

## W-SZK, Platinum Surface Temperature Sensor according to DIN EN 60751

Temperature range -20 °C to +110 °C

The Pt-RTD element is fully enclosed in a molded polypropylene housing. Integrated thru-hole allows for easy mounting via a screw, rivet, etc. and is particularly suitable for surface measurements. Preferred applications include temperature measurement in gaseous media as well as in heating and air conditioning technology. The housing material is largely resistant to greases, organic and inorganic bases and alkalis (medium concentration).

Nominal Resistance $R_0$	Tolerance	Order Number
100 Ohm at 0 °C	F 0.3 (Class B)	31 600 393
1000 Ohm at 0 °C	F 0.3 (Class B)	30 504 002

### Temperature coefficient

TCR = 3850 ppm/K

### Connection Wire

PVC jacket, PVC primary insulation  
2 x 0.22mm<sup>2</sup> (24AWG) x 2.5 m long  
Color: black

### Housing

Molded fiber-reinforced polypropylene  
Color: black

### Response time

t<sub>05</sub> = 9s

t<sub>09</sub> = 70s

(measured on copper block at 156 °C)

### Application

- Heating, ventilating, and air-conditioning
- Data logging
- General purpose temperature sensing

### Features

- Rugged molded polypropylene housing
- Abrasion-resistant jacketed cable
- Versatile, multi-purpose design
- Available in Pt100 or Pt1000 resistance values
- +110 °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)

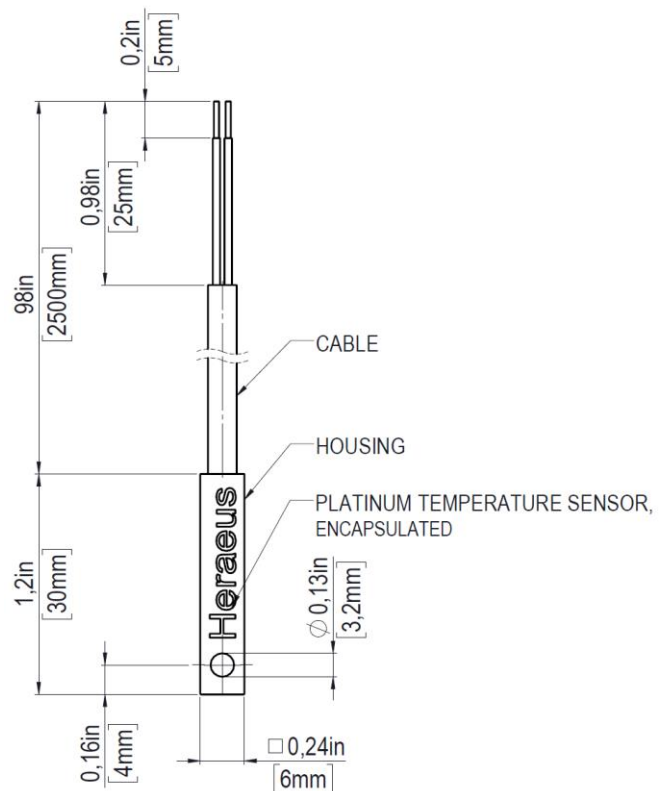


The information provided in this data sheet describes certain technical characteristics of the product, but shall not be qualified or construed as quality guarantee (Beschaffenheitsgarantie) in the meaning of sections 443 and 444 German Civil Code. The information provided in this data sheet regarding 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](http://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](http://www.heraeus-nexensos.com)

Status: 06/2020



### 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, cobalt and carbon black, which are known to the State of California to cause cancer. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

