RTDs and Thermistors

Resistance Temperature Sensing RTDs

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Watlow's platinum resistance elements are specially designed to ensure precise and repeatable temperature versus resistance characteristics. The sensors are made with controlled purity platinum, have high purity ceramic components and constructed in a unique strainfree manner.

Performance Capabilities

 Ceramic elements are extremely precise and stable within the wide temperature range of -200 to 650°C (-328 to1200°F).

Features and Benefits

Patented, strain-free construction

- Provides dependable, accurate readings
- Allows elements from different lots to be substituted without recalibration

High signal-to-noise output

- Increases accuracy of data transmission
- Permits greater distances between sensor and measuring equipment

Temperature coefficient (alpha) carefully controlled while insulation resistance values exceed DIN-IEC-751 standards

- Ensures sensor sensitivity
- Minimizes self heating
- Allows precise measurement
- Repeatable

Highly controlled manufacturing process

- Ensures wide temperature range
- Stabilizes physical and chemical attributes

Metric diameters and fittings are available, please consult factory



Applications

- Air conditioning and refrigeration servicing
- Furnace servicing
- Stoves and grills
- Textile production
- Plastics processing

- Petrochemical processing
- Micro electronics

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- Air, gas and liquid temperature measurement
- Exhaust gas temperature measurement



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• Ensures positive contact

Complete assembly available

• Head mounted 4-20mA transmitter, two- or three-wire input and non-isolated

Variety of connection head options

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Meet your application requirements

- ^① Units with transmitter, buyer to specify range and degree C or F, as well as temperature span.
- ⁽²⁾ Other sizes, lengths and materials available. Consult factory.



For further details on Watlow connection heads see the hardware section of this catalog, pages 156 to 157.