TxTHM98 SERIES
MAGNETIC / TEMPERATURE AND HUMIDITY SENSOR
Product Operation Manual

OVERVIEW AND FEATURES

FEATURES

- The device has dual RJ45 interfaces and adopts the hand-in-hand wiring method.
- The address and baud rate can be quickly set through the DIP switch which is convenient and quick.
- The case is designed to be lightweight and beautiful, and can display temperature, humidity and address.
- Magnetic suction and upside-down structure design, easy to install.

DESCRIPTION

TxTHM98series temperature and humidity transmitter adopts high-precision sensor, built-in temperature and humidity sensor, preciseHigh speed, fast response, and good long-term stability. Features four powerful magnets on the backIt can be directly adsorbed on the cabinet and can also be wall-mounted, which greatly improves the installation efficiency. temperature can be displayed,Humidity, address. The product is widely used in communication rooms, warehouse buildings, libraries and otherplaces.

PARAMETER

1. Temperature

Sensor	Digital
Output	RS485/Modbus
Precision	±0.3℃@20℃ see the table below
Power supply	9-26VDC

TECHNICAL PARAMETER

Show	Optional LCD display with unit display
Shell material	ABS shell
Working environment	-20~60℃,5%-95%RH(non-condensing)

2. Relative humidity

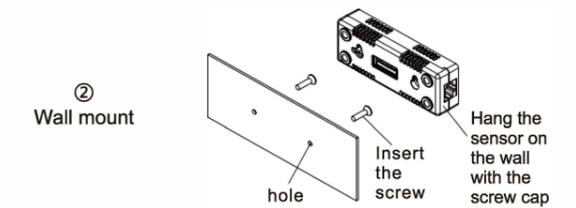| Sensor	Digital
Range	0%~100%
Output	RS485/Modbus
Precision	±3%@ 20℃ &20~80%RH
Response time	≤10s(20℃, slow flow air)

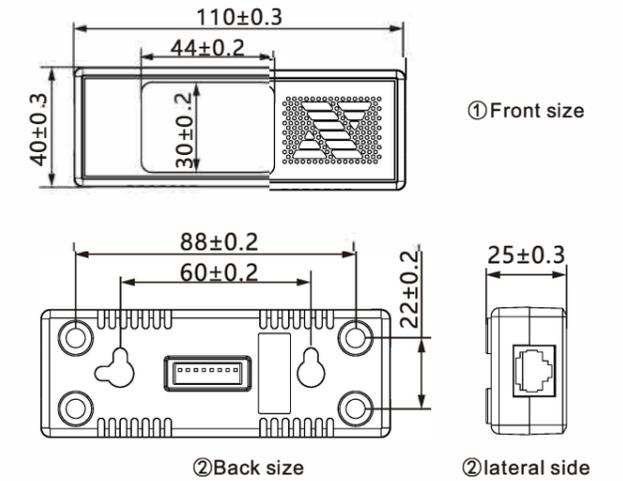**3. Digital sensor Temperature Accuracy Curve**
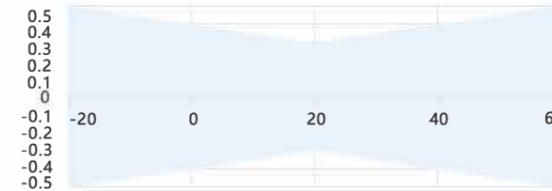
PRODUCT INSTALLATION
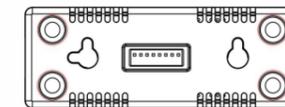
① Magnetic design on the back of the device, whic can be directly attached to the cabinet
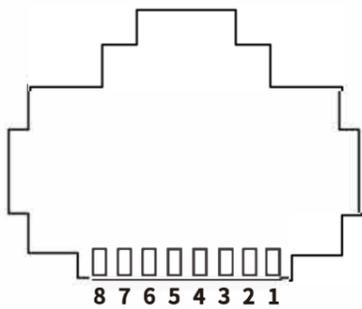
INSTALLATION AND DIMENSIONS

② Wall mount

Hang the sensor on the wall with the screw cap

Insert the screw

hole

PRODUCT SIZE (mm)

110±0.3
44±0.2
40±0.3
30±0.2

①Front size

88±0.2
60±0.2
22±0.2

②Back size

25±0.3

②lateral side

WIRING AND PRECAUTIONS

WIRING INSTRUCTIONS

8 7 6 5 4 3 2 1

1.RS485(A) 2.RS485(B) 3.V+:Positive power supply
4.RS485(A) 5.RS485(B) 6.V-:Negative power supply
7.dangling 8.V-:Negative power supply

PRECAUTIONS

- Avoid direct installation under heat source, cold source or sunlight.
- It is installed in a relatively stable environment, and it is forbidden to be in a high temperature and high humidity environment for a long time.
- Not suitable for use in the environment of oil pollution, organic solvent and corrosive gas.

## SETTING METHOD

DEVICE ADDRESS BAUD RATE SETTING METHOD

- The first 7 digits of the 8-digit dial code are the address, the address can be set to 1-127, and the factory default setting is 1

  The 8th bit is the baud rate that can be set to 1, which represents the baud rate: 9600. The setting method is as follows:

  (ON stands for 1, OFF stands for 0, the numbers 1~8 on the dial panel represent low to high bits)
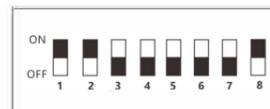
At this time the address is: 3, and the baud rate is 1;

- Example of address setting:
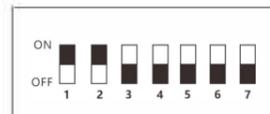
Dial the 1st and 2nd digits to ON, the others areOFF, the address is:
$1 * 2^0 + 1 * 2^1 = 3$

Note: After all the dial codes are changed, the power must be re-energized to make the changes take effect. When the address or baud rate dial code is 0, it can be changed by software. For specific settings, see the communication protocol.