

# Platinum Resistance Temperature Sensor

**GAIMC**

## GTS300



### DESCRIPTION

Platinum resistance temperature sensor is a temperature sensor which is made by using the resistance of metal platinum (pt) as a function of temperature. It is widely used because of its high measurement accuracy, large measurement range, reproducibility and stability. Temperature measurement in the range of medium temperature (-200°C~ 650°C)

### FEATURES

- High precision and good stability ;
- High sensitivity and good linearity ;
- The response time is small and the interchangeability is good ;
- Small structure, easy installation and good waterproofness;
- Adopting imported German film chip,

### APPLICATION

Platinum resistance temperature sensor is mainly used in high precision temperature equipment such as medical, motor, industrial, temperature calculation, resistance calculation, etc., and its application range is very wide .

## DIMENSIONS

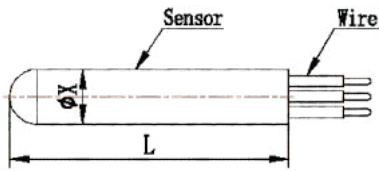


Fig.(a)

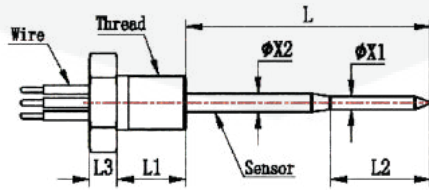


Fig.(b)

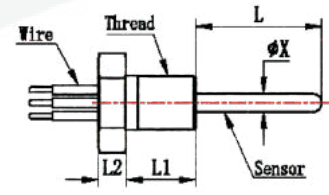


Fig.(c)

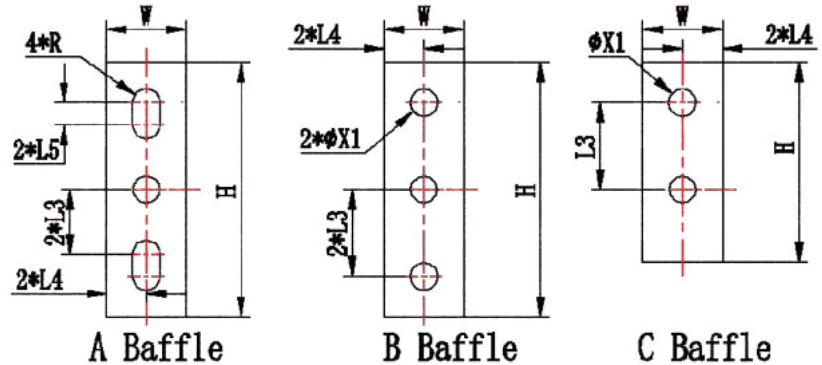
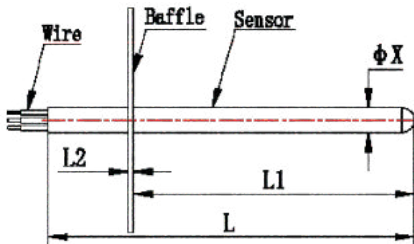


Fig.(d)

## PARAMETERS

RTD	PT100, PT1000
Accuracy	1/3DIN( $\pm 0.1^{\circ}\text{C}$ ), Grade A( $\pm 0.15^{\circ}\text{C}$ ), Grade B( $\pm 0.3^{\circ}\text{C}$ )
Temp. range	1/3DIN: $0\sim +150^{\circ}\text{C}$ ; Grade A: $-50\sim +300^{\circ}\text{C}$ ; Grade B: $-70\sim +500^{\circ}\text{C}$ ;
Shell size	Diameter: $\phi 3\sim \phi 9\text{mm}$ , length: $3\text{mm}\sim 1000\text{mm}$
Shell material	Stainless steel, copper, copper plated nickel, aluminum, ABS, PVC.
Wire	UL series (such as UL1007), Supply line number, using temp. range, outside diameter and material requirements.
Connector	Molex, JST, DuPont, CWB, CJT, etc.
Heat-shrinkable sleeve	PVC tube; glass fiber tube; teflon tube

Order instruction:

When you placing order , please inform us the following parameters:

1. Application and working environment (whether to waterproof, acid or alkali and other)
2. Accuracy requirement (1/3DIN( $\pm 0.1^{\circ}\text{C}$ ), Grade A: $\pm 0.15^{\circ}\text{C}$ , Grade B: $\pm 0.3^{\circ}\text{C}$ )
3. Temperature measurement range ( $-70\sim +500^{\circ}\text{C}$ )
4. Which wires output (Commonly 2 wires/3 wires/4 wires, Choose one of them)
5. Shell material (Stainless steel, copper, copper plated nickel, aluminum, ABS, PVC.)
6. Shell pipe diameter and length (Commonly Size:  $3*30\text{mm}$ ,  $4*30\text{mm}$ ,  $5*30\text{mm}$ ,  $6*30\text{mm}$ ; others can be customized)
7. Wire material and length (Common PVC, silicone, teflon)
8. How to deal with end of Line (hung tin, with connector)