

- Suitable for Wet or Condensing Environments
- Flexible, Tough and Durable
- Fast Response
- Excellent Performance on Small Radius Contour & Tube Surface
- Long Term Stability
- Fully Sealed
- Strain Isolated
- -200 to 200°C Temperature Range

iSurTEMP RTD is a low cost, flexible, sealed platinum RTD. The thin film element sensor is sealed and isolated from the environment for stability. It's extremely small and thin design allows this flexible package to easily conform on complex surfaces and provide fast and response. Moisture resistance to condensation and shallow immersion in liquids is accomplished by a special Polyamide film that completely encapsulates the assembly and lead entrance. The standard operating range is -200°C to 200°C.

PART NUMBERS	DESCRIPTION
iSUR-RTD1-4-1	iSurTemp-RTD Surface RTD Temperature Sensor

SPECIFICATIONS

Element Calibration: Pt 100

Temperature Range: -200°C to 250°C

Resistance (@ 0°C): 100Ω

Alpha: 0.00385 ohms/ohms

Encapsulation Material: Refractory Passive Moisture Repellant Polyamide Film

Accuracy: Class B Accuracy ($\pm 0.3^\circ\text{C}$ tolerance @ 0°).

Insulation Resistance: Greater than 5 Megohms minimum @50V DC at 25°C

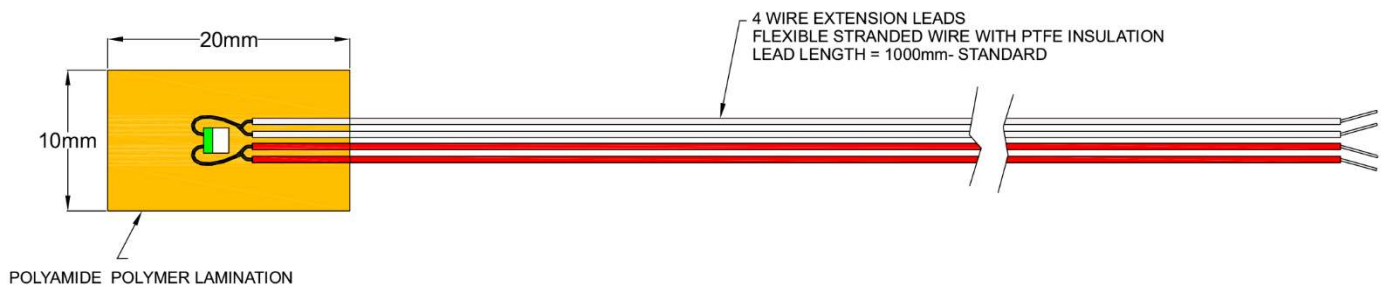
Excitation current: 0.3mA recommended. 1 mA MAX

Lead Wire: 4 wire flexible leads, silver plated stranded copper conductors equivalent to 28 Gauge conductor, individually Teflon insulated.

Standard Length of Extension Leads: 1000 mm. Longer Lead Lengths Possible

Size of RTD Element : 2mm(L) X 2.5mm(W) X 1.5mm(H) - MINIMUM

Size of the Encapsulation Film: 25mm X 35mm (MAX) to 10mm X 20mm



Contact IOThrifty for any questions on this product or any of your temperature measurement needs.