High Precision Modbus RS485 Digital Temperature and Humidity Transmitter

TZONE

Basic Info

Model NO.	TZ-THT03		Certification	CE
Output Signal Type	Digital Type		Sensing Type	RS485
Supply Voltage	DC 5 to 36V		Transfer Protocol	485 Port, Standard Modbus, RTU
Transmission Rate	4800BPS / 9600BPS		Measuring Range	-40 To120
Working Range	0 to 95%Rh			
Specification	106mm*57mm*33mm			

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

28.2°C 65.0%

status

Temperature and Humidity Transmitter

TZ-THT03 RS485

DIGITAL DISPLAY

HIGH SENSITIVITY

ACCURATE MEASUREMENT

STEADY SIGNAL

IP54

SUPPORT TECHNICAL

ANTI -INTERFERENCE

CAN WORK IN CONDENSING ENVIRONMENT

Simultaneous display of temperature and humidity

Temperature Measuring range：-40～120℃

Humidity Working range：0～95%RH

High sensitivity waterproof design

Works well in harsh environments

Buit-in waterproof seal/Moisture-proof

Simultaneous display of temperature and humidity

Enclosure protection grade IP54

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	-40~120ºC; 0~100%RH
Working environment	-40~85ºC/ 0~100%RH(Non-condensing)
Resolution	0.1ºC;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

High sensitivity

Steady Signal

Anti-Interference

SPECIFICATION

106mm

57mm

20mm

31mm

33mm

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)

Products Applications

Multi-scene application

- Agricultural greenhouses
- Fruit tree gardens
- Energy power
- Flower breeding
- Industrial Delivery Room
- Traffic tunnel
- Computer rooms
- Laboratory

CHOOSE OUR STRENGTH

- SQUK VANUFACTUKRS
- Wide range of applications
- Support customization
- Quality Assurance
- Exquisite craftsmanship
- GUANLIJIE