

W-GYK, Thread-mountable Platinum Temperature Sensor according to DIN EN 60751

Temperature range -40 °C to +250 °C

The Pt measuring resistor is completely mounted in a brass housing. The thread allows easy mounting via the according threaded holes and is thus particularly suitable for measurements with improved force and form fit. Preferred applications for temperature measurement are in gaseous media and in heating and air conditioning at elevated temperatures. The housing material is resistant to oils, fats, organic and inorganic bases and alkalis (medium concentration) and protects the sensor from mechanical damage.

Nominal Resistance R_0	Tolerance	Order Number
100 Ohm at 0 °C	F 0.3 (Class B)	30 010 007
1000 Ohm at 0 °C	F 0.3 (Class B)	30 010 000

Temperature range and coefficient

TCR = 3850 ppm/K

Connection wire

PTFE insulated, Ni-wire
2 x \varnothing 0.4 mm (\approx 26AWG), 180 mm long

Internal conductor resistance

0,27 Ω \pm 25 %

Housing

Hex screw with G1/8 thread, brass 2.0401 (MS58)

Application

Temperature sensing in

- Heat sinks
- Motor casings
- Bearing casings
- Mechanical equipment

Features

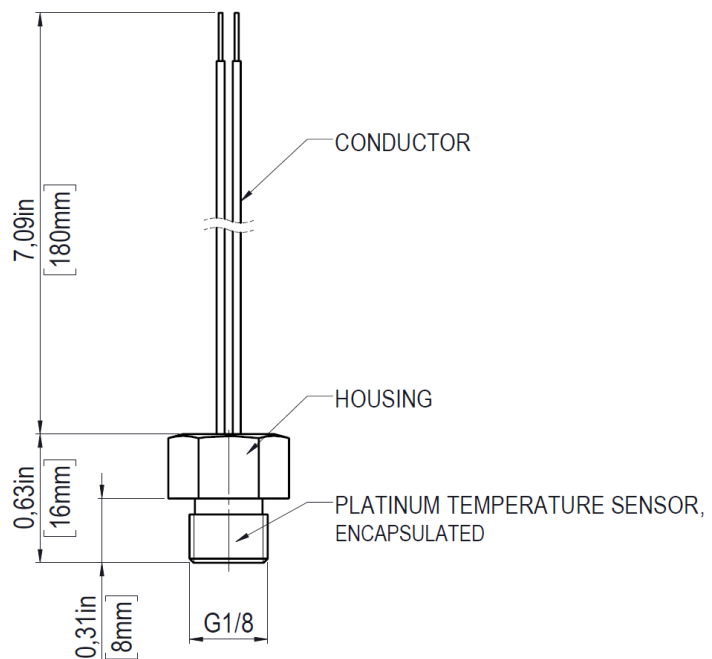
- Easy surface mounting via integrated G 1/8 thread
- Brass housing provides good thermal transfer
- Rugged PTFE-insulated connection wires
- Available in Pt100 and Pt1000 resistance values
- +250 °C maximum operating temperature

Options

- Wire length
- Resistance value
- Connectors

Resistance vs Temperature Table

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



California Proposition 65

WARNING:
This product can expose you to chemicals including lead oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm, and including cobalt oxide, nickel and cobalt, which are known to the State of California to cause cancer. For more information go to [www.heraeus.com](#)

The information provided in this data sheet describes certain technical characteristics of the product, but shall not be qualified or construed as quality guarantee (Beschaffenheitsgarantie) in the meaning of sections 443 and 444 German Civil Code. The information provided in this data sheet regarding measurement values (including, but not limited to, response time, long-term stability, vibration and shock resistance, insulation resistance and self-heating) are average values that have been obtained under laboratory conditions in tests of large numbers of the product. Product results or measurements achieved by customer or any other person in any production, test, or other environment may vary depending on the specific conditions of use.

The customer is solely responsible to determine whether the product is suited for the customer's intended use; in this respect Heraeus cannot assume any liability. The sale of any products by Heraeus is exclusively subject to the General Terms of Sale and Delivery of Heraeus in their current version at the time of purchase, which is available under www.heraeus.com/gtc or may be furnished upon request. This data sheet is subject to changes without prior notice.

Heraeus Nexensos GmbH, Reinhard-Heraeus-Ring 23, 63801 Kleinostheim, Germany

Web: www.heraeus-nexensos.com