Pt Temperature Sensor with Ceramic Housing High-Temp. according to DIN EN 60751

Temperature range -40 °C to +500 °C

- Electrically insulating alumina ceramic housing
- Possible subassembly for stainless steel housing sensor
- High-temperature rated fiberglass insulated connection wires
- High maximum operating temperature +500 °C

The electrically insulating housing facililates quick assembly in a stainless steel sensor probe housing. Possible applications include temperature measurement in commercial cooking equipment, analytical instruments, or any application requiring an electrically isolated sensor body and high-temperature capability.

Nominal Resistance R_0 [Ω]	Tolerance Class	Order Number
Pt100	F 0.3 (B)	5117586
Pt1000	F 0.3 (B)	5117587

Temperature Range of Tolerance Class

Tolerance Class F 0.3 (B) -40 °C to +500 °C

Temperature Coefficient

TCR = 3850 ppm/K

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

Aluminium oxide ceramic

Applications

- Temperature probe assembly
- HVAC
- Laboratory instrumentation
- Laboratory ovens & furnaces
- Applications requiring an electrically insulating or non-metallic sensor body

Image for illustration purposes only

Pt Temperature Sensor with Ceramic Housing High-Temp. according to DIN EN 60751

Temperature range -40 °C to +500 °C

Features

- Alumina ceramic housing provides excellent electrical isolation
- Small diameter (0.135", 3.43 mm) allows insertion into metal housings with OD of 0.156" (3.96 mm) & larger
- Widely used for a variety of temperature sensing applications
- Available in Pt100 or Pt1000 resistance values
- +500 °C maximum operating temperature

Options

- Wire length
- Resistance Value
- Connectors

Resistance vs Temperature Table

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

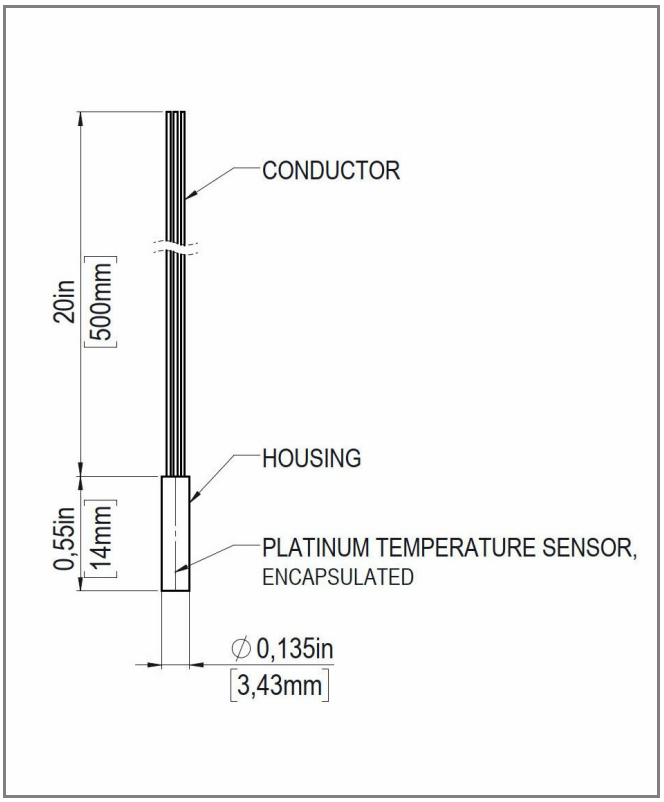

Image for illustration purposes only

RoHS konform

Heraeus Nexensos USA, a division of Heraeus Epurio LLC, 770 Township Line Road, Suite 300, Yardley, Pennsylvania, USA 19067

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Heraeus:

35110015 35110016 5117586 5117587