THT02 Quick Use Procedure

1. Wiring

THT02 has four leads, of which the red line is connected to the positive VCC of the power supply, the black line is connected to the negative GND of the power supply, the yellow line is connected to the RS485 line A+, and the green line is connected to the RS485 line B -.

If the customer needs to take the machine for testing or configuration, all four wires should be connected, that is, VCC+, GND - should be connected to the corresponding power supply, RS485A+, RS485B - should be connected to the corresponding 485 transfer device, and the configuration can be carried out until the communication can be normal. If the customer does not have his own software to test, he can use modbus poll software. See steps 3 to 7 for the specific test method

2. Turn on electricity

After wiring is completed, power on is required. The THT02 supports a power supply voltage of 5~24V. After power on, the machine display screen will display data and the indicator light will be red

3. Open modbus poll software

Open the modbus poll software, click setup, and select Read/Write Definition, as shown in Figure 2
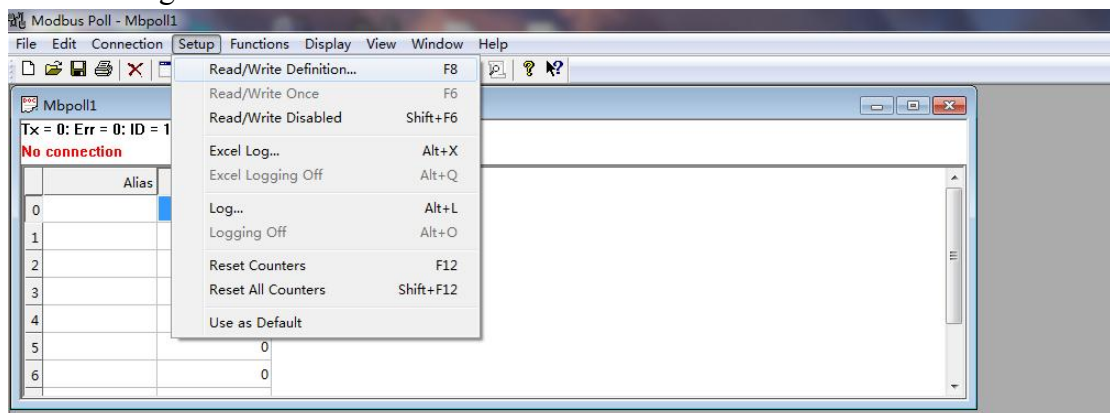

Figure 2

4. Parameter Setting

According to the modification in Figure 3, the slave ID is the host address, which should be consistent with the THT02 address before communication (the THT02 address is set through the dial switch); Quantity is the number of registers, and THT02 has 8 registers. Click "OK" after modification
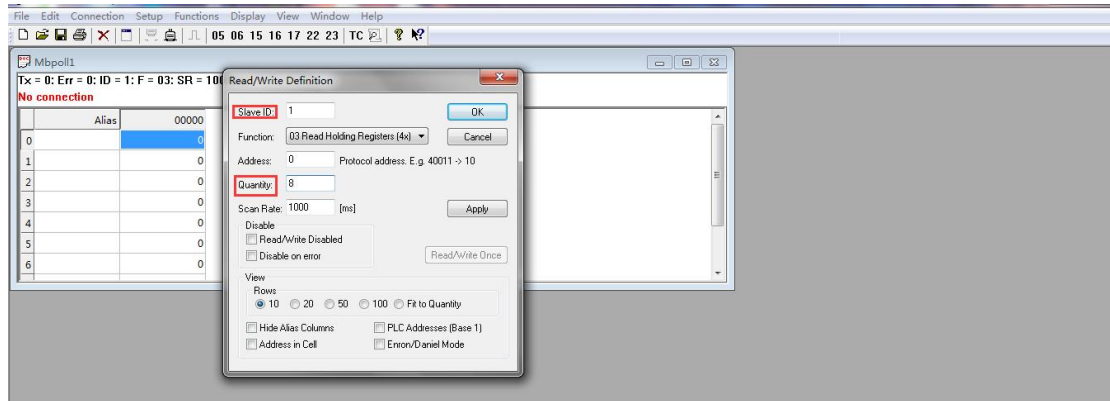

Figure 3

5. Use of dial switch

Figure 4

Note: The dial switch in Figure 4 has 8 dial bits in total. The numbers corresponding to 1-8 are 128, 64, 32, 16, 8, 4, 2, and 1. Since the "8" dial bit in Figure 4 has been turned to ON, the address of THT02 is 1. If multiple dial bits are ON, the address is the sum of the values of each dial bit

6. connection

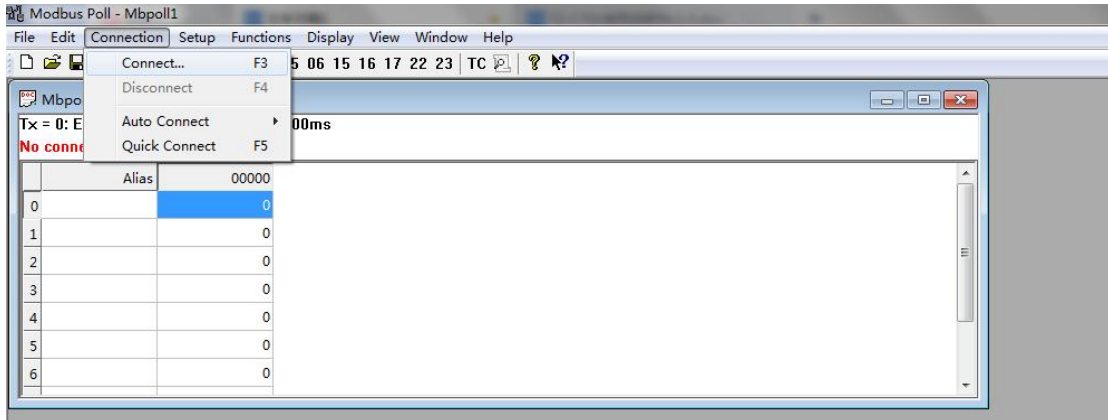Click connection and select connect, as shown in Figure 5

Figure 5

7. Port and baud rate

Modify according to Figure 6, where the port COM is determined according to the computer port; The baud rate defaults to 9600, which should be consistent with THT02 before communication; The data bit is 8 bits, the stop bit is 1 bit, and none parity. Click "OK" after setting
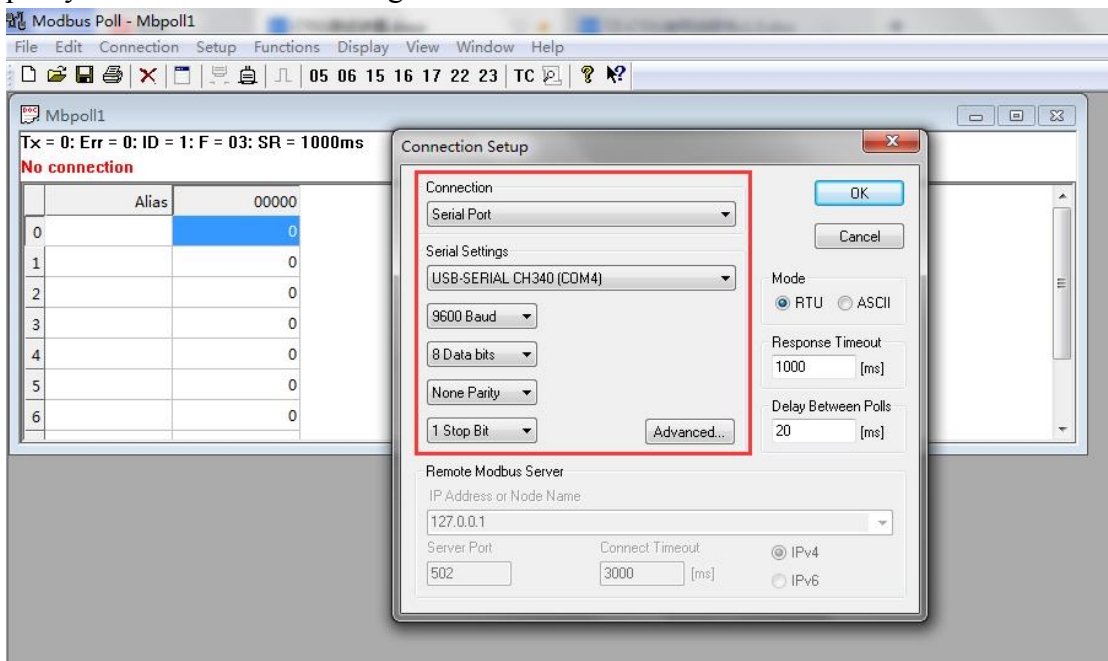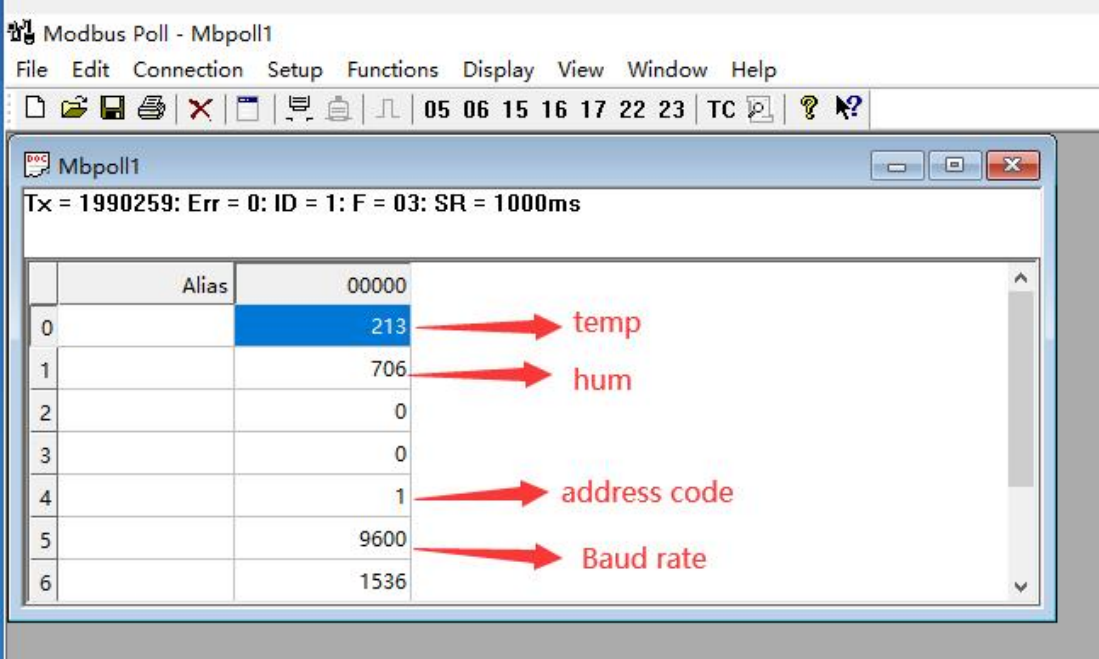

Figure 6

8. Connection succeeded

After completing the above steps, THT02 can communicate with the host. As shown in Figure 7, THT02 temperature is 21.3 ℃ ,humidity is 70.6%,address is 1 and baud rate is 9600

Figure 7

If communication cannot be achieved by following the above steps, please check the following information: whether the wiring is connected properly, whether the power supply is normal, whether the address code is consistent with the master and slave, and whether the baud rate is consistent with the master and slave