

## 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 facilitates 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 $R_0$ [ $\Omega$ ]	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  $\Omega$ /ft (0.098  $\Omega$ /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



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### 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](http://www.herae.us/technical-information)

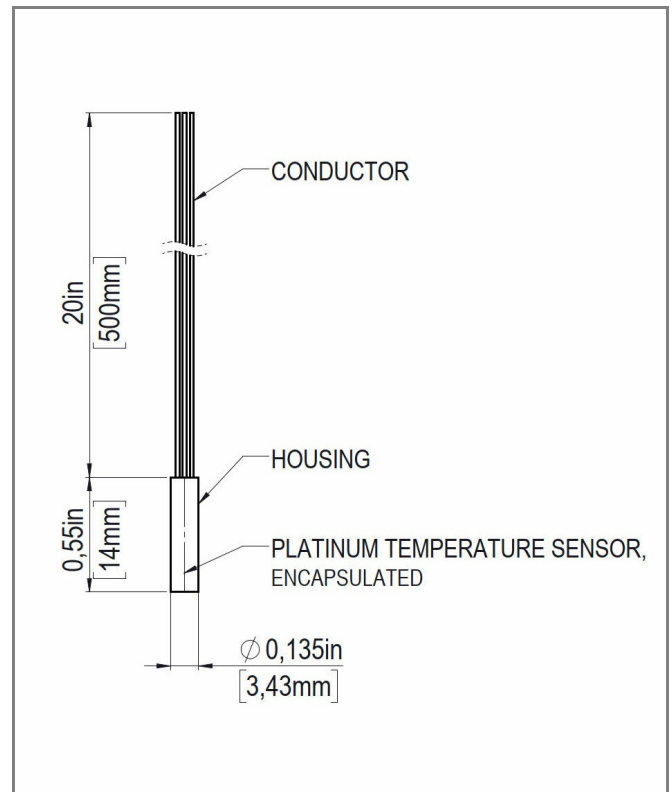


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