

Does not provide source communication MODBUS code

MODBUS RTU communication instruction:

Modbus RTU instruction

Baud rate: 9600 8 NONE 1

The relay module can communicate in multiple networks, and the communication address can be set through serial port commands. (Provided by communication command network disk)

The factory default communication address of the relay module is fixed at 1, and the serial assistant operation instructions:

Note: The following specific test instructions are passed to the network

Command function:

1. Set the address to 2. Read the address 3. Read the software version 4. Read the hardware version

Output instructions:

MODBUS-RTU communication instruction:

Function code: 05 is the relay output [control relay on/off]

Function code: 06 is stored data [user-defined storage data, user-defined data, address number, set by the user. Generally useless]

```
/*  
***** */
```

Modbus RTU instruction

Baud rate: 9600 8 NONE 1

Send in hexadecimal

Hexadecimal reception

Steps:

1. The software sets the communication baud rate
2. Set the address (device address used for communication)

The instruction with address 1 set by default

/*****

*****/

Set the address as: 01

Send: 00 06 40 00 00 01 5c 1b

Return: 01 06 00 00 00 01 48 0A

Set the address as: 02

Send: 00 06 40 00 00 02 1c 1a

Return: 02 06 00 00 00 02 08 38

Read address

00 03 40 00 00 01 90 1b

/*****

*****/

Read software version

Send: 00 03 00 02 00 01 24 1b // **【Sun】**

Return: 01 03 02 10 00 B5 84 //No. 10

Send: 00 03 00 04 00 01 c4 1a //[month] Broadcast reading (only one device can be connected, practical for all addresses, convenient for testing)

Return: 01 03 02 4D 61 4C FC //4D[M] 61[A] MAR[March]

Send: 00 03 00 08 00 01 04 19 // **【year】** Broadcast reading (only one device can be connected, practical for all addresses, convenient for testing)

Return: 01 03 02 20 18 A1 8E //20 18 = 2018

Send: 00 03 00 10 00 01 84 1e //[Hour, Minute] //Broadcast reading (only one device can be connected, practical for all addresses, convenient for testing)

Return: 01 03 02 21 26 21 CE //21:26

Read hardware version (PCB version)

Send: 00 03 00 20 00 01 84 11 //Broadcast reading (only one device can be connected, practical for all addresses, convenient for testing)

Return: 01 03 02 00 6A 38 6B //6A = 106 =V1.06

Send: 01 03 00 20 00 01 85 c0

Return: 01 03 02 00 6A 38 6B //6A = 106 =V1.06

/*****

[Address 1]

//-----

Relay 0 turns on: 01 05 00 00 FF 00 8C 3A

Relay 0 is off: 01 05 00 00 00 00 CD CA

//-----

Relay No. 1 turns on: 01 05 00 01 FF 00 DD FA

Relay No. 1 is closed: 01 05 00 01 00 00 9C 0A

//-----

Relay No. 2 turned on: 01 05 00 02 FF 00 2D FA

Relay No. 2 is closed: 01 05 00 02 00 00 6C 0A

//-----

Relay No. 3 turned on: 01 05 00 03 FF 00 7C 3A

Relay No. 3 is closed: 01 05 00 03 00 00 3D CA

Single flip instruction:

No. 0 relay flip: 01 05 00 00 55 00 F2 9A

No. 1 relay flip: 01 05 00 01 55 00 A3 5A

No. 2 relay flip: 01 05 00 02 55 00 53 5A

No. 3 relay flip: 01 05 00 03 55 00 02 9A

Fully closed: 01 05 00 ff 00 00 fd fa

Fully open: 01 05 00 ff ff ff fc 4a

Full flip: 01 05 00 ff 5a 00 c7 5a

/*****

Read relay status 0: 01 01 00 00 00 01 FD CA

Read the status of relay No. 1: 01 01 00 01 00 01 AC 0A

Read the status of relay No. 2: 01 01 00 02 00 01 5C 0A

Read the status of relay No. 3: 01 01 00 03 00 01 0D CA

Relay No. 1 reads the status of all channels: 01 01 00 FF 00 00 3d c9

/*****

*****/

Read all interface input status

01 02 00 00 00 00 78 0a

return:

01 02 01 01 60 48 //IN1 press

01 02 01 02 20 49 //IN2 press

01 02 01 04 A0 4B //IN3 press

01 02 01 08 A0 4E //IN4 press

