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

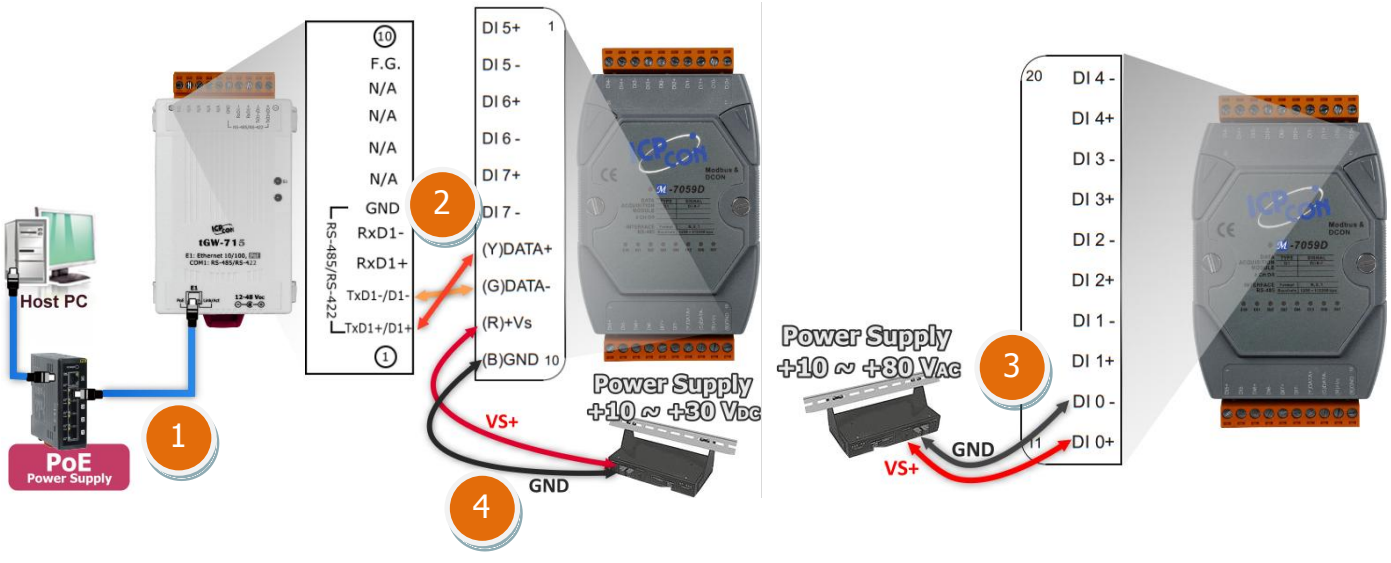
# Q: How to Get M-7059 Data through Modbus TCP with tGW-715?

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.




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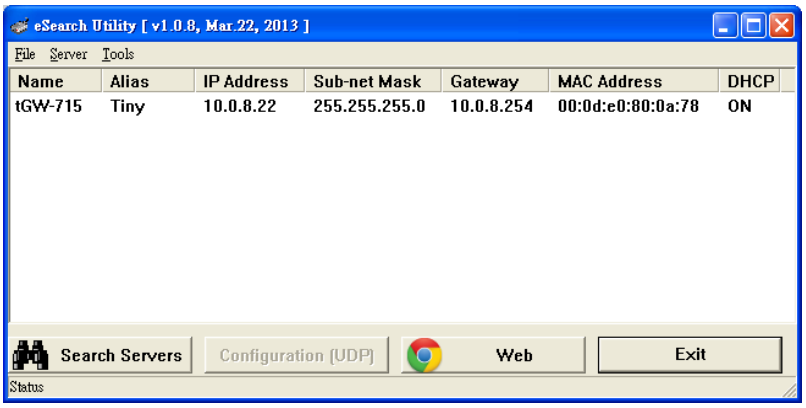
**Step 2: Install the Modbus Utility and the eSearch Utility.**

✓ 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.**

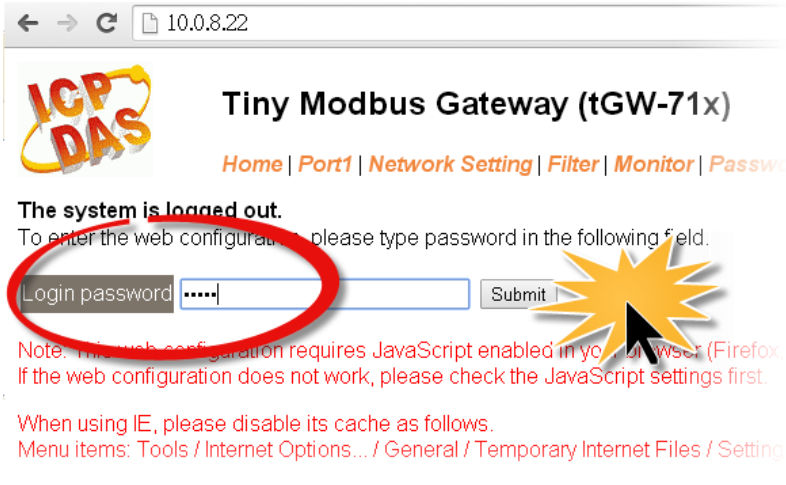



Please refer to **"Chapter 5-Configuring Ethernet Settings"** in the tGW-700 Quick Start Guide. If the

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.**




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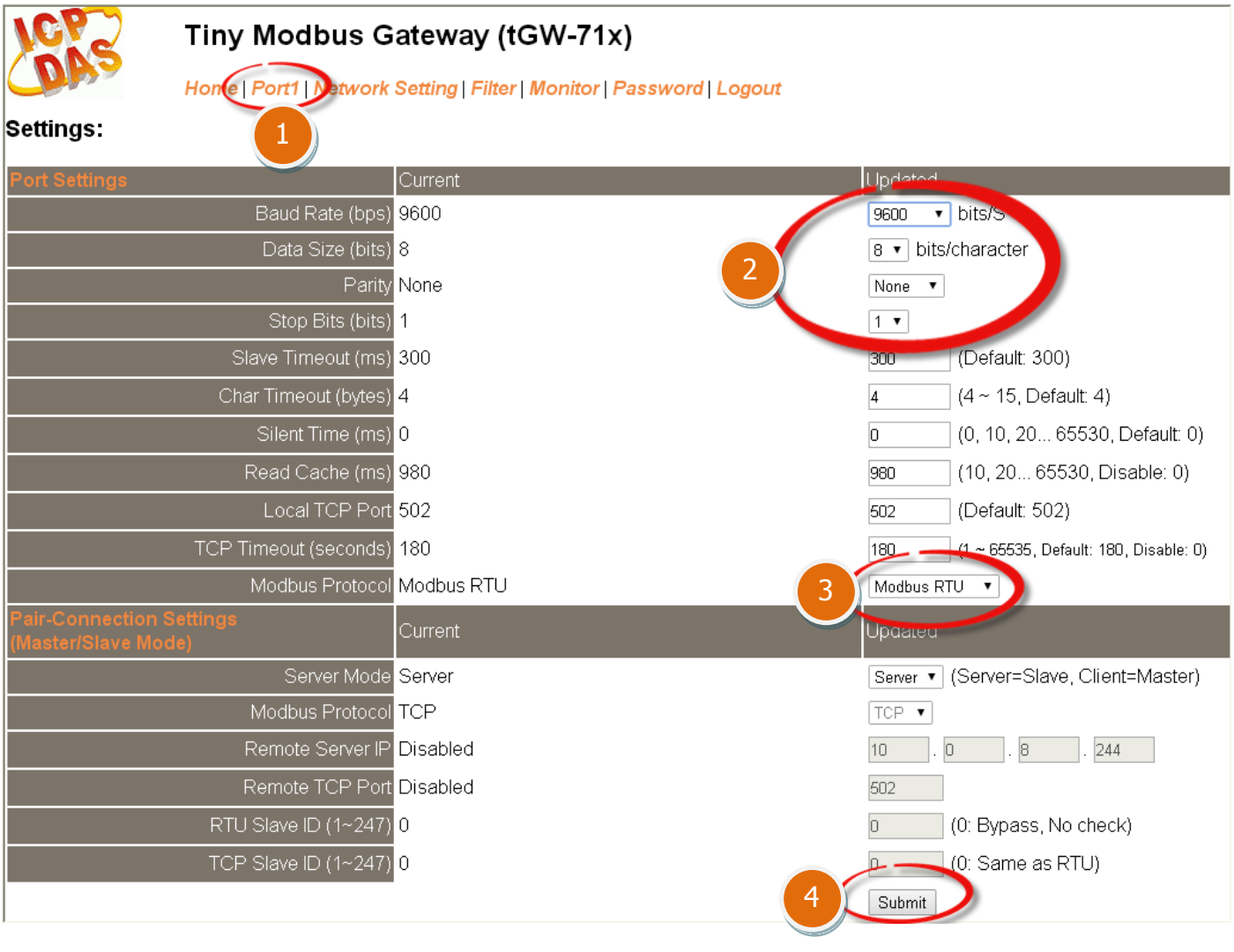

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**Step 7: Click the "Port1" tab to display the Port1 Settings page.**

**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 |



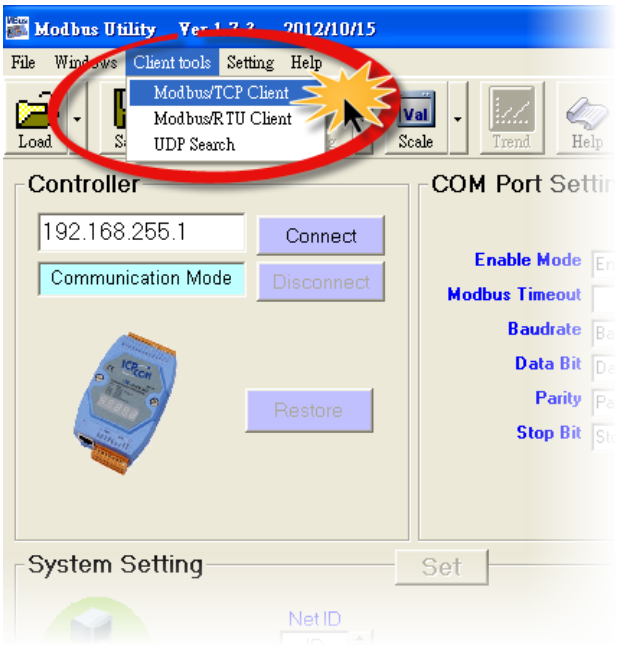

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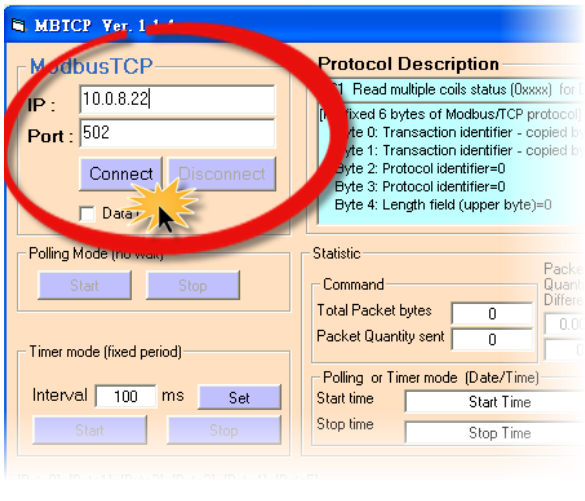
**Step 9:** Run the Modbus Utility, and click the "Modbus/TCP" button to select the controller.




**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.

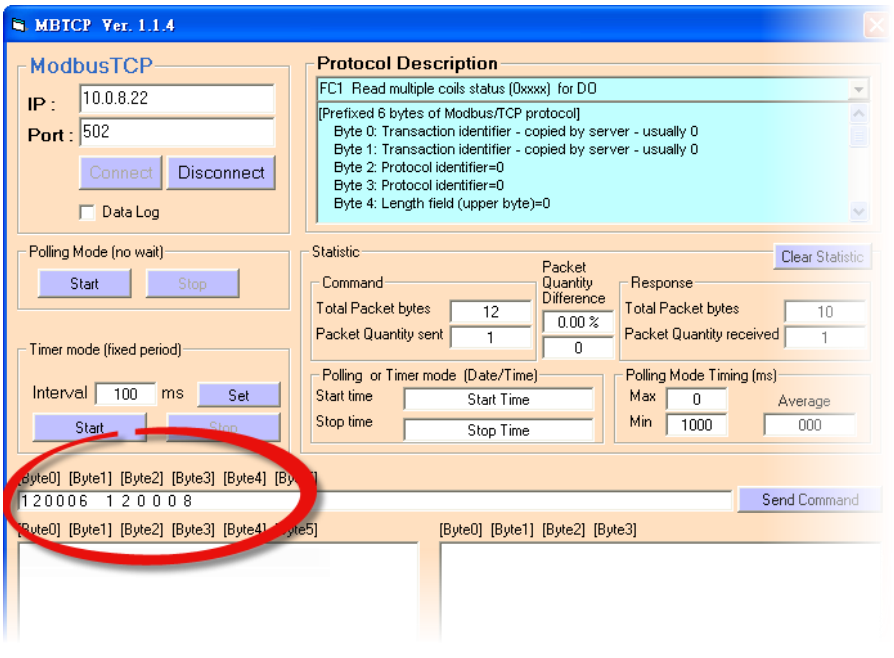



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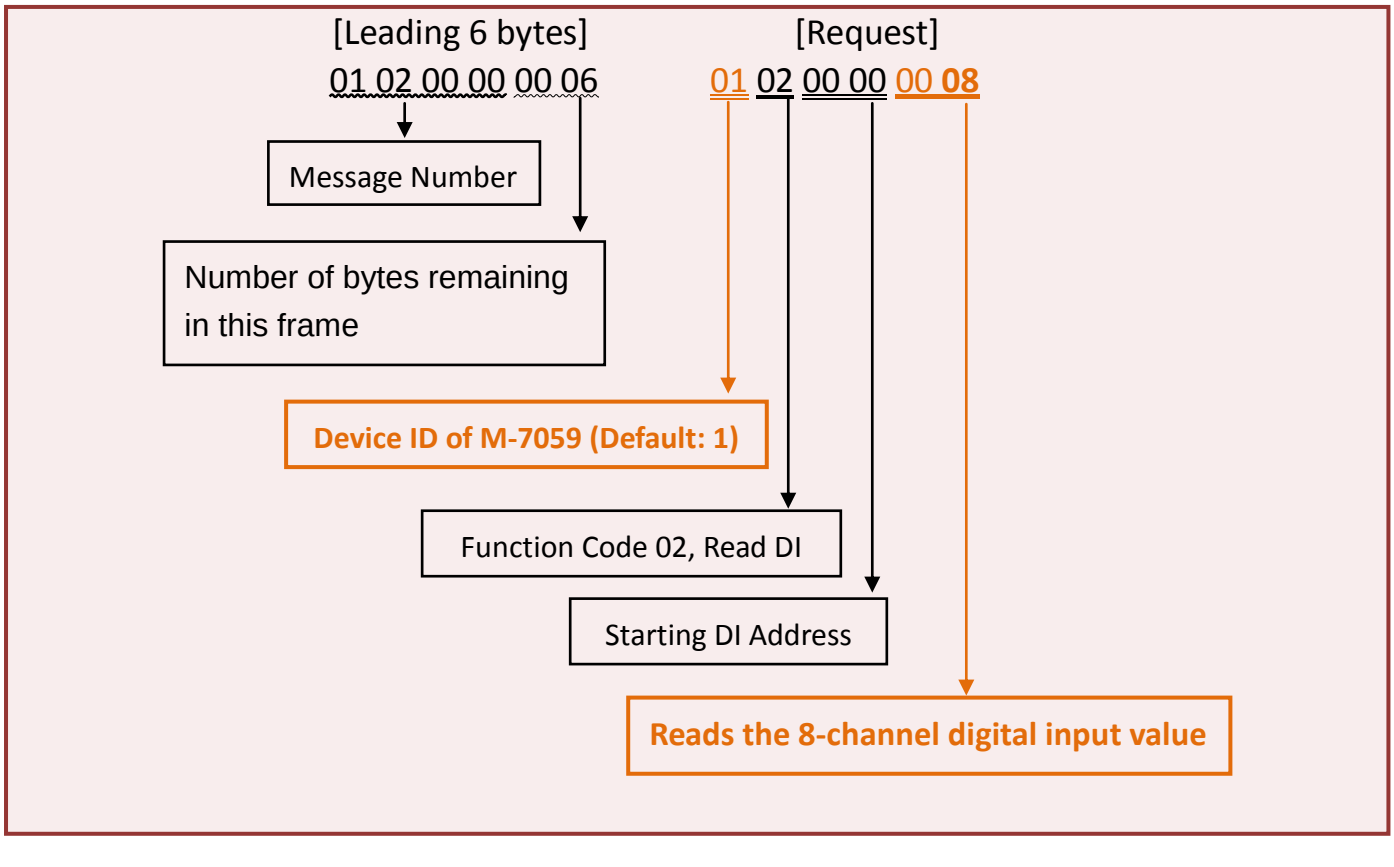

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**Step 12: Refer to the "Protocol Description" field in the top right-hand section of the Modbus Utility windows. You can send a request command and confirm that the response is correct.**

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



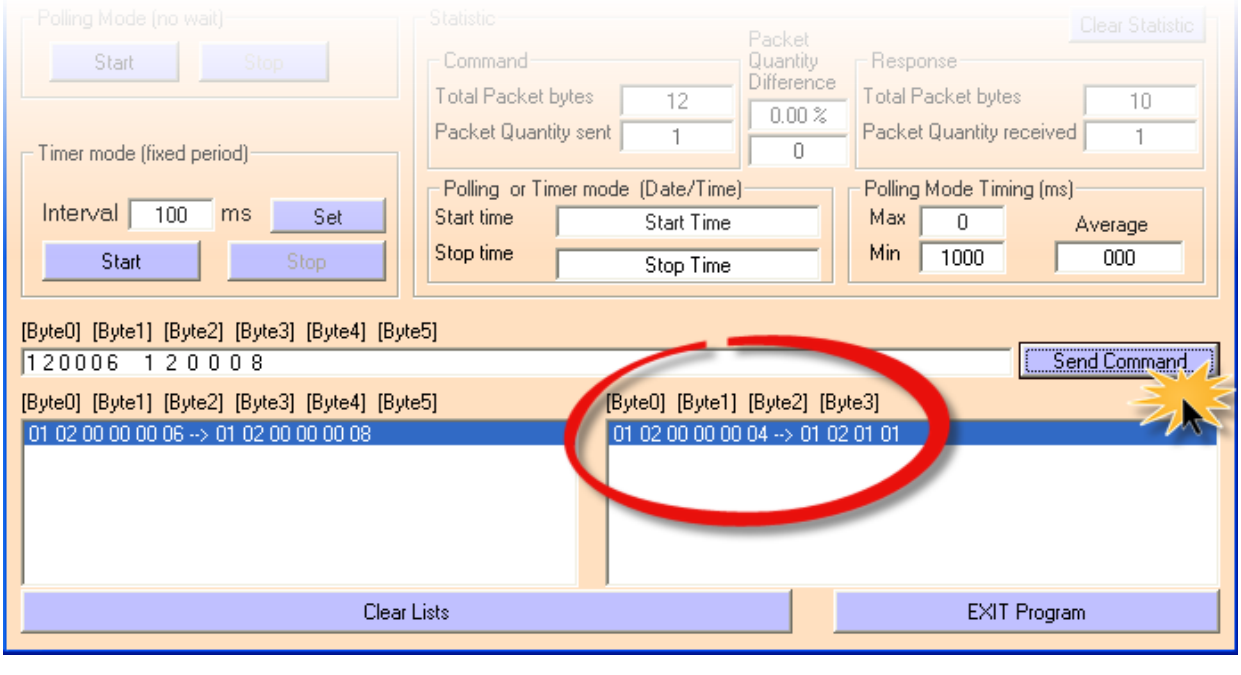

**Command Format:**



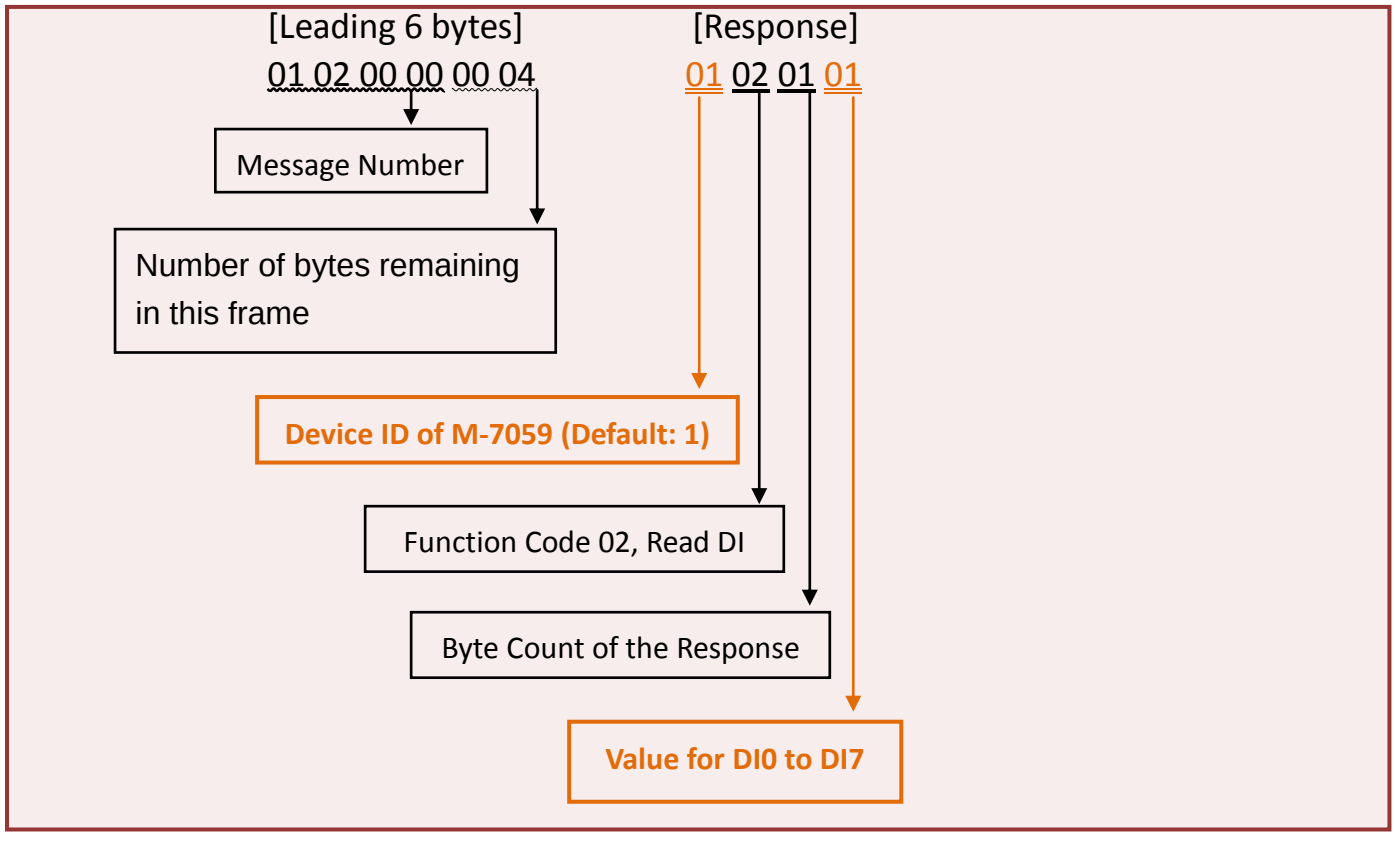

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2. Click the **"Send Command"** button.
3. **Verify that the response message correctly,** as the image below shows.




**Response Format:**




- Complete -

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