



MODBUS TCP/IP



Website: <http://www.we-con.com.cn/en>

Technical Support: liux@we-con.com.cn

Skype: "fcwkkj" or "Jason.chen842"

Phone: 86-591-87868869

QQ Group: 465230233

Technical forum: <http://wecon.freeforums.net/>



1. General

- 1) The application layer of WECON HMI makes use of Modbus TCP, which makes industrial Ethernet data exchange achievable.
- 2) It's easier to interconnect with different systems: available to management network, real-time monitoring network and field devices communication.
- 3) Low cost of network's implementation: available to apply a common network component.
- 4) High data rate: high transmission capacity, the transmission result of 100M Ethernet is 4000 Modbus TCP messages per second, while each message can transfer 125 words, which is equivalent to $4000 \times 125 = 500000$ analog data (8000000 switch).

2. Parameter Settings

This sector introduces the setting in HMI.

2.1 HMI IP setting

Operation Procedure

- 1) Click [Project] in menu;
- 2) Click [Project Settings] in [Settings] toolbar to open the setting screen;
- 3) Click [HMI IP] in setting screen, and enter the IP as Figure 1 shows;

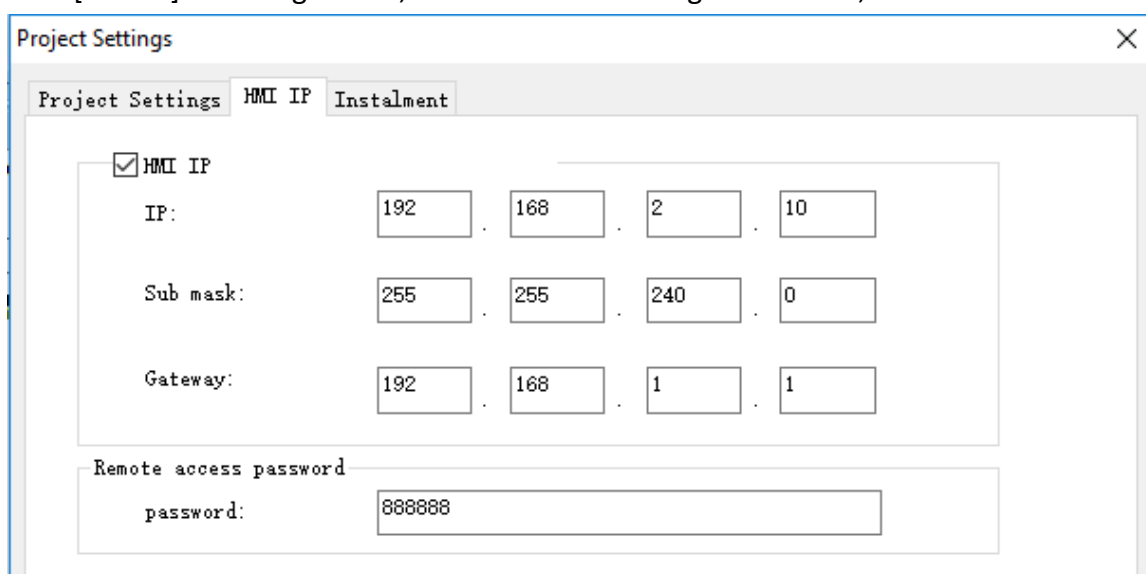


Figure 1

- 4) Click [OK] to save the settings;

2.2 HMI communication setting

Operation Procedure

- 1) Click [Project] in menu;
- 2) Click [Communication] in [Settings] toolbar to open the setting screen;
- 3) Select the protocol;
- 4) Set the TCP/IP parameters ;
 - PLC IP Address: It is for setting the communication device's IP (salve device);
 - PLC port No.: It is for setting the communication device's port;
 - Network: It is better to use the default, but also check the real device network type;
 - Click [OK] to save the settings in TCP/IP parameters;

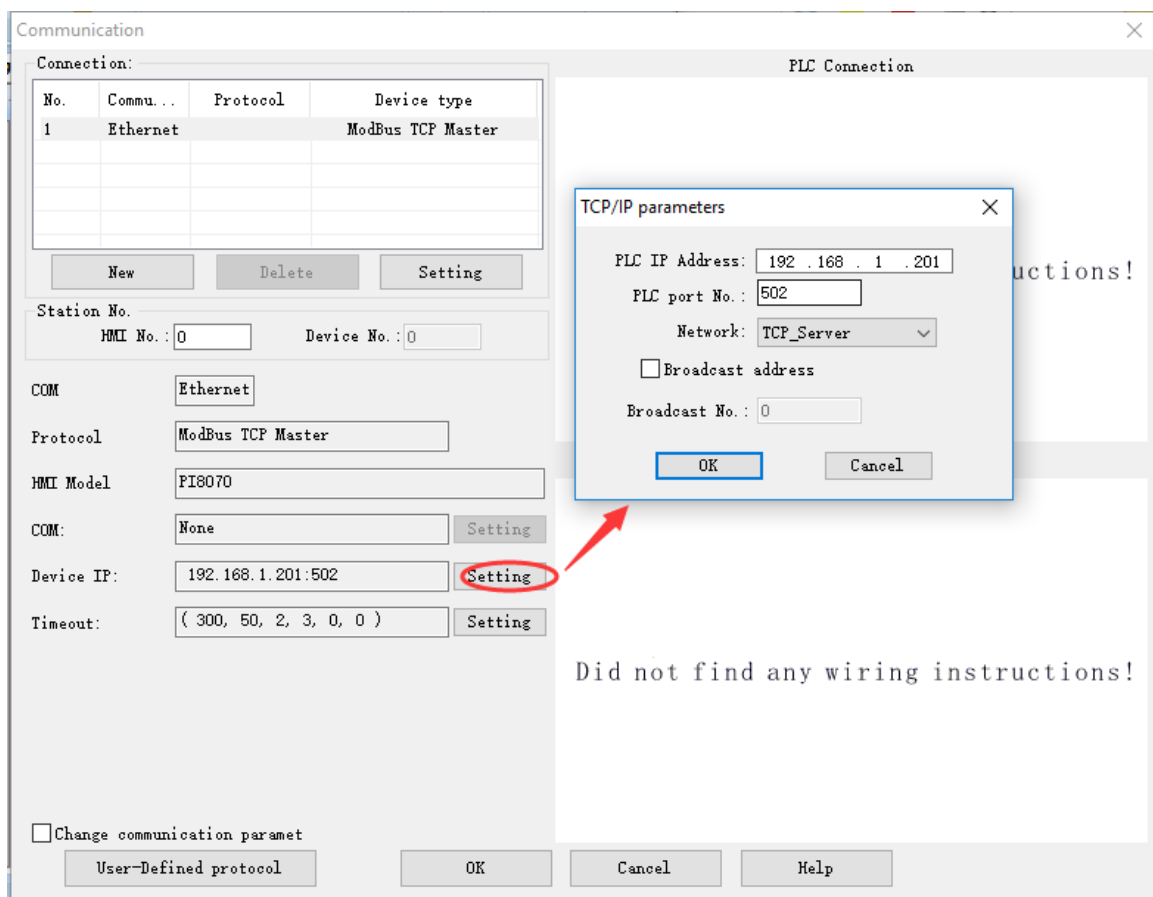


Figure 2

- 5) Click [OK] to save the settings;

3. Conclusion

Modbus protocol is field-bus protocol which only consists of physical layer and data layer. It's particularly suitable for the application situation with simple architecture and low cost. Through supporting Modbus TCP/IP protocol, WECON touch panel is able to communicate with PC and other devices. It not only

reduces the cost of system design, but also increases the versatility of the equipment, which provides convenience for users.

4. Examples

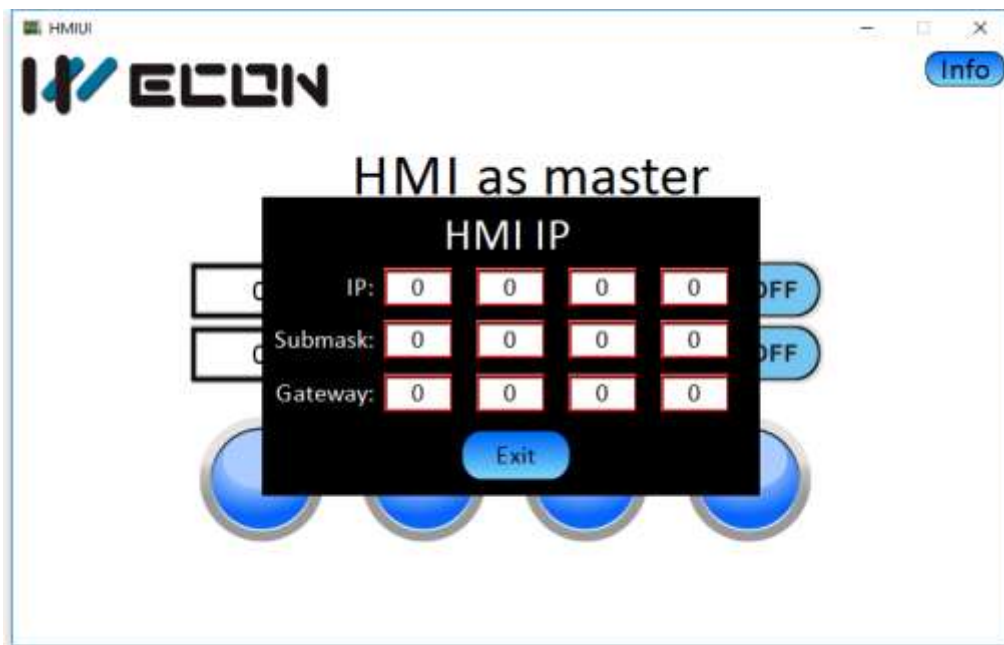


Figure 3

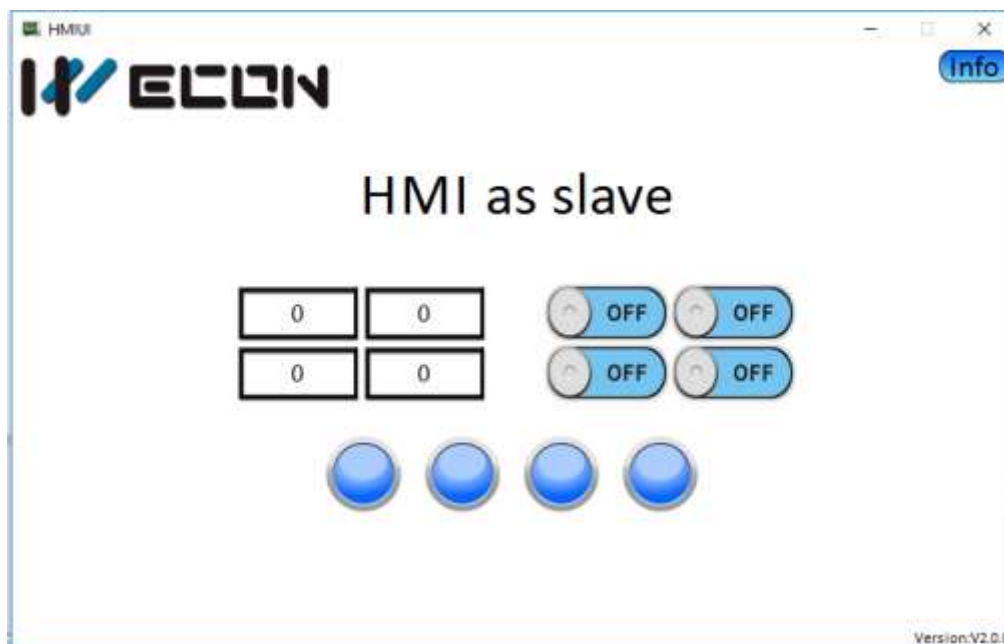


Figure 4