### High Precision Modbus RS485 Digital Temperature and Humidity Transmitter



### **Basic Info**

Model NO.	TZ-THT03
Output Signal Type	Digital Type
Supply Voltage	DC 5 to 36V
Transmission Rate	4800BPS / 9600BPS
Working Range	0 to 95%Rh
Specification	106mm*57mm*33mm

Certification	CE
Sensing Type	RS485
Transfer Protocol	485 Port, Standard Modbus, RTU
Measuring Range	-40 To120

## **Product Description**

# **Temperature And Humidity Transmitter**

- 1. For measuring temperature and relative humidity in building automation, HVAC and process control etc.
- 2. High-precision CMOSens sensor chip.
- 3. With LCD display.
- 4. The compact enclosure for easy and fast installation.
- 5. Digital RS485 output with MODBUS-RTU protocol
- 6. Temperature range: -40°C to +85°C
- 7. Humidity range: 0%RH to 95%RH (Non-condensing)

# THT03

Temperature and humidity transmitter





DIGITAL DISPLAY



HIGH SENSITIVITY



ACCURATE MEASUREMENT



STEADY



**IP54** 



SUPPORT TECHNICAL

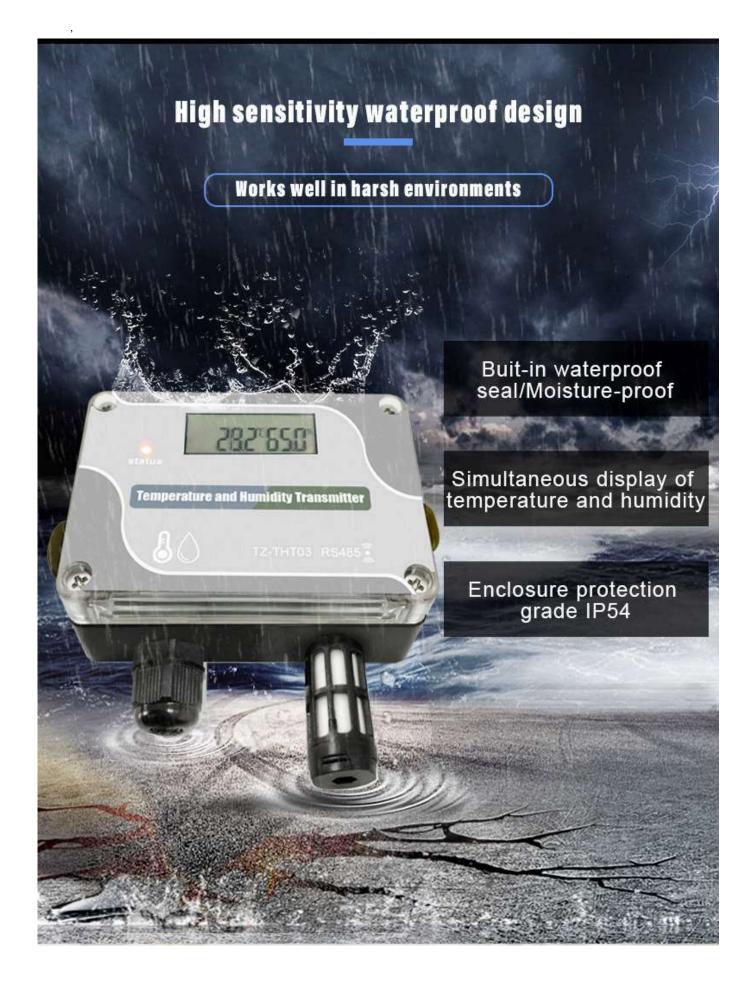


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CAN WORK IN CONDENSING ENVIRONMENT







IP54 high-density material shell, built-in waterproof strip, moisture-proof and dust-proof. It can be used in harsh environments such as high temperature and high humidity, dust, rain and snow.



The THT-03 sensitive element uses SHT30, a newly designed CMOSens chip, an improved capacitive humidity sensor element and a standard energy gap temperature sensor element. Its performance has been greatly improved and even exceeded the previous generation of sensors Reliability level to make its performance in high humidity environments more stable.

## **Products Parameters**

item	value
Warranty	1year
Sensing element	SHT30
Model Number	TZ-THT03
Keywords	Temperature And Humidity Sensors For HVAC And Building Automation
Supply voltage	DC 5~36V
Electric current	5mA
Measuring range	-40~120°C; 0~100%RH
Working environment	-40~85°C/ 0~100%RH(Non-condensing)
Resolution	0.1°C;0.1%RH
Response time	About 8s (from 33%RH to 75%RH, in flowing air)
Product Dimension	106mm*88mm*33mm
Transmission Mode	RS485 Modbus-RTU
Transmission Rate	4800bps/ 9600bps Optiona







Anti-Interference

# **SPECIFICATION**





Model NO.	TZ-THT03	
Temperature Measurement Range	-40°C ~120°C	
Temperature Accuracy	±0.2°C @25°C	
Humidity Measurement Range	0%RH ~95%RH	
Humidity Accuracy	±2%RH@3%RH	
Transmission Mode	RS485 Modbus-RTU	
Product Dimension	106mm*88mm*33mm	
Product Power Consumption	5mA (typical value), 8 mA (maximum value)	
Power Supply	DC 5~36V	
Output Signal	RS485 Modbus-RTU	
Working Environment	-40°C ~85°C / 0%RH -95%RH (non-condensing)	
Transmission Rate	4800bps/ 9600bps/ 19200bps Optional	
Transmission Distance	The standard maximum transmission distance is about 1200 meters (Depending on the use environment, transmission material and transmission rate)	

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# **Products Applications**

