

## Platinum Temperature Sensor with ceramic housing according to DIN EN 60751 Temperature range -40 °C to +260 °C

The Pt-RTD is completely encapsulated in a ceramic housing. The dimensionally stable protective tube allows easy mounting in according holes. Preferred applications for temperature measurement are in gaseous media, in heating and air conditioning as well as in electrical insulated or non-metallic required sensor bodies.

| Nominal Resistance $R_0$ | Tolerance       | Order Number     |
|--------------------------|-----------------|------------------|
| 100 Ohm at 0 °C          | F 0.3 (Class B) | 5117588 (3 wire) |
| 1000 Ohm at 0 °C         | F 0.3 (Class B) | 5117589 (2 wire) |

### Temperature coefficient

TCR = 3850 ppm/K

### Connection wire

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

### Internal lead resistance

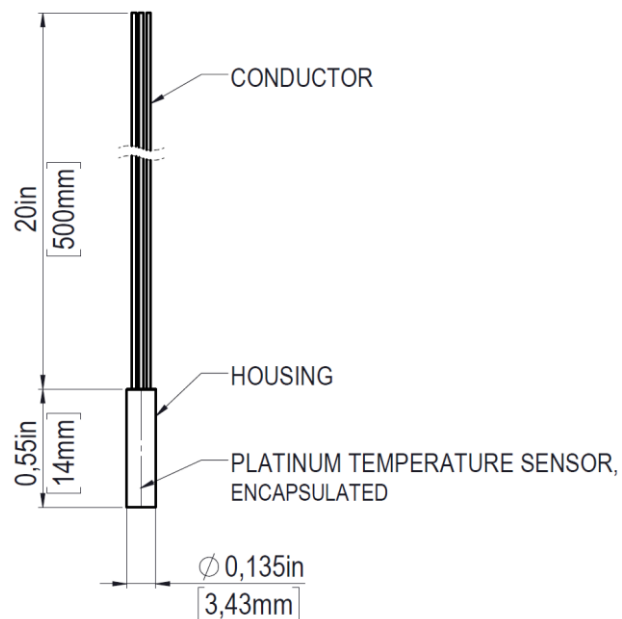
0.04 Ω/ft. (0.134 Ω/m) for each conductor

### Housing

Aluminum oxide ceramic

### Application

- Temperature probe assembly
- Heating, ventilating, and air conditioning
- Laboratory instrumentation
- Laboratory ovens
- Applications requiring an electrically insulating or non-metallic sensor body



### Features

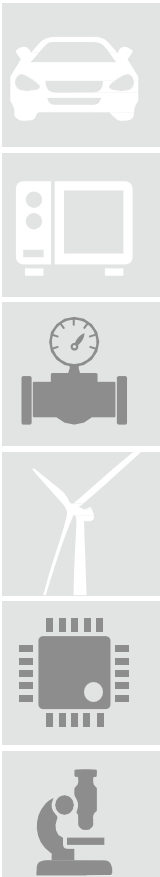
- Alumina ceramic housing provides excellent electrical isolation
- Small diameter (0.135", 3.43mm) allows insertion into metal housings with OD of 0.156" (3.96mm) & larger
- Widely used for a variety of temperature-sensing applications
- Available in Pt100 or Pt1000 resistance values
- +260 °C maximum operating temperature

### Options

Wire length  
Resistance value  
Connectors

### Resistance vs Temperature Table

Reference table @ [www.heraeus.com/technical-information](http://www.heraeus.com/technical-information)



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