

THM-200 Temperature and Humidity Sensor User Manual



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I、 Instruction

THM-200 vehicle-mounted temperature and humidity sensor is specially designed for demanding industrial applications. It adopts imported humidity measuring elements. It has the characteristics of accurate measurement, wide temperature range, strong resistance to chemical pollution, stable operation and long service life.

The humidity chip used in THM-200 has extremely high temperature tolerance and can work in a high temperature environment for a long time. The special treatment of the sensor surface can make the sensor continue to work in a chemically polluted environment. It is the best choice for working in high temperature and harsh environment.

Features

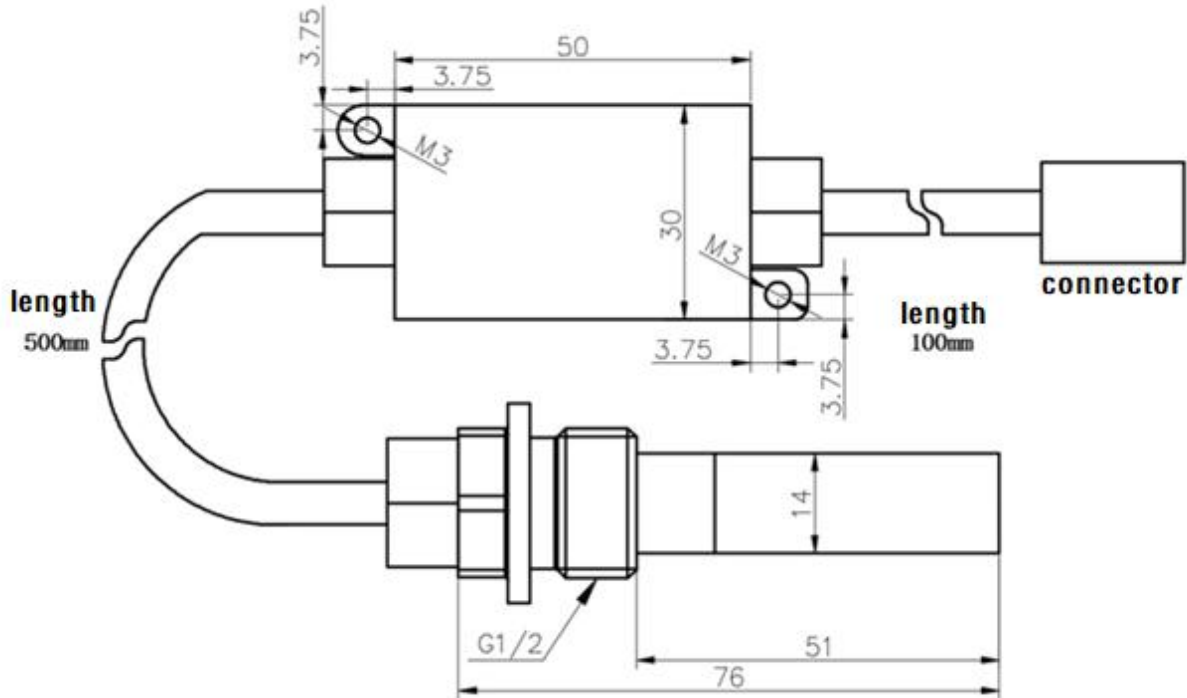
- Used for on-board temperature and humidity measurement of hydrogen energy vehicles
- Signal output: 0.5~4.5V
- G1/2 thread, ED seal
- IP65 protection level

II、 Technical specifications

● Technical parameters

Model	THM-200
Measuring range	0~100%RH(humidity),-45~130°C(temperature)
Precision	±2%RH(humidity),±0.3°C(temperature)
Repeatability	±0.1%RH(humidity),±0.1°C(temperature)
Response time	<15s
Signal output	0.5~4.5V
Power supply	12~24V
Power consumption	<0.5W
Installation	G1/2 thread mounting

● **Dimensions**

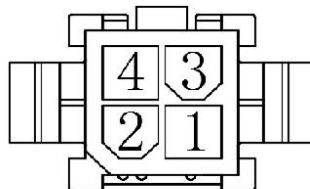


III、 Installation and use

● **Installation**

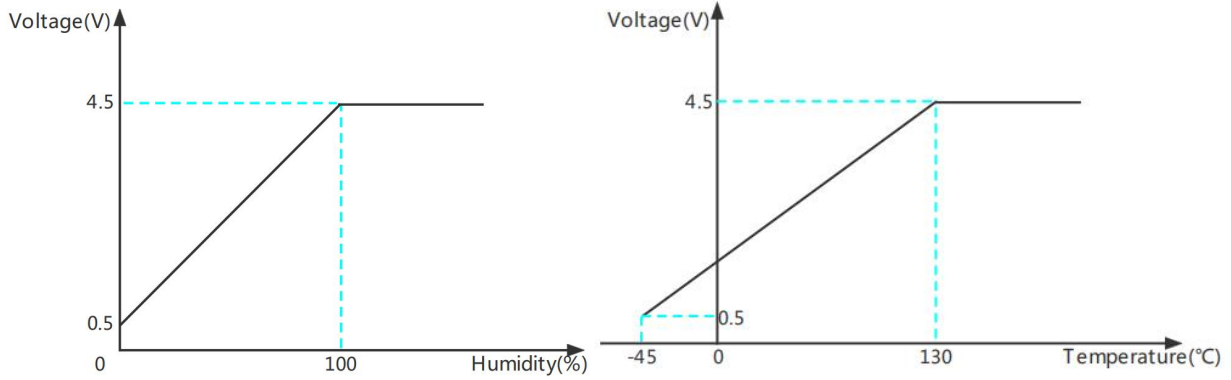
When installing the sensor, avoid excessive force or damage to the measuring parts due to the collision of sharp objects, otherwise it will affect the measurement. After completing the wiring, check carefully before turning on the power to avoid damage caused by incorrect wiring.

● **Electrical connection**



- 1:GND (black) 3:VCC (red, 12~24V)
2:Vout1 (white, humidity) 4:Vout2 (blue, temperature)

● Output curve



IV、 Quality and service

- The company has advanced testing equipment and standardized inspection procedures. Before the products leave the factory, they will conduct strict aging tests and stability tests in accordance with the inspection procedures.
- The product has been carefully debugged and calibrated before leaving the factory to ensure measurement accuracy.
- The company provides free product after-sales service within one year from the date of sale, but doesn't include damage caused by improper use. If you need to repair or debug, please contact customer service to send it back. When sending it back, please make sure that the packaging is good to avoid damage in transit.