

	🗆 tDS	🗆 tGW	□ PETL/tET/t	PET DS/PDS/PP	DS 🗆 tM-	-752N
分類/Classification	□ I/O Car	d	□ VXC Card	□ VxComm	🗹 Oth	ier (M-7026,
					DCON	, LabVIEW)
作者/Author	Tammy		日期/Date	2015-05-14	編號/NO.	FAQ-020

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

A: 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: <u>ftp://ftp.icpdas.com/pub/cd/8000cd/napdos/driver/dcon_utility/</u>

 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.

DCON Utility Pro V 2.0.0.3
Start Address
D Address COM Port Timeout 7026 1[1h] COM7 200 ms Baud Rate Protocol Checksum Format Image: 11520 57600 38400 19200 Image:
COM:7 Parity [N,8,1] Address:2[02h] Baud Rate:9600 Checksum:Disable



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.

DCON Utility Pro V 2.0.0.3
E D II 🛠 🔄 🔚 🗊 ?
Start Address 0 End Address 5
ID Address Baud Rate Checksum Format Status Description
7026 1[1h] 9600 Disable N,8,1 Remote I/O [Modbus RTU]2*AO + 6*AI + 3*DO + 3*DI (mA,V)
COM:7 Parity [N,8,1] Address:2[02h] Baud Rate:9600 Checksum:Disable

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

DCON U	tility Pro V 2	.0.0.3				×
						?
Start Add	ress	U End	Address	5		
ID	Address	Baud Rate	Checksum	Format	Status	Description
7026	1[1h]	9600	Disable	N,8,1	Remote I/O	[Modbus RTU]2*AO + 6*AI + 3*DO + 3*DI (mA,V)
COM:7	Parity [N	,8,1] Add	ress:2[02h]	Baud I	Rate:9600	Checksum:Disable



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

Start Address 0 End Address 5 Address Baud Rate Checksum Format Status Description 7025 1[1h] 9600 Disable N,8,1 Remote I/O [Modbus RTU]2*AO + 6*AI + 3*DO + 3*DI (mA,V)
Address Baud Rate Checksum Format Status Description 7026 1[1h] 9600 Disable N,8,1 Remote I/O [Modbus RTU]2*AO + 6*AI + 3*DO + 3*DI (mA,V)
7026 1[1h] 9600 Disable N,8,1 Remote I/O [Modbus RTU]2*AO + 6*AI + 3*DO + 3*DI (mA,V)

5. In the "Configuration" tab, select the **"DCON"** option from the "Protocol" drop down options.

702	26 Firmware[0B01]		<u> </u>
C	onfiguration AO	AI DI Host WDT About	
H	Protocol	DCON	
A	Address	2 01H	
F	Baud Rate	9600 👻	
F	Parity	N,8,1-None Parity	
C	Checksum	Disable	
1	Analog Format	Engineering Format 👻	
I	Fast Mode	Normal Mode 🗸	
R	Response Delay] Reverse DI State Exit	0 ms Set Module Configurations	
下 ²	+ 01:38 ::GET_CH2_AI	I_ALARM_ENABLE_STATUS[01 01 01 42 00 01 5C 22]; [01 01 01 00 51 88]; [32 ms]=>OK	





 Verify that the **"INIT Switch"** on the M-7026 is in the **"Init"** position.

7. Click the **"Set Module Configurations"** button.

7026 Firmware[0B01]		
Configuration AO	AI DI Host WDT About	
Protocol	DCON -	
Address	1 O1H	
Baud Rate	9600 🗸	
Parity	N,8,1-None Parity 🗸	
Checksum	Disable	
Analog Format	Engineering Format 👻	
Fast Mode	Normal Mode 🗸	
Response Delay	0 ms Set Module Configurations	
📄 Reverse DI State		
Exit		
下午 01:38 ::GET_CH2_A	I_ALARM_ENABLE_STATUS[01 01 01 42 00 01 5C 22]; [01 01 01 00 51 88]; [32 ms]=>OK	



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.





Step 2: Run the sample program: DO_M-7026.vi.

- 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.
- Enter the request command: @01D003 → Sets Channel DO0 and DO1 to ON.
 @01D001 → Sets Channel DO0 to ON.
 @01D003 → Sets Channel DO0 and DO1 to ON.
 @01D007 → Sets Channel DO0, DO1 and DO2 to ON.
- 3. Click the "Send Command" button.
- 4. Check the response data: $101 \rightarrow$ Successful

DO_M-7026.vi		
DO_M-7026,vi File Edit Yiew Project Operate Ic Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting Image: Solution of the setting <t< td=""><td>ols Window Help</td><td></td></t<>	ols Window Help	
	Exit	×



- 5. Enter the request command: **@01DI** \rightarrow Read status.
- 6. Click the "Send Command" button.
- 7. Check the response data: $10100300 \rightarrow$ DO Read back.

DO_M-7026.vi	
<u>File E</u> dit <u>V</u> iew <u>P</u> roject <u>O</u> perate <u>T</u> ools <u>W</u> indow <u>H</u> elp → ② ■ ■	? 1▶
Module setting Open Port Number 7 BaudRate 9600 Parity (0: none) 1 stop bit (0: 1 stop bit) 1 stop bit 0 Exit	

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://ftp.icpdas.com/pub/cd/8000cd/napdos/7000/manual/m7026_user_manual.pdf