

分類/Classification	<input type="checkbox"/> tDS	<input checked="" type="checkbox"/> tGW	<input type="checkbox"/> PETL/tET/tPET	<input type="checkbox"/> DS/PDS/PPDS	<input type="checkbox"/> tM-752N
	<input type="checkbox"/> I/O Card	<input type="checkbox"/> VXC Card	<input type="checkbox"/> VxComm	<input type="checkbox"/> Other	
作者/Author	Tammy	日期/Date	2014-11-20	編號/NO.	FAQ-038

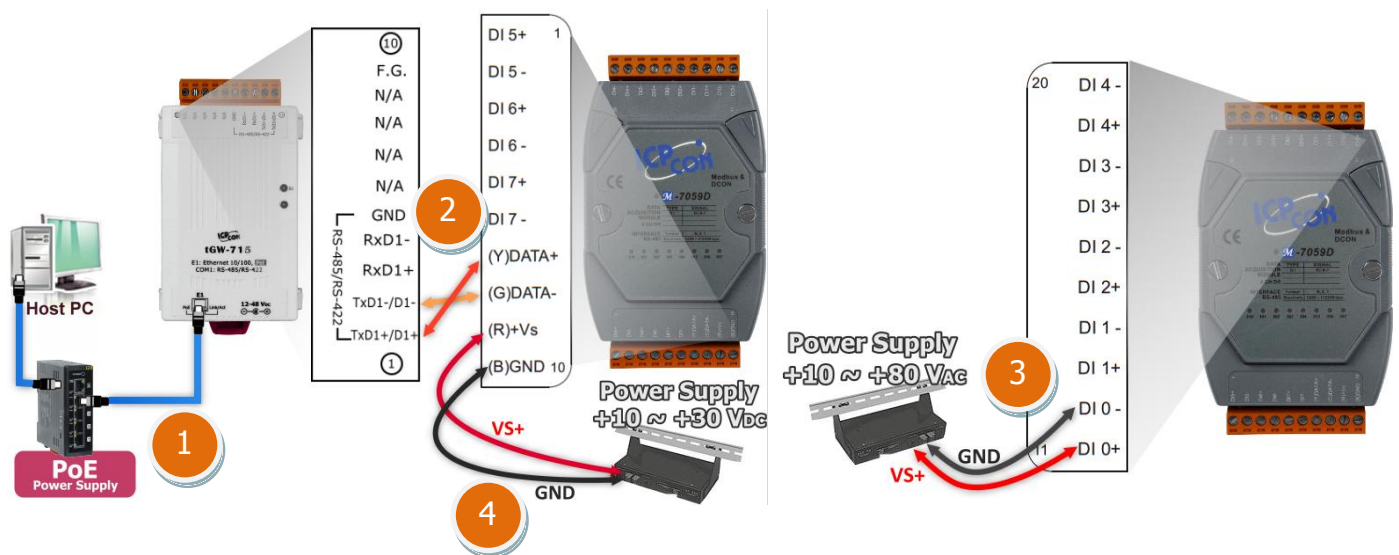
Q: How to Get M-7059 Data through Modbus TCP with tGW-715?

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\\

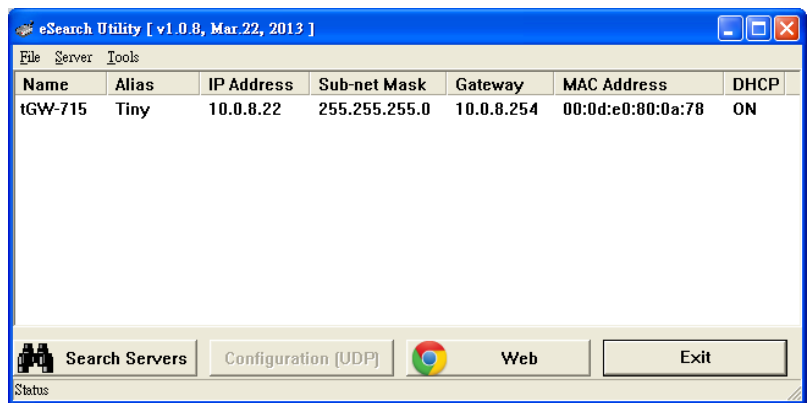
Web link: http://ftp.icpdas.com/pub/cd/tinymodules/napdos/software/modbus_utility/

✓ 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.



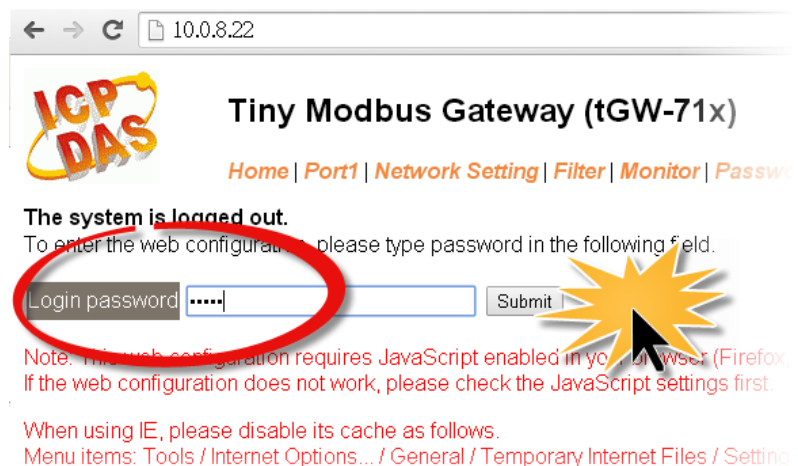
Step 4: Configure the correct network settings for the required tGW-715.

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

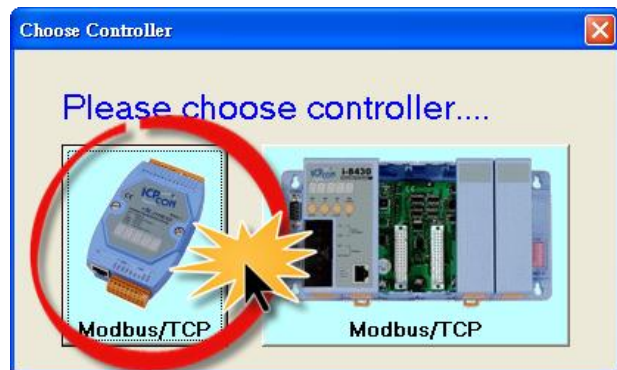
Tiny Modbus Gateway (tGW-71x)

Home | **Port1** | Network Setting | Filter | Monitor | Password | Logout

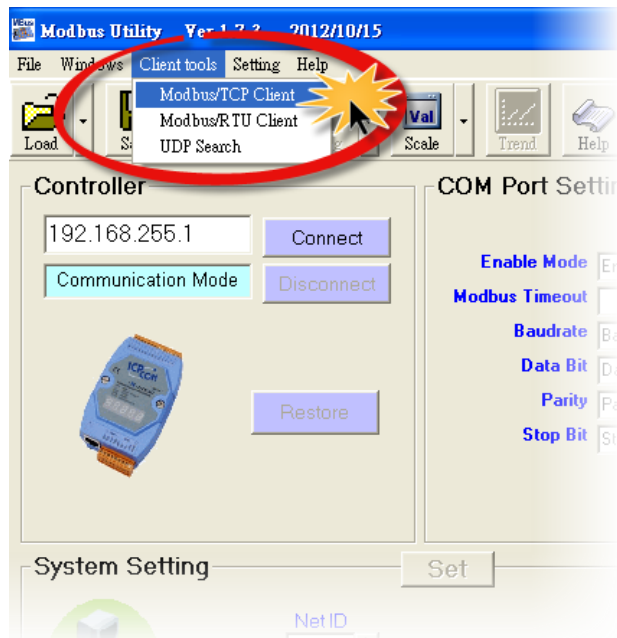
Settings:

Port Settings	Current	Updated
Baud Rate (bps)	9600	9600 bits/s
Data Size (bits)	8	8 bits/character
Parity	None	None
Stop Bits (bits)	1	1
Slave Timeout (ms)	300	300 (Default: 300)
Char Timeout (bytes)	4	4 (4 ~ 15, Default: 4)
Silent Time (ms)	0	0 (0, 10, 20... 65530, Default: 0)
Read Cache (ms)	980	980 (10, 20... 65530, Disable: 0)
Local TCP Port	502	502 (Default: 502)
TCP Timeout (seconds)	180	180 (1 ~ 65535, Default: 180, Disable: 0)
Modbus Protocol	Modbus RTU	Modbus RTU
Pair-Connection Settings (Master/Slave Mode)	Current	Updated
Server Mode	Server	Server (Server=Slave, Client=Master)
Modbus Protocol	TCP	TCP
Remote Server IP	Disabled	10 . 0 . 8 . 244
Remote TCP Port	Disabled	502
RTU Slave ID (1~247)	0	0 (0: Bypass, No check)
TCP Slave ID (1~247)	0	0 (0: Same as RTU)
		Submit

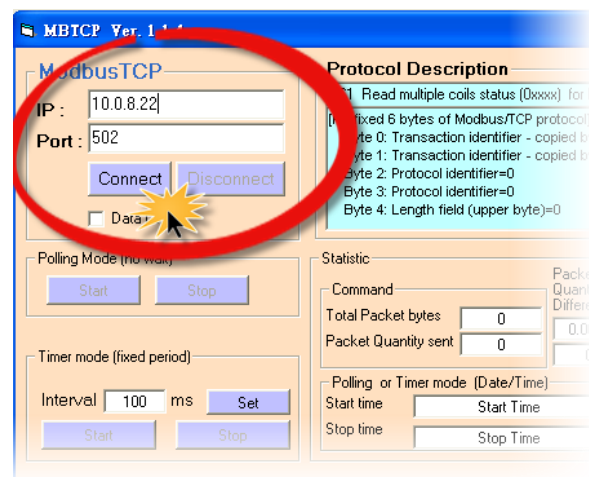
Step 9: Run the Modbus Utility, and click the “Modbus/TCP” button to select the controller.



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

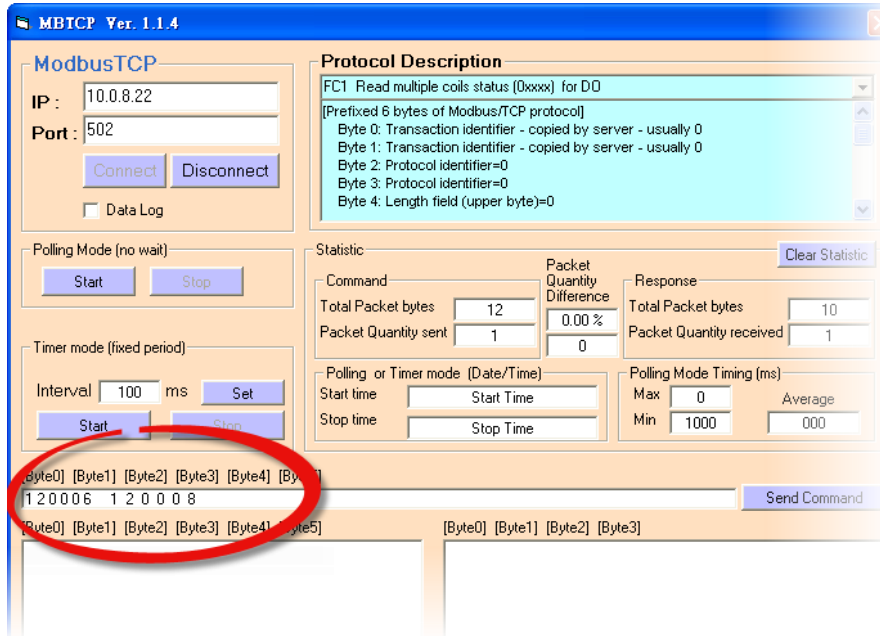


Step 11: Enter the IP address and TCP Port information for the tGW-715 in the “Modbus TCP” area, and then click the “Connect” button to connect to the tGW-715.

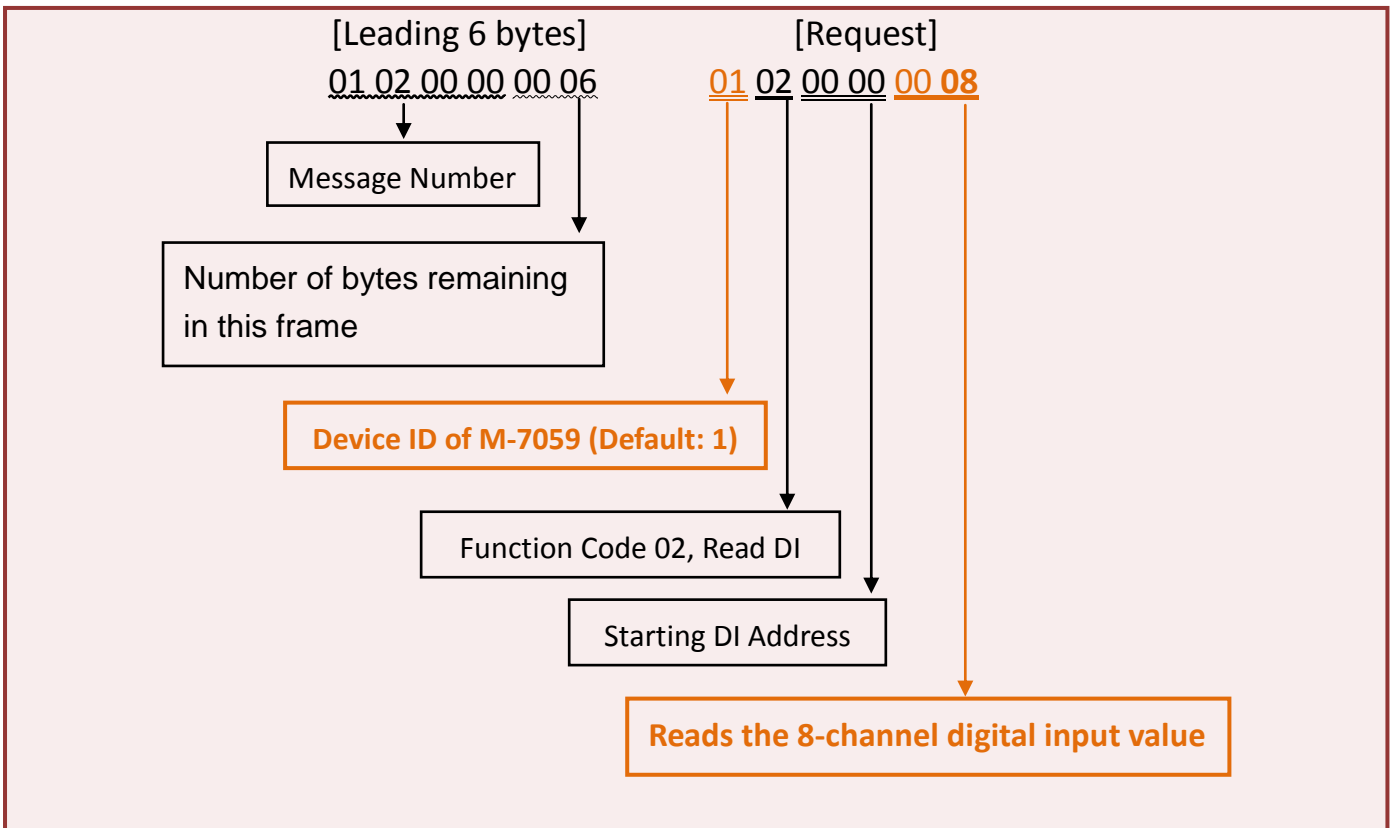


Step 12: Refer to the "**Protocol Description**" field in the top right-hand section of the Modbus Utility windows. You can send a request command and confirm that the response is correct.

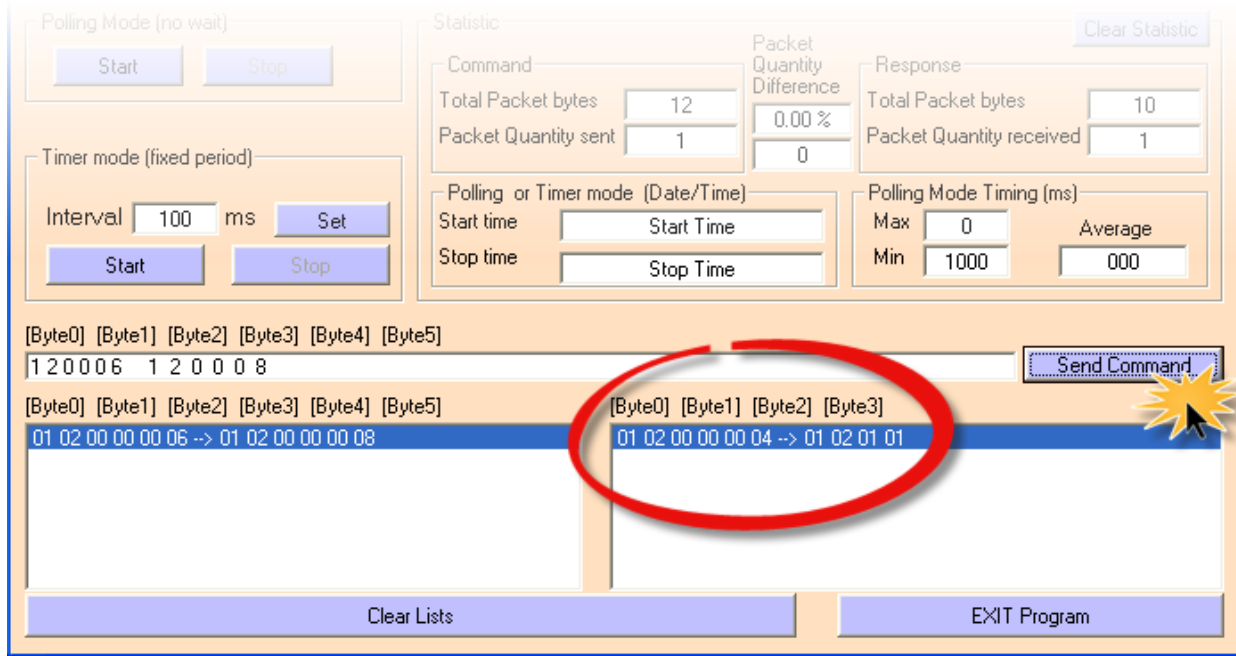
1. **Type the Modbus command**, as the image below shows.



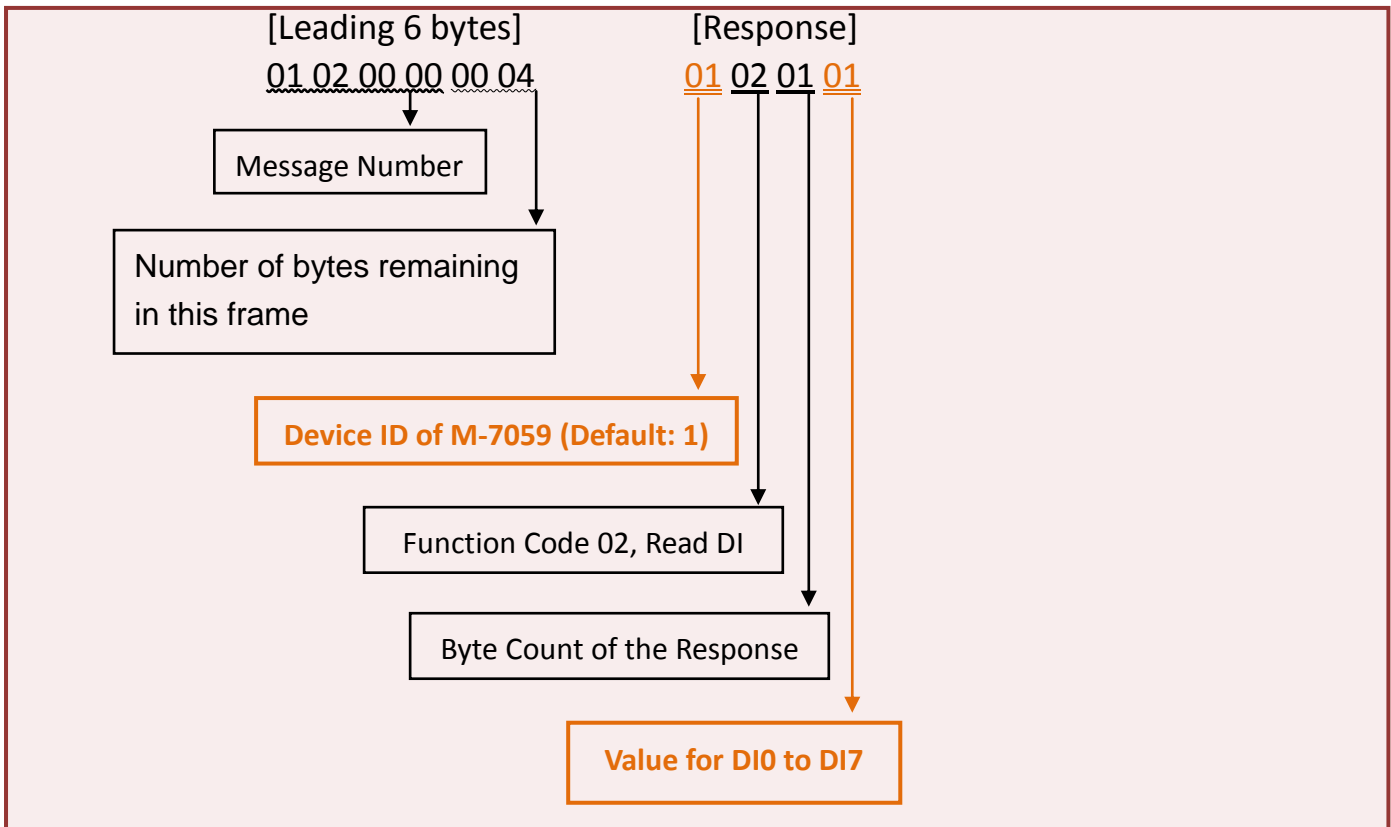
Command Format:



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



Response Format:



- Complete -