Classification:
Software Development for I-7000/M-7000 series

Question How to access M-7026 by using DCON commands in LabVIEW?

Answer

Refer to the following for a detailed description of the configuration process:

Step 1:

Install the DCON Utility Pro on your PC, and then run the DCON Utility Pro to set the protocol to "DCON" for the M-7026. The DCON Utility Pro can be downloaded from the ICP DAS web site:
http://www.icpdas.com/en/download/index.php?nation=US&kind1=&model=&kw=DCON+Utility+Pro

1. Click the "COM Port" button to select the COM Port that the M-7026 is connected to on the PC, then
select the appropriate Baud Rate, Protocol, Checksum and Format settings depending on the configuration of the M-7026 and click the "OK" button.
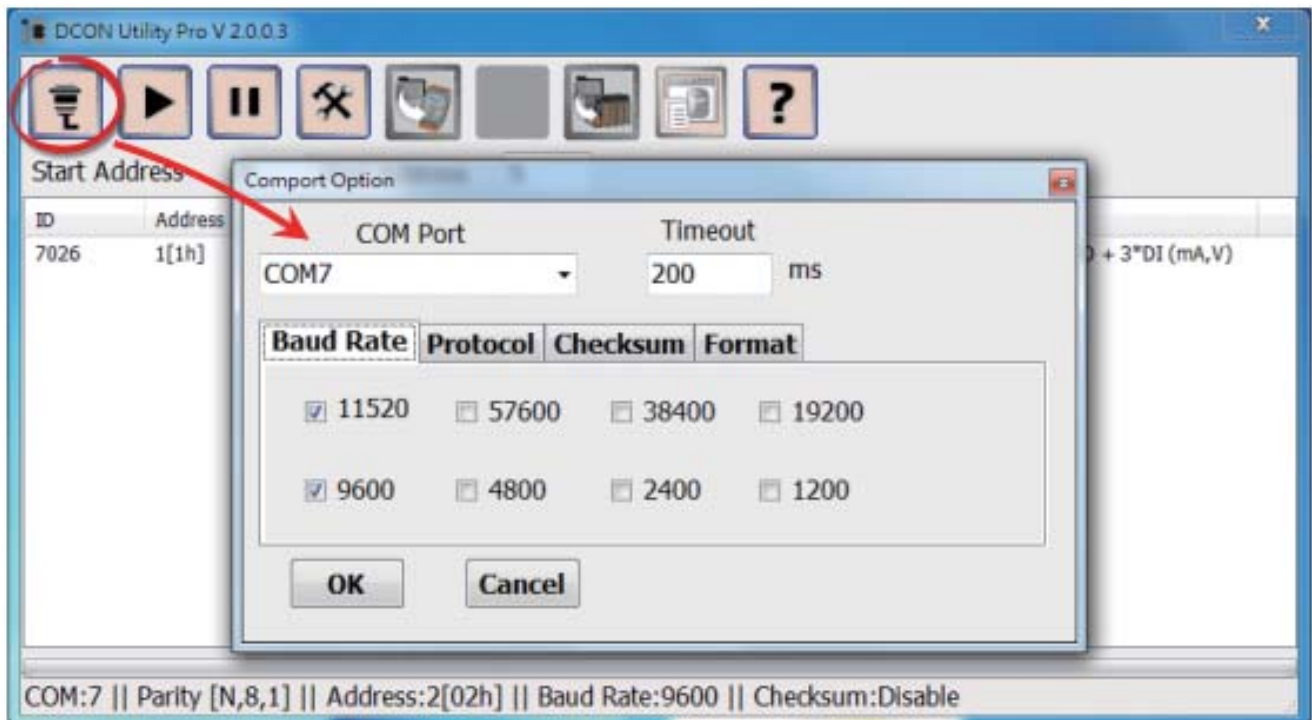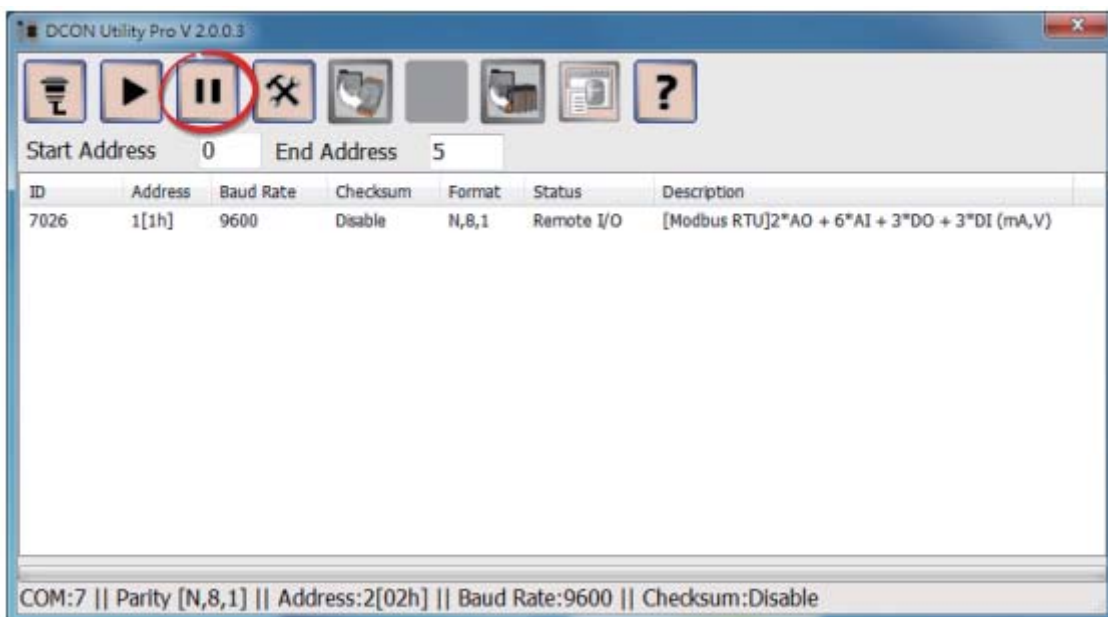
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2. Click the "Start Search" button to start searching for the M-7026, as illustrated below. Once the M-7026 is identified, it will be displayed in the search results panel of the DCON Utility Pro.
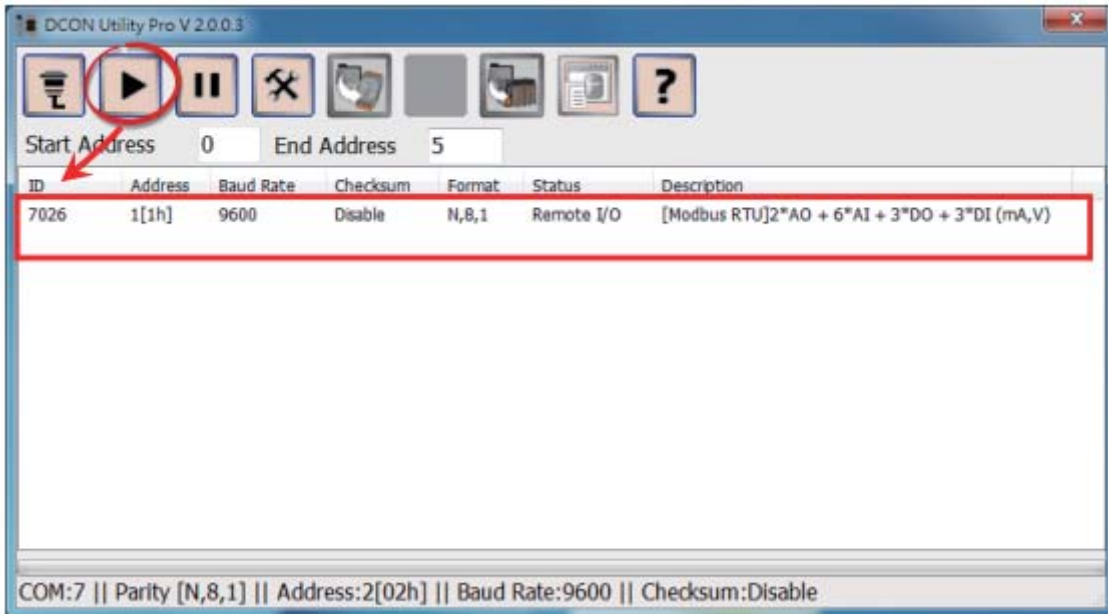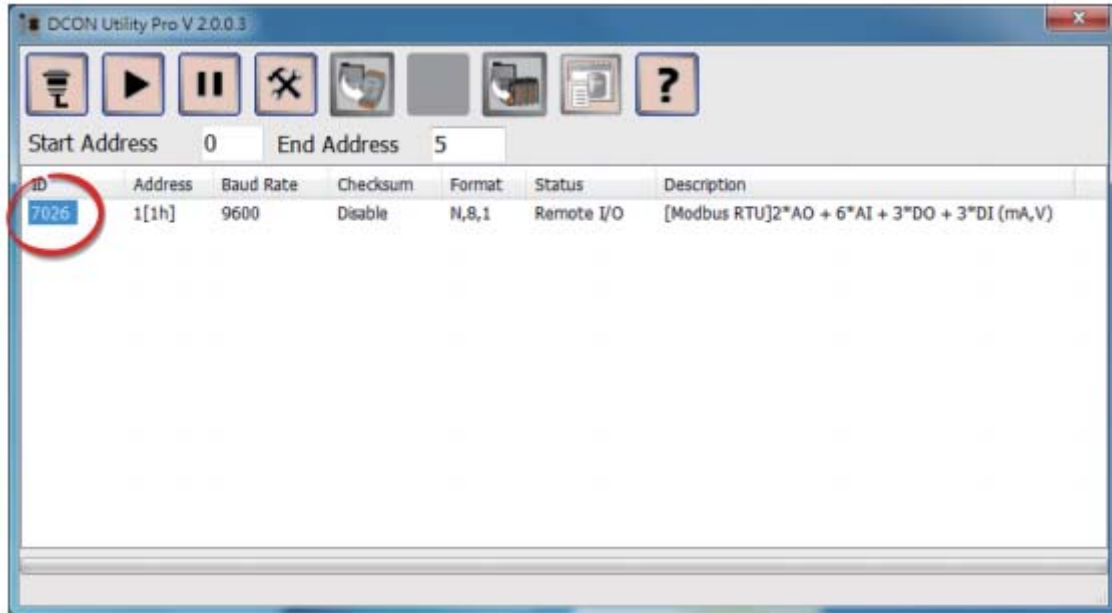

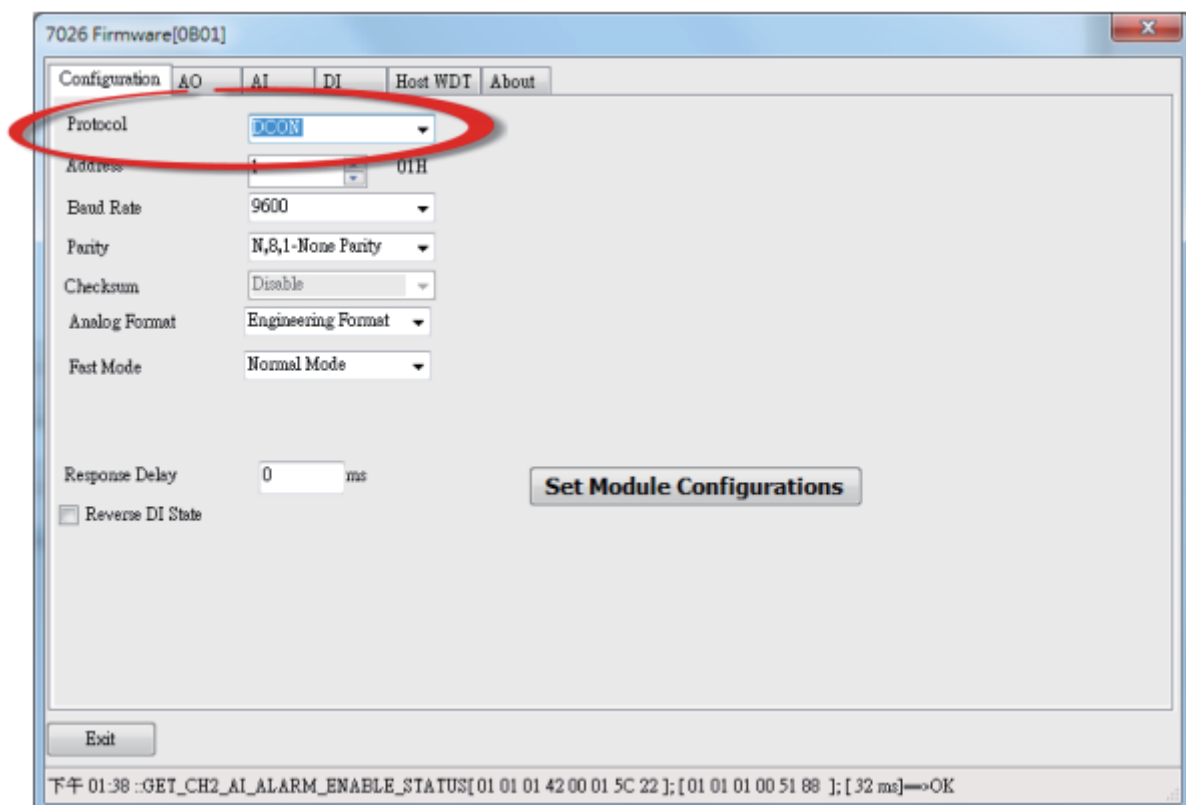3. Click the "Stop Search" button to stop the search.

4. Double click on the module name to open the "7026 Firmware [0B01]" dialog box.

5. In the "Configuration" tab, select the "DCON" option from the "Protocol" drop down options.
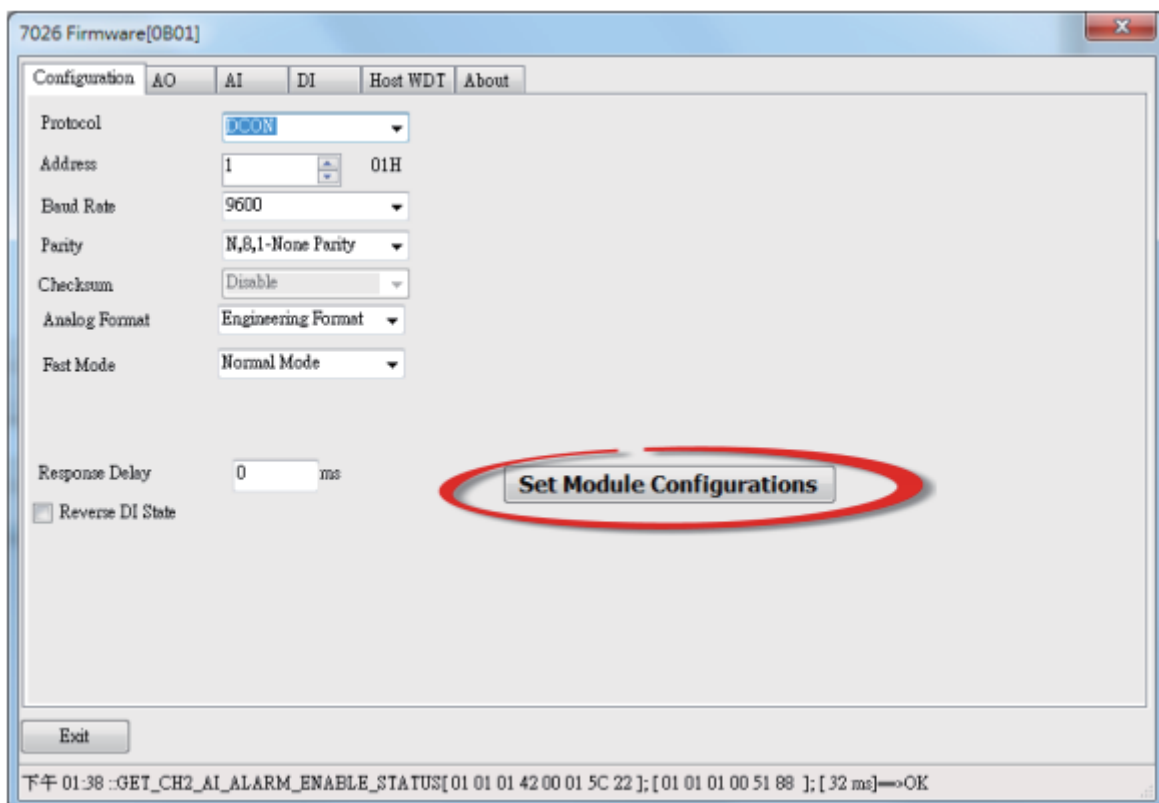
6. Verify that the "INIT Switch" on the M-7026 is in the "Init" position.
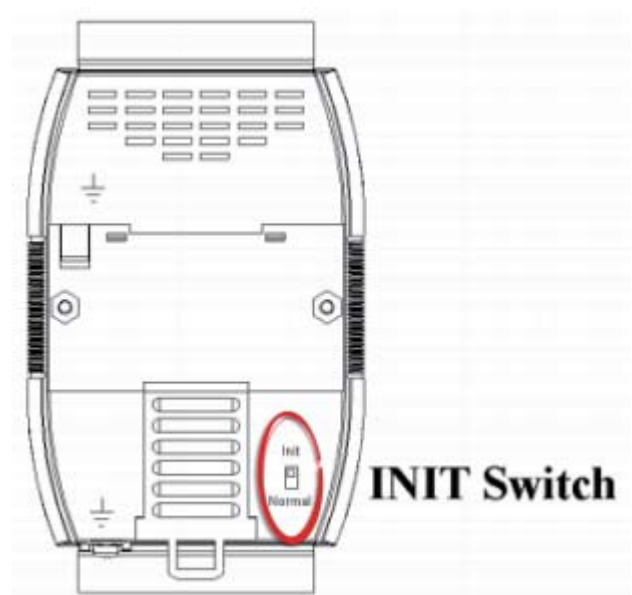
7. Click the "Set Module Configurations" button.

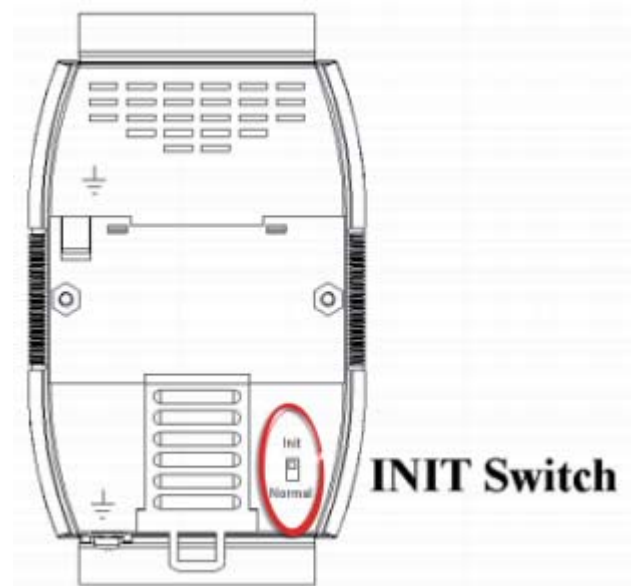8. A "Setting Communication Parameters OK:" dialog box will be displayed and click the "OK" button.
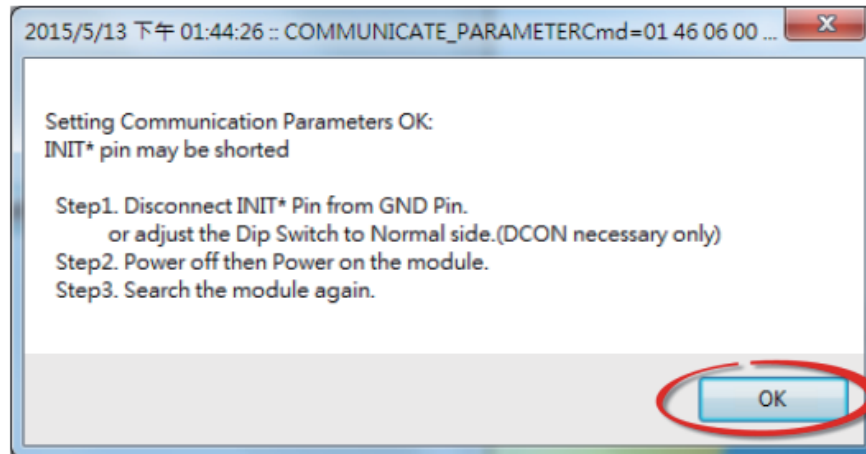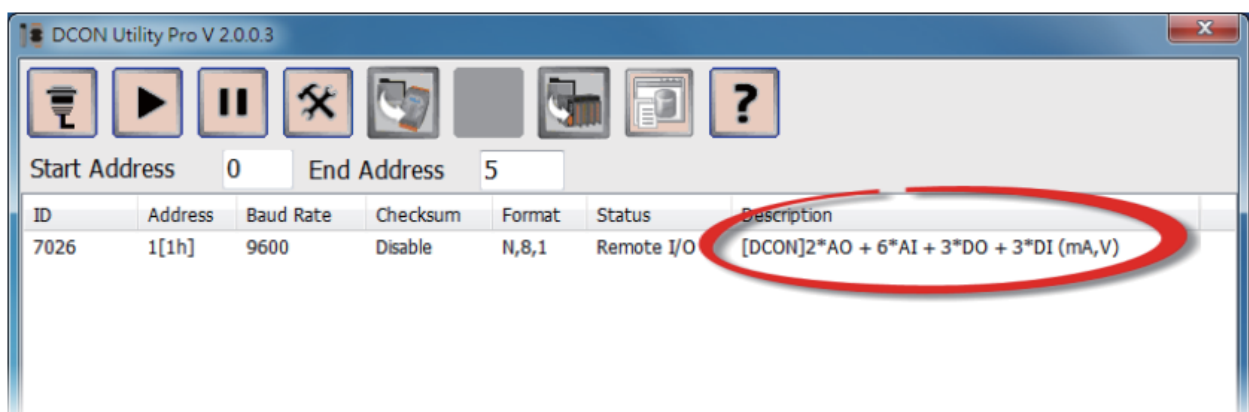

9. Set the "INIT Switch" on the M-7026 to the "Normal" position.

10. Power-on and reboot the M-7026 to operate the module in "Normal" Mode.

11. Search for the M-7026 module again. Verify the result to show "[DCON]" and then exit the DCON Utility Pro.

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Step 2:

Run the sample program: **DO_M-7026.vi.**

1. Enter the **COM Port** that the M-7026 is connected to on the PC, then select the appropriate **Baud Rate, Parity, Data Bit** and Stop Bit settings depending on the configuration of the M-7026 in the "Module setting" area.

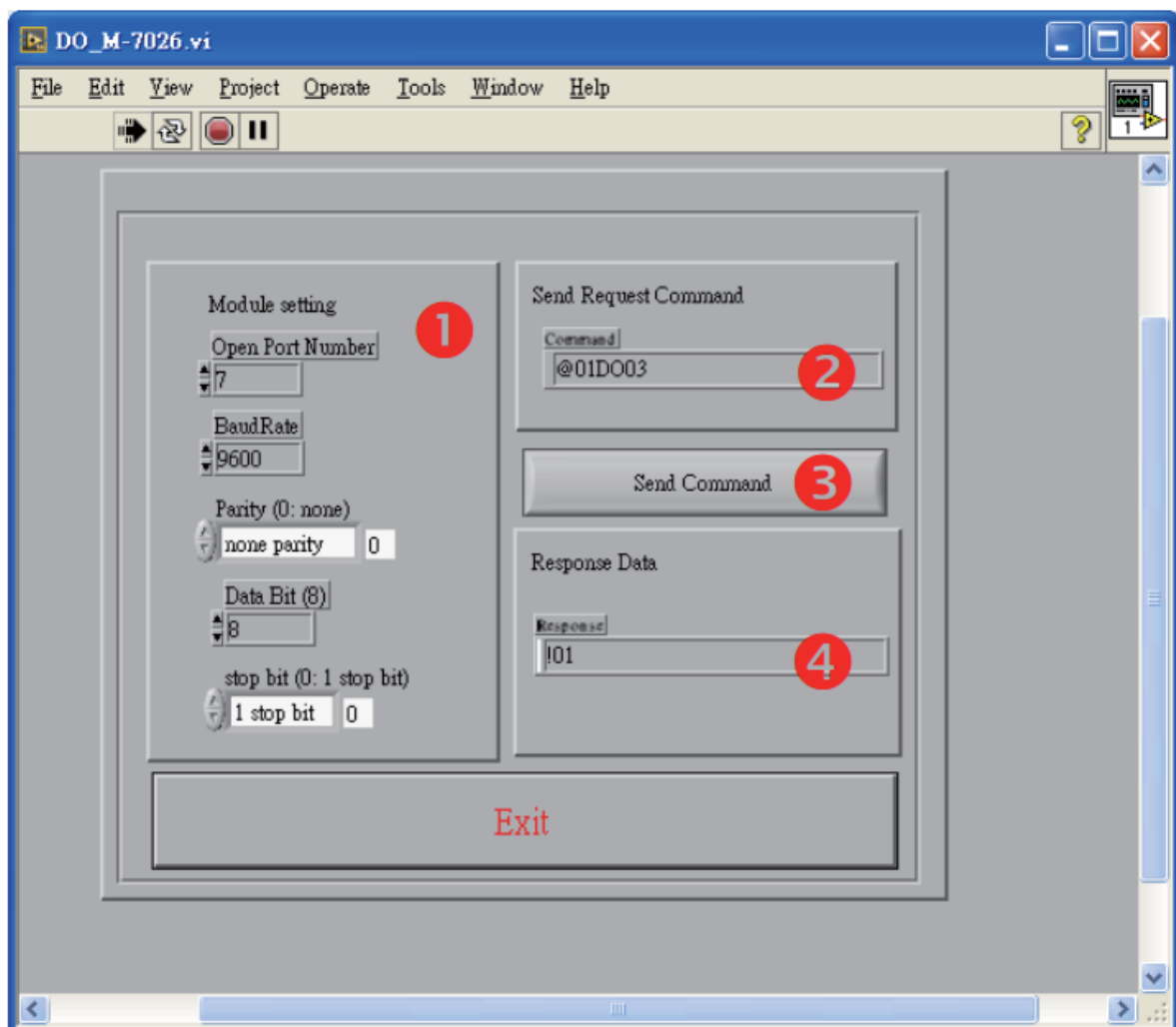2. Enter the request command: **@01DO03** → Sets Channel DO0 and DO1 to ON.
@01DO01 → Sets Channel DO0 to ON.
@01DO03 → Sets Channel DO0 and DO1 to ON.
@01DO07 → Sets Channel DO0, DO1 and DO2 to ON.
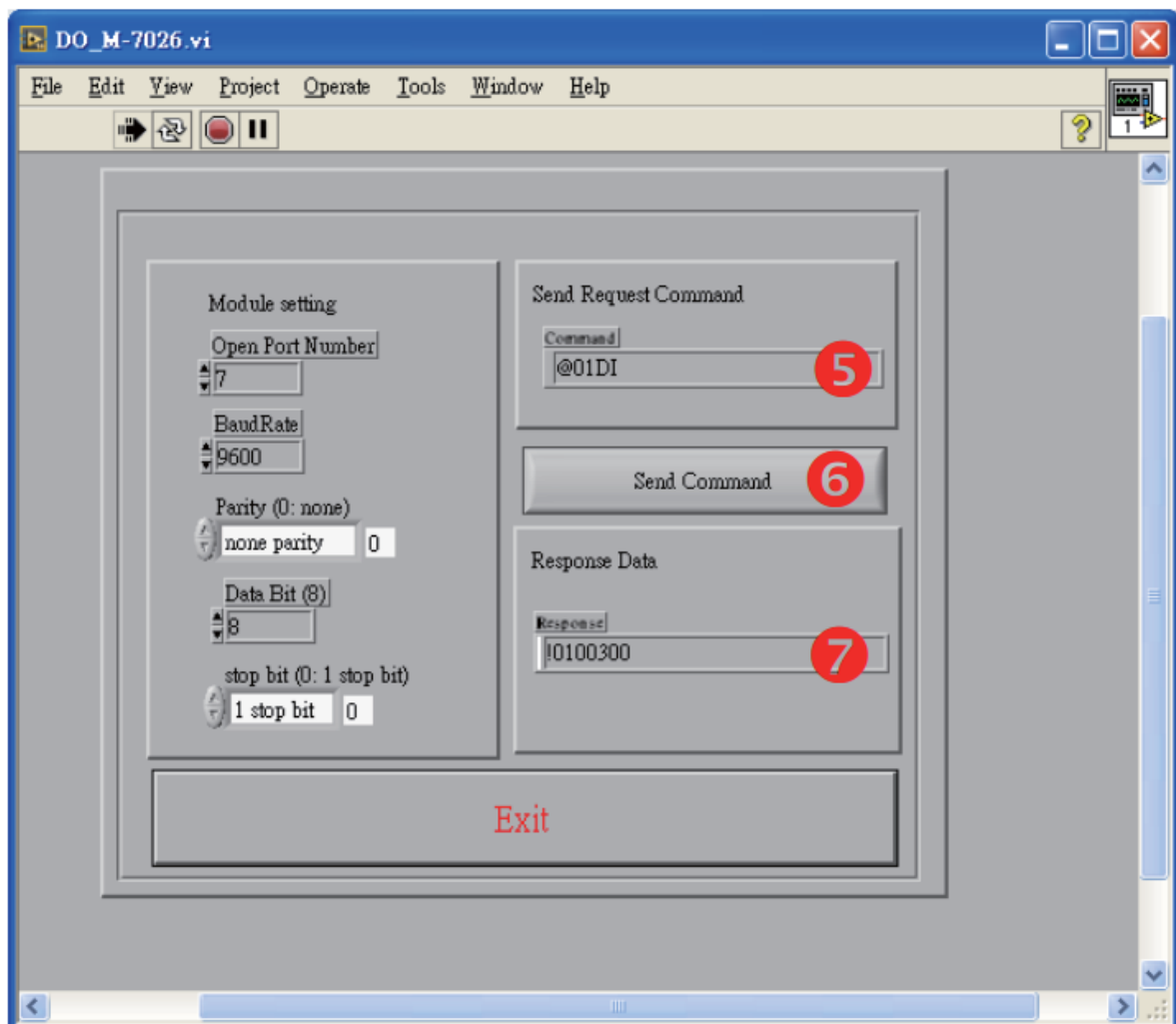
3. Click the **"Send Command"** button.

4. Check the response data: **!01** → Successful

5. Enter the request command: **@01DI** → Read status.

6. Click the **"Send Command"** button.

7. Check the response data: **!0100300** → DO Read back.

Note: For detailed information regarding DCON protocol command, refer to Chapter 2 "DCON Protocol" in the user manual of the M-7026.
The user manual location:
http://www.icpdas.com/web/product/download/io_and_unit/rs-485/document/manual/7000/M-7026_en.pdf