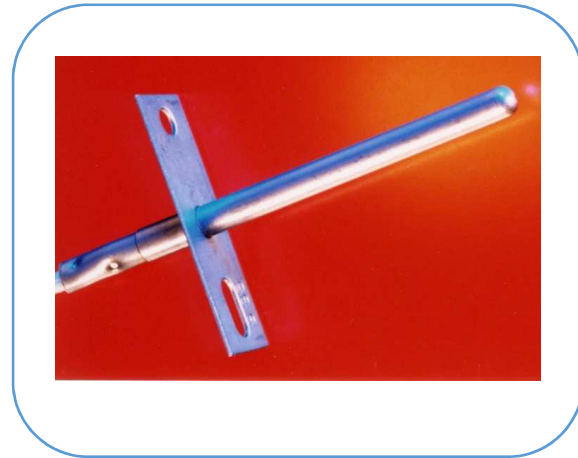# Heraeus

Oven Temperature Sensor

Platinum RTD sensor enclosed in closed-end stainless steel housing with integral mounting flange, fiberglass insulated lead wires

Applications

- Oven temperature
- Heating, ventilating, and air conditioning
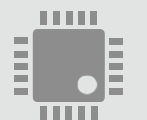- General purpose temperature sensing

Features

- Flanged housing allows for easy mounting
- Standard design widely used in cooking ovens
- Available in Pt100 or Pt1000 resistance values
- Pt1000 available in TC3750 or TC3850
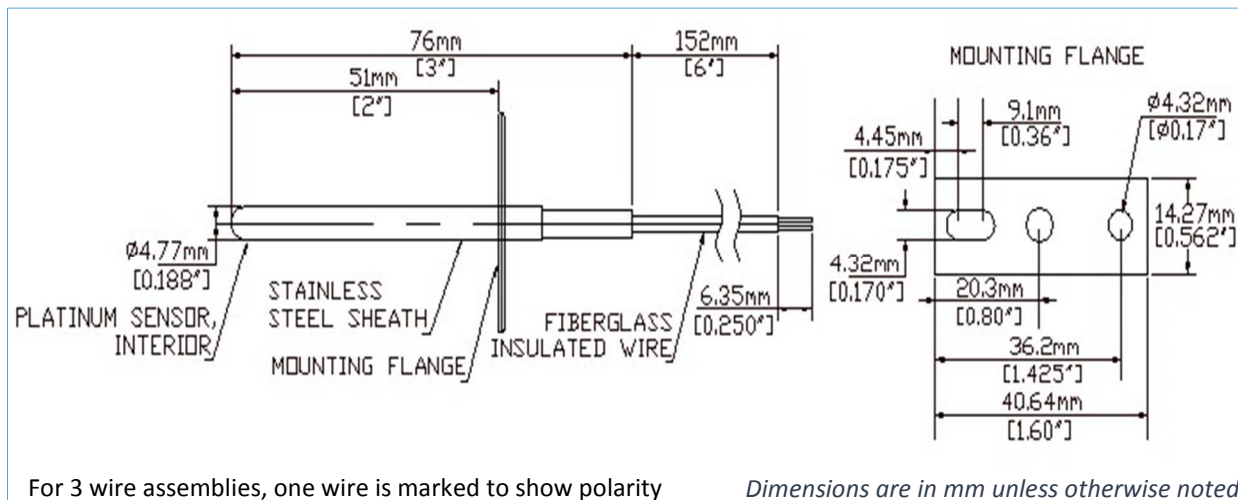- +500^{0}C maximum operating temperature

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Oven Temperature Sensor Specifications

For 3 wire assemblies, one wire is marked to show polarity

Dimensions are in mm unless otherwise noted

Specifications

Operating Temperature Range

-40°C to +500°C

Connection wire

Fiberglass-insulated, 2x0.22mm^2

(24AWG)

Pt100:   3 wire connection (one wire marked to indicate polarity)

Pt1000: 2 wire connection

Temperature sensing element

Platinum RTD, Pt100 or Pt1000, as per

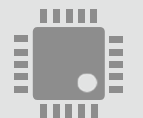DIN EN 60751 F0.3

Housing

Stainless steel, 300 series

Wire resistance

0.030Ω/ft (0.098Ω/m) for each conductor

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Oven Temperature Sensor

Options

Wire length

Resistance value

Connectors

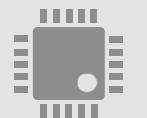## Ordering Code for Standard Product

Pt100   TC3850 (3 wire): 35110020

Pt1000 TC3850 (2 wire): 35110021

Pt1000 TC3750 (2 wire): 35110022

Resistance vs Temperature Table

Reference tables @ https://www.heraeus.com/en/hst/technical_information/technical_information_hst.aspx

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