tGW-700-UL Series Quick Start

v1.0, Jun 2025

Packing List

In addition to this guide, the package includes the following items:



tGW-700-UL X 1



CA-002-UL

Technical Support

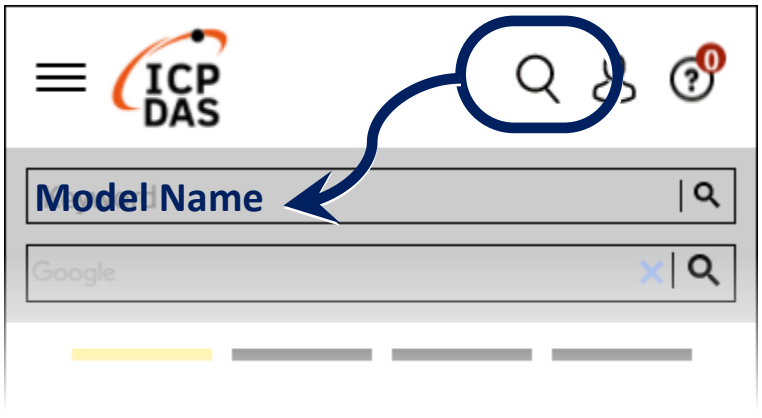
service@icpdas.com

www.icpdas.com

Resources

How to search for drivers, manuals and spec information on ICP DAS website.

- For Mobile Web



- For Desktop Web



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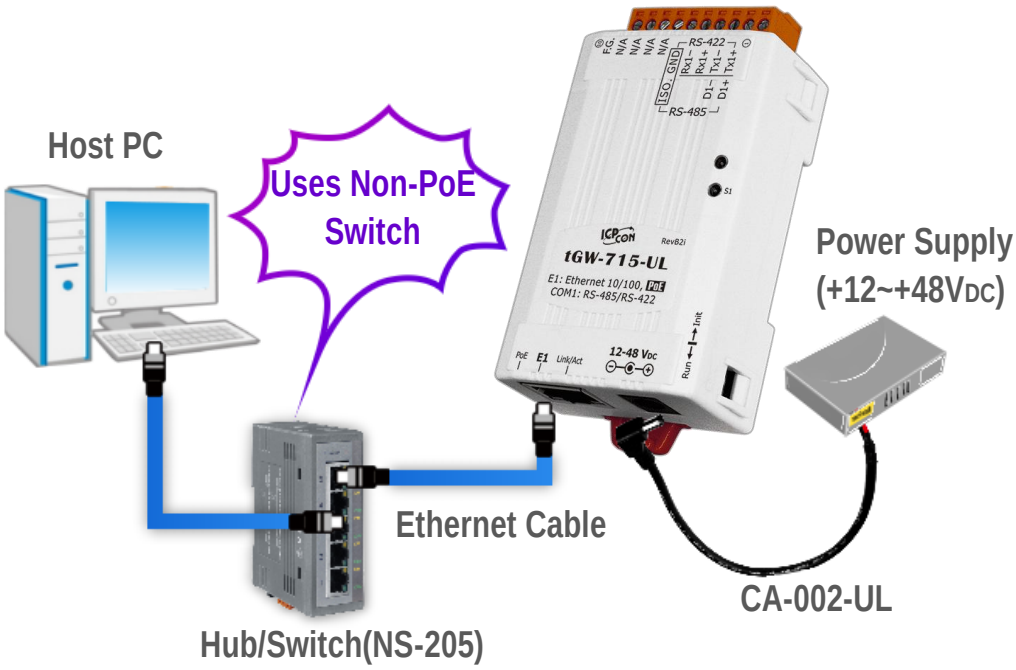
1 Connecting the Power and Host PC

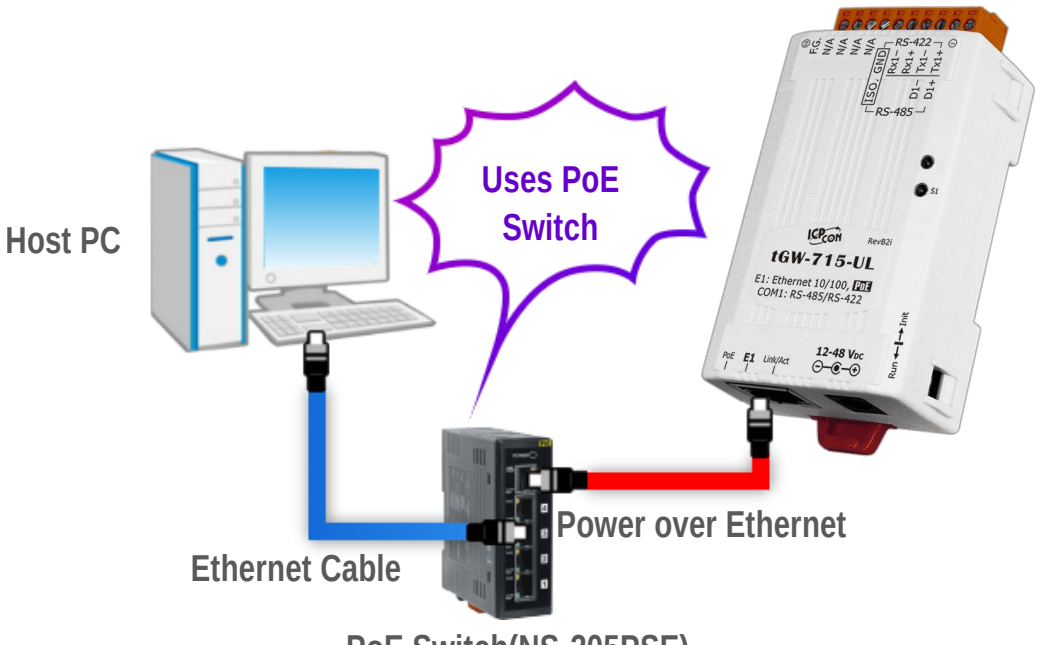
1) Make sure your PC has workable network settings.

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)

2) Connect both the tGW-700-UL and your PC to the same sub network or the same Ethernet switch.

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

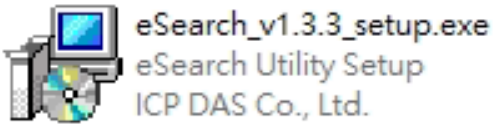




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2 Installing Software on Your PC

Install eSearch Utility, which can be obtained from the web site:

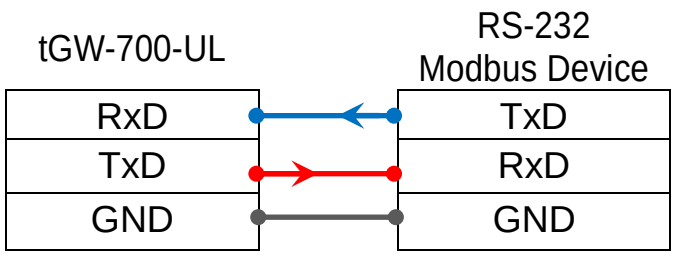


https://www.icpdas.com/en/download/show.php?num=1327&nation=US&kind1=&model=&kw=esearch

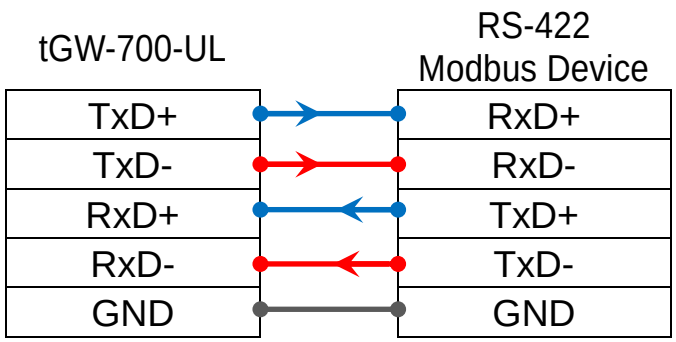
3 Wiring Notes

☑: Here, the **RS-485** wiring is used as an example.

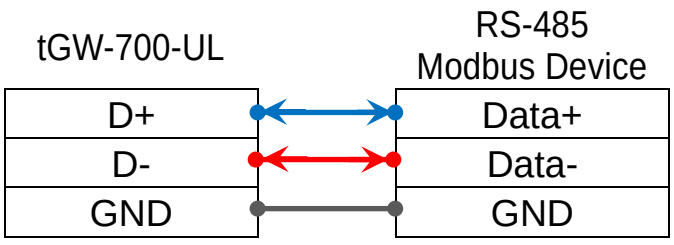
☐ **RS-232 wiring**



☐ **RS-422 wiring**



☑ **RS-485 wiring**



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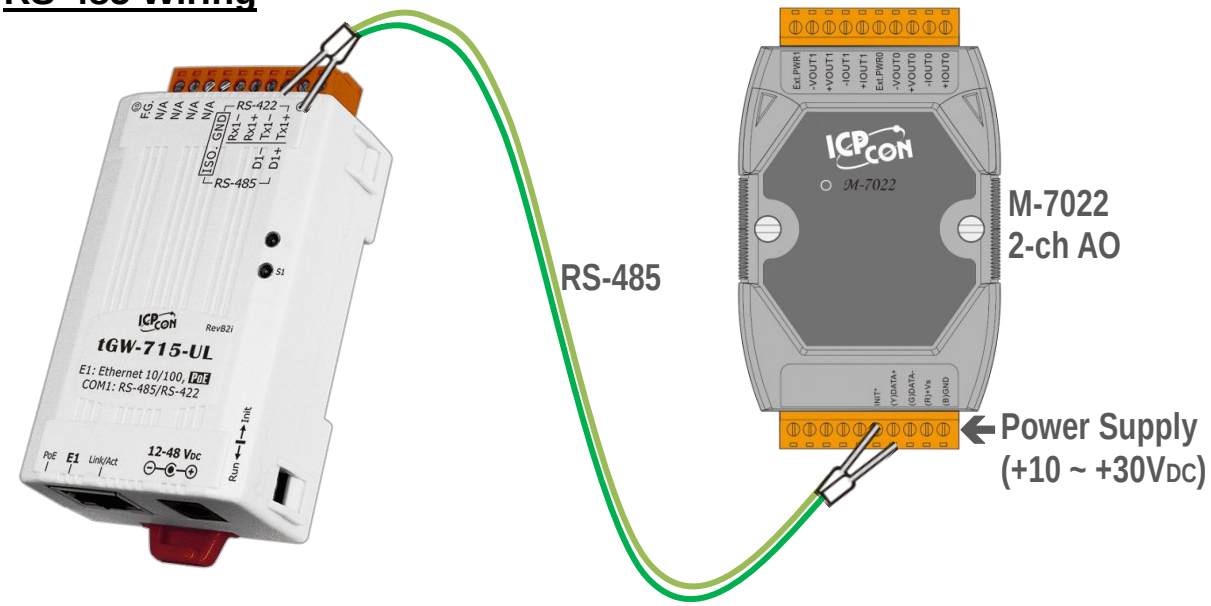
4 Connecting the Modbus Devices

1) Connect the Modbus device (e.g., M-7022, optional) to the COM1 on tGW-700-UL.

2) Supply power to the Modbus device (e.g., M-7022, Device ID: 1).

⚠ **Note: The wiring and supply power method depend on your Modbus device.**

➢ **RS-485 Wiring**

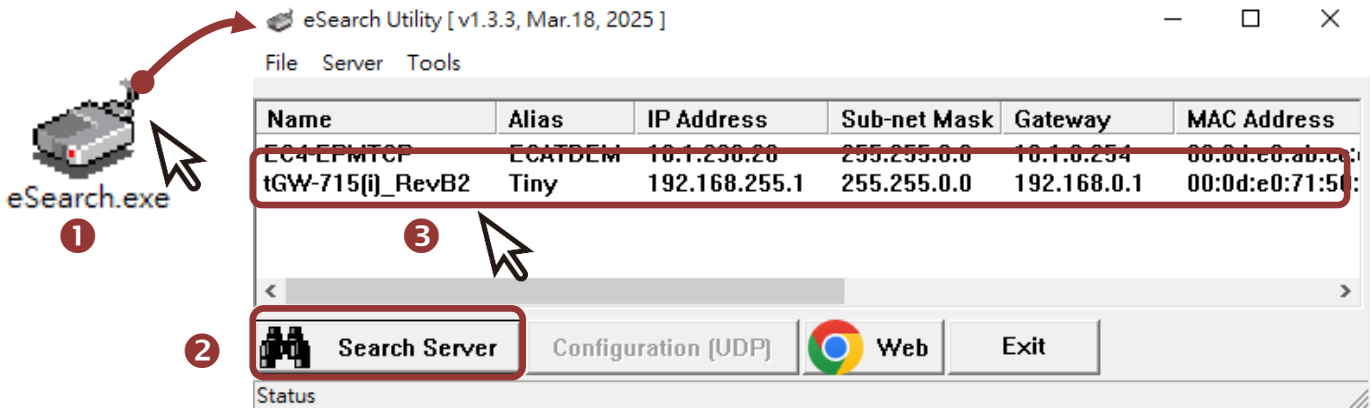


5 Configuring Network Settings

1) Double-click the eSearch Utility shortcut on the desktop.

2) Click the **"Search Servers"** to search your tGW-700-UL.

3) Double-click the name of tGW-700-UL to open the **"Configure Server (UDP)"** dialog box.



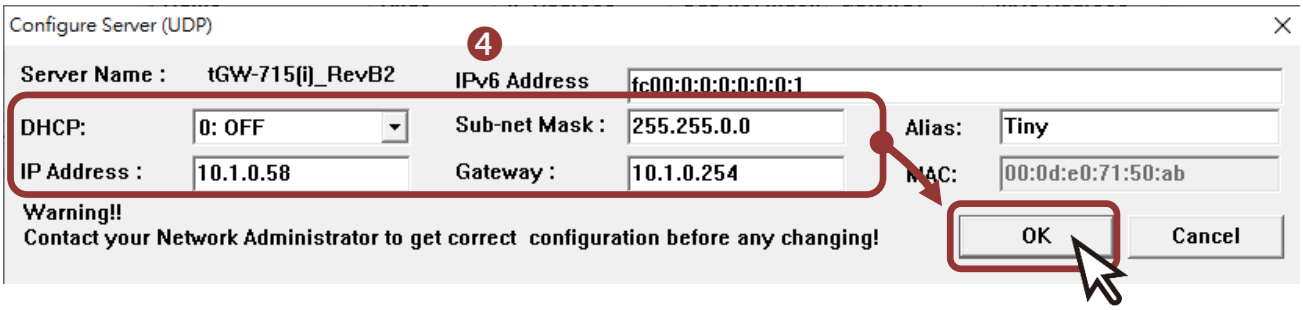
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Factory Default Settings of tGW-700-UL:

IP Address	192.168.255.1
Subnet Mask	255.255.0.0
Gateway	192.168.0.1

4) Contact your Network Administrator to obtain a correct network configuration (such as **IP/Mask/Gateway**). Enter the network settings and click **"OK".**

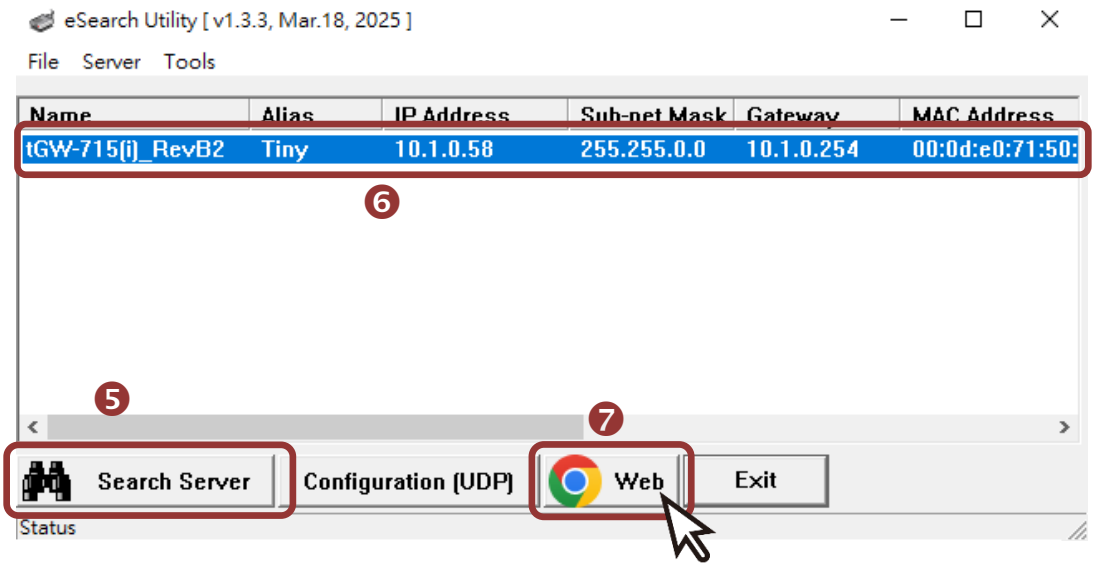
⚠ **Note: The tGW-700-UL will use the new settings 2 seconds later.**



5) Wait 2 seconds and click **"Search Servers"** button again to ensure the tGW-700-UL is working well with new configuration.

6) Click the name of tGW-700-UL to select it.

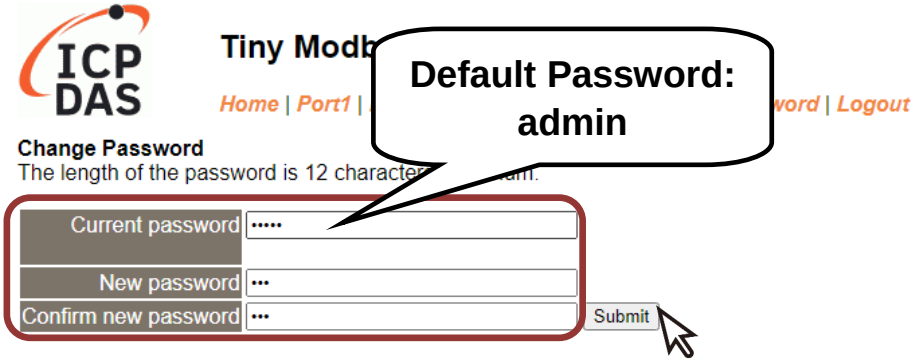
7) Click the **"Web"** button to log in to the web configuration pages.
(Or enter the URL address of the tGW-700-UL in the address bar of the browser).



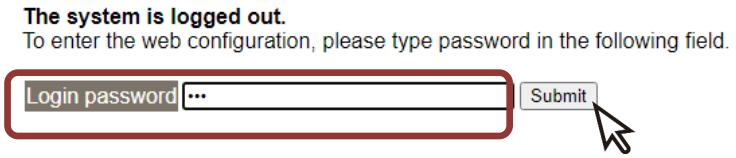
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6 Configuring the Serial Port

1) For the first time using the module, you have to change the password and click the **"Submit"** button.



2) Enter the new password in the "Login password" field and click the **"Submit"** button.

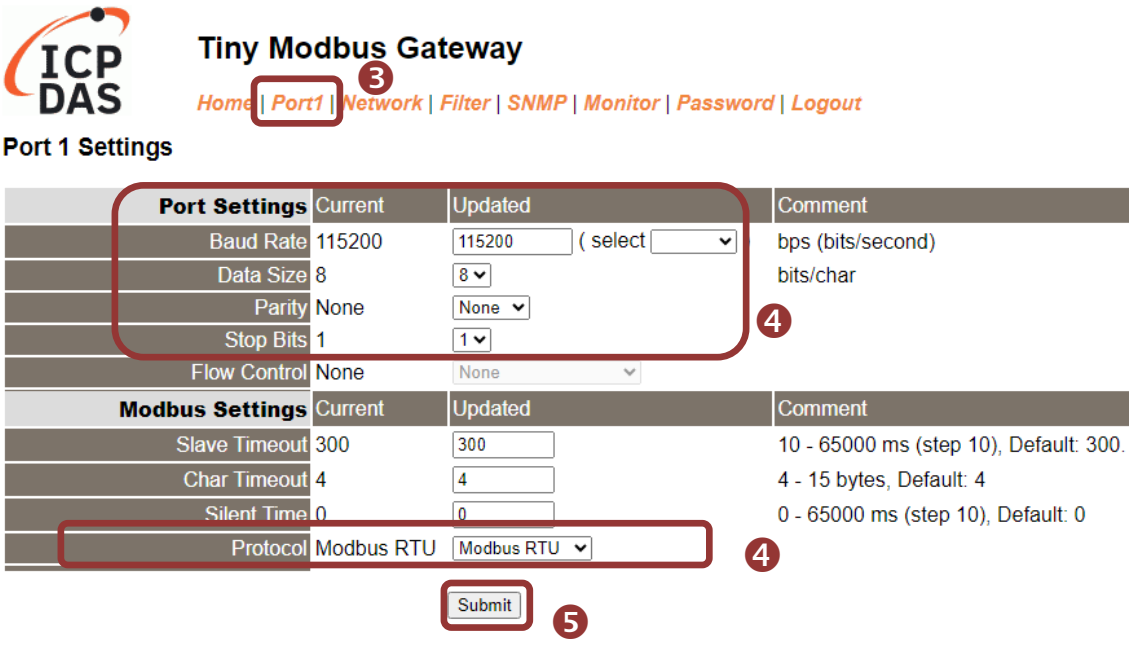


3) Click the **"Port1"** tab to display the **"Port1 Settings"** page.

4) Select the appropriate **Baud Rate, Data Format and Modbus Protocol** (e.g., 115200, 8N1 and Modbus RTU) from the relevant drop down options.

⚠ **Note: The Baud Rate, Data Format and Modbus protocol settings depend on your Modbus device.**

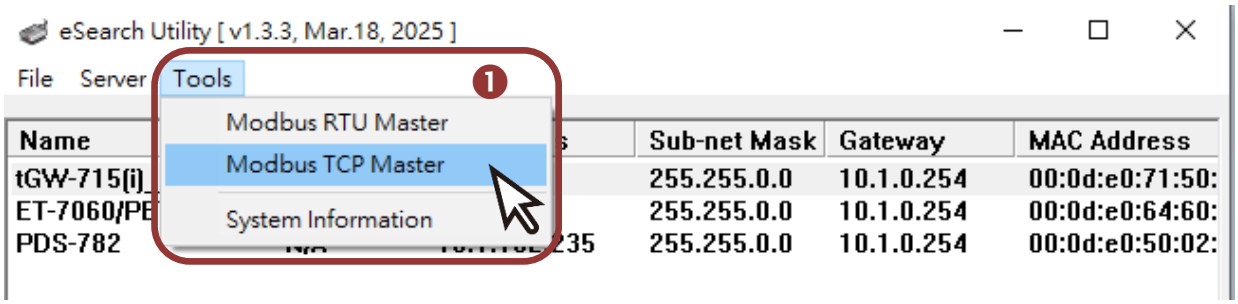
5) Click **"Submit"** to save your settings.



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7 Self-Test

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

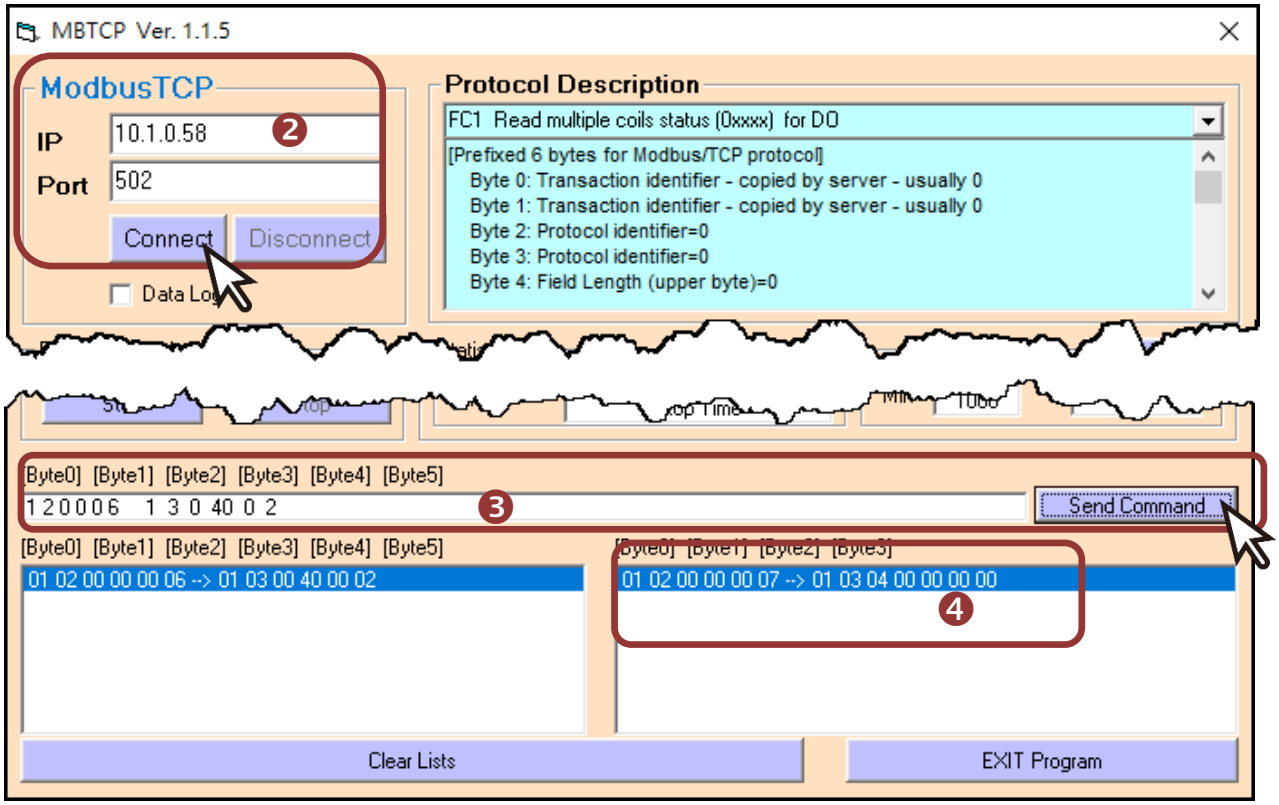


2) In the Modbus TCP Modbus Utility, enter the IP address of tGW-700-UL and click **“Connect”** to connect the tGW-700-UL.

3) Refer to **“Protocol Description”** section and type the Modbus command in the “Command” field then click **“Send command”**.

4) If the response data is correct, it means the test is success.

⚠ **Note: The Modbus command settings depend on your Modbus device.**



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Safety Instructions Consigns

To prevent possible electrical shock, fire, or personal injury and for safe operation of the product:

1. Power Supply

- Use only with the voltage and frequency specified on the product label.

2. Important Notes on Operating Environment

- Disconnect the power and network cables during thunderstorms to prevent damage.
- Do not use the product around explosive gas, vapor, or in damp or wet environments.

3. Ventilation and Cooling

- Do not block ventilation openings; ensure adequate space around the device for heat dissipation.

4. Avoid Liquid Contact

- This product is not waterproof; keep it away from liquids and humid environments.

5. Maintenance and Service

- Do not attempt to disassemble or repair the device.
- Do not use the product if it is damaged or operates incorrectly. Contact service centers.

6. Warranty Limitation

- Damages resulting from failure to follow safety instructions are not covered under warranty.
- This product is covered by a limited warranty according to the ICP DAS official warranty policy.

Contact Information

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