



ZHC466C

Point-to-Point Networking

**AO follow AI
Configuration Instructions**

V1.0

Contents

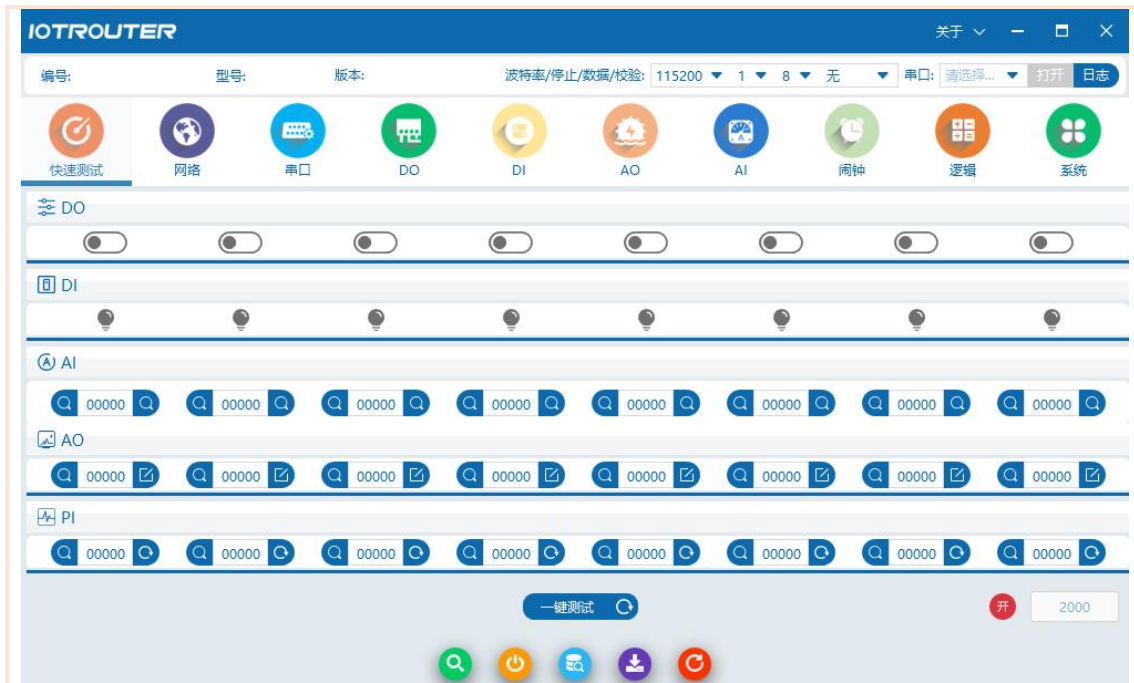
1. Configuring the network	3
1.1 Open the ZHC466C configuration software	3
1.2 Debugging parameters	3
1.2.1 Set basic parameters of device A	3
1.2.2 Set the system parameters of device A	5
1.2.3 Set basic parameters of device B	6
1.2.4 Set the system parameters of device B	7
1.2.5 Test whether the network is successful	8
2. Set up AO following AI	9
2.1 Open AI device	9
2.2 Data presentation	10
2.3 Offline output settings	11

1. Configuring the Network

Preparation: 485 Tools, computers, configuration software.

Point-to-point transmission: one-to-one, one-to-many.

1.1 Open the ZHC466C configuration software



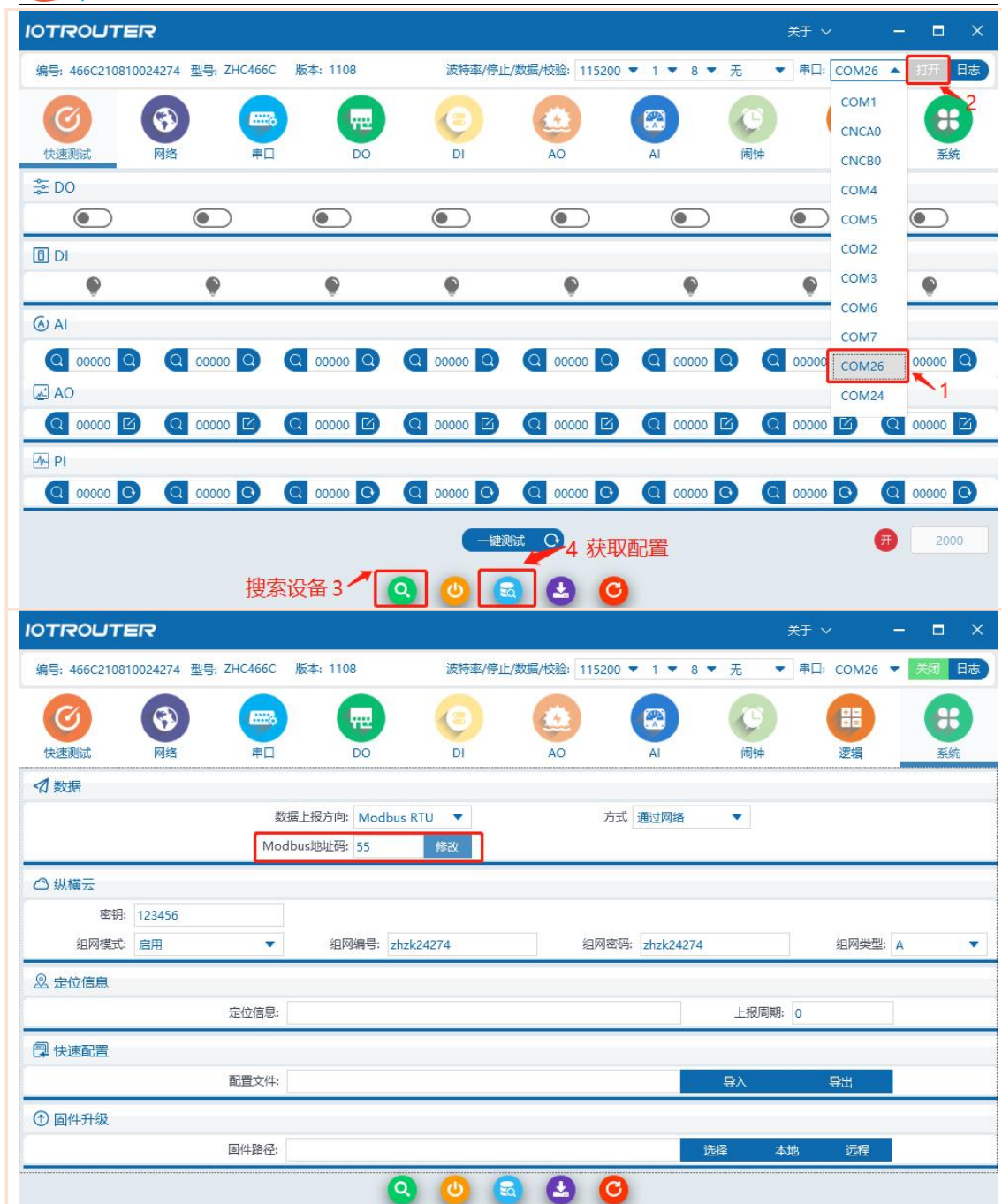
P1 ZHC466C configuration software

1.2 Debugging parameters

Connect a ZHC466C which as the Unit A to PC, you can use RS485 Tools or virtual serial port (for details, refer to *Zongheng Cloud Transmitter-ZHC466C*) to connect the configure software.

1.2.1 Set basic parameters of device A

First we use RS485 Serial tool connect Unit A and change the configuration via configuration software.



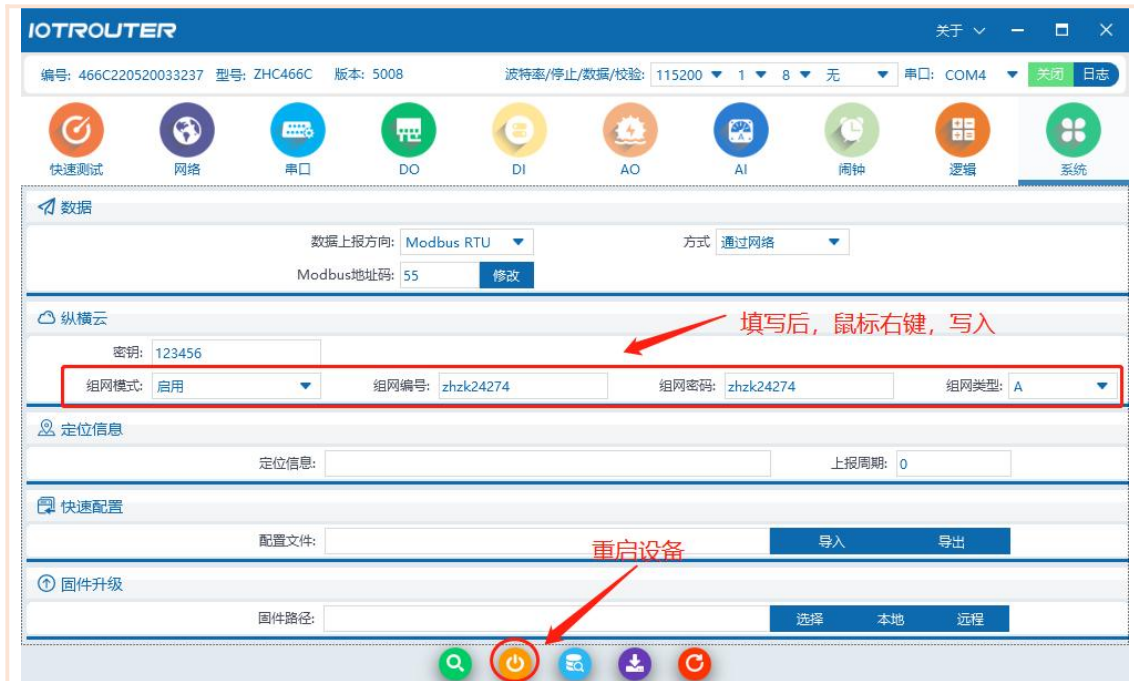
P 2 Configuring Unit A Operation

As shown above:

- ① Select the corresponding rs485 Serial port and open.
- ② Search for devices.
- ③ Get the default configuration of the device (read a certain configuration separately, and move to corresponding configuration then right-click the mouse button to read)

The default address of the devices is 55 (The address can be modify as you need). Need to change the device address to different one.1-FF.for the devices that need networking configuration.

1.2.2 Set the system parameters of device A



P3 Configuration of Unit A Operation

As shown above:

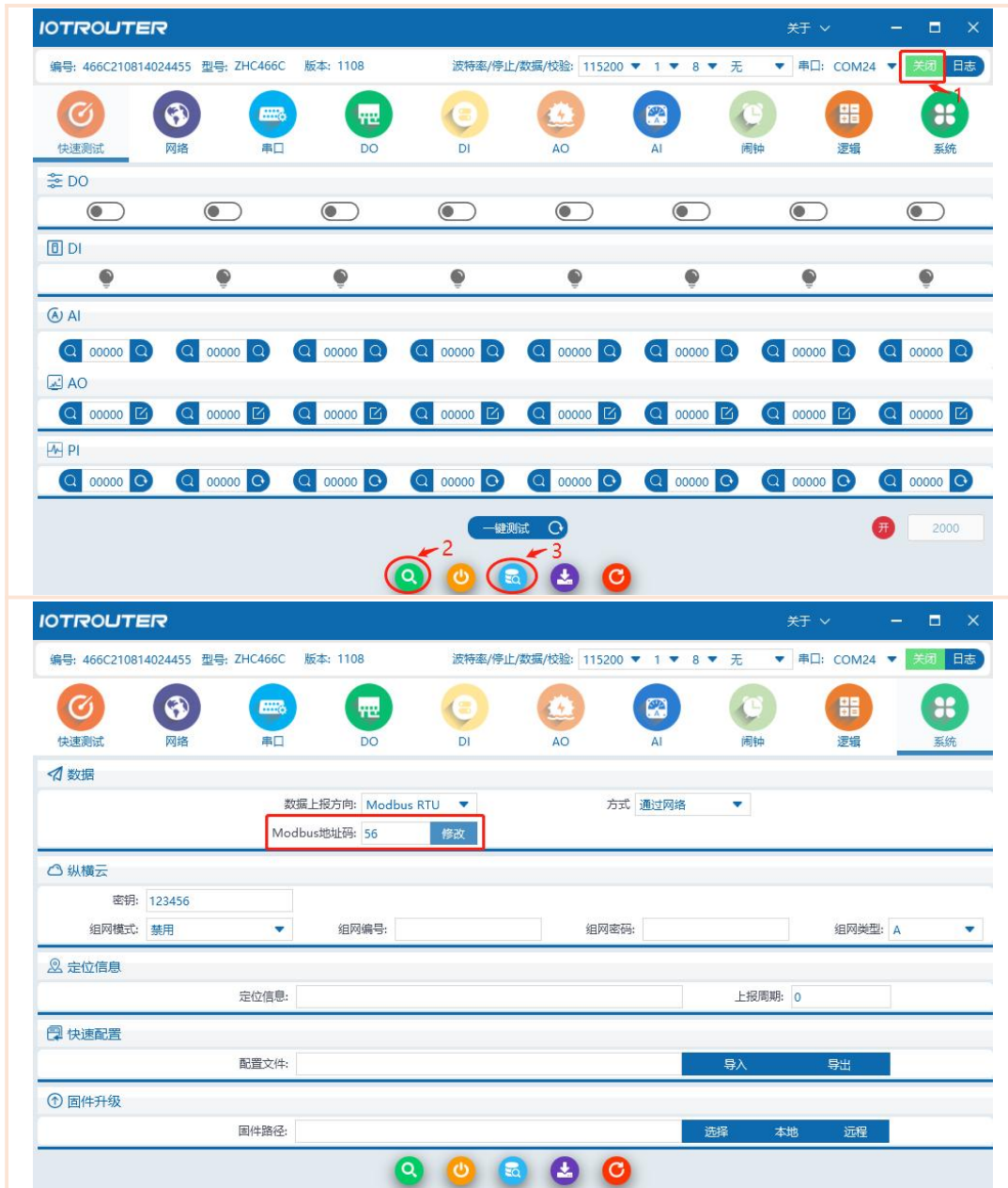
Enable networking mode, fill in the networking number and group password (customized as you need, the number and password can be different)

Set the networking type A to A. then right-click the mouse button to write in. Restart the device after ensuring all the parameters are set successfully.

Note: Group ID and password are the determining factors for ensuring the link is established, so the Group ID and password of the two devices must be consistent to establish the connection.

1.2.3 Set basic parameters of Unit B

Use RS485 Serial tool to connects to the Unit B and open configuration software.



P4 Configuration of Unit B (Data 1)

As shown above:

1. Select the corresponding RS485 Serial port and open.
2. Set the address of Unit B to 56 (just an example, the address can be set as you need.1-FF), then click Modify.

Note: The address of each device for networking must be consistent.

1.2.4 Set the system parameters of Unit B

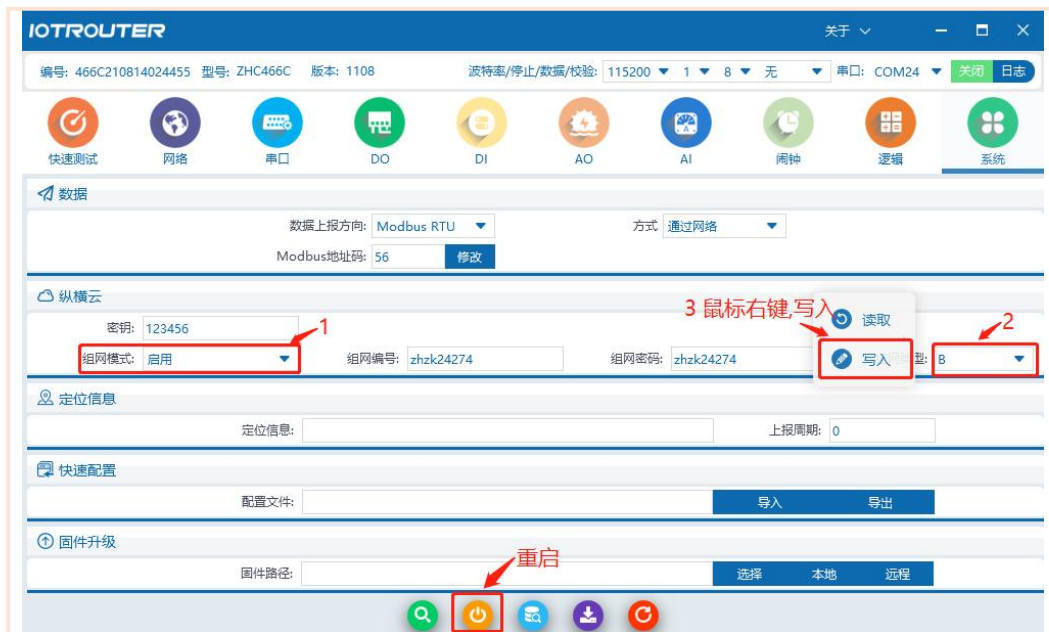


Figure 5 Configuration of Unit B (Operation 2)

As shown above:

Enable the networking function, enter the networking number and group password. (required and need be same as the Unit A)

Set the networking type B to B. then right-click the mouse button to write in. Restart the device after ensuring all the parameters are set successfully.

1.2.5 Test whether the networking is successful



Figure 6 Test network

As shown above:

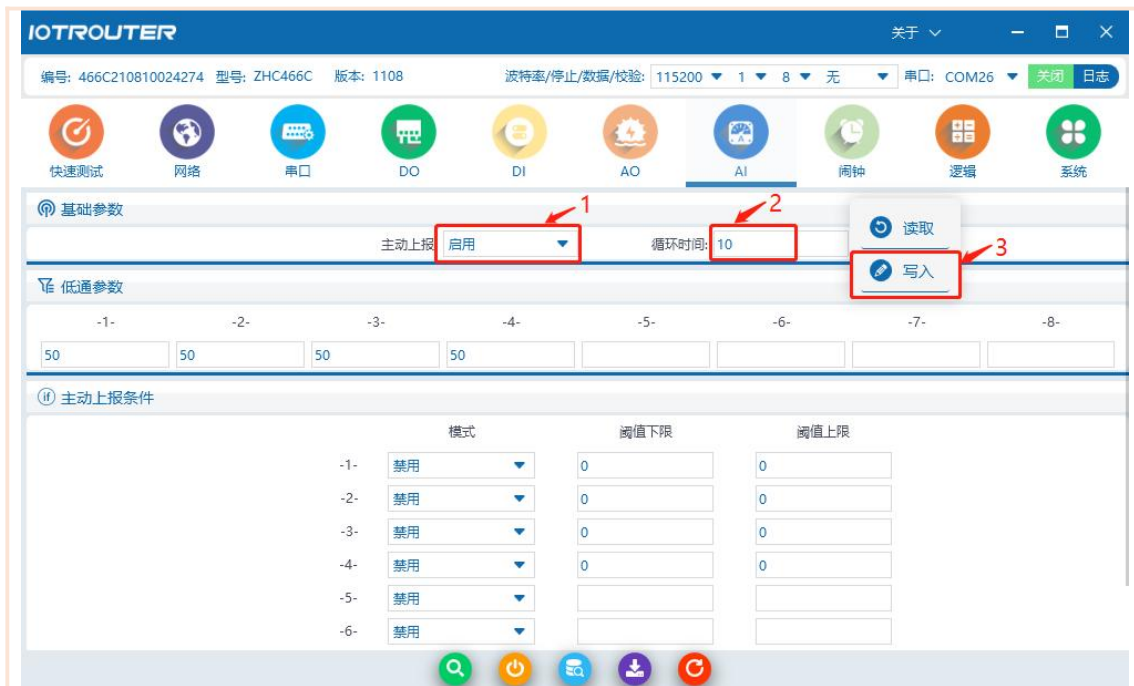
1. Use RS485 tool connect with one of the devices (here take 55 Device as example), open the log bar of the 55 device.

2. Send a command to read the data of 56 device AI. If there is a reply, the networking is successful. (If you have two rs485 tools, two devices can be connected to the computer at the same time and open the log bar to send data to each other, the two devices can receive each other's data also proves that the networking is successful)

2. Set AO to follow AI

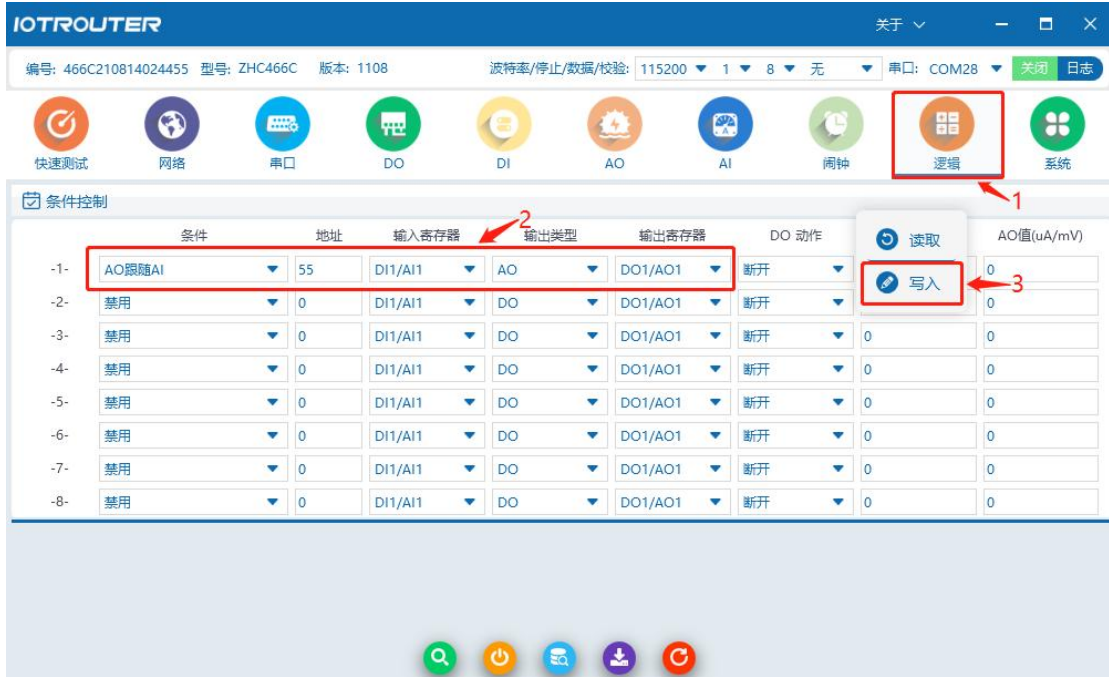
2.1 Open AI Device

Here we use networking as an example
AO1 of Unit B follows the AI1 of Unit A



As shown above:

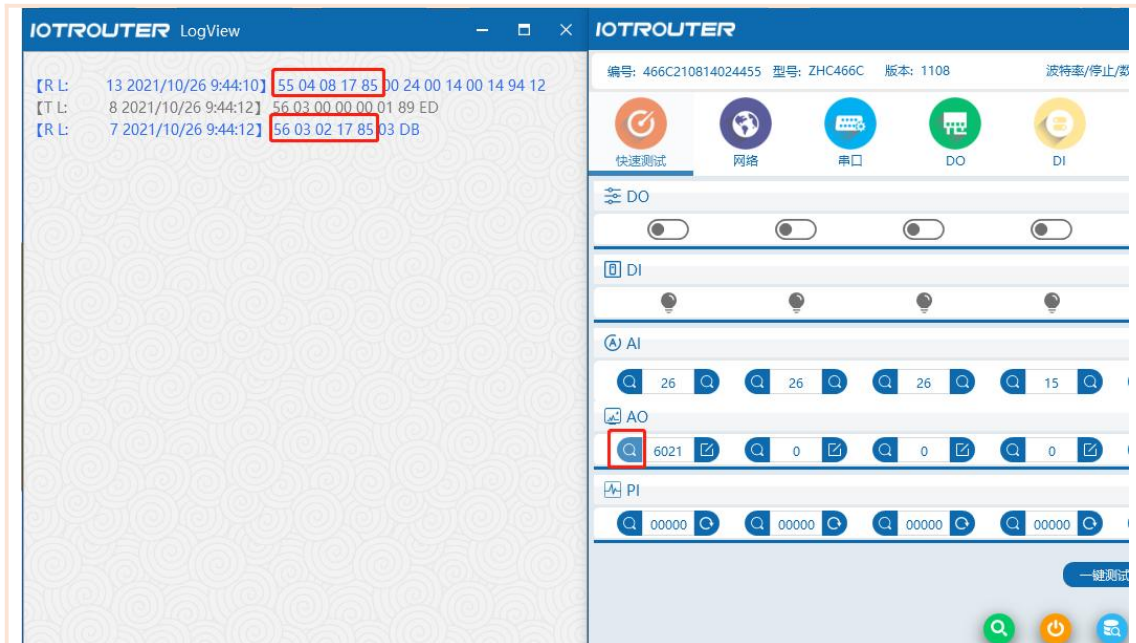
Unit A as a followed device, You need to enable active reporting in basic parameters of Unit A. The cycle time is set to S (seconds) as you need, and right-click to write in.

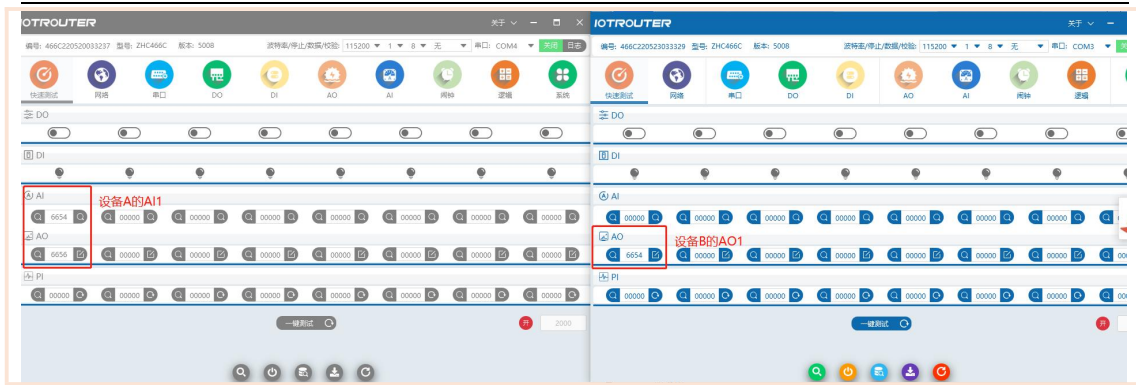


Set the Unit B follow logic, select AO to follow AI, fill in the address of the AI device, select AI1 as input register, select AO as output type, select AO1 as output register, then right click to write in.

Note: If you need set up the local follow, just change the address to 0.

2.2 Data presentation

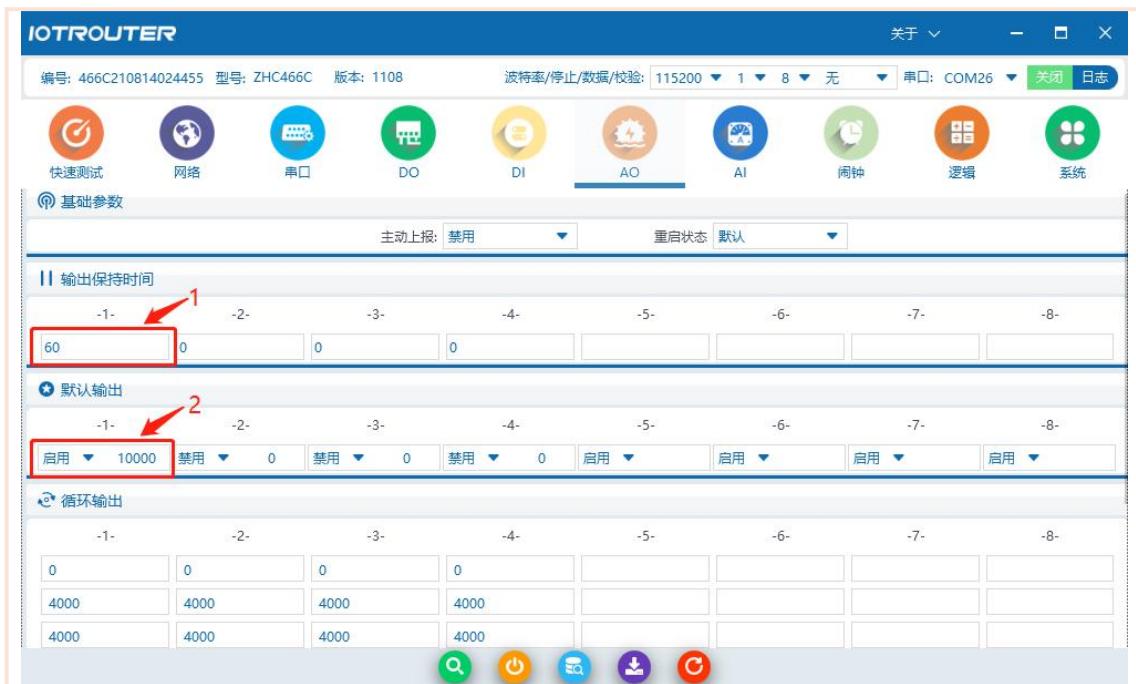




As shown above:

1. If the value of AO1 of Unit B and AI1 of Unit A are the same, the configuration is successful. The data refresh speed is determined by the time when the device is actively reported.
2. If need Unit A and B to follow each other, only need to connect Unit A&B to the AI input and turn on AI active reporting at the same time, set the logic, and then Unit A&B can follow each other.

2.3 Offline output setting



P7 Offline output setting

As shown above:

1. This picture shows the AO parameter setting of Unit B. The output hold time and default output need to be used at the same time.
2. As above setting, When Unit B does not receive the AI status report from Unit A within 60s, AO1 will output the default output value of 10000uA.
- 3.

Note: Setting as you need. it can be disabled if not needed. Set output hold time to 0 to enable.