iWSN-200E Quick Start

v1.2, February 2022

Packing List

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



iWSN-200E
(included antenna)



Screw Driver

Technical Support

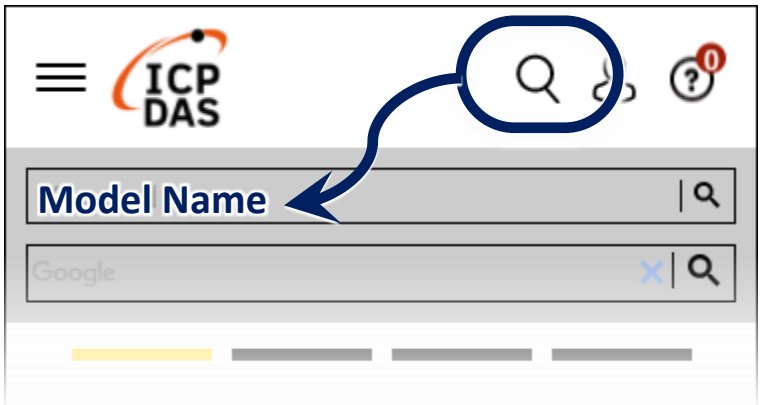
service@icpdas.com

www.icpdas.com

Resources

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

- For Mobile Web

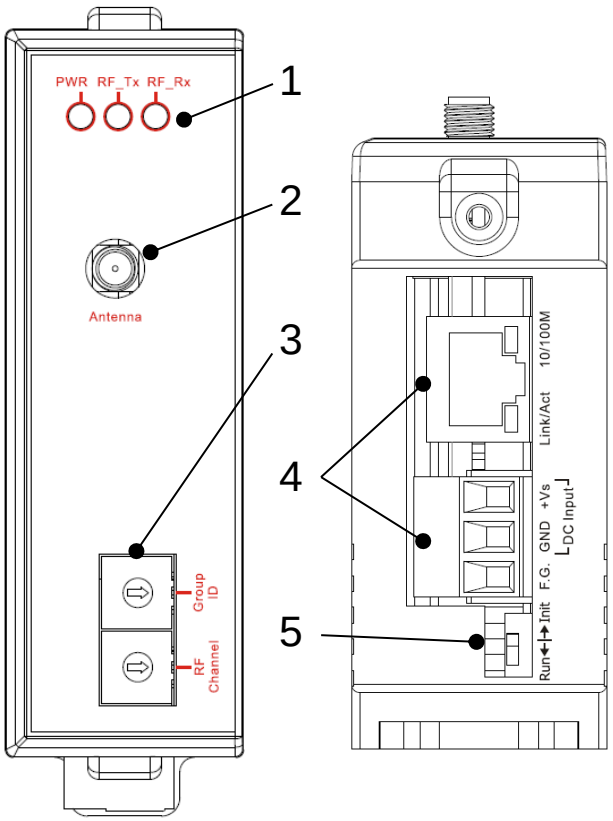


- For Desktop Web



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1. Appearance



Number	Instructions
1	LED indicators
2	Antenna connector (type RP-SMA)
3	Rotary switch of Communication parameter setting
4	Terminal and Ethernet port
5	DIP switch of operation mode

2. Pin Assignments

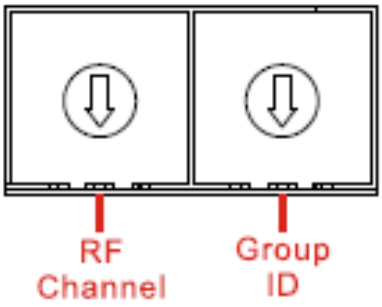


Number	Name	Instructions
4	RJ-45 interface	Ethernet port and supply PoE power
3	+Vs	+10V~+30VDC
2	GND	Ground
1	F.G.	Shield ground

Switch	Instructions
Init	Initial mode
Run	Run mode

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3. Communication Parameter



Rotary switch	Instructions
RF Channel	0 ~ F = ch 0 ~ ch F
Group ID	0 ~ 7 = GID 0 ~ GID 7 8 ~ F = Reserved, fix GID 0

4. LED Indicators

The module provides three LED indicators, including power, wireless transmission and wireless reception status. The table below will show the LED status indicator.

Indicator		Color	Status	Instructions
Power status	PWR	Red	ON	Power on
			OFF	Power off
Wireless transmission status	RF_Tx	Green	Flashing	Wireless data has been transmitted
			OFF	No data be transmitted
Wireless reception status	RF_Rx	Yellow	Flashing	Wireless data has been received
			OFF	No data be received

In addition, the LED indicators of RJ-45 interface in Ethernet as below table:

Indicator	Color	Status	Instructions
Link/Act	Green	Flashing	Communicating.
10/100M	Yellow	ON	100 Mbps.
		OFF	10 Mbps or Ethernet disconnected.

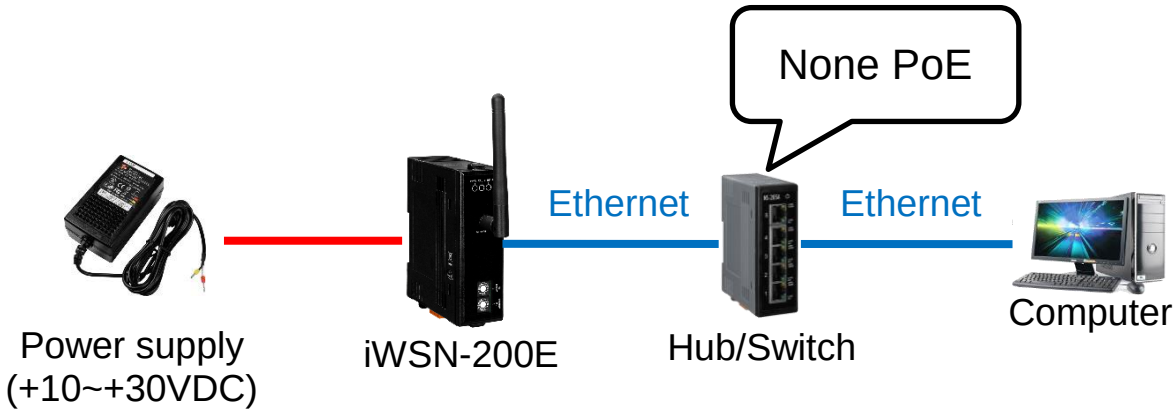
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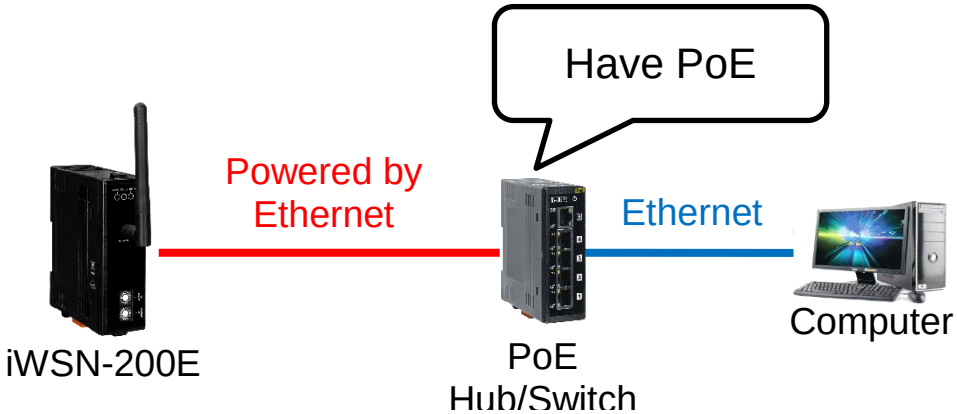
5. Connecting power and computer to module

A. Confirm the Ethernet setting of your computer is correct and be worked. Confirm both firewalls of Windows and antivirus software has closed or correct setting in your computer to avoid **"Search Server"** function in chapter 6 can't search to iWSN-200E. (Please conform to your administrator)

B. Connecting iWSN-200E and computer to same Hub/Switch or same sub network, and confirm the Init/Run switch of module to Run position, and then adjust rotary switch to let RF channel and Group ID same with iWSN sensors.

C. Supplying power (+10~+30VDC) or powered by PoE to iWSN-200E.





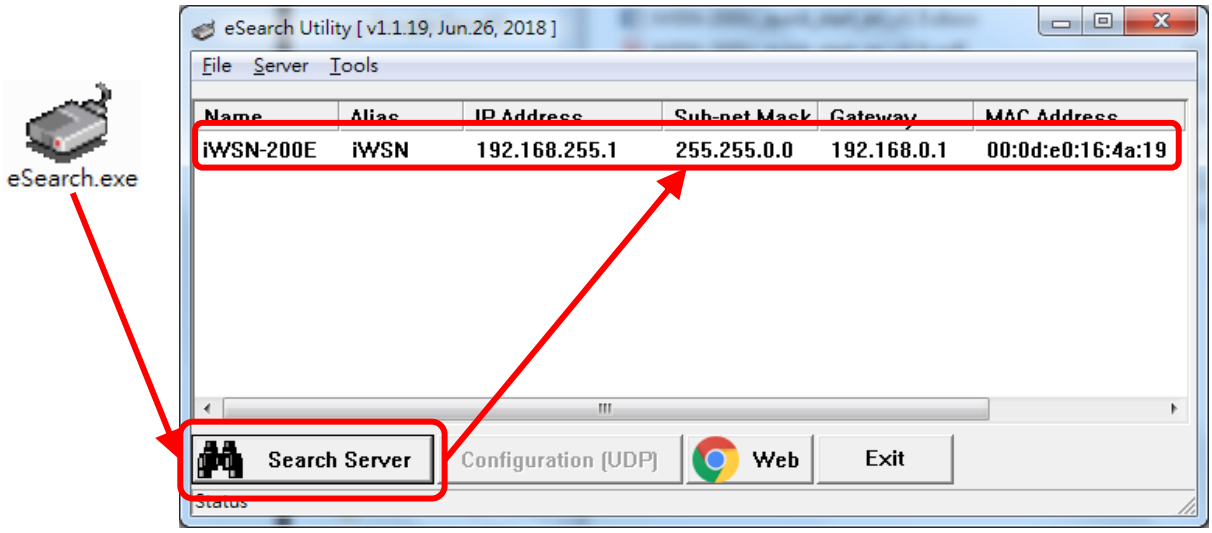
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6. Configuring the correct network parameter

There are two methods to configure network parameter, the user can use eSearch Utility or browser to configure as below.

一、Using eSearch Utility software：

A. Installing eSearch Utility, the user can download from ICP DAS website as below link: http://www.icpdas.com/en/download/index.php?nation=US&kind1=&model=&kw=esearch
B. Double click the eSearch Utility shortcut icon in desktop.
C. Click **"Search Server"** button to search your iWSN-200E.
D. Double click your iWSN-200E to open **"Configure Server (UDP)"** configuration dialog.

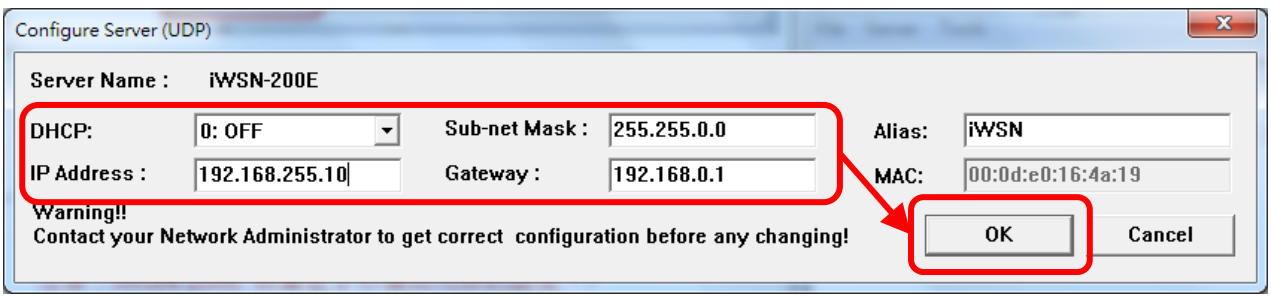


The factory default values of iWSN-200E as below table:

IP Address	192.168.255.1
Sub-net Mask	255.255.0.0
Gateway	192.168.0.1

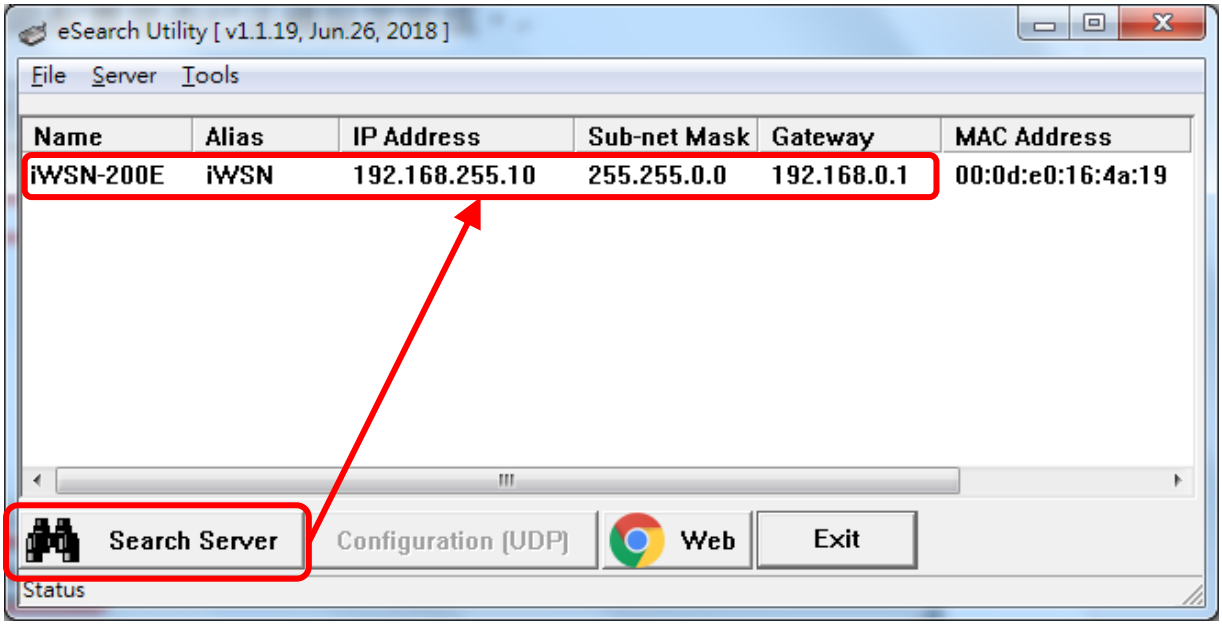
E. Key in the network configuration (IP/Mask/Gateway), and then click **"OK"** button.

Note: iWSN-200E will use new setting after 2 seconds.



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F. After 2 seconds, click **“Search Server”** to search iWSN-200E, and confirm the network configuration of previous step whether be correct set.



二、Using browser

Note: If your using browser is Internet Explorer, in order to ensure the web server of iWSN-200E can display properly, please be sure to close the IE cache first, the step as below:
(If your using browser isn’t Internet Explorer, please skip these steps.)

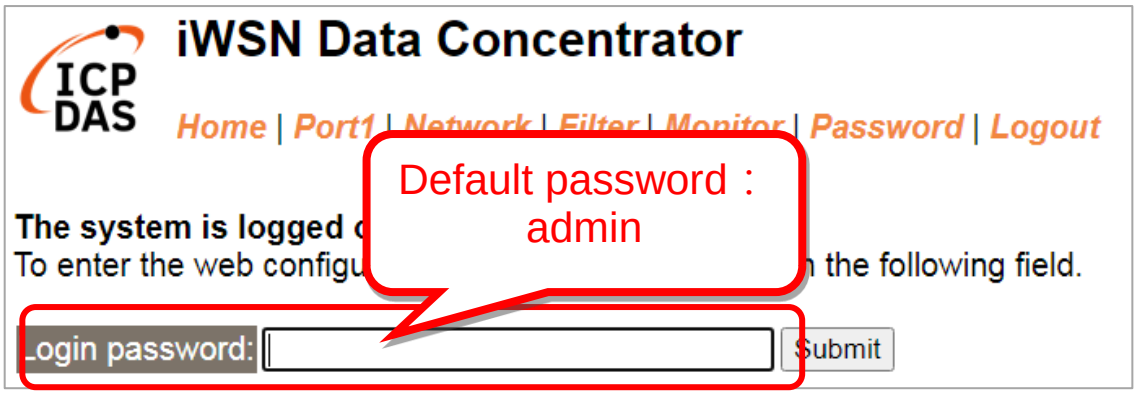
Step1 : In the IE browser menu, click **”Tools (T)”** → **“Internet Options (O)”**.

Step2 : After entry the option box, click **“General”** tab, and then click **”Settings (S)”** button in the browsing history record to entry network data setting box.

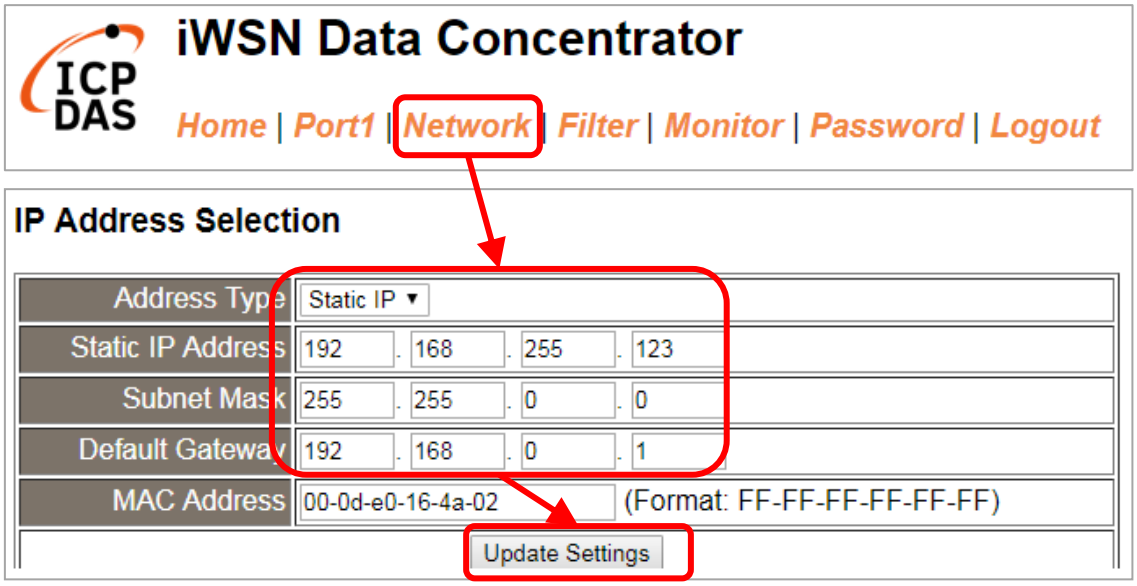
Step3 : In the **“Temporary Internet Files”** label, click **“Every visit to the page (E)”**, and then click **“OK”** button to finish setting.

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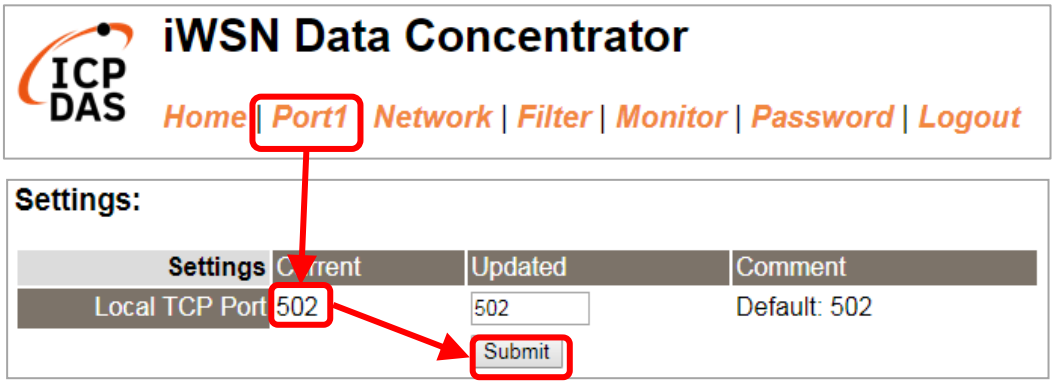
A. After key in password in Login password field, click **“Submit”** button.



B. After click **“Network”** item, the web will display IP Address Selection page. Key in network configurations (IP/Mask/Gateway), and click **“Update Setting”** button.



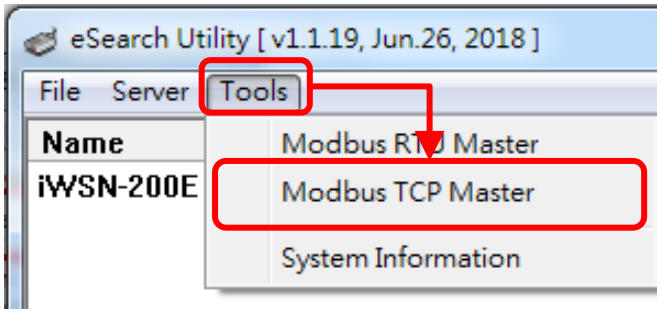
C. After click **“Port1”** item, the web will display Setting page. Key in Port number, and click **“Submit”** button.



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7. Self-Test

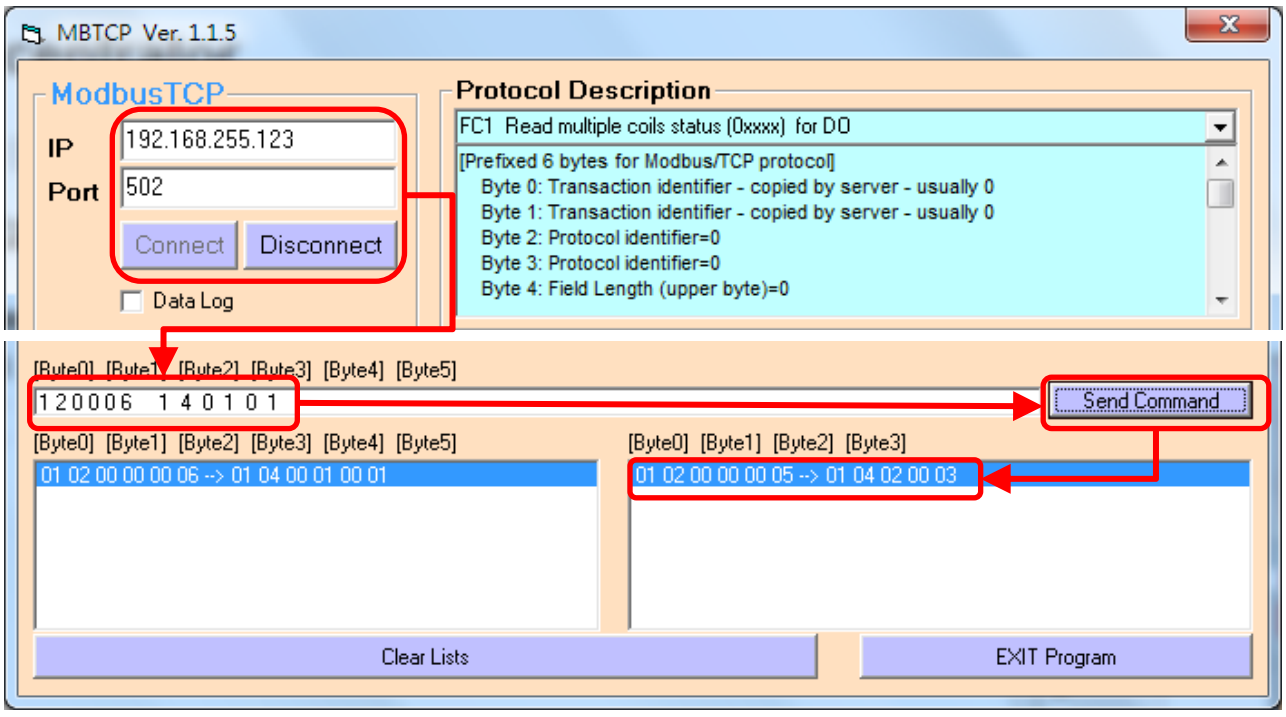
A. The eSearch Utility in chapter 6 have supply a test software, the user can click **“Tools”** → **”Modbus TCP Master”** to open Modbus TCP Master Utility.



B. Key in the IP address of iWSN-200E in Modbus TCP Master, and then click **”Connect”** button to connect iWSN-200E.

C. Key in Modbus command such as: 1 2 0 0 0 6 1 4 0 1 0 1 in command field, and then click **“Send command”** button.

D. If the response messages such as 01 04 02 00 03 is correct, and the 00 03 (0x0003, Hex) is the module code of iWSN-200E that mean test successfully.



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