

Features

- Adopt imported high-precision sensors and main control, with good long-term stability and anti-interference ability
- A variety of output methods are optional, in line with the standard 86 box installation method
- Lightweight and beautiful shell design, using CD backlight temperature and humidity display, easy to use
- The power supply and output have over voltage and reverse connection protection functions, high reliability and anti-interference ability, CE certification

Description

LFH20 series temperature and humidity transmitter is a sensor specially designed for the HVAC industry, with small size, simple installation and easy operation. It has special design for lightning surge, electrostatic discharge, group pulse, withstand voltage, etc., and has strong anti-interference ability.

Technical parameter

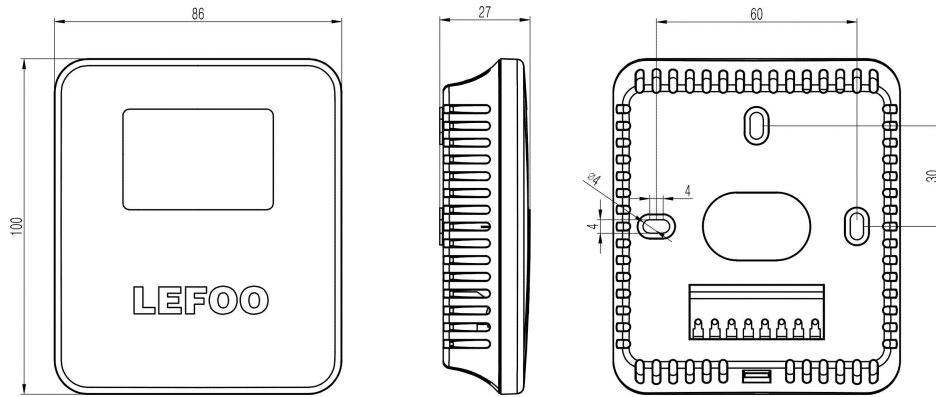
(1) Relative humidity

Sensor	Digital type
Range	0%~100%RH
Output	RS485/Modbus,0~10VDC, 4~20mA optional
Accuracy	±3%@ 20°C & 20~80%RH
Response time	≤10s(25°C, slow flow air)

(2) Temperature

Sensor	Digital or RTD, refer to selection table
Range	0~50°C, -20~60°C, etc
Output	4~20mA,0~10VDC, RS485/Modbus optional
RTD (thermal resistor)	Refer to the selection table and RTD indexing table
Accuracy	Digital sensor: ±0.3°C@20°C ; RTD: Typical ±0.2~0.4°C@25°C, refer to selection table
Power Supply	Voltage type/485 type: 15~35VDC/24VAC±20% ; Current type: 19.5~35VDC (RL=500Ω)/9.5~35VDC (RL=0Ω)
Output Load	≤500Ω(current type), ≥2KΩ(voltage type)
Display	Optional LCD display with unit display and backlight (4~20mA without backlight)
Shell Material	PC
Working Environment	-20~60°C, 5%-95%RH(non-condensing)
Protection Class	IP30

Dimension



Selection Guide

Code and Description		Remark				
LFH20	Indoor Temperature Humidity Sensor	Model				
3	±3%RH(±0.3℃)	Accuracy				
A4	4~20mA(Two-wired)	Humidity output				
V10	0~10VDC(Three-wired)					
RS	RS485/Modbus					
N	No output					
A4	4~20mA(Two-wired)	Temperature output				
V10	0~10VDC(Three-wired)					
RS	RS485/Modbus					
0	PT1000, ±0.2℃@0℃					
1	PT100, ±0.2℃@0℃					
2	NTC20K, ±0.4℃@25℃					
3	NTC10K,±0.4℃@25℃					
N	No output					
0	Non	Range				
1	0~50℃					
2	-20~60℃					
8	Customizable					
0	Without display	Display				
1	LCD digital display					
LFH20	3	A4	A4	1	1	Selection example

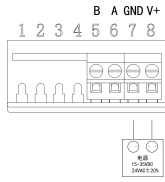
Notice:

1. Only when the temperature output option is V10 or A4, the corresponding temperature range 1-8 should be selected; otherwise, only 0 can be selected.

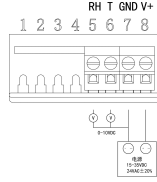
2. Example LFH20-3A4A411 represents indoor type, temperature and humidity accuracy is ±3%RH (±0.3℃), humidity output 4~20mA, temperature output 4~20mA, temperature range 0~50℃, with display.

3. Exposure of the sensor probe of this product to high concentrations of chemical gases for a long time may cause the reading of the sensor to shift.

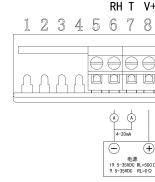
Wiring Guide



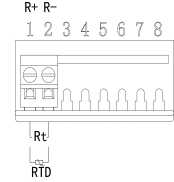
RS485 Output



Voltage Output

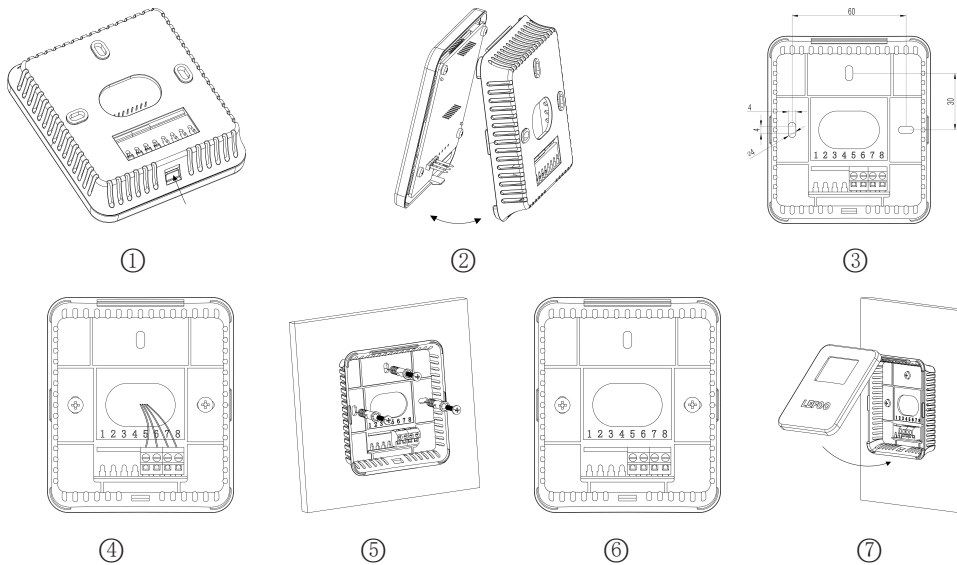


Current Output



RT Output

Installation Guide



1. Press the open button under the back cover of the transmitter to open the transmitter (as shown in Figures 1 and 2);
2. Complete the electrical connection according to the wiring diagram, and introduce the cable from the cable hole (as shown in Figure 4);
3. There are three mounting holes on the back cover of the transmitter, which can be fixed on the wall with expansion screws (as shown in Figure 5), or on the pre-embedded 86 boxes on the wall (as shown in Figure 6);
4. Align and fasten the front cover with the bottom case to complete the installation (as shown in Figure 7).

Precautions

1. Avoid installation in areas that are prone to heat transfer and will directly cause a temperature difference with the area to be measured, otherwise the temperature and humidity measurement will be inaccurate.
2. Install in a relatively stable environment, avoid direct sunlight away from windows and equipment such as air conditioners and heating, and avoid facing windows and doors.
3. Try to stay away from high-power interference equipment, so as not to cause inaccurate measurement, such as frequency converters, motors, etc.