DATASHEET	Temperature

Resistive Temperature Sensor
For General Industrial Applications
Model PWT4100 series

Applications

- Coal & mine temperature monitoring
- Large workshop ovens temperature measurement
- Temperature control of immersible liquids
- Pipeline and ventilation system
- Cooling system and heating system
- Agricultural greenhouse
- HAVC

Features

- Compact size
- Easy installation
- Choices for different structures
- Compatible for most industrial applications
- Customized within 500℃
- Fast response and high accuracy
- IP68 for sensor part

Temperature Sensor PWT4100 series

Description

PWT4100 series temperature sensor uses high-accuracy, high-stability imported platinum resistors PT100.
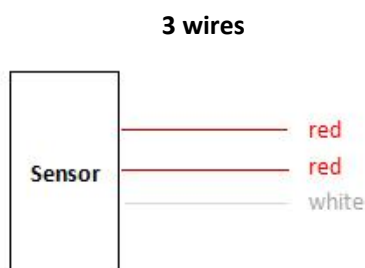
Through reasonable process design, full potting of stainless steel housing, and equipped with special temperature cable compensation, the platinum resistor output is more accurate, thus making a temperature sensor in the form of resistance output.

To be proven as the excellent performance for many solutions worldwide. OEM&ODM is available. Come to us to know more.

Specifications

Model	PWT4100
Sensor Type	Thin film PT100 resistor
Range	-60℃~+450℃ (optional)
Accuracy(℃)	A: ±0.2 B: ±0.4 C: ±1.0
Signal Output	Resistance value, three-wire
Response Time	15s
Medium Compatible	Liquid compatible with stainless steel SUS304 or SS316L
Material of Housing	SUS304, SS316L
Probe Material & Specification	SUS304, SS316L or nickel plating copper optional Φ 5 x 50 mm (can be customized)
Lead Wire	PT100 compensation wire (core: two red and one transparent, wrapped by PTFE skin)
Protection Level	IP68 (Wiring part IP66)
Insulation resistance	≥100m Ω (500VDC)

Electrical Connection

3 wires

Sensor
- red
- red
- white

Features and Drawings

PWT4100 Series		
Model	Features	Drawings
PWT4101	1. Classic structure 2. Standard dimension 3. -50℃~+300℃ (optional)	
PWT4102	1. Classic structure 2. Fully potting, anti-vibration 3. Nickel plating copper housing, fast response 4. -50℃~+200℃	
PWT4103	1. Stainless steel housing 2. Glue potting and groove rolling sealed 3. -20℃~+100℃	
PWT4104	1. Classic structure 2. Standard dimension 3. -50℃~+200℃ (optional)	
PWT4105	1. Classic structure 2. Single point spring lifting 3. -50℃~+200℃	
PWT4106	1. Classic structure 2. Standard dimension 3. -50℃~+200℃	

How to Order

Example Part Number: 4102[-20~100]CBCNT1L50D6002		

Model No.	PWT4101 PWT4102 PWT4103 PWT4104 PWT4105 PWT4106	4102
Temperature Range	-60℃~+450℃ Write directly in []	[-20~100]
Unit	C=℃	C
Accuracy	A: ±0.2℃ B: ±0.4℃ C: ±1.0℃	B
Process Connection	C1=G1/4" male C2=1/4"NPT male C3=G1/2"male C4=1/2" NPT male C5=M20x1.5 male CN=None C0=Customized	CN
Signal Output	T1=Resistive signal Ω	T1
Probe Length	L50=50mm LX=Customized	L50
Probe Diameter	D5=5mm D6=6mm D8=8mm DX=Customized	D6
Cable Length	000=Non-cable 001= 1m cable 002= 2m cable ...	002

*Means to order: Temperature sensor PWT4102, -20~100℃, ±0.4℃ accuracy, resistive signal, probe 6*50mm, cable length is 2 meters.

**Tell us:
medium/temperature range/signal output/probe dimension/electrical connector/process connection/accuracy/cable length... our sales engineer will recommend suitable model for you.*