



Product model: HTP150 surface temperature sensor

Manufacturer: Nanjing Hangjia Electronic Technology Co., LTD.

Product category: Temperature Sensor

Application: surface temperature measuring in energy, chemical industry, textile and other scientific research and production.

Overview

HTP150 mining surface temperature sensor is a PT100 temperature sensor that can be used underground in coal mines to detect the surface temperature of motors, reducers, and other mechanical and electrical equipment.

Features

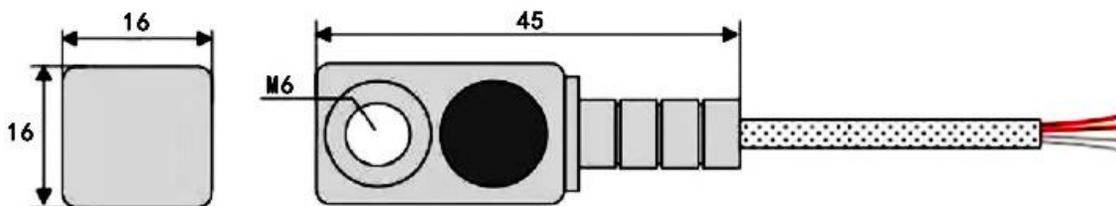
- ◆ Passive, contact temperature measurement.
- ◆ With four-wire resistance signal output, which meets the requirements of temperature measuring instruments using two-wire, three-wire or four-wire connection methods.

Technical Parameters

Temperature Range	0~200°C
Deviation	±1.5Ω
Output Signal	PT100 (100.0 ~ 175.86 Ω)
Working temperature	-20 ~ 40°C
Relative humidity	no more than 98% (refer to 25°C)
Atmospheric pressure	80~106kPa
Overall dimensions(length*width*height)	45mm*16mm*16mm

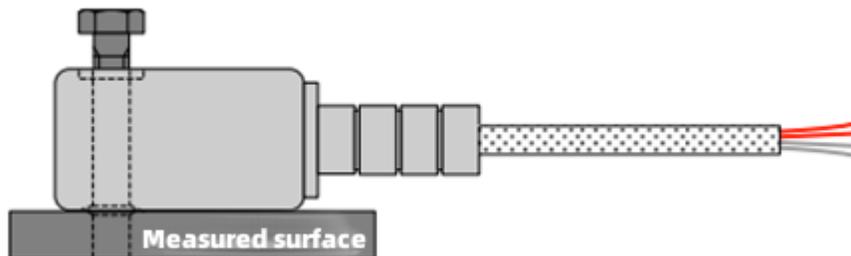
Working environment	No significant vibration or impact situations. There is an explosive mixture of methane and coal dust underground in the coal mine, but there is no corrosive gas that damages the insulation, no water spraying, and no water accumulation.
Weight	~86g

Structure Drawings (Unit: mm)



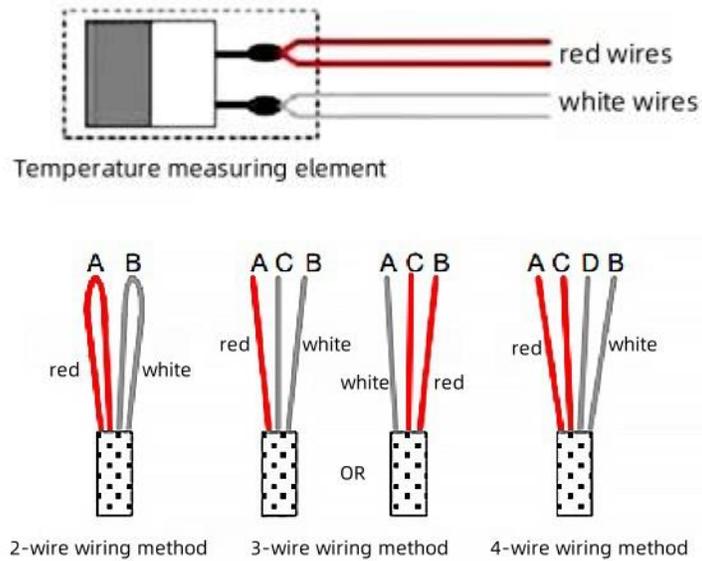
Installation

The temperature sensor should be installed in a place where coal, water and other objects cannot be splashed. It should be installed tightly on the surface of the equipment under test through bolts, and the lower surface of the sensor should be in complete contact with the back side. The signal lead-out line at its tail must be well protected and cannot be stressed to avoid damaging the internal wiring.



Wiring method

The sensor comes with 1.5m long four-core shielded cable leads from the factory, two red and two white wires each. The two red wires are short-circuited together internally, and the two white wires are short-circuited together internally. The sensor adopts a four-wire output form and can be easily connected to secondary instruments using two-wire, three-wire, or four-wire connection methods.



Certification Information

Factory certification	
Certification organization	CQM
Quality management system	ISO 9001:2015
Certification scope	Research, development and manufacture of pressure transmitter and temperature transmitter
Certificate No.	00223Q21711R1S