



Command function:

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

Output instruction:

MODBUS-RTU communication command:

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

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

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

Modbus RTU instruction

Baud rate: 9600 8 NONE 1

Hexadecimal transmission

Hexadecimal reception

Steps:

1. Software set communication baud rate
2. Set the address (device address used for communication)

The default setting is 1 for the instruction.

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

Set the address to: 01

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

Back: 01 06 00 00 00 01 48 0a

Set the address to: 02

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

Back: 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 // **【Day】**

Back: 01 03 02 10 00 b5 84 //10

Send: 00 03 00 04 00 01 c4 1a // [Month] Broadcast reading (only one device can be connected, practical for all addresses, easy to test)

Back: 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, easy to test)

Back: 01 03 02 20 18 a1 8e //20 18 = 2018

Send: 00 03 00 10 00 01 84 1e // [hours, minutes] // broadcast read (only one device can be connected, practical for all addresses, easy to test)

Back: 01 03 02 21 26 21 ce //21:26

Read hardware version (PCB version)

Send: 00 03 00 20 00 01 84 11 // Broadcast read (only one device can be connected, practical for all addresses, easy to test)

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

Send: 01 03 00 20 00 01 85 c0

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

/\*\*\*\*\*/

[Address 1]

//-----

Relay No. 0 is on: 01 05 00 00 FF 00 8C 3A

Relay No. 0 is closed: 01 05 00 00 00 00 CD CA

//-----

Relay No. 1 is 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 is 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 is open: 01 05 00 03 FF 00 7C 3A

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

Single flip instruction:

Relay No. 0 flipped: 01 05 00 00 55 00 F2 9A

Relay No. 1 flipped: 01 05 00 01 55 00 A3 5A

Relay No. 2 flipped: 01 05 00 02 55 00 53 5A

Relay No. 3 flipped: 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 No. 0 relay status: 01 01 00 00 00 01 FD CA

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

Relay No. 1 Read all channel status: 01 01 00 FF 00 00 3d c9

/\*\*\*\*\*/

Read all interfaces input status

01 02 00 00 00 00 78 0a

return:

01 02 01 01 60 48 //IN1 pressed

01 02 01 02 20 49 //IN2 pressed

01 02 01 04 A0 4B //IN3 pressed

01 02 01 08 A0 4E //IN4 pressed