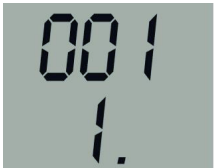
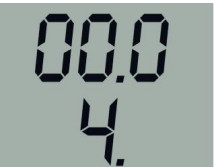


## KEY OPERATION INSTRUCTIONS

In the main interface of temperature and humidity display, press  and hold the key to enter the parameter setting interface, and short  key to turn the page. If you want to modify the parameters of the current interface, press the  short key, press the  key to increase the value, press the  key to decrease the value, after the setting is completed, the short key  to save, the short key  to return to the main interface. The specific parameter interface is as follows:

| UI                                                                                 | Description                                                                                    |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|    | Set the address of the device<br>Default value: 1<br>Range: 1~255                              |
|    | Set the baud rate of the device<br>Range: 2400/4800/9600<br>Default value: 4800<br>Set         |
|   | Set the temperature calibration value of the device<br>Range: -100.0~100.0<br>Default value: 0 |
|  | Set the humidity calibration value of the device<br>Range: -100.0~100.0<br>Default value: 0    |

The device has four items that can be set: address, baud rate, temperature calibration value, and humidity calibration value.

Press the key  for 2 seconds to enter the selection setting interface, press  to change the setting items, short press  according to "Address, baud rate, temperature calibration value, humidity calibration value" are displayed alternately in sequence.

| The lower row shows the label | Interface description         | Key operation instructions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                             | Address                       | Press the  key to return to the temperature and humidity query interface; Press  to switch to the address setting interface; short press  to increase 1, long press  Add 10; short press  to subtract 1, long press to subtract 10. press  save the displayed address value as the target address.                                                                                                                |
| 2                             | Baud rate                     | Press the  key to return to the temperature and humidity query interface; Press  to switch to the baud rate setting interface; press  to increase, press  to decrease<br>Small, switch between 2400, 4800, 9600, and press  to set the displayed baud rate as the target value.                                                                                                                                                                                                                      |
| 3                             | Temperature calibration value | Press  to return to the temperature and humidity query interface; press  to switch to temperature calibration value setting interface; short press  plus 0.1, long press  add 1; short press  to subtract 0.1, long press  to subtract 1. press  save the displayed temperature calibration value as the target value.  |
| 4                             | Humidity calibration value    | Press  to return to the temperature and humidity query interface; press  to switch to humidity calibration value setting interface; short press  plus 0.1, long press  add 1; short press  to subtract 0.1, long press to  subtract 1. press  save the displayed humidity calibration value as the target value. |

# LITTER OF AGREEMENT

## Basic communication parameters

|                |                                                                               |
|----------------|-------------------------------------------------------------------------------|
| Code           | 8-bit binary                                                                  |
| Data bit       | 8-bit                                                                         |
| Parity bit     | no                                                                            |
| Stop bit       | 1 person                                                                      |
| Error checking | CRC (Redundant Cyclic Code)                                                   |
| Baud rate      | 2400bit/s, 4800bit/s, 9600 bit/s can be set, the factory default is 4800bit/s |

## Data frame format definition

Using Modbus-RTU communication protocol, the format is as follows:

Initial structure ≥ 4 bytes of time

Address code = 1 byte

Function code = 1 byte

Data area = N bytes

Error check = 16-bit CRC code

Time to end structure ≥ 4 bytes

Address code: the address of the transmitter, which is unique in the communication network (factory default 0x01).

Function code: The command function instruction issued by the host, this transmitter only uses function code 0x03 (read register data

Data area: The data area is the specific communication data, pay attention to the high byte of the 16bits data first!

CRC code: two-byte check code.

Host query frame structure:

|              |               |                        |                 |                    |                        |
|--------------|---------------|------------------------|-----------------|--------------------|------------------------|
| address code | function code | Register start address | Register length | Check code low bit | High bit of check code |
| 1 byte       | 1 byte        | 2 bytes                | 2 bytes         | 1 byte             | 1 byte                 |

Slave machine response frame structure:

|              |               |                       |           |                  |               |            |
|--------------|---------------|-----------------------|-----------|------------------|---------------|------------|
| address code | function code | Number of valid bytes | Data area | Second data area | Nth data area | Check code |
| 1 byte       | 1 byte        | 1 byte                | 2 bytes   | 2 bytes          | 2 bytes       | 2 bytes    |

## Register address

|                                   |                              |                                             |                                                                 |           |
|-----------------------------------|------------------------------|---------------------------------------------|-----------------------------------------------------------------|-----------|
| Register address<br>(Hexadecimal) | Register address<br>(10 hex) | PLC or configuration<br>address<br>(10 hex) | content                                                         | operating |
| 0000 H                            | 0                            | 40001                                       | humidity<br>(Expanded by 10 times the<br>actual humidity)       | Read only |
| 0001 H                            | 1                            | 40002                                       | temperature<br>(Expanded by 10 times the<br>actual temperature) | Read only |