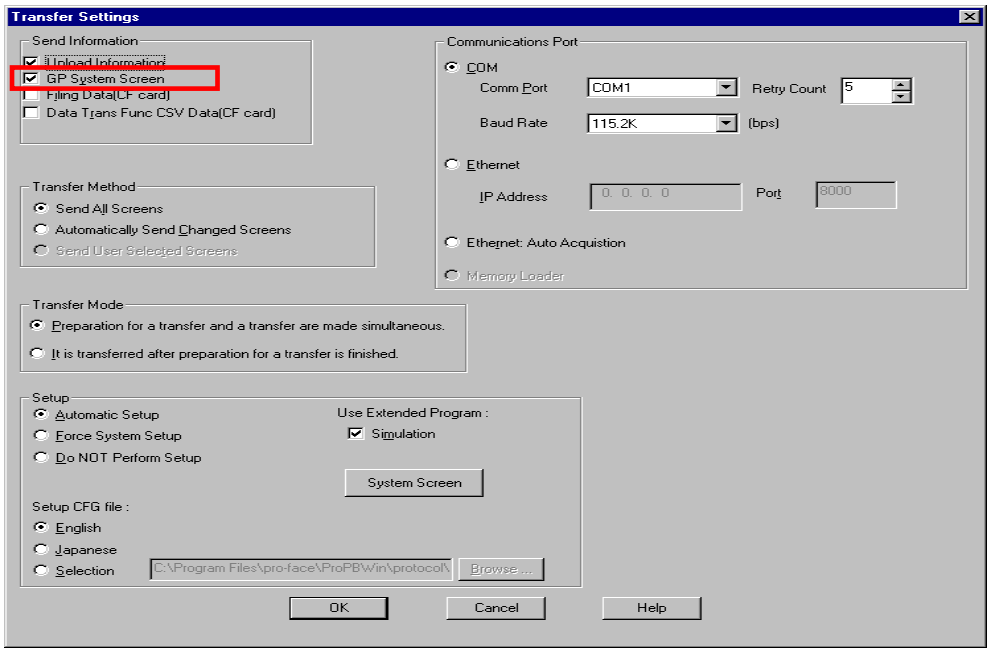
1. [GP-PRO/PBIII C-Package Setting]

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

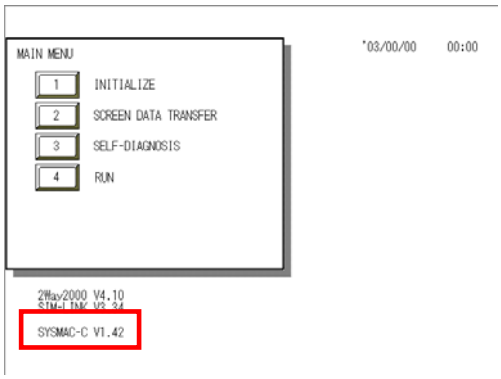
Transfer to GP after settings completed.

2. [GP Settings]

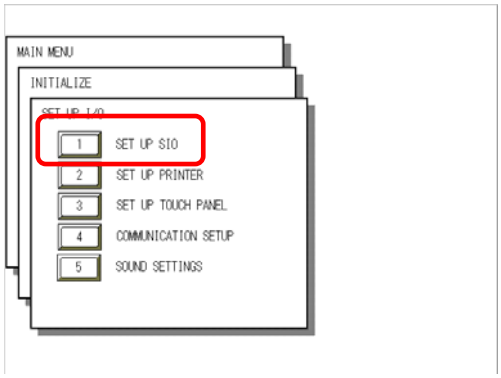
—Displaying Setting Screen—

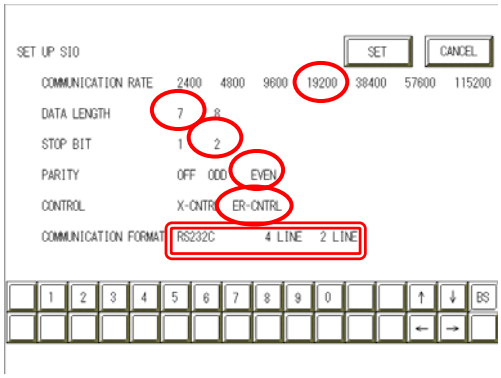
Touch the top left of the screen within 10 second after powering on.

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].

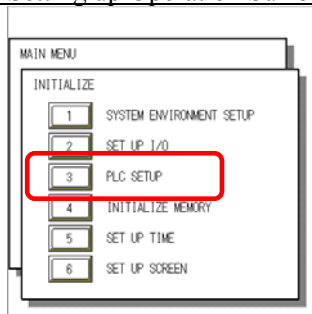
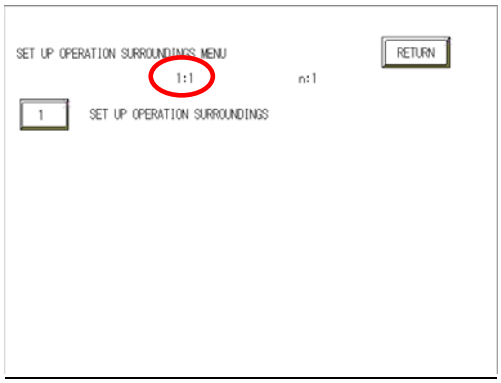
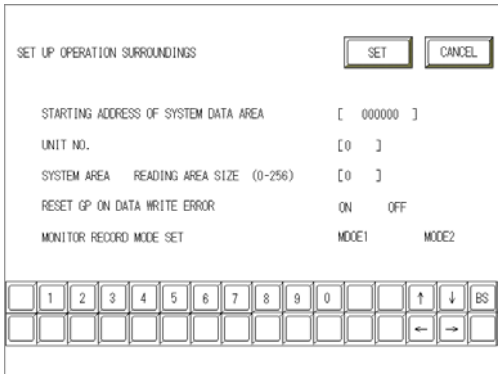
<table>
<tr>
<td> 
</td>
<td>1) Checking GP Type

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

"SYSMAC-C"</td>
</tr>
<tr>
<td>2) Communication Settings
 
</td>
<td>2) Communication Settings

[MAIN MENU]
↓
[INITIALIZE]
↓
[SET UP I/O]
↓
[SET UP SIO]</td>
</tr>
<tr>
<td> 
</td>
<td>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

* Select one in ▭.</td>
</tr>
</table>

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

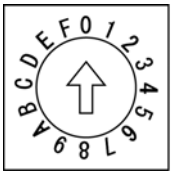
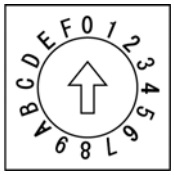
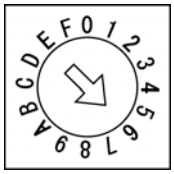
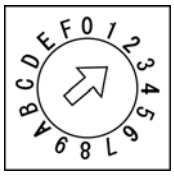
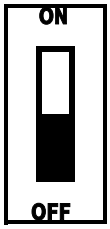
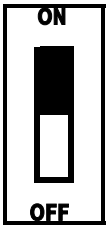
Word Address	Value	Setting Contents
DM6645	0001 (HEX)	Depending on the settings of DM6646 Mode Setup: Host Link
DM6646	0304 (HEX)	Baud Rate: 19200bps Data Length: 7 Bits Stop Bit: 2 Bits Parity Bit: Even
DM6648	0000 (HEX)	Host Link Station No. Settings: Station No. 0

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

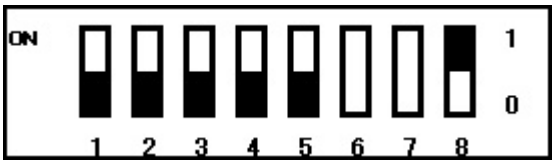
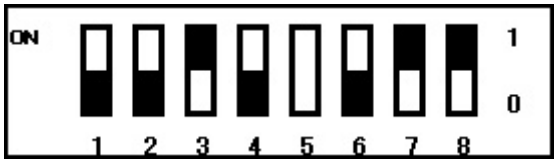
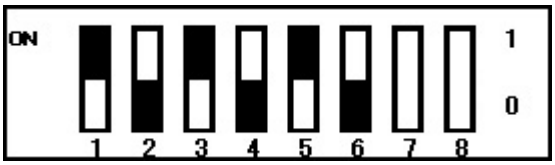
2. Host Link Unit C200H-LK201

1) Front Switch Settings SW1 SW2 SW3 SW4	1) Front Switch Settings 0: Station No. Settings (× 10) 0: Station No. Settings (× 1) 6: Baud Rate Settings (19200bps) 2: (Parity/Data/Stop Bit Settings) Parity Bit: Even Data Bit: 7 Bits Stop Bit: 2 Bits
2) Back Dipswitch Settings **Set the switches to the black.** ON ← 01 02 03 04	2) Back Dipswitch Settings SW1: Unused SW2: Unused SW3 (Relation): 1 to n SW4 (5V Power Supply): No
3) CTS Switch Settings OFF ON	3) CTS Switch Settings ON (Turning CTS ON)

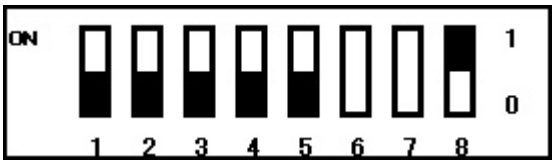
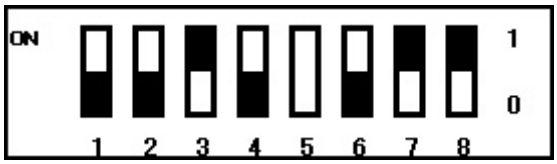
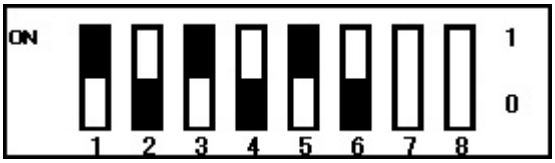
3. Host Link Unit C200H-LK202

1) Front Switch Settings	1) Front Switch Settings
SW1  SW2  SW3  SW4 	0: Station No. Settings (× 10) 0: Station No. Settings (× 1) 6: Baud Rate Settings (19200bps) 2: (Parity/Data/Stop Bit Settings) Parity Bit: Even Data Bit: 7 Bits Stop Bit: 2 Bits
2) Relation Switch Settings 	2) Relation Switch Settings OFF (1 to n Relation)
3) Termination Resistance Connection Switch Settings 	3) Termination Resistance Connection Switch Settings ON (With Termination Resistance)

4. Host Link Unit C120-LK201-V1

1) Dipswitch 1 Settings **Set the switches to the black.**  	1) Dipswitch 1 Settings SW1 – 5 (Station No.): 0 SW6 – 7: Unused SW8 (Run/Stop): Run
2) Dipswitch 2 Settings **Set the switches to the black.**  	2) Dipswitch 2 Settings SW1 – 4 (Baud Rate): 19200bps SW5: Unused SW6 (Relation): 1 to n SW7 – 8 (Level Settings): Level 1, 2, and 3 are valid.
3) Dipswitch 3 Settings **Set the switches to the black.**  	3) Dipswitch 3 Settings SW1 – 2 (CTS Signal): Always ON SW3 – 6 (Sync): Internal Sync SW7 – 8: Unused

5. Host Link Unit C120-LK202-V1

6) Dipswitch 1 Settings **Set the switches to the black.**  	6) Dipswitch 1 Settings SW1 – 5 (Station No.): 0 SW6 – 7: Unused SW8 (Run/Stop): Run
2) Dipswitch 2 Settings **Set the switches to the black.**  	2) Dipswitch 2 Settings SW1 – 4 (Baud Rate): 19200bps SW5: Unused SW6 (Relation): 1 to n SW7 – 8 (Level Settings): Level 1, 2, and 3 are valid.
3) Dipswitch 3 Settings **Set the switches to the black.**  	3) Dipswitch 3 Settings SW1 – 6 (Terminal Resistance): On SW7 – 8: Unused