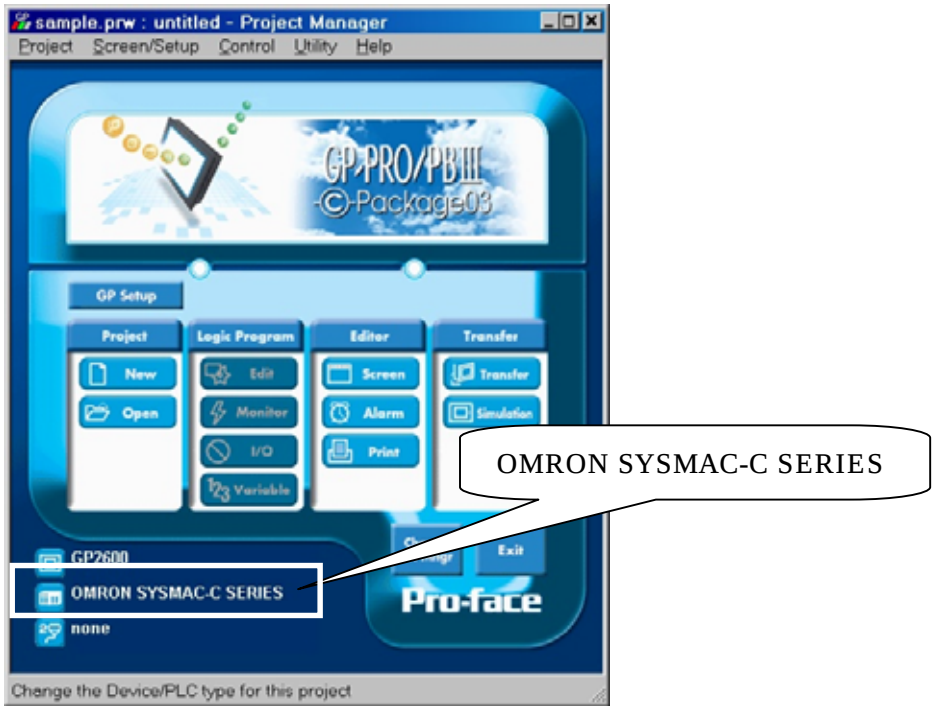
OMRON Corporation PLC
SYSMAC C Series CPU Direct Connection

Selecting PLC Type

Start up GP-PRO /PBIII.

Select the following PLC Type when creating the project file.



Communication Setting Sample

- SYSMAC C Series

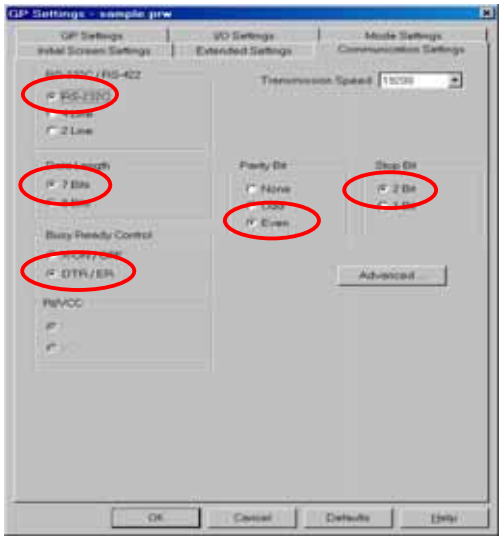
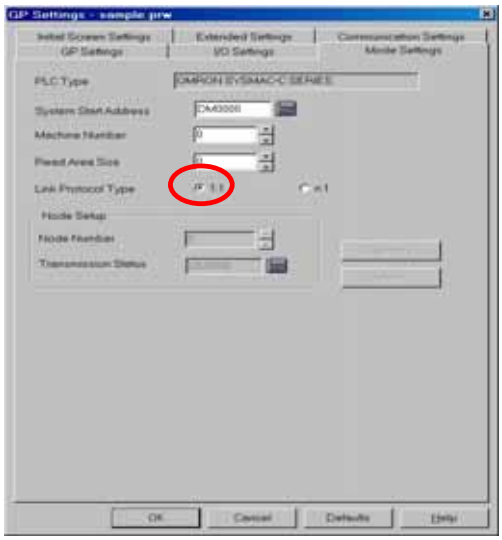
GP Setup		PLC Setup	
Baud Rate	19200bps	Baud Rate	19200bps
Data Length	7 bits	Data Length	7 bits
Stop Bit	2 bits	Stop Bit	2 bits
Parity Bit	Even	Parity Bit	Even
Data Flow Control	ER Control	———	
Communication Format	RS-232C	Communication Format	RS-232C
———		Command Level *1	Level 1,2, and 3 are valid
———		Relation *1	1 to n
———		DC + 5V Power Supply *1	No
———		CTS Setup *1	Nomally ON
———		Mode Setup *2	Host Link
———		Communication *3 Condition Setting Switch	OFF
———		Communication Port *4 Function Settings Switch	SW1:OFF SW2:ON
Unit No.	0	Station No.	0

*1 This setup is unavailable for the RS-232C port on C200HS, CQM1, and CPH2A.
*2 This setup is available only for the RS-232C port on C200HS and CQM1.
*3 This setup is available only for CPM2A.
*4 This setup is available only for CPM2C.

Communication Settings [GP]

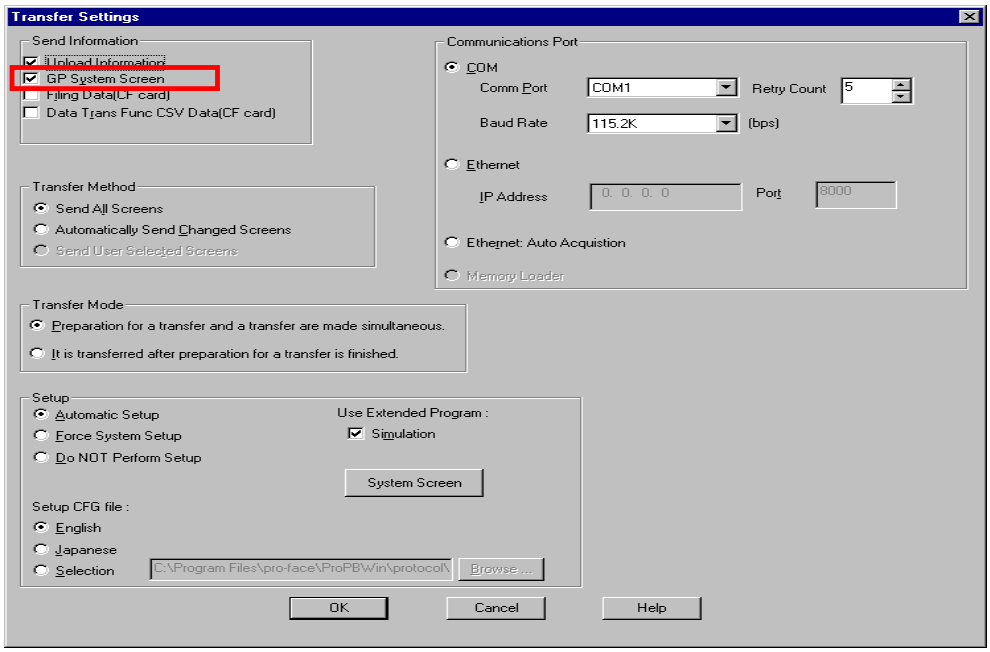
1 [GP-PRO/PBⅢ C-Package Setting]

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
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

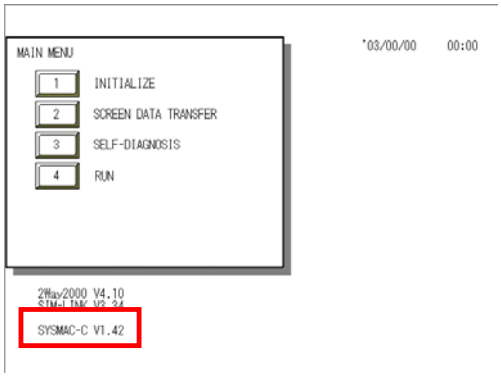
Transfer to GP after settings completed.

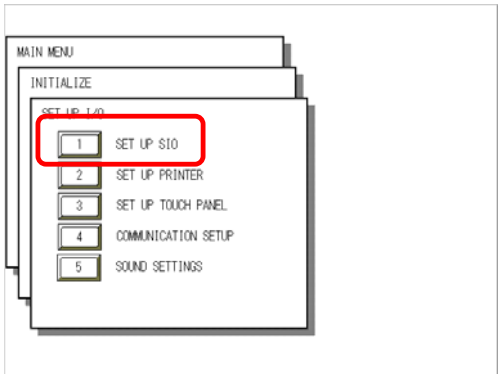
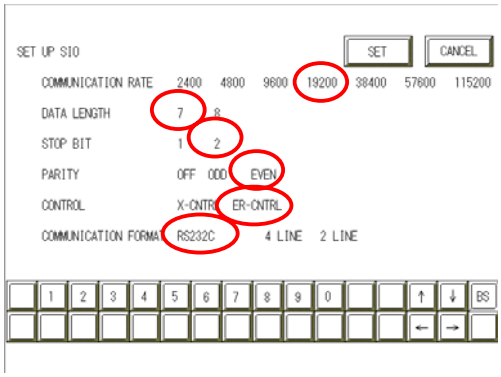
2. [GP Settings]

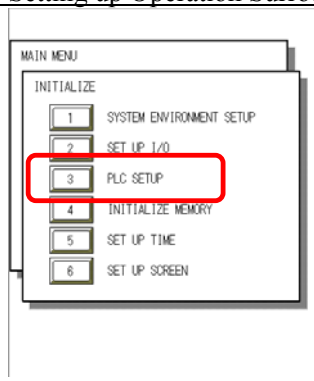
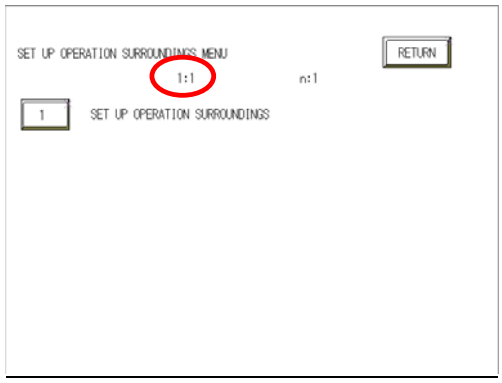
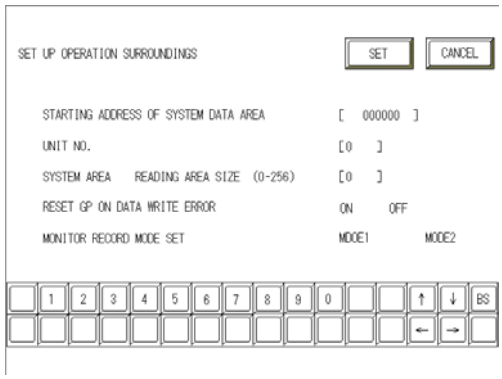
－Displaying Setting Screen－

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 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

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. Peripheral Port Connection on CPU Unit

Word Address	Value	Setting Contents
DM6650	0001 (HEX)	Depending on the settings of DM6651 Mode Setup: Host Link
DM6651	0304 (HEX)	Baud Rate: 19200bps Data Length: 7 Bits Stop Bit: 2 Bits Parity Bit: Even
DM6653	0000 (HEX)	Host Link Station No. Settings: Station No. 0

* To connect CQM1, CQM1H, or C200HS, please make sure to turn OFF the mode setup switch SW5 on the CPU unit.

* To connect CPM2C, set SW1 and SW2 of "Communication Port Function Setting Switch" as below.

SW1 : OFF

SW2 : ON