Heraeus Nexensos

Pt Temperature Sensor for Oven Applications based on DIN EN 60751

Temperature range -40 °C to +500 °C, temporary up to +550 °C

- Flanged housing for easy mounting
- Standard design widely used in cooking ovens
- Pt1000 available with 3850 ppm/K or 3750 ppm/K TCR
- High maximum operating temperature +500 °C continuous, temporary up to +550 °C

The Pt RTD is completely encapsulated in a stainless steel housing with an integral mounting flange, and terminated with fiberglass insulated connection wires. The flanged housing enables easy mounting in a variety of applications, such as home ovens, HVAC, industrial equipment, industrial ovens, and commercial food service equipment. The rugged stainless steel housing is resistant to a wide variety of industrial chemicals.

Nominal Resistance R_0 [Ω]	Tolerance Class	Order Number
Pt100	F 0.3 (B)	5117591
Pt1000	F 0.3 (B)	5117592 / 5117593

Temperature Range of Tolerance Class

Tolerance Class F 0.3 (B) -40 °C to +500 °C
Characteristics based on DIN EN 60751.

Temperature Coefficient

TCR = 3850 ppm/K (5117591, 5117592)
TCR = 3750 ppm/K (5117593)

Connection Wire

Fiberglass insulated, 2x 0.22 mm^2 (24 AWG)
Pt 100: 3 wire connection (one wire marked to indicate polarity)
Pt1000: 2 wire connection

Internal Conductor Resistance

0.03 Ω/ft (0.098 Ω/m) for each conductor

Housing

Stainless steel, 300 series

Applications

- Oven temperature
- HVAC
- General purpose temperature sensing

Image for illustration purposes only

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Features

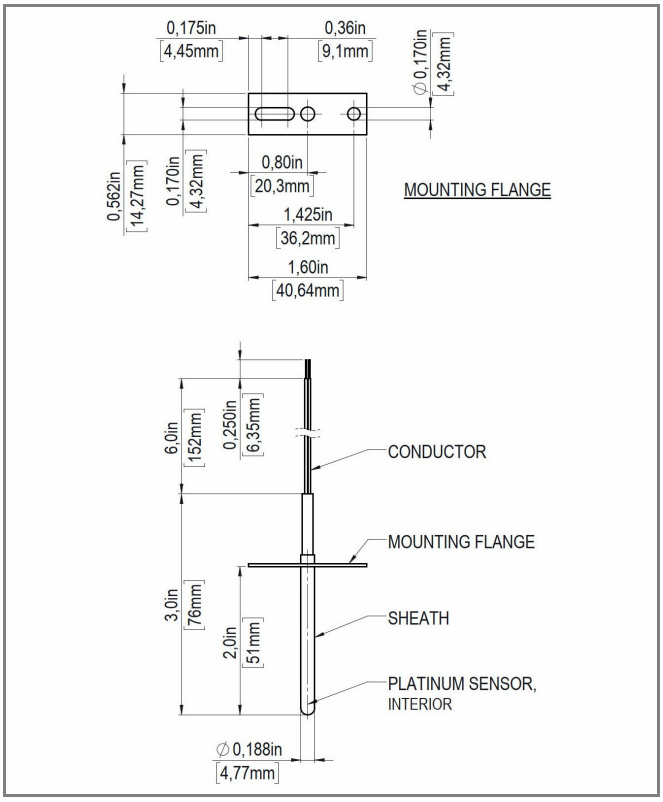
- Flanged housing allows for easy mounting
- Standard design widely used I cooking ovens
- Available in Pt100 or Pt1000 resistance values
- Pt1000 available in TCR 3850 ppm/K or TCR 3750 ppm/K
- +550 °C maximum operating temperature (short time)

Options

- Wire length
- Resistance Value
- Connectors

Resistance vs Temperature Table

Reference table @ www.herae.us/technical-information



RoHS compliant

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