

Platinum Temperature Sensor with ceramic housing (high-temp.) according to DIN EN 6075 Temperature range -40 °C to +500 °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 the temperature measurement are high temperature requirements in gaseous media and in heating and air conditioning as well as in electrical insulated or non-metallic required sensor body's.

Nominal Resistance R_0	Tolerance	Order Number
100 Ohm at 0 °C	F 0.3 (Class B)	35 110 015 (3 wire)
1000 Ohm at 0 °C	F 0.3 (Class B)	35 110 016 (2 wire)

Temperature coefficient

TCR = 3850 ppm/K

Connection wire

Fiberglass insulated, 2 x 0.22 mm² (24AWG)

Pt100: 3 wire connection

(one wire marked to indicate polarity)

Pt1000: 2 wire connection

Internal conductor resistance

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

Housing

Aluminum Oxide ceramic

Application

- Temperature probe assembly
- Heating, ventilating, and air conditioning
- Laboratory instrumentation
- Laboratory ovens & furnaces
- 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) and larger
- Widely used for a variety of temperature-sensing applications
- Available in Pt100 or Pt1000 resistance values
- +500 °C maximum operating temperature

Options

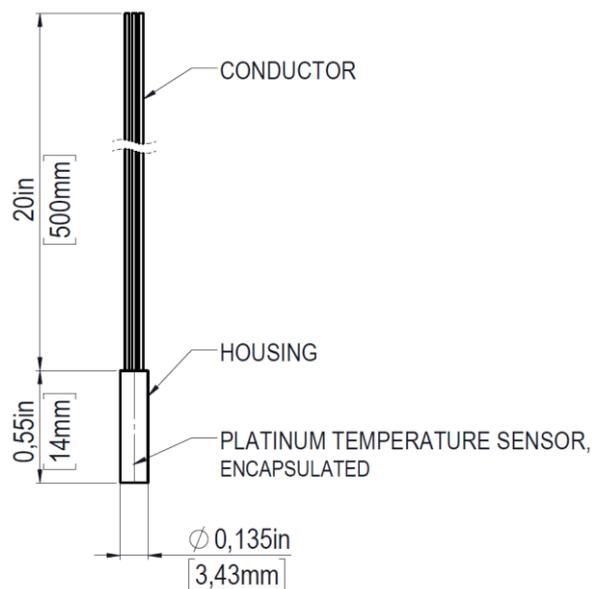
Wire length

Resistance value

Connectors

Resistance vs Temperature Table

Reference table @ www.heraeus.com/technical-information

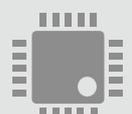


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