

## Connecting Rockwell (Allen-Bradley) PLC

## SLC500 Series (Ethernet)

# Selecting PLC Type

Start GP-Pro/PBIII.

When creating a project file, select the PLC type shown below.





## **Example of Communication Settings**

mmunication settings			1. Communication Settings
GP Settings - non-ame.tm	p	×	Source IP Address (0 to 255)
GP Settings	I/O Settings Extended Settings	Mode Settings Communication Settings	Contact the network administrator about
Source IP Address	0. 0. 0. 0		the IP address to be input.
Source IP Port No.	1024	_	Source IP Port No. (1024 to 65535)
Destination (RAddress	0. 0. 0. 0		Set GP's Port No *1
Destination IP Port No.	1024		Destination IP Address (0 to 255)
kotopol Type Inte Gode	C COP	C TOP C ASOT	This setting is not used. Even if set, it'l
	6 C. G. M.		
			be disabled.
		Advanced	Destination Port No. (1024 to 65535)
			This setting is not used. Even if set, it'l
			be disabled. *1
			Protocol Type
			This setting is not used. Even if set, it'
			be disabled.
			be disabled.
OK	Cancel	Default: Help	
			*1- As the numbers, 8000 to 8999, ar
			used for Pro-Server, do not use them.



#### 2. Mode Settings



Pro-face<sup>®</sup> Let's Connect to PLC! Rockwell (Allen-Bradley) SLC500 series

GP Settings		PLC Settings	
Source IP Address	GP' IP address <sup>*1</sup>		
Source IP Port No.	GP's port No. * <sup>2</sup>		
Network Information	PLC's IP address *1	IP Address	PLC's IP address
Setting			

\*1 Contact your network administrator about the setting values. If the Source IP Address is 0.0.0.0, the IP address set on the 2WAY Driver's side will be effective.

\*2 With GP2000 series, if Internal Ethernet Port is used, set the target port No. that does not overlap with the 2WAY Driver's port No. Check the 2WAY Driver's port number setting via the following menu:

[INITIALIZE]-->[SETUP OPERATION SURROUNDINGS]-->[EXTENDED

SETTINGS]-->[SETUP ETHERNET INFORMATION]. The default value is 8000. The 2WAY

Driver uses this port and the following nine ports for a total of 10 (8000 to 8009).

Important! PLC's Port No. is 2222(fixed). Protocol Type is TCP/IP Connection.

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

Send Information	- Communications P	ort
✓ Upload Information ✓ GP System Screen	© <u>с</u> ом	
✓ GP System Screen Filing Data(CF card)	Comm <u>P</u> ort	COM1   Retry Count
Data T <u>r</u> ans Func CSV Data(CF card)	Baud Rate	115.2K (bps)
	⊂ <u>E</u> thernet	
- Transfer Method Send All Screens	<u>I</u> P Address	0. 0. 0. 0 Por <u>t</u> 8000
Automatically Send Changed Screens     Send User Selected Screens	C Ethernet: Auto A	Acquistion
<ul> <li>Send User Selected Screens</li> </ul>	C Memory Loader	
Enternance e e rate	e Extended Program : Simulation System Screen	
C Selection C:\Program Files\pro-face\ProPB		
OK	Cancel	Help

Transfer to GP after settings completed.



#### 2 [Settings on the GP unit]

1.Checking GP Type	<u>1. Checking GP Type</u>
MAIN MENJ       '03/00/00       00:00         1       INITIALIZE         2       SCREEN DATA TRANSFER         3       SELF-DIAGNOSIS         4       RUN         2/18x2000       V4.10         SILE LINE V3.00         SLC_505_ETHER V1.60	If Allen Bradley SLC5/05(ETHER) is selected, the following display will appear. [SLC505_ETHER]
2. Settings on GP	2. Communication Settings
	SETUP OPERATION SURROUNDINGS
SETUP OPERATION SURROUNDINGS MENU	[MAIN MENU]
1         SETUP OPERATION SURROUNDINGS           2         SETUP ETHERNET INFORMATION	[INITIALIZE]
3 SETUP ETHERNET EXT. INFORMATION 4 DESTINATION NODES INFORMATION	[PLC SETUP]
	[PLC SETUP]
	[SETUP OPERATION SURROUNDINGS]



3. Setup Operation Surroundings	Source IP Address (0 to 255) Set GP's IP Address. Contact your network administrator about the IP address to be set. Source Port No. (1024 to 65535) Set GP's Port No. (from 1024 to 65535).	
1 2 3 4 5 6 7 8 9 0 ↑ ↓ BS	With GP2000 series, if Internal Ethernet Port is used, the source port number that does not overlap with the 2Way Driver's port number must be set. The 2Way Driver's port number can be checked with [INITIALIZE]>[SETUP OPERATION SURROUNDINGS]>[EXTENDED SETUP]>[ETHERNET SETUP]. The numbers from 8000 to 8999 cannot be used because they are used for Pro-Server. If the source IP address is 0.0.0.0., the IP address set on the 2Way side is effective.	
DESTINATION NODE END	Caution! It's not impossible to set or change the destination node information via OFFLINE. Select GP-PRO/PB for Windows's [GP SETUP]>[Mode Settings]>[Network] to set or change it.	