

MT1210 Platinum Thermistor Temperature Sensor (gas/liquid/solid temperature measurement)

MAIN FEATURES

- Imported thermistor and production technology, high precision and good stability;
- The diameter is small, the thermal response time is small, and the dynamic error is reduced;
- It has a variety of process connection forms and extension neck types, and supports user-defined insertion depth of thermal resistance;
- High precision measurement: PT100 temperature sensor complying with IEC 60751 (Class A or higher) is adopted.

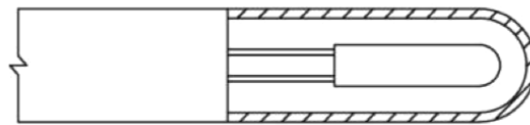


OVERVIEW

MT1210 series platinum thermistor temperature sensor adopts the international famous brand thermistor with high precision and good stability; the introduction of international advanced production technology and equipment reduces the precision error caused by packaging, ensuring the accuracy and life of the sensor. Generally, this series of sensors are used together with amplifiers, display recorders, upper computer software, PLC / DCS, etc. Directly measure the surface temperature of liquid, gas, steam medium and solid in the range of - 200C - 500C in various production processes.

WORKING PRINCIPLE

The thermal resistance temperature measurement is based on the characteristic that the resistance value of metal conductor increases with the increase of temperature. When the resistance value changes, the working instrument will display the temperature value corresponding to the thermal resistance.



Internal package drawing

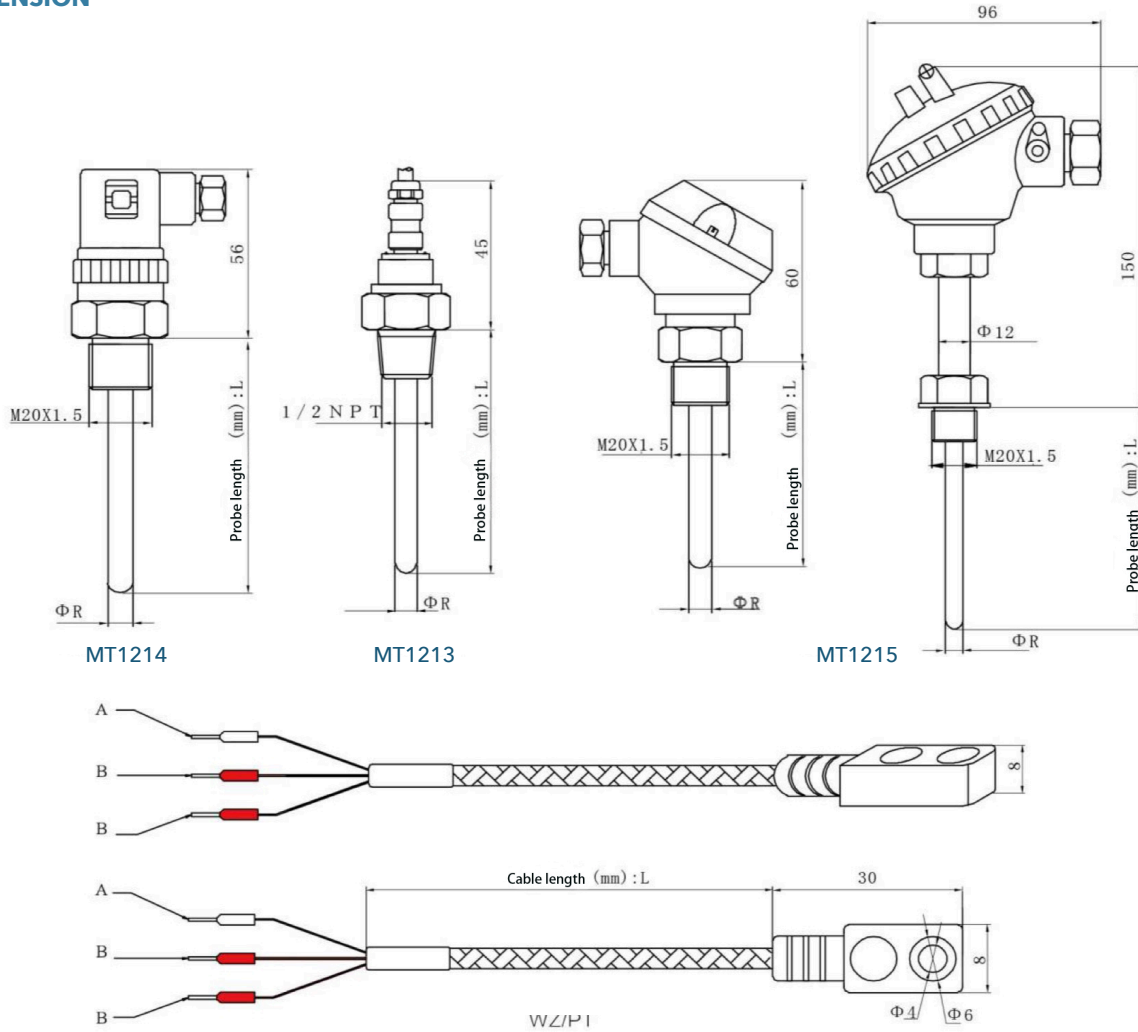
SPECIFICATION

Range(PT100)	-200 ° C ~ 500 ° C
Accuracy	AA Class: $\pm(0.1\pm0.002t)$, A Class: $\pm(0.15\pm0.002t)$, B Class: $\pm(0.3\pm0.005t)$
Measuring medium	Liquid/gas/vapor
Insulation resistance	$\geq 100M\Omega/10-100VAC$
Lead cable wire	two-wire system, three-wire system, four-wire system
Protective tube material	304 316L 1Cr18Ni9Ti
Response time	$\Phi 10 t < 15s$, $\Phi 8 t < 12 s$, $\Phi 6t < 10s$, $\Phi 3t < 3s$
Probe outer diameter	Min.3mm max. 100mm
Insertion depth	10 mm - 2000 mm
Protection level	IP65 Standard) IP66 (Custom)
Explosion-proof	Intrinsically safe instrument (Exia), non sparking (ex Na)

Remarks:

- Sensor cold end temperature resistance up to 250
- 1 * PT100, 2 * PT100, free choice of thermal resistance or thermocouple
- With amplifier circuit, output 4-20mA current signal or 1-10V voltage signal

DIMENSION



ORDER CODE

Code:	A	-	B	-	C	-	D	-	E	-	F
Model:	MT1210	-	0~250°C	-	T	-	A	-	100	-	N

Model	Code A
3PIN Electric connection	1213
4PIN Electric connection	1214
Electric box connection	1215
Temperature Range (X=specific)	Code B
-200°C~500°C	X °C
Other customized	C
Temperature type	Code C
1 * PT100	PT1
2 * PT100	PT2
Thermocouple (E, J, K etc.)	T

Accuracy	Code D
AA Class: $\pm(0.1 \pm 0.002 t)$	AA
A Class: $\pm(0.15 \pm 0.002 t)$	A
B Class: $\pm(0.3 \pm 0.005 t)$	B
Insertion depth	Code E
10 mm - 2000 mm Customized	C
Output signal (Optional)	Code F
No output	N
4~20mA	MA
0~10V (range can be customized)	V1
More output customized	C