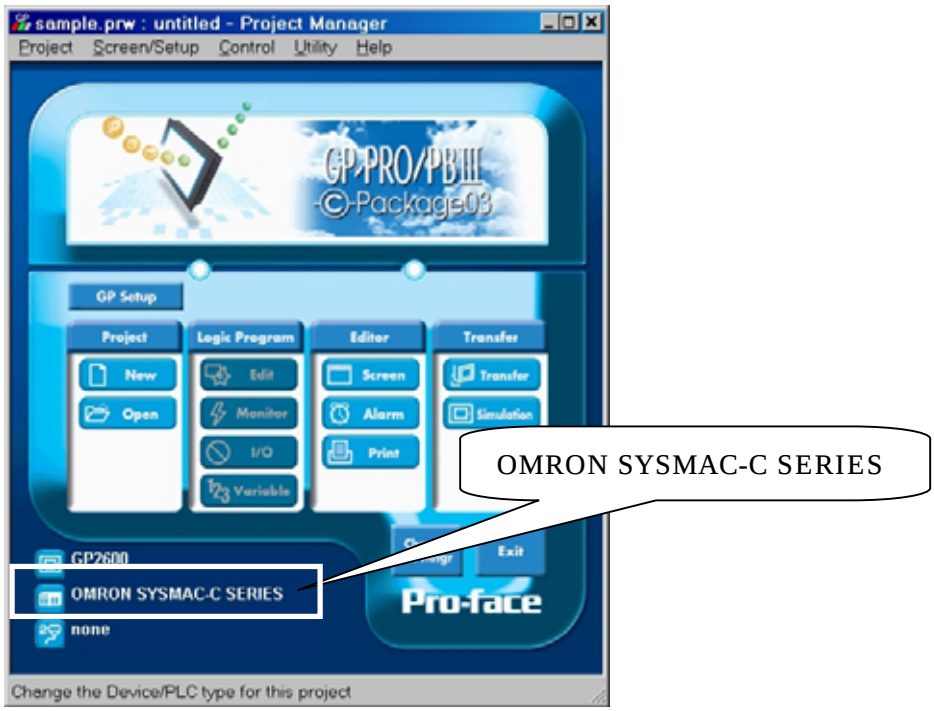
OMRON Corporation PLC
SYSMAC C Series Connection

Selecting PLC Type

Start up GP-PRO /PBIII.

Select the following PLC Type when creating the project file.



Communication Setting Sample

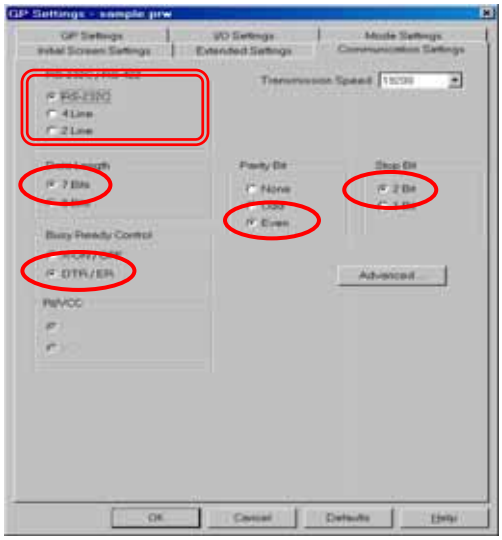
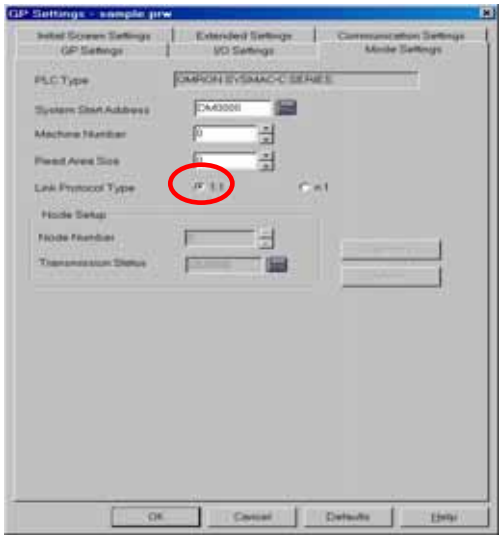
■ SYSMAC-C Series

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 (RS-232)	RS-232C
Communication Format (RS-422)	4 Line	Communication Format (RS-422)	RS-422
————		Command Level	Level 1,2,and 3 are
————		Relation	1 to n
————		5V Power Supply	No
————		CTS Setup	Normally ON
Unit No.	0	Station Number	0

Communication Settings [GP]

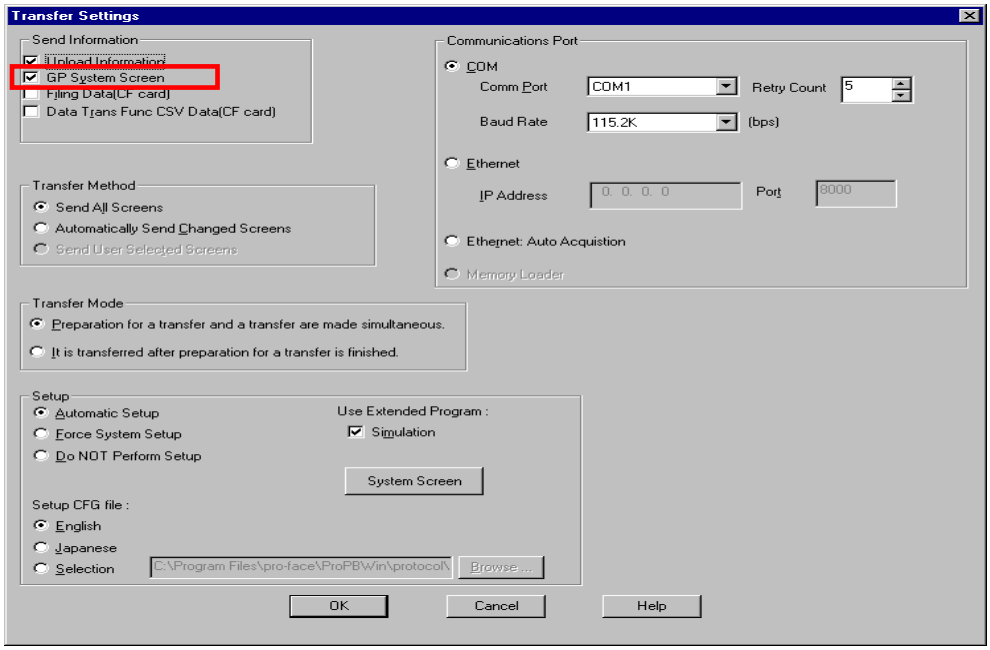
1. [GP-PRO/PBIII C-Package Setting]

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

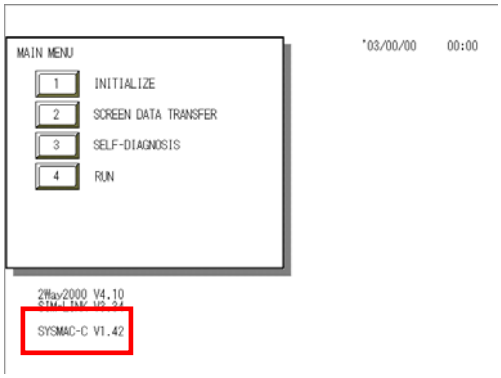
Transfer to GP after settings completed.

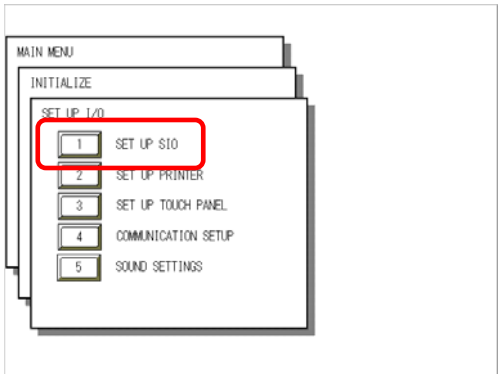
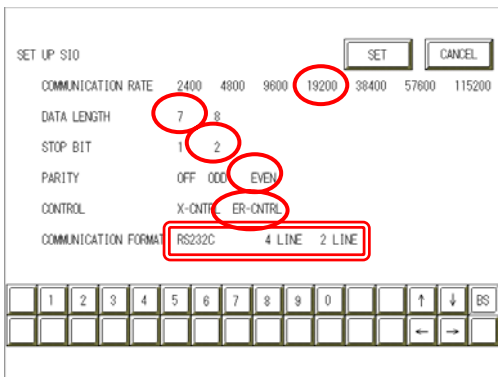
2. [GP Settings]

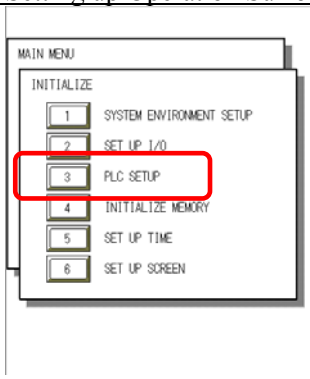
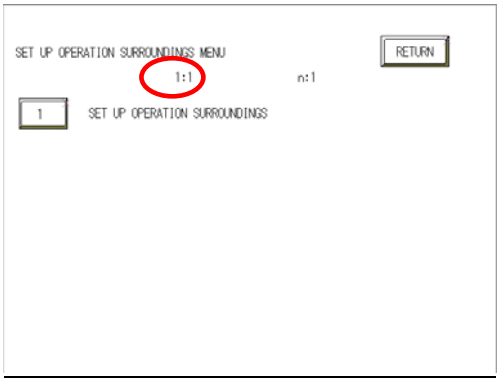
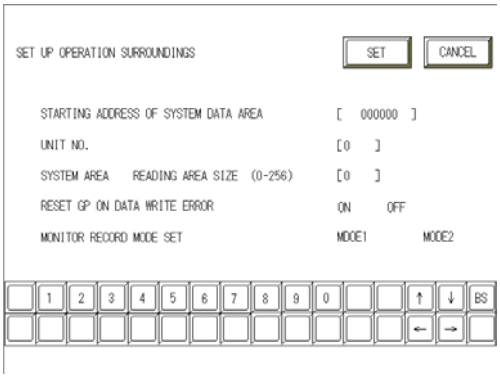
—Displaying Setting Screen—

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].

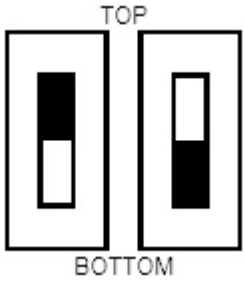
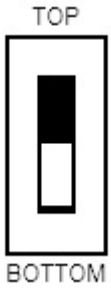
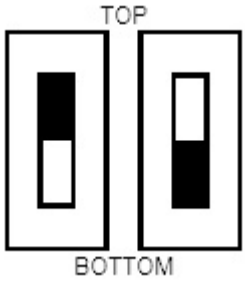
1) Checking GP Type	1) Checking GP Type
	If you have selected OMRON SYSMAC-C Series, following will be shown. "SYSMAC-C"

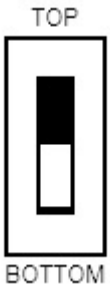
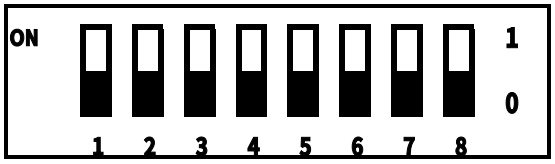
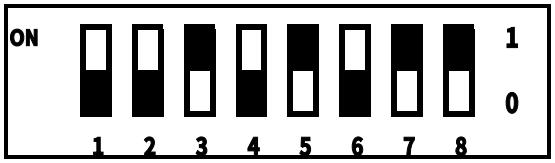
2) Communication Settings	2) Communication Settings
	[MAIN MENU] ↓ [INITIALIZE] ↓ [SET UP I/O] ↓ [SET UP SIO]
	Communication Rate: 19200bps Data Length: 7 Bits Stop Bit: 2 Bits Parity: Even Control: ER Cntrl Communication Format RS-232C Connection: RS-232C RS-422 Connection: 4 Line * Select one in ▭.

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

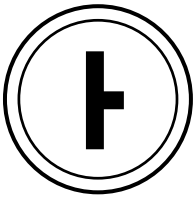
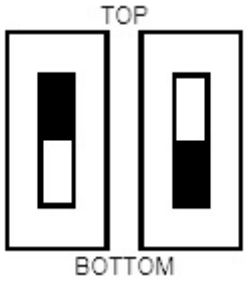
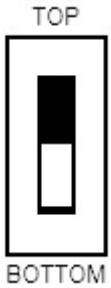
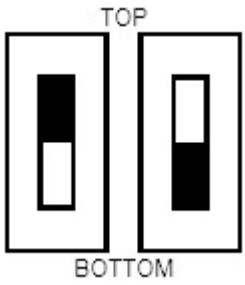
Communication Settings [PLC]

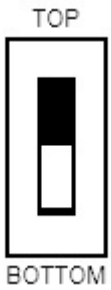
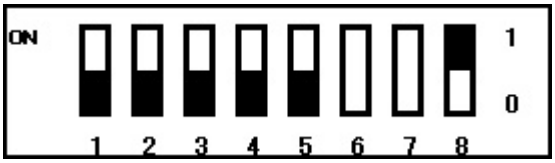
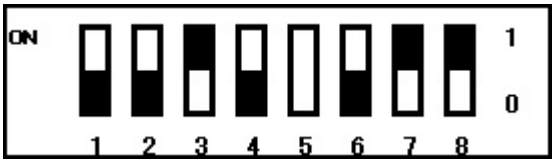
1. Host Link Unit C500-LK203 (RS-232C/RS-422 Switchable)

1) 5V Output Switch Settings  	1) 5V Output Switch Settings Bottom (Not Supply)
2) I/O Port Switch Settings  	2) I/O Port Switch Settings Top (RS-422) Bottom (RS-232C)
3) Sync Switch Settings  	3) Sync Switch Settings Top (Internal)
4) Termination Resistance Connection Switch Settings  	4) Termination Resistance Connection Switch Settings RS-232C: Top (Without Termination Resistance) RS-422: Bottom (With Termination Resistance)

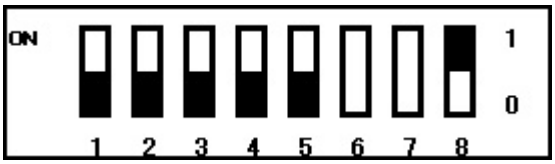
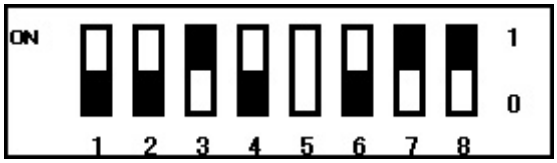
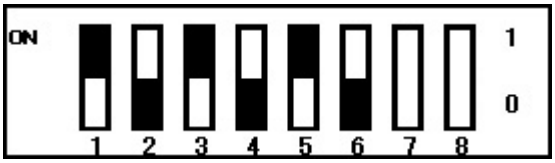
5) CTS Switch Settings  	5) CTS Switch Settings Top (0V)
6) Dipswitch 1 Settings **Set the switches to the black.**  	6) Dipswitch 1 Settings SW1 – 5 (Station No.): 0 SW6 – 7 (Bit Settings): See below. Data Length: 7 Bits Stop Bit: 2 Bits Parity Bit: Even SW8 (Monitor / Normal): Normal
7) Dipswitch 2 Settings **Set the switches to the black.**  	7) Dipswitch 2 Settings SW1 – 4 (Baud Rate): 19200bps SW5 (System): ON SW6 (Relation): 1 to n SW7 - 8 (Level Settings): Level 1,2, and 3 are valid

2. Host Link Unit C500-LK201-V1 (RS-232C/RS-422 Switchable)

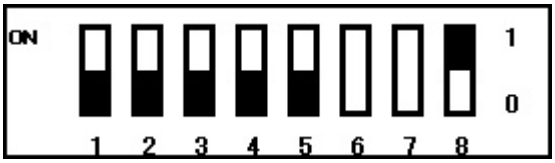
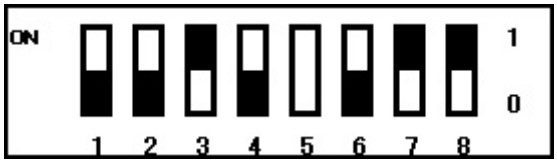
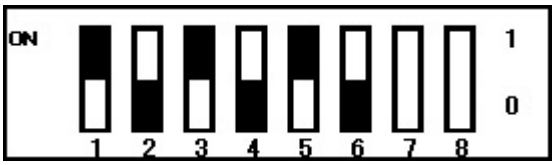
1) Mode Control Switch Settings  * Set to Host Link.	1) Mode Control Switch Settings Host Link
2) I/O Port Switch Settings 	2) I/O Port Switch Settings Top (RS-422) Bottom (RS-232C)
3) Sync Switch Settings 	3) Sync Switch Settings Top (Internal)
4) Termination Resistance Connection Switch Settings 	4) Termination Resistance Connection Switch Settings RS-232C: Top (Without Termination Resistance) RS-422: Bottom (With Termination Resistance)

5) CTS Switch Settings  	5) CTS Switch Settings Top (0V)
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
7) Dipswitch 2 Settings **Set the switches to the black.**  	7) Dipswitch 2 Settings SW1 – 4 (Baud Rate): 19200bps SW5 (System): ON SW6 (Relation): 1 to n SW7 – 8 (Level Settings): Level 1, 2, and 3 are valid.

3. 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

4. Host Link Unit C120-LK202-V1

1) 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