Redfish Sensors Platinum RTD Temperature Probe

Redfish Sensors Platinum Thin Film RTD Temperature Probes are manufactured with state of the art thin film Platinum RTD elements and materials designed to give superior temperature measurement and exceptional stability.

Common applications include Automotive, White goods, HVACR, Industrial Medical, Military and Aerospace.

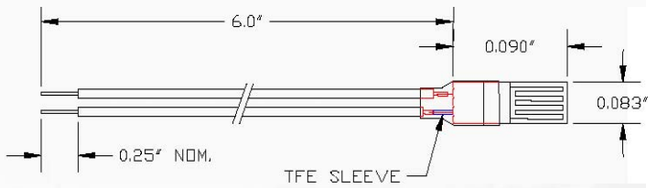
- Made from Class A, Class B, and Class 3 1/3 DIN B thin film platinum RTD elements
- 100 ohm, 500 ohm and 1,000 ohm RTD elements
- Standard #26 AWG tinned and stripped lead wires, Teflon (260°C) or Fiberglass (500°C) insulated
- Connectors available, contact your Redfish Sensors representative for details
- 3,850 ppm Temperature Coefficient @ 0°C
- Operating temperature range –70°C to 500°C depending on lead wires
- Welded lead wires

Part number example:

R422-	**101**	**B-**	**T**	**2**	**12**
Part Style = Lead Wire Extension	Resistance 10 1 \ \- Number of zeroes \- - 1st two resistance digits	Tolerance A = Class A B = Class B 3 = Class 1/3 DIN B	T = Teflon F = Fiberglass	# Of lead wires, 2, 3 or 4	Lead wire length in inches

The above part number example yields a R422 style RTD temperature probe with a 100 ohm Class B element with two #26 AWG Teflon lead wires, twelve inches long.

Specifications:



- Resistance values are calculated .31" from the end of the thin film element
- Class A = +/- 15°C at 0°C
- Class B = +/- .3°C at 0°C
- Class 3 1/3 DIN = +/- .1°C at 0°C
- Long term stability + .04% max after 1000 hours at 500°C
- Vibration resistant to 40 g acceleration between 10 and 2000 Hz depending on mounting
- Shock resistant to 100 g acceleration with 8 ms half sine wave, depending on mounting
- Greater than 10M ohm insulation resistance at 20°C, greater than 1 M ohm at 260°C
- Use unprotected only in dry environments
- Self Heating in ice water a 0°C .4K/Mw
- Response time .05 sec. In moving water at a velocity of .4 meters per second @ $t_{0.5}$
- Response time .15 sec. in moving air at a velocity of 2 meters per second @ $t_{0.9}$

Specifications subject to change.