分類/Classification	☐ tDS ☑ tGW ☐ PETL/tET/tPET ☐ DS/PDS/PPDS ☐ tM-752N ☐ I/O Card ☐ VXC Card ☐ VxComm ☐ Other				
作者/Author	Tammy	日期/Date	2014-11-20	編號/NO.	FAQ-038

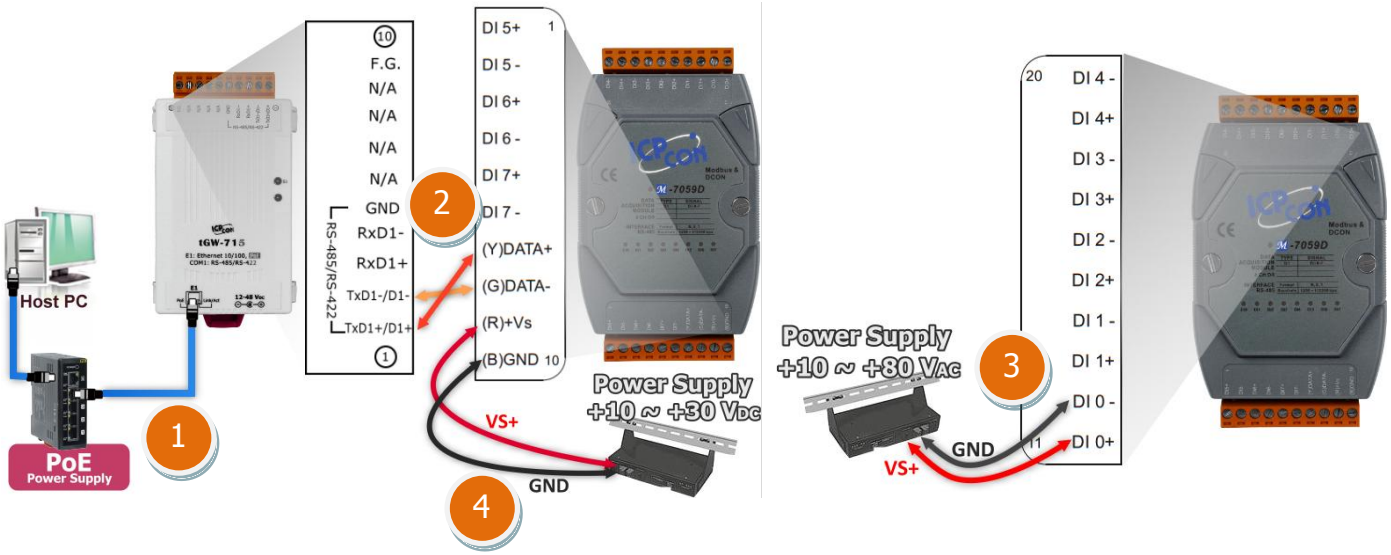
Q: How to Get M-7059 Data through Modbus TCP with tGW-715?

A: For detailed configuration steps, please refer to the following:

Before self-test, please ensure that your PC has workable network settings.

Step 1: Connect the tGW-715 module with M-7059 device using the RS-485 bus.

1. Connect both the tGW-715 and your computer to the same sub network or the same Ethernet Switch and power the tGW-715 on.
2. Connect the M-7059 device to COM1 (RS-485 bus) on tGW-715.
3. Supply power (+10 V_{AC} ~+80 V_{AC}) to DI0 (+/-) pins on M-7059 device for channel 0 of DI is ON.
4. Supply power (+10 V_{DC} ~+30 V_{DC}) to the M-7059 device.

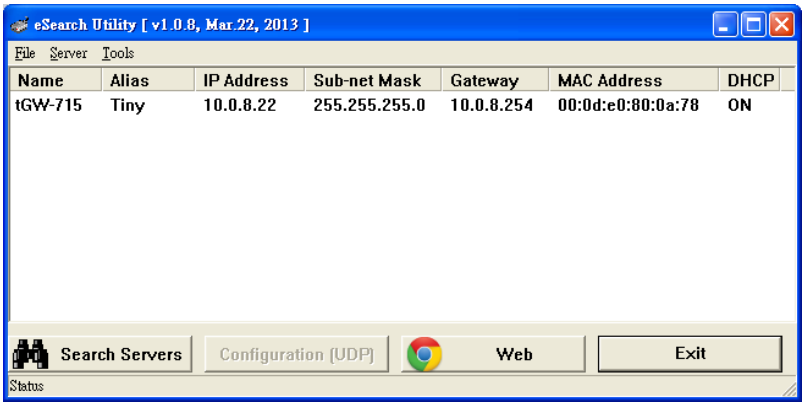


Step 2: Install the Modbus Utility and the eSearch Utility.

✓ The Modbus Utility location:
CD:\\ NAPDOS\Software\Modbus_Utility\
Web link: http://ftp.icpdas.com/pub/cd/tinymodules/napdos/software/modbus_utility/

✓ The eSearch Utility location:
CD:\\ NAPDOS \Software\eSearch\
Web link: http://ftp.icpdas.com/pub/cd/tinymodules/napdos/software/esearch/

Step 3: Run the eSearch Utility to search for tGW-715 connected to the network.



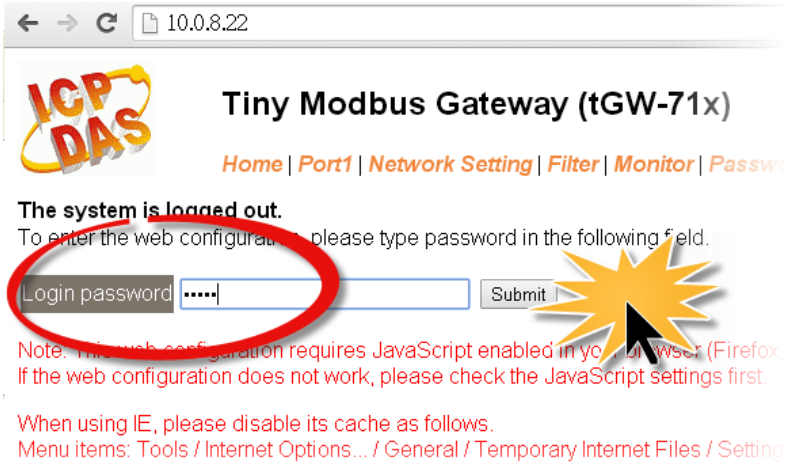
Step 4: Configure the correct network settings for the required tGW-715.

Please refer to **"Chapter 5-Configuring Ethernet Settings"** in the tGW-700 Quick Start Guide. If the

Download the Quick Start Guide.

Step 5: Open a web browser, and enter the URL for the tGW-715 module in the address bar of the browser, or click the "Web" button in the eSearch Utility.

Step 6: When the login screen is displayed, enter the password (use the default password: admin) in the login password field, and then click the "Submit" button to enter the configuration web page.

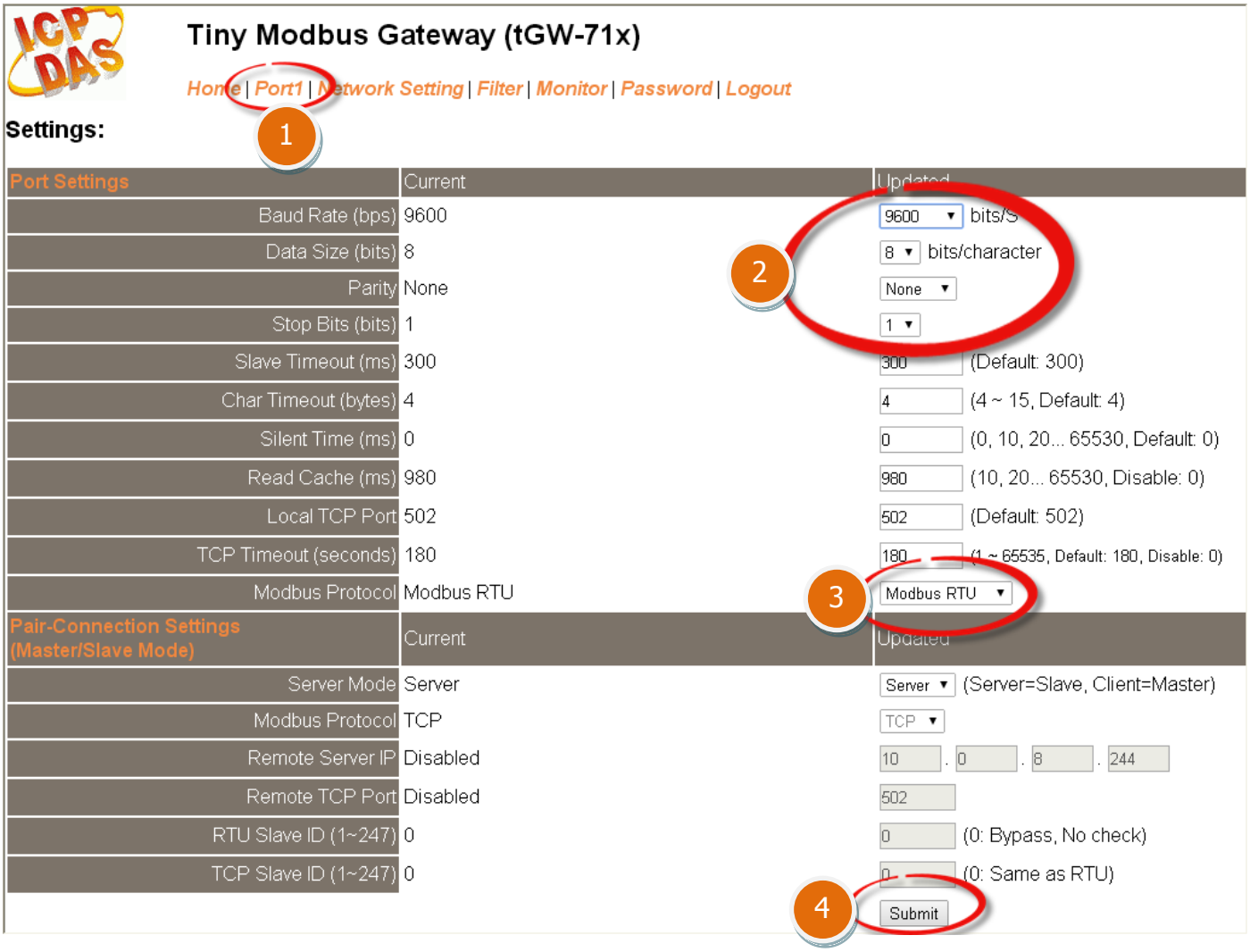


Step 7: Click the "Port1" tab to display the Port1 Settings page.

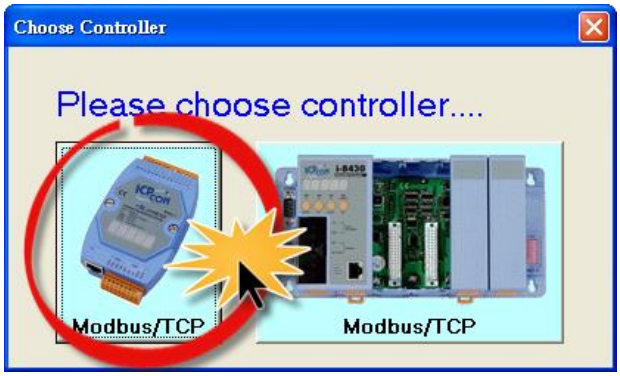
Step 8: Select the appropriate Baud Rate, Data Format and Modbus Protocol settings from the relevant drop down options depend on the M-7059 device.

Check that the configuration details are the same as those shown below.

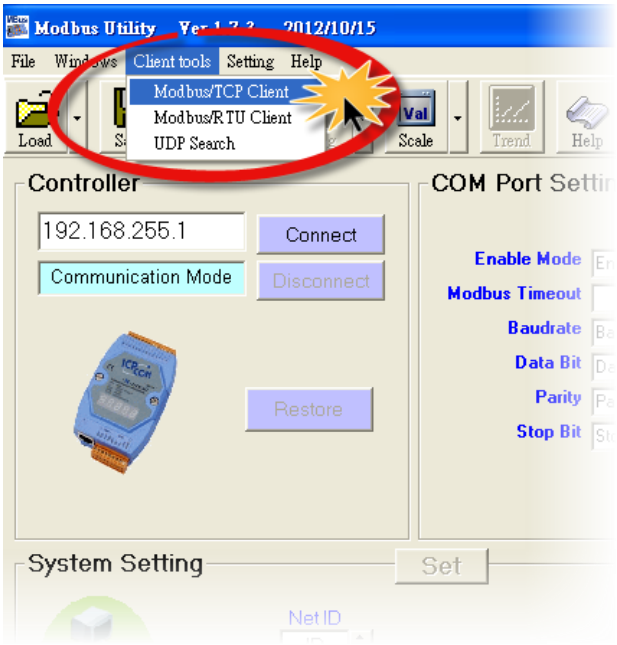
	Default Setting of M-7059		
Port1 Settings of tGW-715	Baud Rate	Data Format	Modbus Protocol
	9600	8, None, 1	Modbus RTU



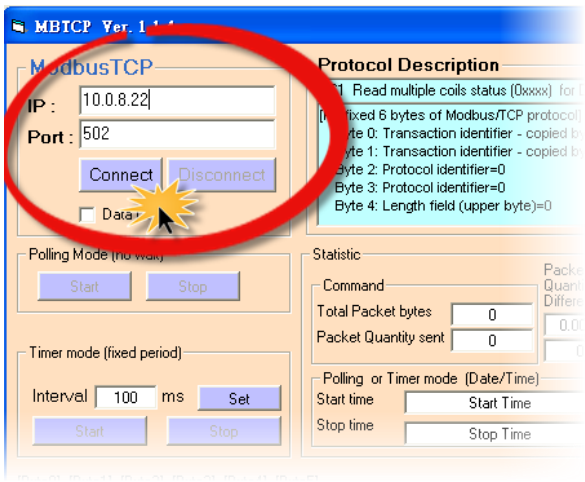
Step 9: Run the Modbus Utility, and click the "Modbus/TCP" button to select the controller.



Step 10: In the Modbus Utility, select the "Modbus/TCP Client" option from the "Client tools" menu.

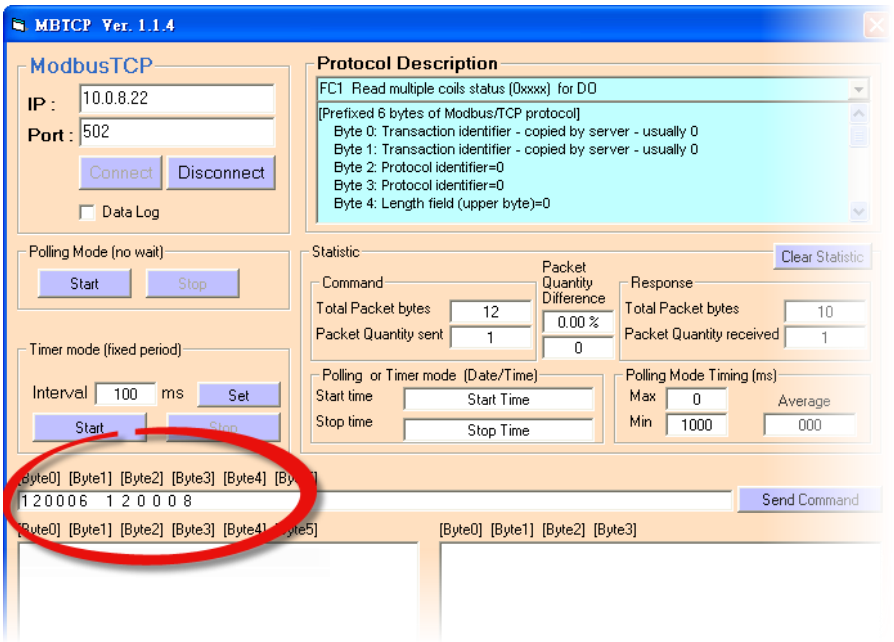


Step 11: Enter the IP address and TCP Port information for the tGW-715 in the "Modbus TCP" area, and then click the "Connect" button to connect to the tGW-715.

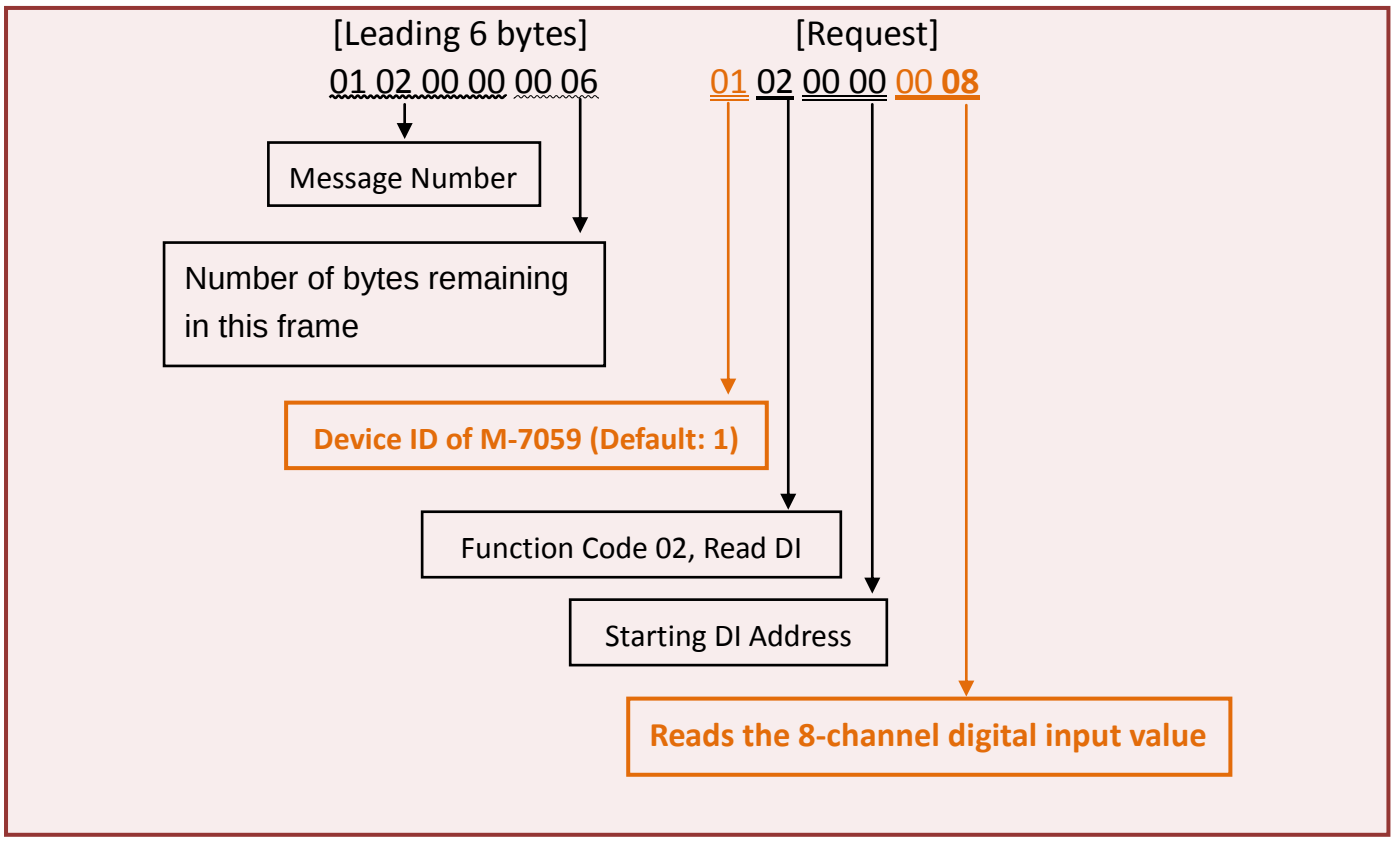


Step 12: Refer to the "Protocol Description" field in the top right-hand section of the Modbus Utility windows. You can send a request command and confirm that the response is correct.

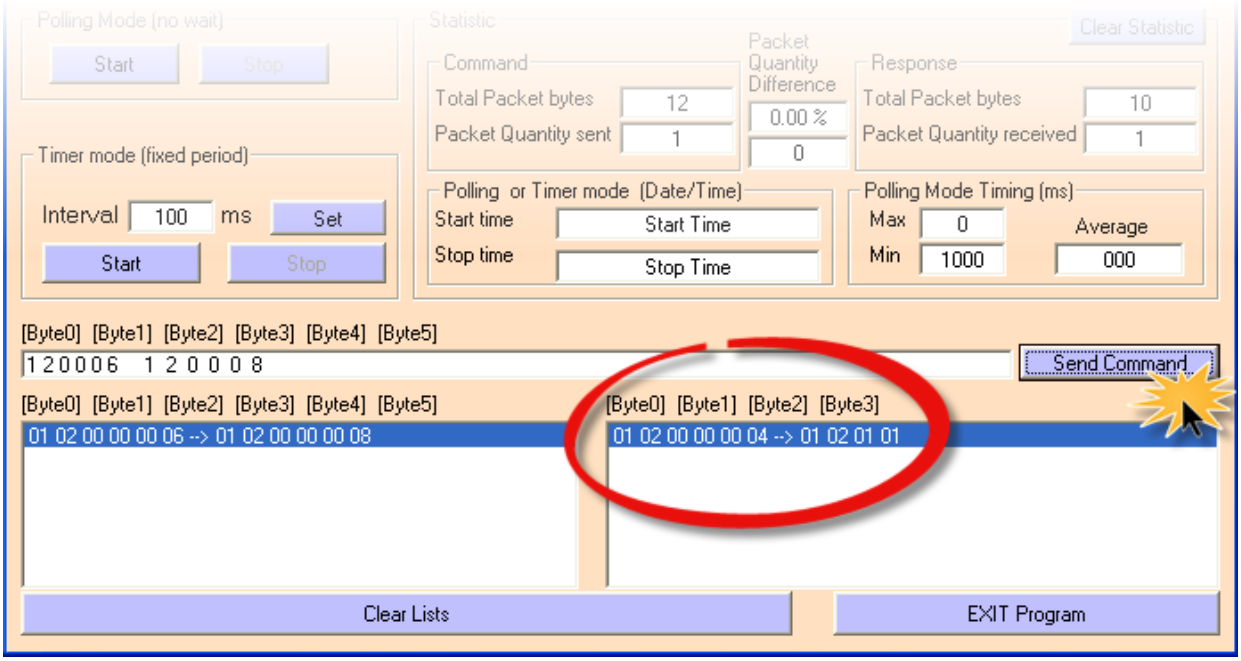
1. **Type the Modbus command,** as the image below shows.



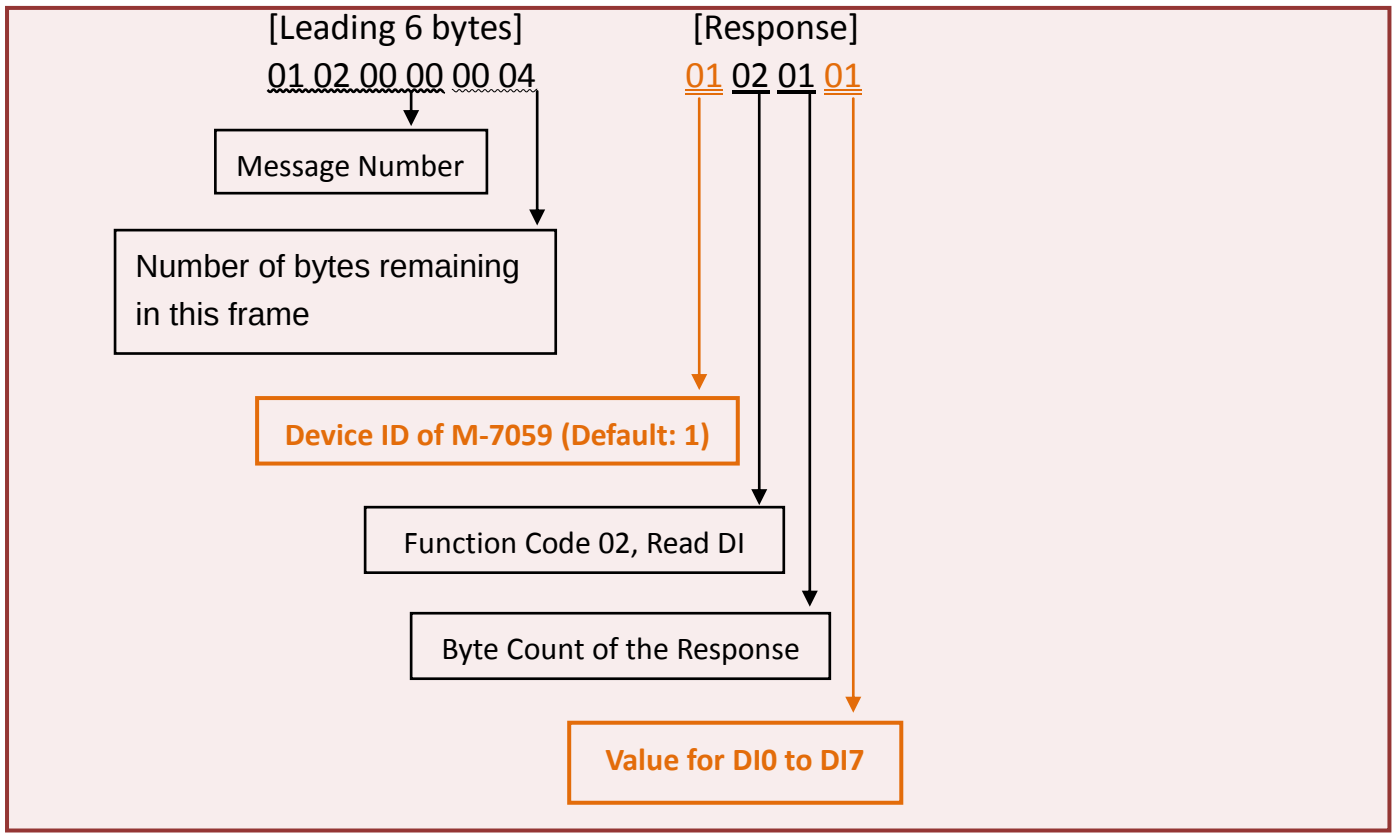
Command Format:



2. Click the **"Send Command"** button.
3. **Verify that the response message correctly,** as the image below shows.



Response Format:



- Complete -