# Heraeus

### Pt Temperature Sensor with Ceramic Housing according to DIN EN 60751

Temperature range -40 °C to +260 °C

- Electrically insulating alumina ceramic housing
- Possible subassembly for stainless steel housing sensor
- Rugged PTFE-insulated connection wires

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.

Nominal Resistance R <sub>0</sub> [ $\Omega$ ]	Tolerance Class	Order Number
Pt100	F 0.3 (B)	5117588
Pt1000	F 0.3 (B)	5117589

#### Temperature Range of Tolerance Class

Tolerance Class F 0.3 (B) -40 °C to +260 °C

#### **Temperature Coefficient**

TCR = 3850 ppm/K

#### **Connection Wire**

PTFE insulated 26 AWG (0.14 mm<sup>2</sup>), 20in (0.51 m) long, color coded Pt100: 3 wire connection Pt1000: 2 wire connection

#### Internal Conductor Resistance

0.04  $\Omega/ft$  (0.134  $\Omega/m)$  for each conductor

#### Housing

Aluminium oxide ceramic

#### Applications

- Temperature probe assembly
- HVAC
- Laboratory instrumentation
- Laboratory ovens
- Applications requiring an electrically insulating or nonmetallic sensor body



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Temperature range -40 °C to +260 °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
- +260 °C maximum operating temperature

#### Options

- Wire length
- Resistance Value
- Connectors

#### Resistance vs Temperature Table

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

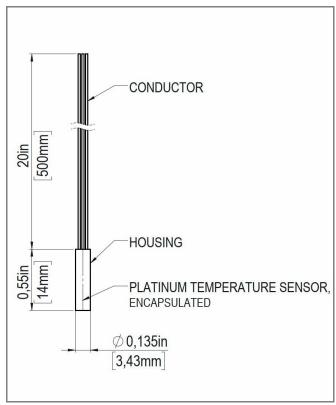


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