



Quick Start

for tGW-700/700i Series

English/ Dec. 2016/ Version 1.4

1

Shipping Package

The package includes the following items:

❶ tGW-700/700i Series x1



❷ Quick Start x1



❸ Software CD x1



❹ CA-002 Cable x1



2

Installing Software on Your PC

Install **eSearch Utility**, which can be obtained from either the companion CD-ROM or the web site:



CD: \NAPDOS\software\eSearch\



<http://ftp.icpdas.com/pub/cd/tinymodules/napdos/software/esearch/>

3

Connecting the Power and Host PC

❶ Make sure your PC has workable network settings.

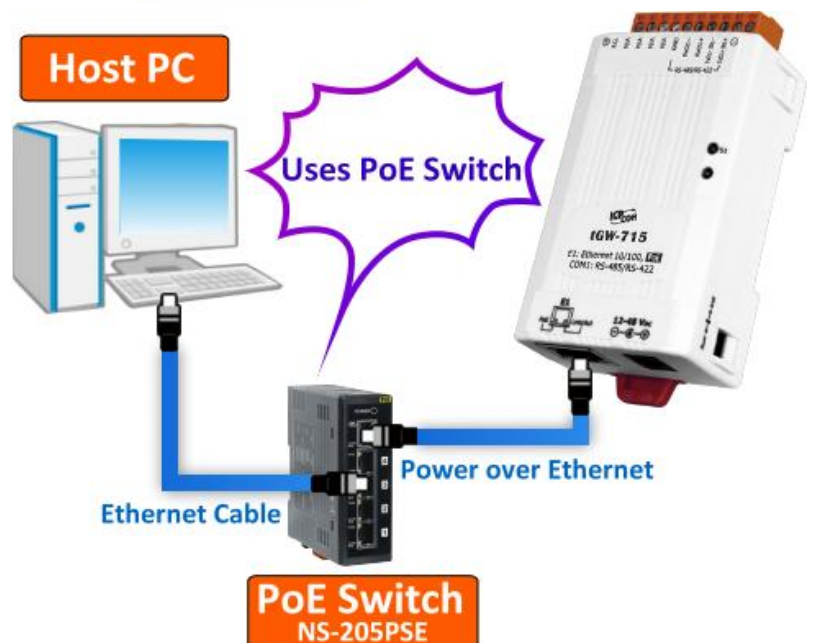
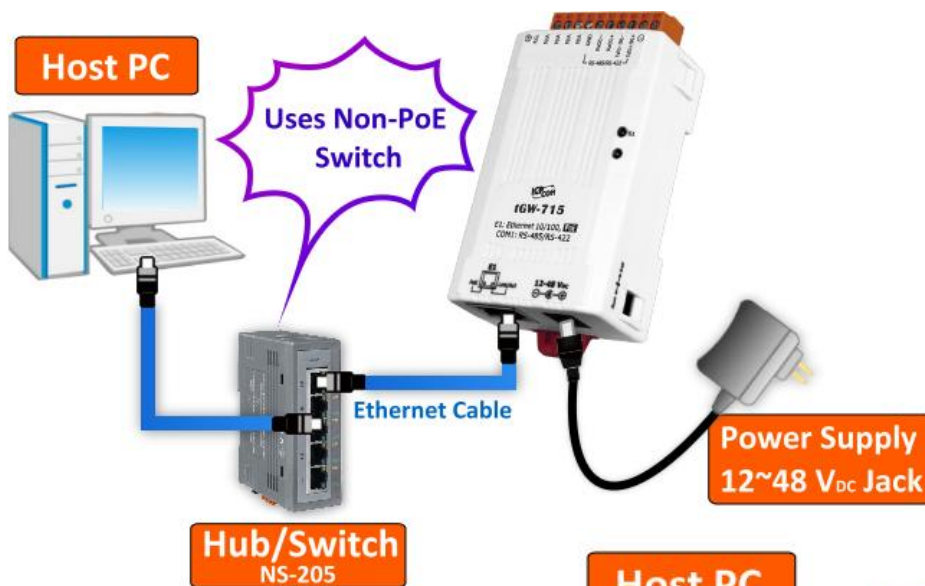
Disable or well configure your Windows firewall and Anti-Virus firewall first, else the “Search Servers” on Chapter 5 may not work. (Please contact with your system Administrator)

❷ Make sure the switch is placed in the “Run” mode.



❸ Connect both the tGW-700/700i and your PC to the same sub network or the same Ethernet Switch.

❹ Supply power (PoE or +12 ~ +48 V_{DC}) to the tGW-700/700i.



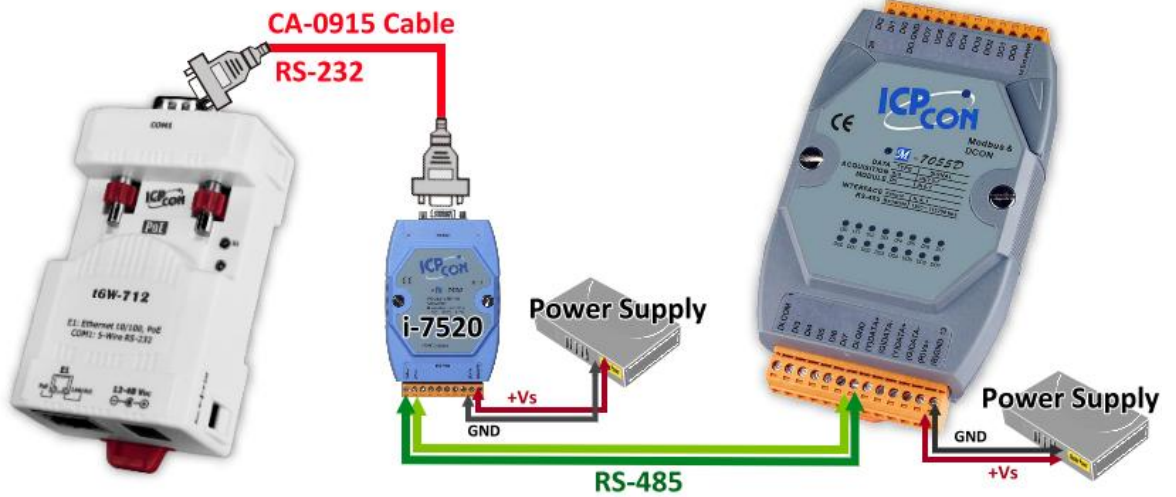
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Connecting the Modbus Devices

- ❶ Connect the Modbus device (Slave, e.g., M-7055D, optional) to your tGW-700/700i, as follows:
- ❷ Supply power (+10 ~+30 V_{DC}) to the Modbus device (e.g., M-7055D, Device ID: 1).

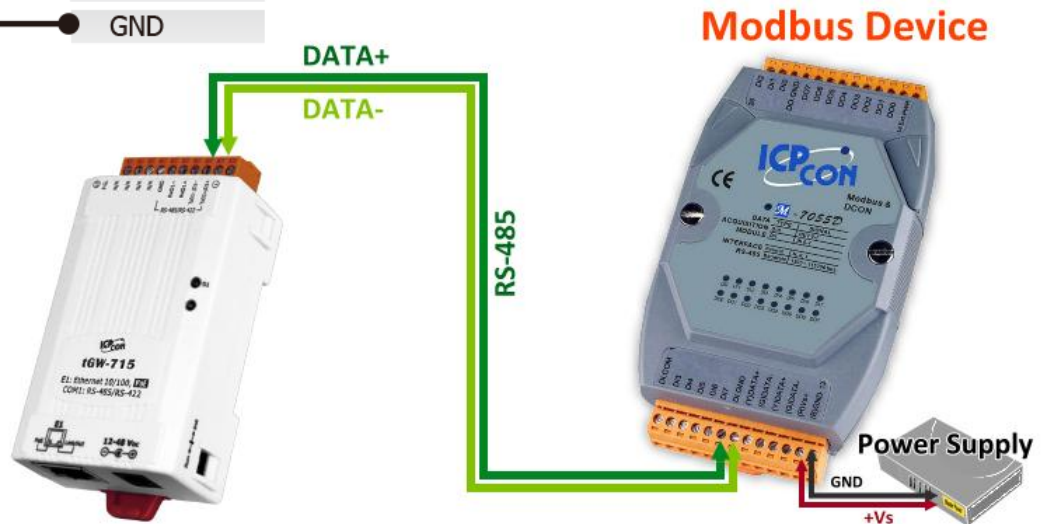
➤ RS-232 Wiring:

tGW-700		RS-232 Modbus Device
RxD	←	TxD
TxD	→	RxD
GND	—	GND



➤ RS-485 Wiring:

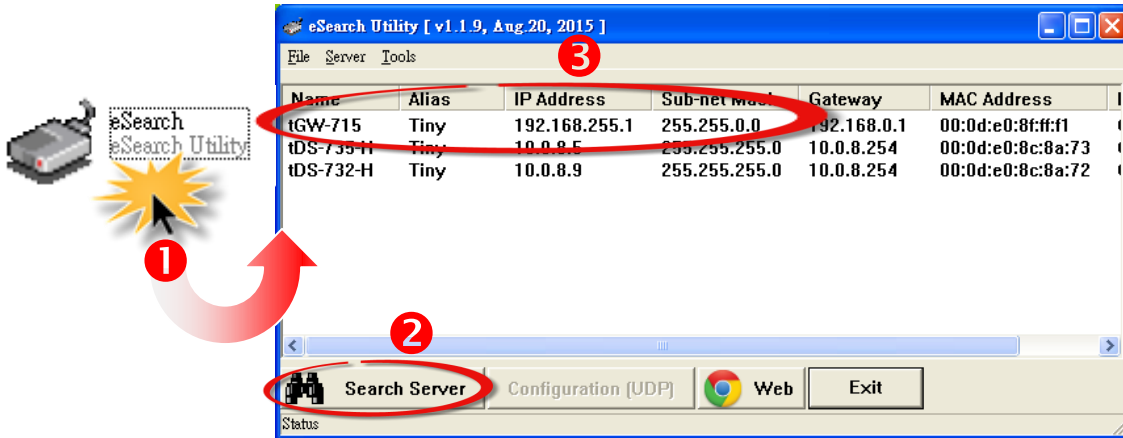
tGW-700		RS-485 Modbus Device
DATA1+	—	DATA2+
DATA1-	—	DATA2-
GND	—	GND



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Configuring Network Settings

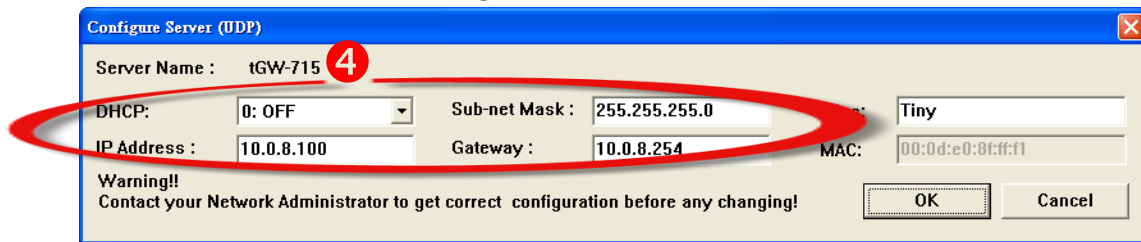
- 1 Double click the eSearch Utility shortcut on the desktop.
- 2 Click the “Search Servers” button to search your tGW-700/700i.
- 3 Double click the name of tGW-700/700i to open the “Configure Server (UDP)” dialog box.



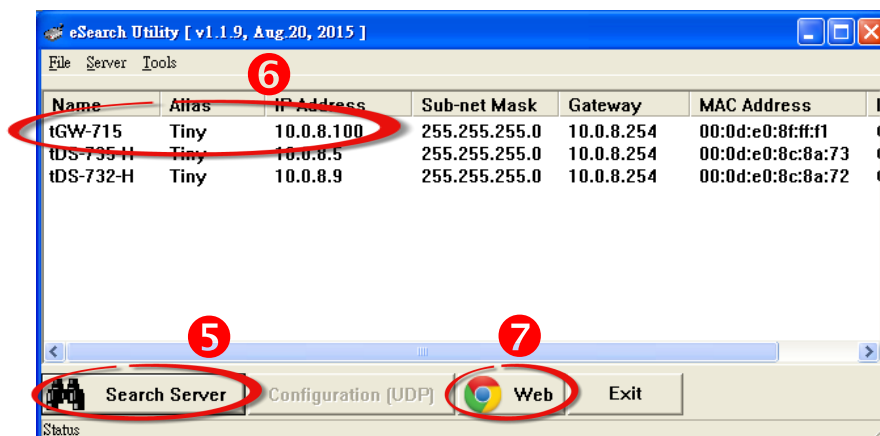
Factory Default Settings for the tGW-700/700i:

IP	192.168.255.1
Gateway	192.168.0.1
Mask	255.255.0.0

- 4 Contact your Network Administrator to obtain a correct network configuration (such as IP/Mask/Gateway). Enter the network settings and then click “OK”.
The tGW-700/700i will use the new setting 2 seconds later.



- 5 Wait 2 seconds and then click the “Search Servers” button again to ensure the tGW-700/700i is working well with new configuration.
- 6 Click the name of the tGW-700/700i to select it.
- 7 Click the “Web” button to log in to the web configuration pages. (Or enter the URL address of the tGW-700/700i in the address bar of the browser.)



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Configuring the Serial Port



Note that if you intend to use Internet Explorer, ensure that the cache function is disabled in order to prevent browser access errors, please disable your Internet Explorer cache as follow: (If you are not using IE browser, please skip this step.)

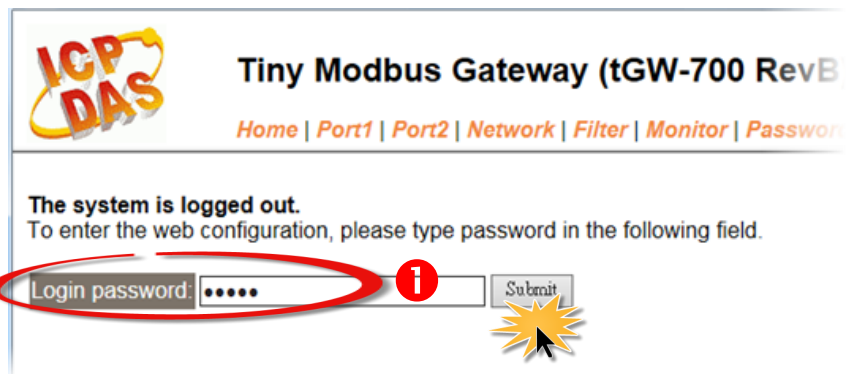
Step 1: Click “Tools” >> “Internet Options...” in the menu items.

Step 2: Click the “General” tab and then click the “Settings...” button in Temporary Internet files frame.

Step 3: Click the “Every visit to the page” and then click the “OK” button in Settings box and Internet Options box.

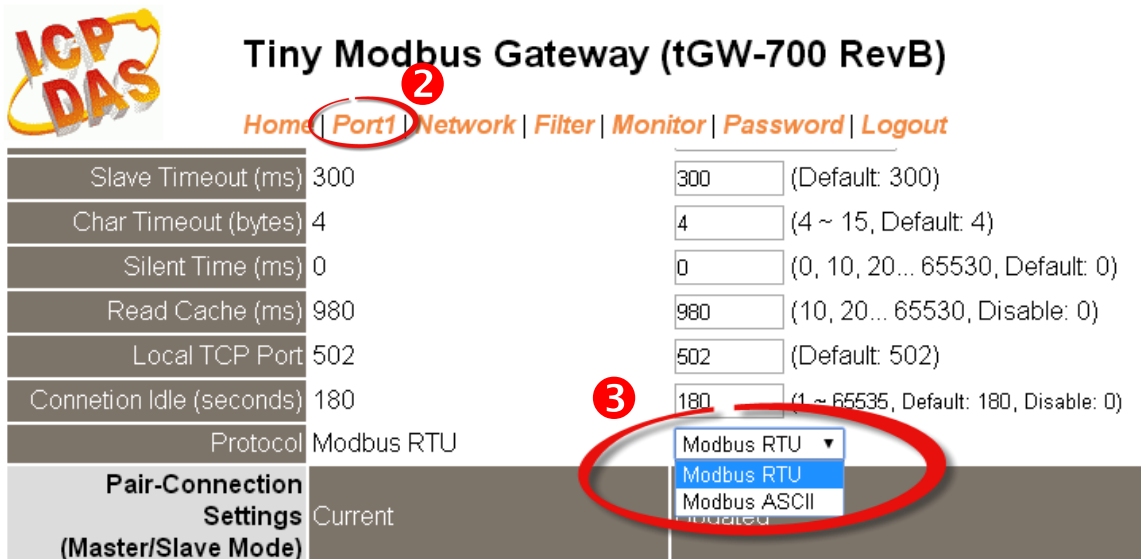
For more detail, please refer to [“FAQ: How to avoid a browser access error that causes a blank page to be displayed when using Internet Explorer”](#)

❶ Enter the password (use the default password “admin”) in the Login password field and click the “Submit” button.



❷ Click the “Port1” tab to display the Port1 Settings page.

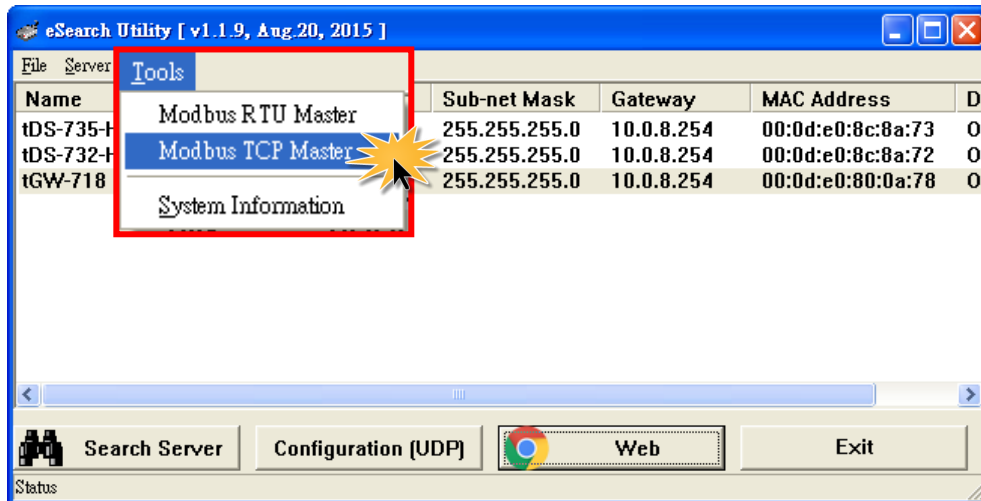
❸ Select the same Modbus protocol for tGW-700/700i in according to the protocol of the Modbus device (e.g., Modbus RTU/ASCII), and click the “Submit” button to save your settings.



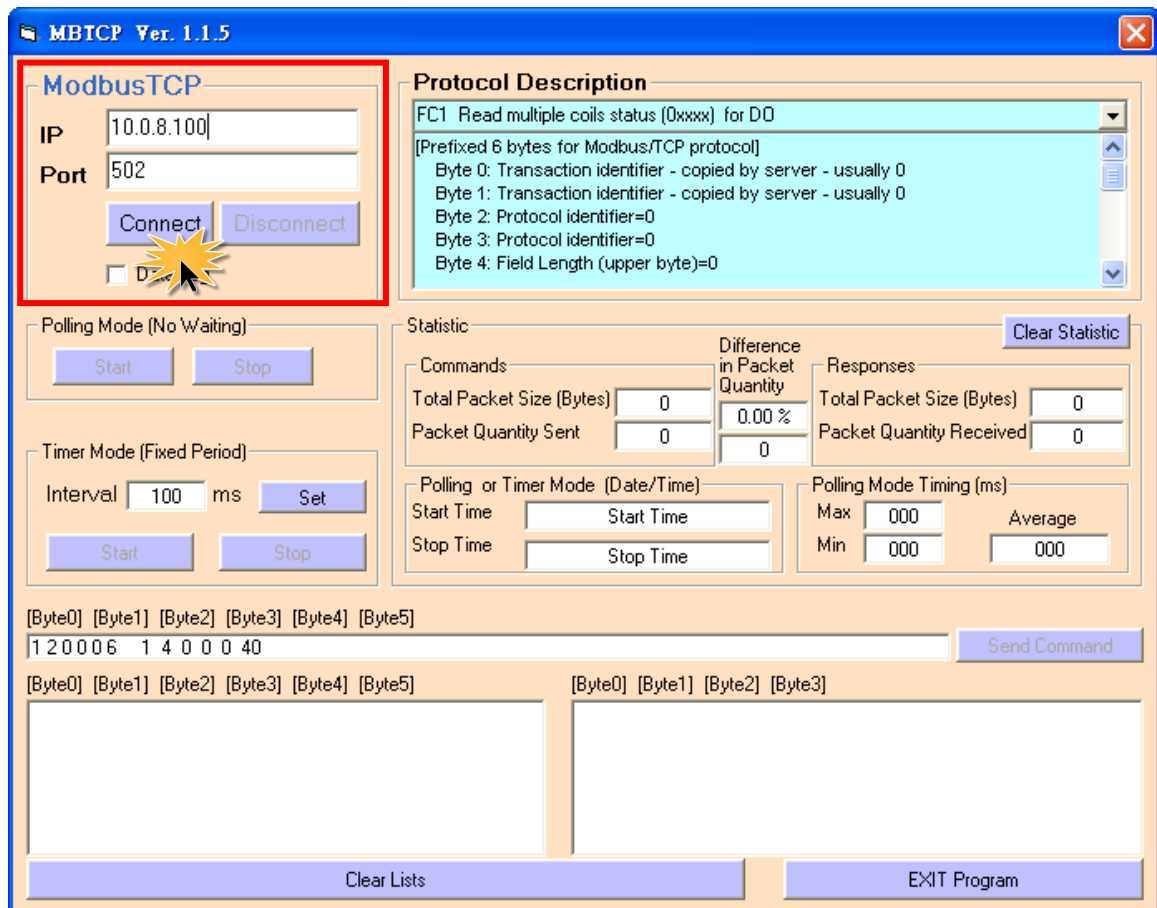
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Self-Test

- 1 In the eSearch Utility, select the **“Modbus TCP Master”** item from the **“Tools”** menu to open the Modbus TCP Master Utility.



- 2 In the Modbus TCP Modbus Utility, enter the **IP address of tGW-700/700i** and then click the **“connect”** button to connect the tGW-700/700i.

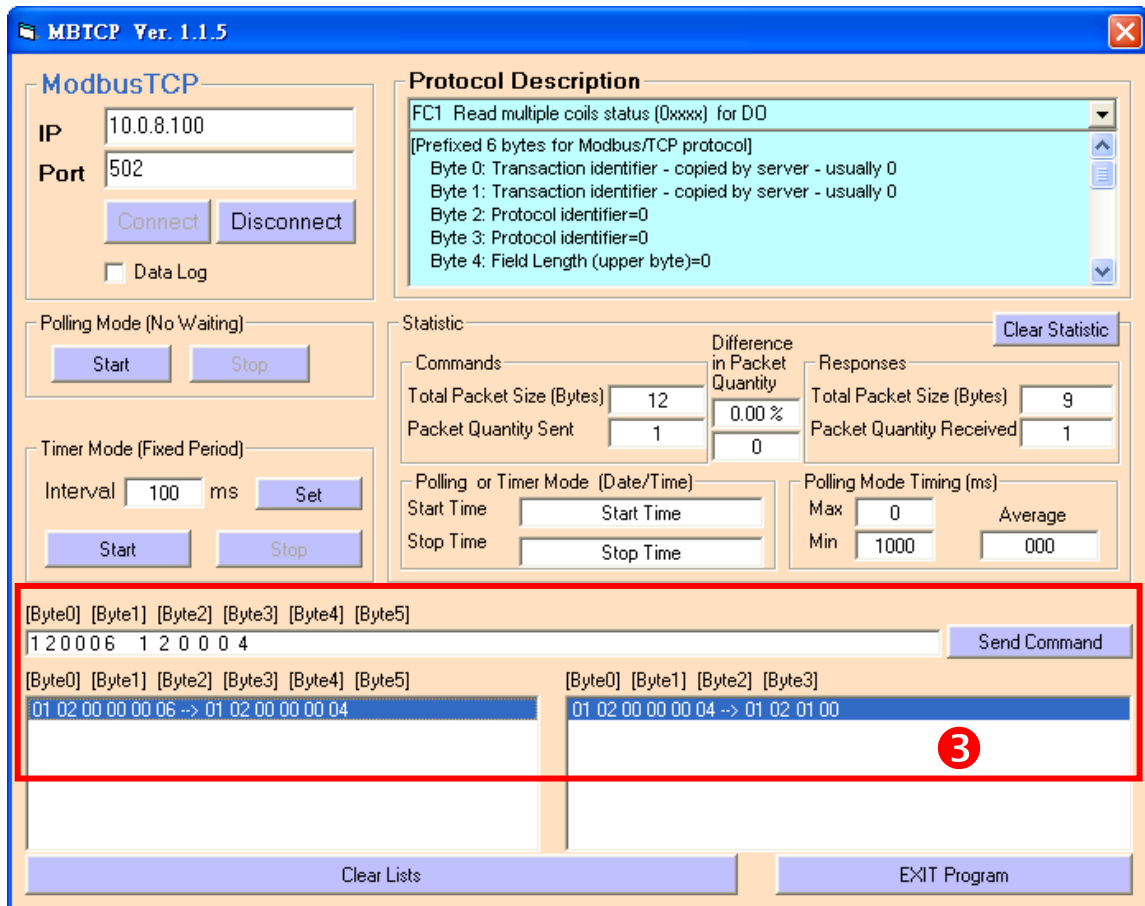


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Successful Testing

➊ Refer to “**Protocol Description**” section and type the command in the “**Command**” field then click the “**Send command**” button. If the response data is correct, it means the test is success.

e.g., If **M-7000 Modbus device ID = 1**, you send “**1 2 0 0 6 1 2 0 0 4**” for reading D/I value, you receive response “**1 2 0 0 4 1 2 1 0**” as shown below.



Related Information

- tGW-700/700i product page:
http://www.icpdas.com/root/product/solutions/industrial_communication/pds/tgw-700.html
- Documentation & Firmware:
CD: \Napdos\tGW-700\
<http://ftp.icpdas.com/pub/cd/tinymodules/napdos/tgw-700/>
- M-7055D and I-7520 product page (optional):
http://www.icpdas.com/root/product/solutions/remote_io/rs-485/i-7000_m-7000/i-7055.html
http://www.icpdas.com/products/Remote_IO/i-7000/i-7520.htm