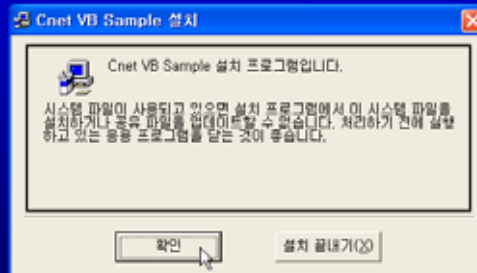


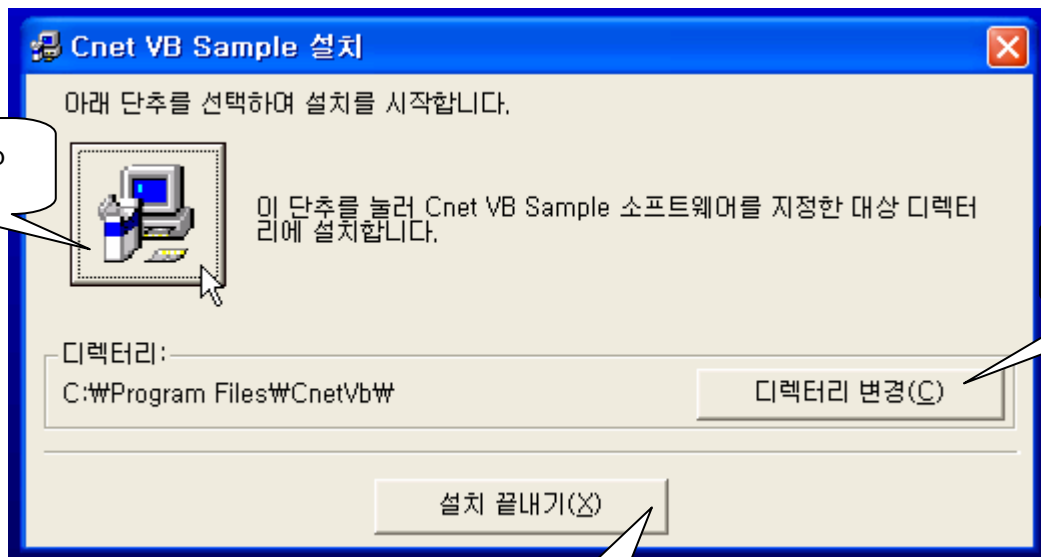
PC---PLC communication using VB program

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

Cnet VB Sample 설치



2. Click the button to set up.



Click to set up

Directory change

Setup cancel

PLC control by PC using Visual Basic program

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

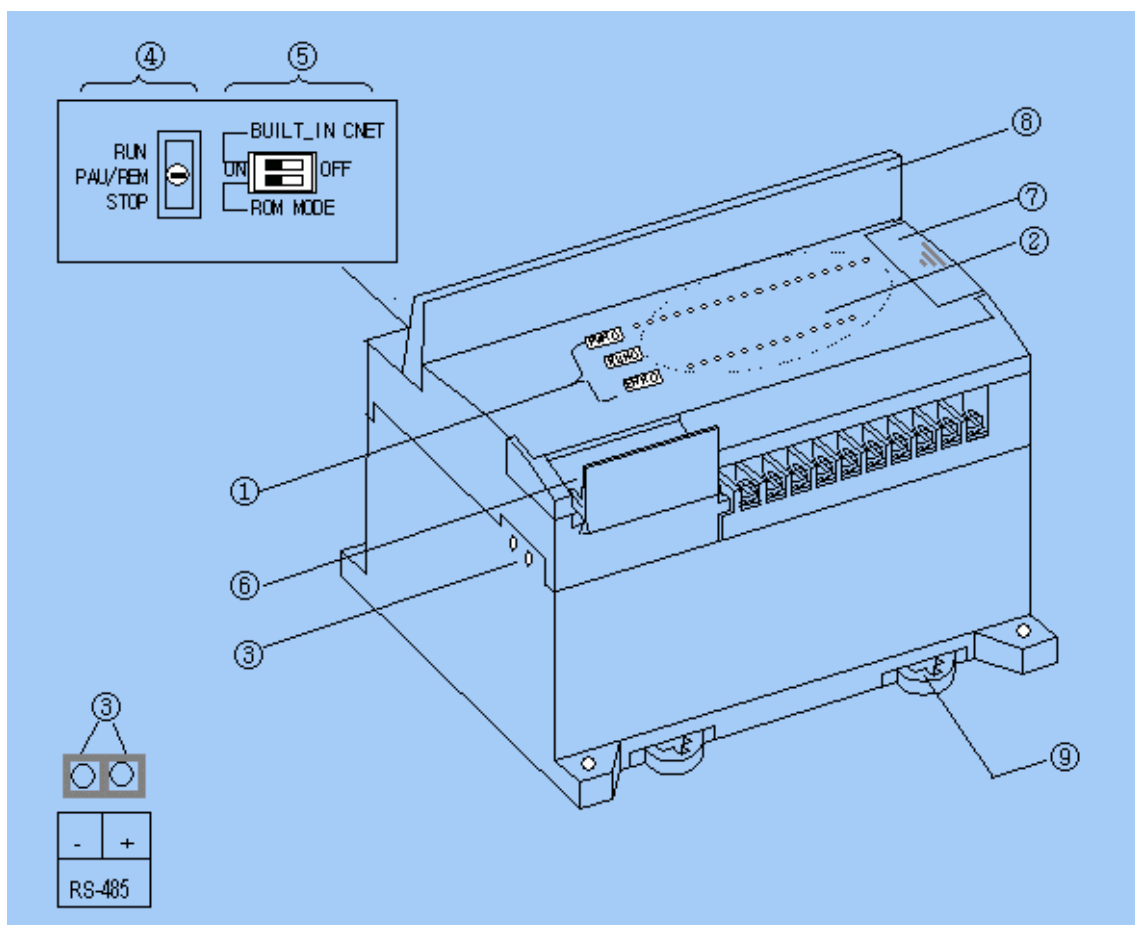
PC-----PLC

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

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

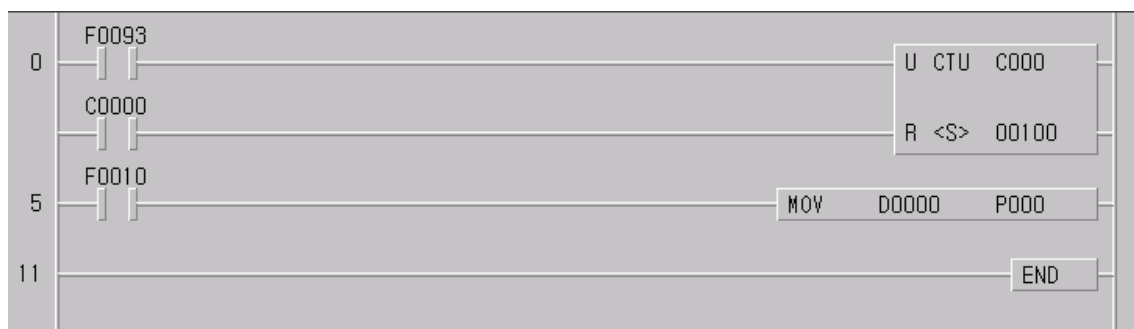
5 (SG)----5 (SG)

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.

Cnet Vb Sample

COM Port: COM1

Boud Rate: 19200

Parity: None

Data Bit: 8

Stop Bit: 1

Head: ☒ Tail: ☒ BCC: ☐

Tx: ENQ 00RSB04%CW001 EOT

Rx: ACK 00RSB0102002B ETX

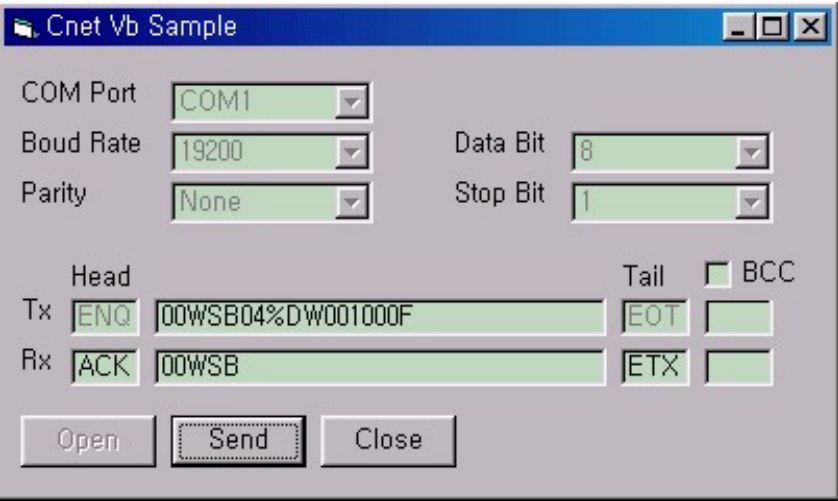
Open Send Close

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



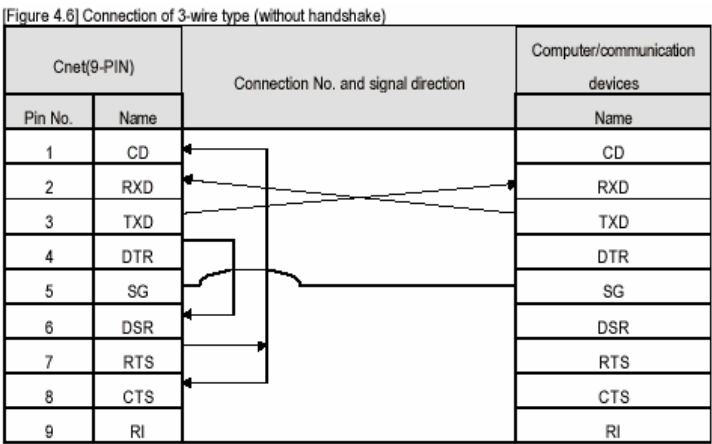
8. Type WSB command (data write as block) fit to K120S dedicated protocol (frame structure), which is shown in chapter 8 of K120S English manual.

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



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

The screenshot shows the 'Cnet Frame Editor (untitled.frm)' window with the following settings:

- Channel:** ☒ RS232 side, ☐ RS422 side
- Basic Parameters:**
 - Station: 00, Type: Null Modem, Init Command: ATZ
 - Baud Rate: 38400, Data Bit: 8
 - Parity: None, Stop Bit: 1
 - Monitor Entry: ☒ 4x32, ☐ 16x20
- Frame List:** A list of 10 frames (0-9) is shown on the left.
- Frame Informations:** A table on the right showing fields for Tx/Rx, Header, SG1-SG8, Tailer, and BCC.

Frame Informations	
Tx/Rx:	Header:
SG1:	SG5:
SG2:	SG6:
SG3:	SG7:
SG4:	SG8:
Tailer:	BCC:

- 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.