

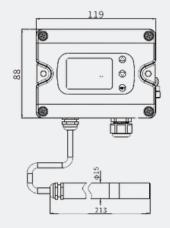
OverView

TxTHH99 sensor ensures high-precision temperature and humidity measurement for industrial and climate control applications. Its split probe withstands up to 180°C, offering long-term .stability, anti-pollution, and strong EMI resistance The durable metal design enhances reliability in harsh conditions

Features

- Durable Build: Full metal shell for harsh environments.
- Wide Range: Operates from -40 to 180°C.
- High Accuracy: Full-range temperature & humidity calibration.
- Reliable Sensors: Withstand high temperatures with stable humidity repeatability.
- Long-Term Stability: Core coating resists pollution.
- Customizable: Optional LCD display, buttons, and alarms.

Dimensions



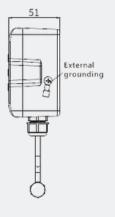


High-temperature Temperature & Humidity Sensor



Applications

- Industrial climate control
- High-temp environments (up to 180°C)
- HVAC systems
- · Cleanrooms & labs
- Food & pharma storage
- Manufacturing processes
- Incubation & drying rooms





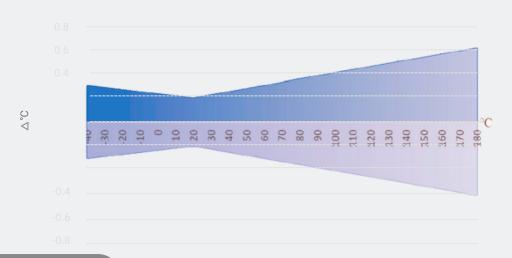
Specifications

High-temperature Temperature & Humidity Sensor

Relative humidity				
Sensing element	High temp & humidity sensitive capacitor			
Range	0%~100%RH			
Output	RS485/Modbus, 0~10VDC, 4~20mA			
Accuracy	≤90%RH@20°C ±2%RH >90%RH@20°C ±2.3%RH			
Response time	≤10s			
Temperature				
Sensing element	PT1000			
Probe operating temperature	0-100%			
Output	4~20mA, 0~10VDC, RS485/Modbus			
Accuracy	±0.2°C @ 20°C (See accuracy curve chart)			
Power Supply	15-35VDC / 24VAC ±20%			
Output Load	≤500Ω (Current type),≥10KΩ(Voltage type)			
Material	ADC12, SUS304			
Operating Temperature (Electronics with LCD)	-20 to 60°C			
Relay	2x SPDT (3A-30VDC / 250VAC)			
Protection Level	IP65, CE			



Digital sensor temperature accuracy curve



INSTALLATION DIAGRAM

Air Duct Installation

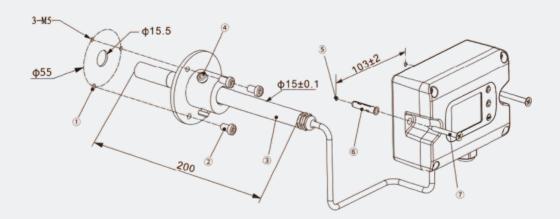
- 1. Open holes in the air duct.
- 2. Install the flange in place & Lock the screws to secure the flange.
- 3. Install the air pipe and adjust its size as needed.
- 4. Lock the screws to secure the air pipe firmly.

Sensor Box Installation

- 5. Open holes at the designated location for the sensor box.
- 6. Insert the expansion tube into the holes.
- 7. Install the sensor body in place & Lock the screws to ensure stability.

Grounding Method Selection

- Option 1: Use the internal PCB's reserved grounding terminal for grounding.
- Option 2: If the device is separated from the grounding wire, connect the grounding wire to the reserved grounding position outside the shell.





Selection Code:

	Remark		
ТхТНН99		High-temperature Temperature & Humidity Sensor	Model
	V10	0~10VDC(3-wire)	
	Α	4~20mA(2-wire)	Output
	RS	RS485/Modbus	