Connecting Rockwell (Allen-Bradley) PLC

MicroLogix 1200/1500 Series -Serial

Communication Setting Sample

MicroLogix 1200/1500 Series

GP Settings		PLC Settings	
Speed	19200bps	Baud Rate	19200bps
Data Length	8bits	—	—
Stop Bit	1bit	—	—
Parity	Even	Parity	Even
Flow Control	ER (DTR/CTS)	—	—
SIO Type	RS-232C	—	—
DH Address GP DH Address PLC*1	0 to 254	Node Address	0 to 254
SIO Type	RS-232C	—	—
—	—	Driver	DF1 Half Duplex Slave
—	—	Control Line	No Handshaking
—	—	Error Detection	BCC
—	—	EOT Suppression	Not Checked
—	—	Duplicate Packed Detect	Not Checked
—	—	Poll Timeout	3000
—	—	Message Retries	3
—	—	Pre Transmit Delay	0

*1 Set with same address for [DH Address GP] and [DH Address PLC]

Selecting PLC Type

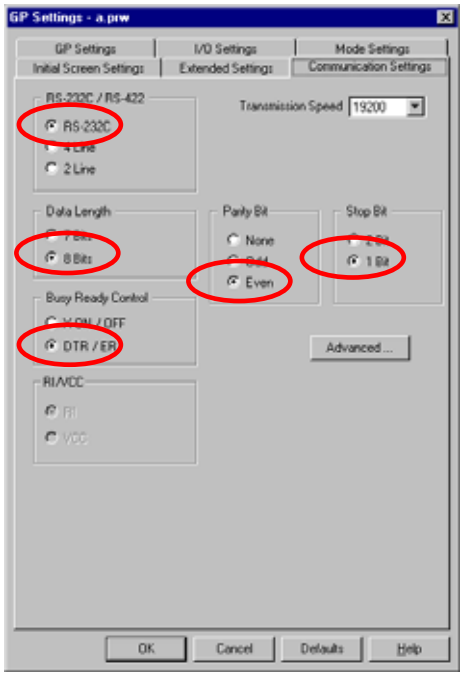
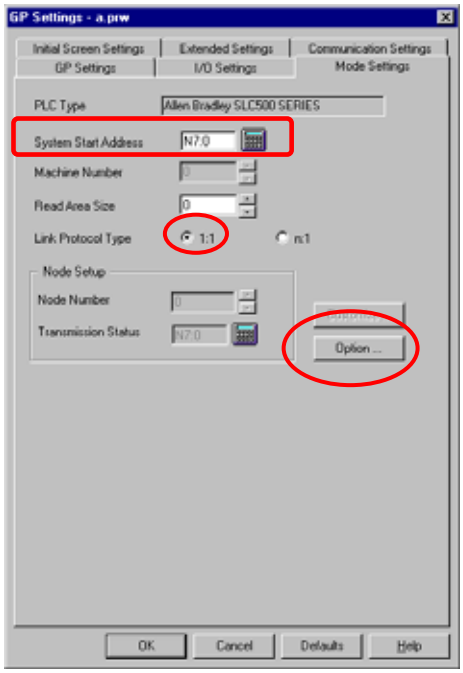
Start up GP-PRO /PBIII.

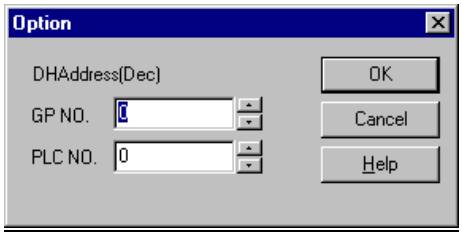
Select the following PLC Type when creating the project file.

Communication Settings [GP]

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

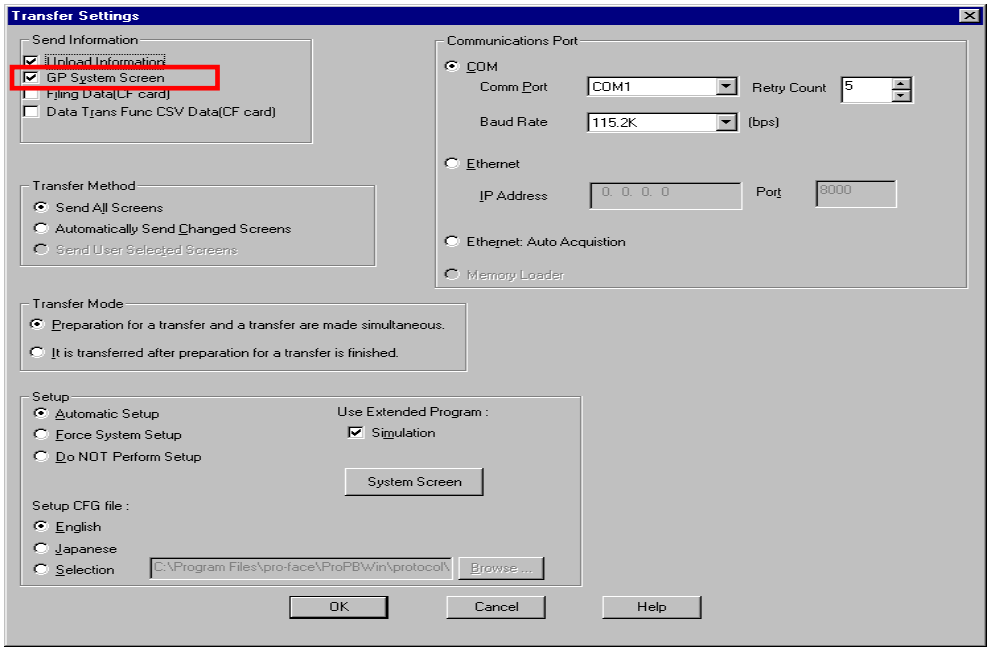
Select [GP Setup] on Project Manager.

1) Communication Settings 	1) Communication Settings Transmission Speed : 19200bps Data Length : 8 Bits Stop Bit : 1 Bit Parity Bit : Even Busy Ready Control : DTR / ER RS-232C/ RS-422 : RS-232C
2) Mode Settings 	2) Mode Settings System Start Address: The N device is fixed. Array No. and Element No. are set arbitrarily. Link Protocol Type : 1:1

3) Mode Settings（DH Address Settings）	3) Mode Settings（DH Address Settings）
	Click [Option] to set DH Address. DH Address GP NO.: Arbitrary Address（0 - 255） PLC NO.: Arbitrary Address（0 - 255） * GP No. and PLC No. must be same address.

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

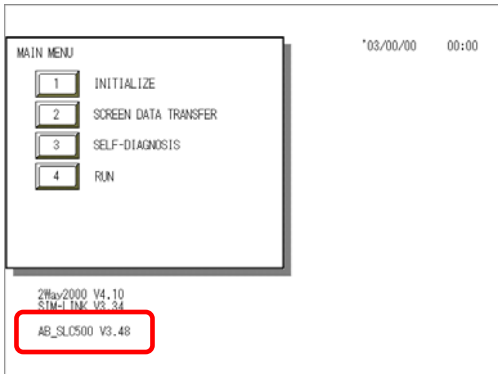
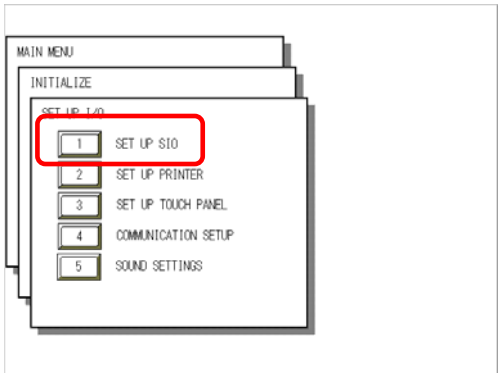
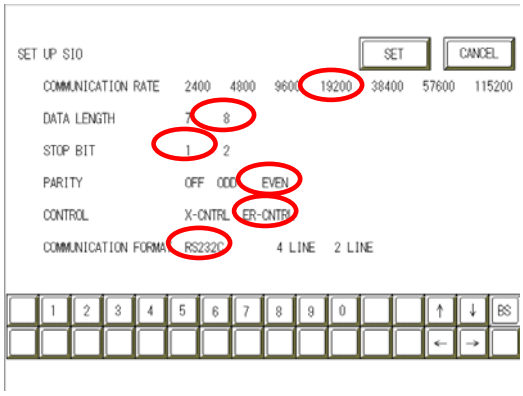
4) Transfer Settings

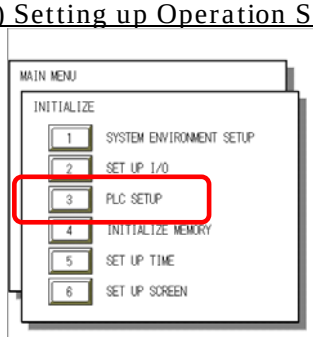
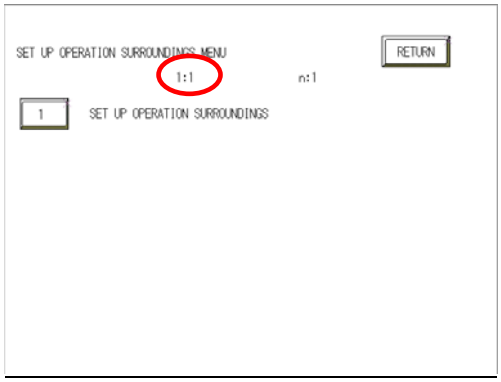
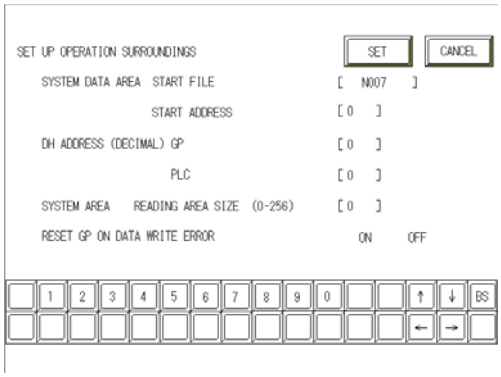


4) Transfer Settings　　GP System Settings: Checked

Transfer to GP after settings completed.

2 [GP Settings]

1) Checking GP Type 	1) Checking GP Type If you have selected Allen-Bradley SLC500 Series, the following will be shown. "AB_SLC500"
2) Communication Settings 	2) Communication Settings [MAIN MENU] ↓ [INITIALIZE] ↓ [SET UP I/O] ↓ [SET UP SIO]
	Communication Rate :19200bps Data Length : 8 Bit Stop Bit :1 Bit Parity :Even Control :ER Communication Format:RS-232C

3) Setting up Operation Surroundings 	3) Setting up Operation Surroundings [MAIN MENU] ↓ [INITIALIZE] ↓ [PLC SETUP] ↓ [PLC SETUP]
	SET UP OPERATION SURRORNDINGS MENU:1:1
	SYSTEM DATA AREA START FILE: The INT device is fixed. Array Number (Arbitrary) START ADDRESS: Element Number (Arbitrary) DH ADDRESS GP : Arbitrary Address（0 - 255） DH ADDRESS PLC : Arbitrary Address（0 - 255） * GP No. and PLC No. must be same address.