

Resistance Temperature Detectors (RTDs)

Resistance Temperature Detectors (RTD's). These detectors are frequently used in the plastics industries and many others. Care must be taken to eliminate moisture and vibration effects can be troublesome as well. Thermo Sensors provides the utmost in current state of the art in materials, techniques and research.

Thermo Sensors offers the Reliatemp RTD. This RTD features lifetime moisture free use as well as excellent vibration resistance.

Please refer to our order guide to assist in determining your needs. We can also provide technical design assistance and application suggestions. Give us a call.



Reliatemp RTD

Advantages of Thermo Sensors' new "RELIATEMP" RTD

- Great insulation resistance due to highly compacted Mgo along with proprietary techniques performed during manufacturing. Thermo Sensors standard IR test is 100 volts input with a pass being greater than 2000 megohms.
- Wide span of temperature, (-200 to +400 c) with optional I-600 sheath (-200 to +660 c).
- Vibration resistant due to encapsulation method of element.
- Improved time response due to moisture free Mgo compaction.
- Less drift due to Mgo compaction and iron-free backing powder in RTD tip.

Reliatemp RTD Specs

Ice Point Resistance:	100 ohm ± .10 ohm
Temperature Range:	-200 to +660 c
Insulation Resistance:	>2000 megohms (waterproof)
Time Response:	2.1 seconds
Thermal Shock:	450 c plunged into room temperature water at 3 fps, five times
Thermal Cycling:	284 cycles between 26 c and 480 c (62 min. intervals)
Self Heating:	7.8 ohm/watt with 60 mw/1.2 c
Vibration:	Three axes with 3 g's acceleration (5 to 500 Hz) at room temperature
High Temp Vibration:	One axis with 20 g's acceleration (30 to 550 Hz) at 540 c

**RTD'S fabricated per ASTM E1137

**RTD'S tested per ASTM E644 & beyond

Reliatemp RTD Warranty

Thermo Sensors warrants all RTD's to be free from defects in workmanship for a three year period. This warranty is limited to workmanship in the encapsulation process. RTD's which fail within the three year period due to vibration, physical abuse or process, will not be covered under warranty.

Thermo Sensor's Reliatemp RTD is completely waterproof. Therefore, insulation resistance is guaranteed for a lifetime to be moisture free, greater than 2000 megohms.

Rtd's which "fall within" the warranty conditions will be replaced at no charge, after the Thermo Sensors evaluation.