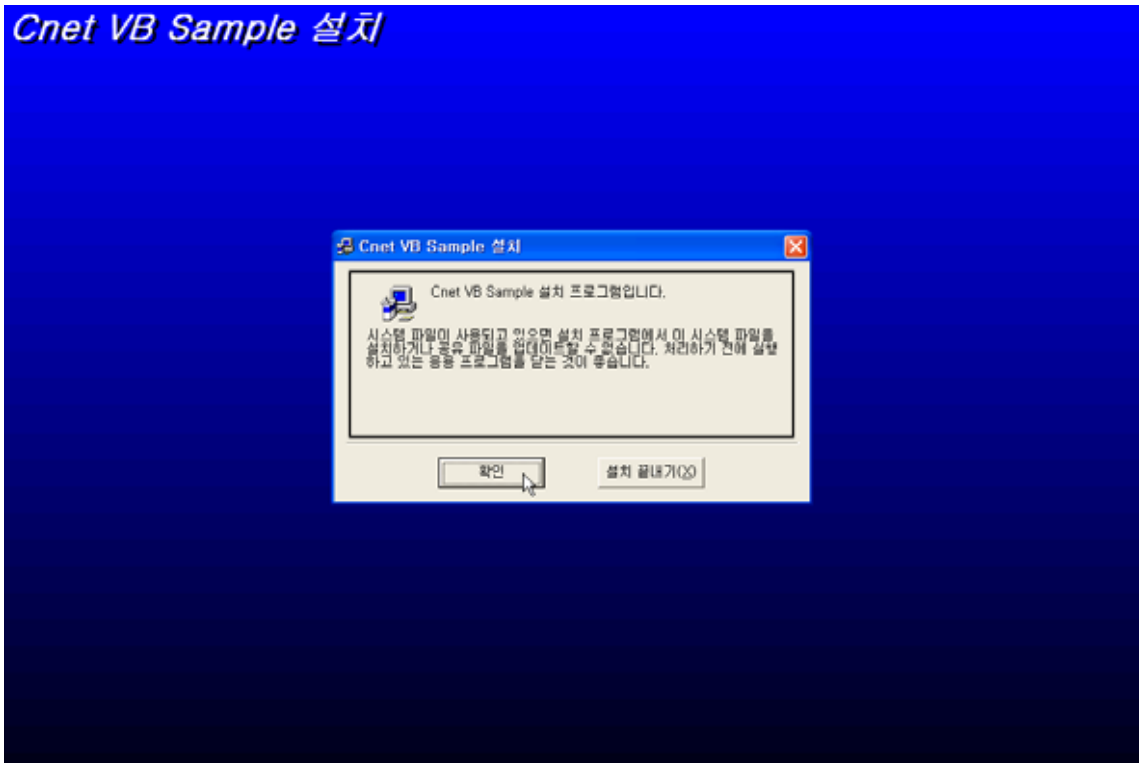
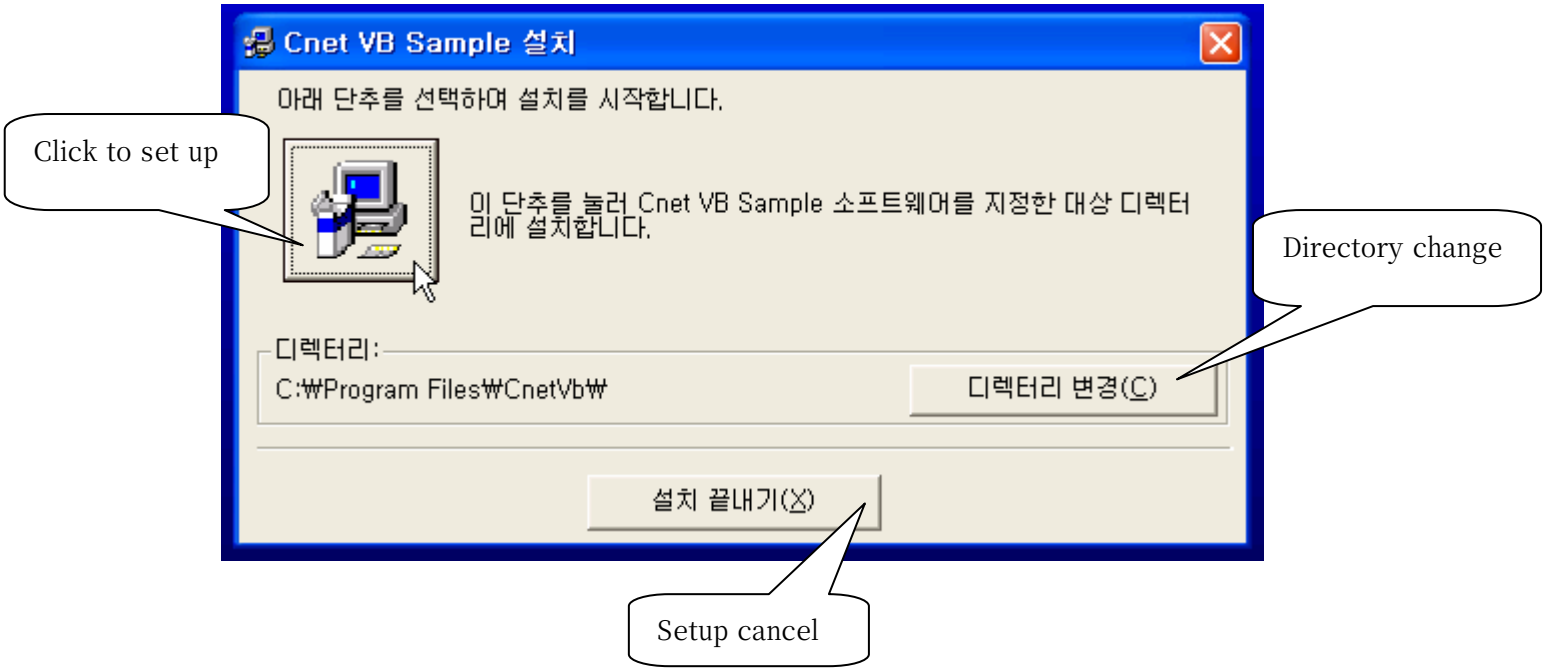
PC---PLC communication using VB program

1. Program Installation: after unzipping CnetVB.zip and run setup.exe and click as follows.



2. Click the button to set up.



PLC control by PC using Visual Basic program

1. Cable connection (in case of GM6/K200S, K120S, GM7/K80S)

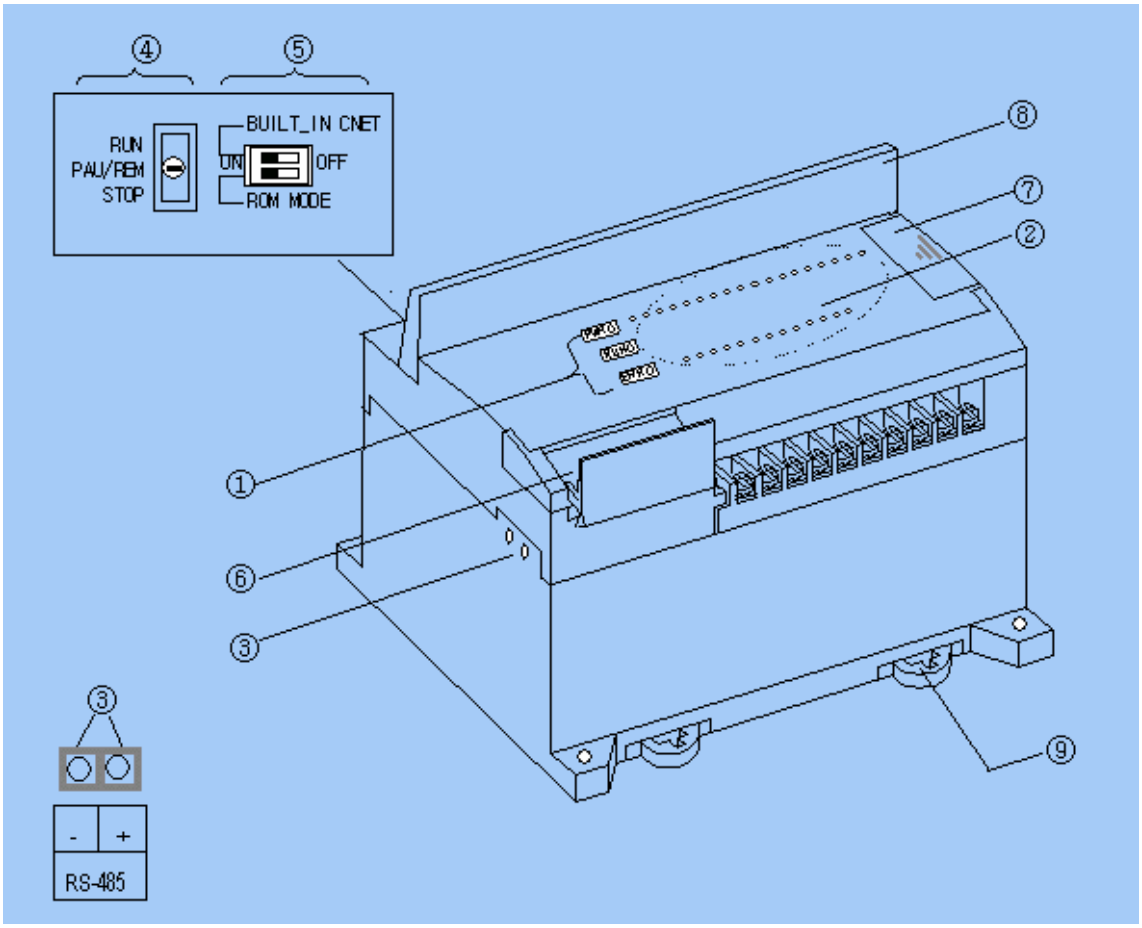
PC---------PLC

2 (RX)----7 (TX)

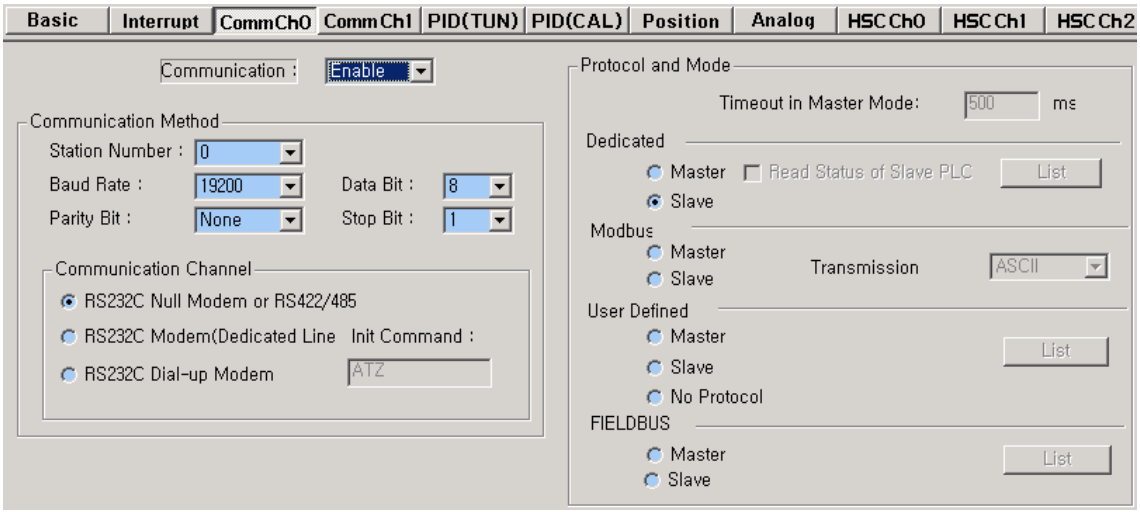
3 (TX)----4 (RX)

5 (SG)----5 (SG)

2. Turn on the built-in Cnet SW at the input part. The following is the main unit of K120S. As it shows, there is built-in Cnet SW embedded inside of input I/O part.



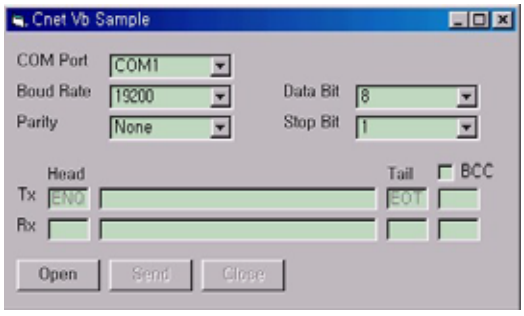
3. Set the basic communication parameter. Here we use CH0 of K120S (built-in RS-232C communication channel).



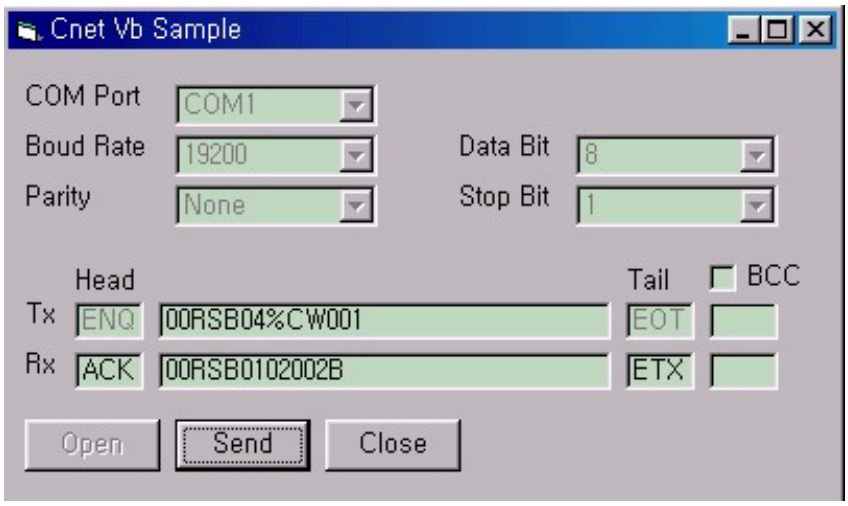
4. Make a program.

5. Now, we are going to read the current value of C0 and write D0 and make D0 move to P0 as output.

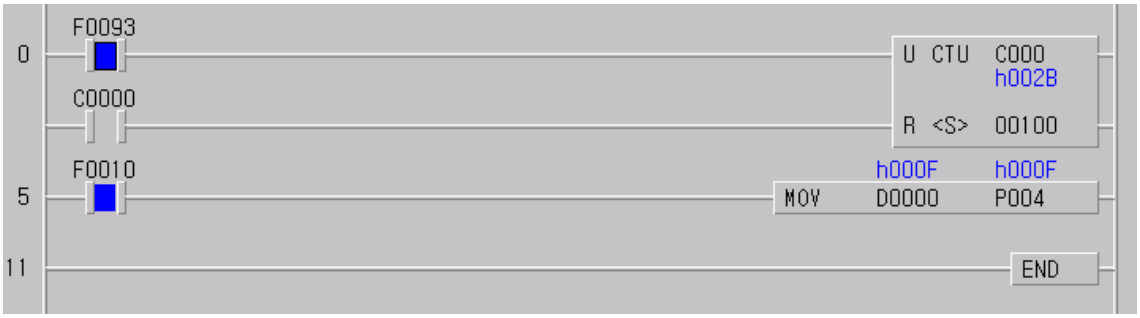
6. Run Cnet VB program and set the basic parameter identical to those of K120S. And click ‘Open’ button.



7. Type RSB command (data read as block) fit to K120S dedicated protocol (frame structure), which is shown in K120S English manual chapter 8.

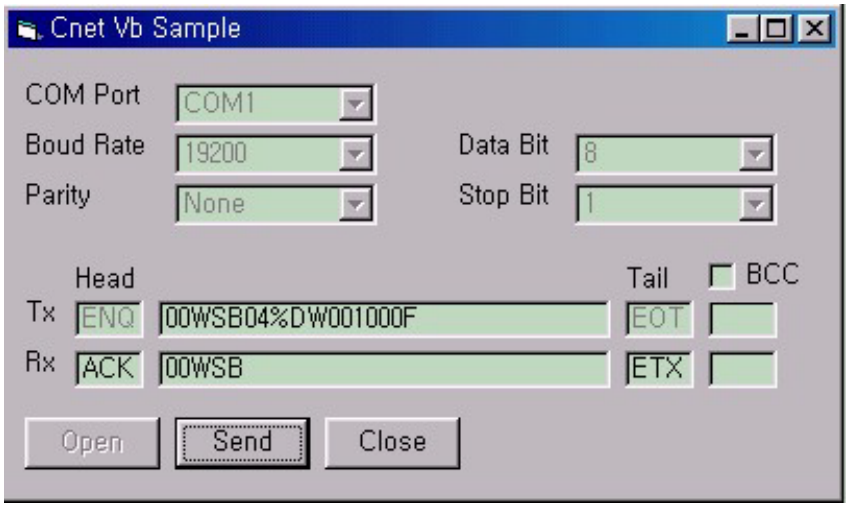


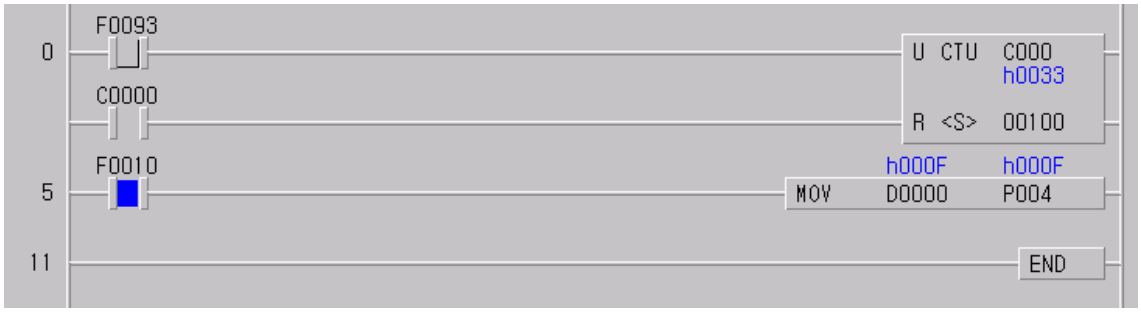
Click ‘Send’ button and you will see its response. The current value of C0 is 2B as is shown in KGLWIN program.



8. Type WSB command (data write as block) fit to K120S dedicated protocol (frame structure), which is shown in chapter 8 of K120S English manual.

Click ‘Send’ button and you will see its response. H000F (hexadecimal) value is written in D0 and it moved to P0 as operated in KGMWIN program.





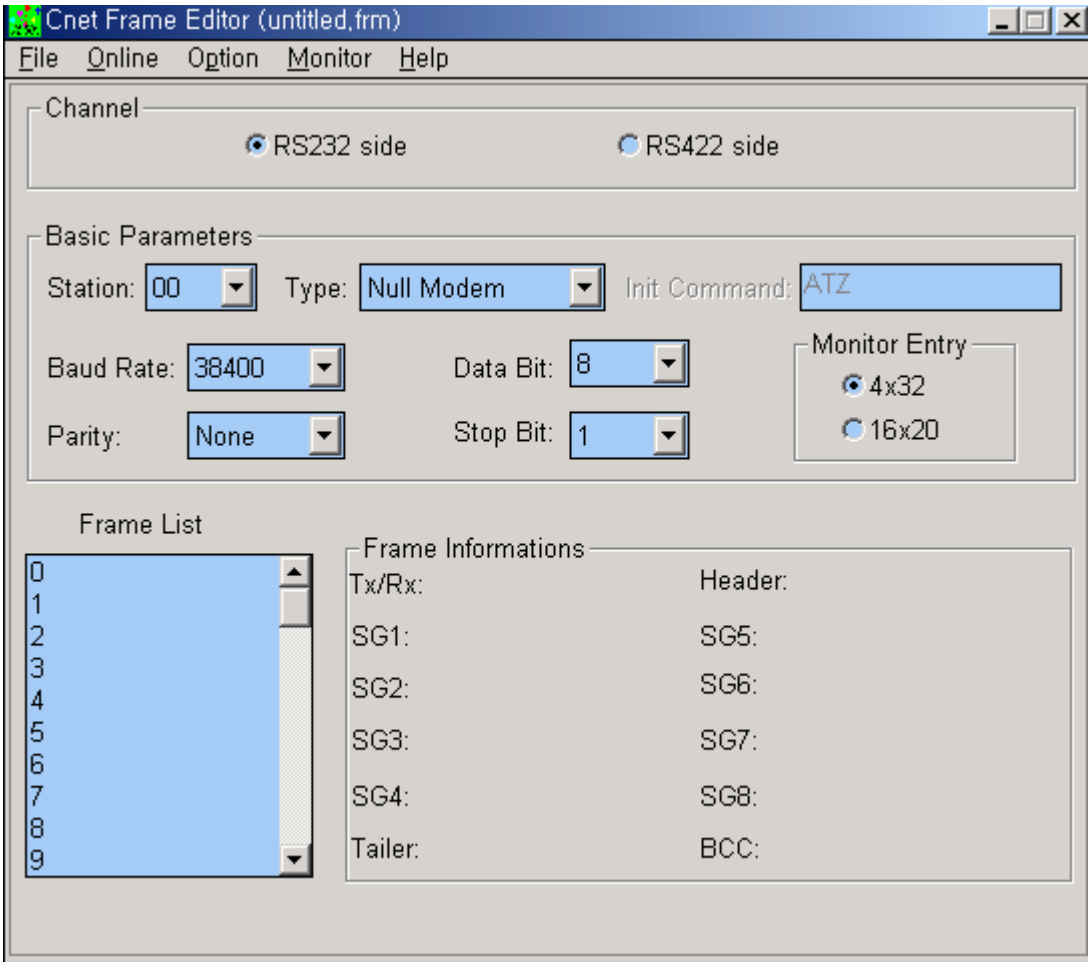
Note: If you use Cnet module instead the built-in Cnet, the difference from the above is:

1) cable connection

[Figure 4.6] Connection of 3-wire type (without handshake)

Cnet(9-PIN)		Connection No. and signal direction	Computer/communication devices
Pin No.	Name		Name
1	CD		CD
2	RXD		RXD
3	TXD		TXD
4	DTR		DTR
5	SG		SG
6	DSR		DSR
7	RTS		RTS
8	CTS		CTS
9	RI		RI

2) Parameter setting in Cnet module which is done by Cnet Frame Editor not in parameter section of KGLWIN program.



3) If you use GLOFA PLC, then you need to use GLOFA protocol to communicate with GLOFA PLC using this Visual Basic program. And Cnet frame editor setting is needed when it comes to Cnet I/F module is applied to PC-PLC communication.