

**Overview:**

TxTH52 Temperature and Humidity Transducer is specifically designed for outdoor temperature and humidity detection. Its standard radiation shield offers protection against wind and rain, ensuring optimal performance in harsh weather conditions. It provides three output options: current, voltage, and RS485. This transducer is ideal for use in construction site environments, weather monitoring, and other outdoor applications.

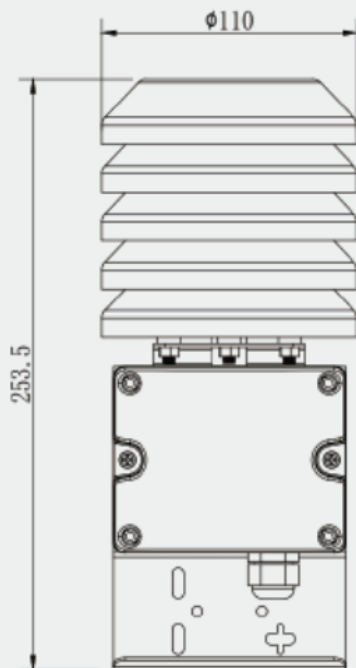
**Feature:**

- | Standard 5-layer radiation cover protects against external factors like sunlight and rain ensuring stability.
- | Adjustable cover layers and height for flexible installation based on site requirements.
- | Long service life with strong anti-interference capabilities.
- | Reverse connection protection and high protection level, up to IP65.

**Application:**

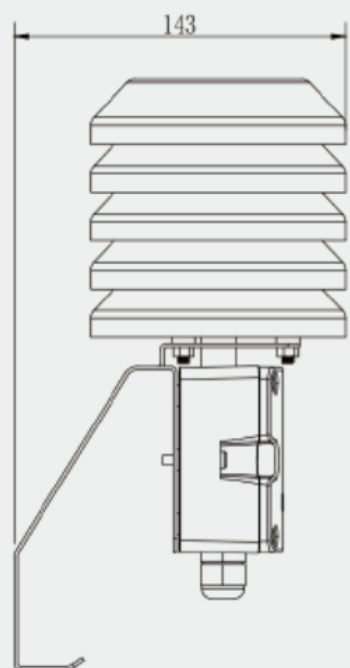
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**Dimensions:**



**TxTH52**

**Temperature and Humidity Transducer**





Specifications:

Temperature and Humidity Transducer

Relative humidity

Sensor	Digital
Range	0%~100%RH
Output	RS485/Modbus, 0-1 0VDC, 4-20mA
Accuracy	±3%@ 20 C & 20~80%RH
Response time	≤10s(20 C, slow air flow)

Temperature

Sensor	Digital or thermal resistance, see Order Ref No
range	0~50 C, -20-60 C etc.
Output	4~20mA, 0~10VDC, RS485/Modbus
Thermal Resistance	See Order Ref No. and Thermal Resistance Indexing Table
Accuracy	Digital type: ±0.5 C@20C; Thermal resistance type: typical±0.2-0.4C@25C, see Order Ref No. Thermal resistance type: typical±0.2-0.4C@25C, see Order Ref No.
Power Supply	Voltage type/485 type: 15-35VDC/24VAC+20% (isolated power supply is required for AC power supply) Current type: 18.5-35VDC (RL=500O)/8.5-35VDC (RL=0O)
Output Load	≤500Ω (Current type), ≥2KO(Voltage type)
Display	LCD display optional, with unit display and backlight (4-20mA without backlight)
Shell Material	PC housing, PC probe and ABS protection cover
Working Environment	"-20 - 60" ° B19C ,5%-95%RH (Non-condensing)
Protection Level	IP65



**Selection Code:**

Code and description		Remark
TxTH52	Outdoor Temperature and Humidity Transmitter	Model
3	±3%RH(±0.5 C)	Accuracy Range
V10	0-10VDC(3-wire)	Humidity Output
A	4-20mA(2-wire)	
RS	RS485/Modbus	
V10	0-10VDC(3-wire)	Temperature Output
A	4-20mA(2-wire)	
RS	RS485/Modbus	
1	Pt100, ±0.2C@0C	
2	Pt1000, ±0.2C@0C	
3	NTC10K, ±0.4'C@25C	
4	NTC20K, ±0.4'C@25C	
1	NO	Temperature range
2	0-50C	
3	"-20-60"C	
9	Others ( customized)	