

1 Pt100 KN 1508 P

The KN Series Ceramic Wire Wound PRTDs are suitable for general applications requiring temperature stability.

Applications: Industrial resistance thermometers, especially in chemical, power generation plants and analytical equipment.

Construction: A platinum coil is sealed inside a high purity aluminum oxide ceramic body. Lead wires are shear force resistant and assure proper connection to extension leads and cables.



| Types | | | | | | | | | | | |
|------------------|-----------|------------|------------------|---------|-----------|----------|--------------|------------------|-----------|-------------|-----|
| Product | Tolerance | Order No. | Dimensions in mm | | | | Self Heating | Response time | | | |
| | | | L | D | d | l | | Water: V= 0.4m/s | | Air: V=3m/s | |
| | | | | | | | $t_{0.5}$ | $t_{0.9}$ | $t_{0.5}$ | $t_{0.9}$ | |
| 1Pt100 KN 1508 P | W0.3 | 32.206.968 | 15^{+2}_0 | 0.8±0.1 | 0.15±0.01 | 10.0±0.5 | 0.14 | 0.2 | 0.3 | 3.0 | 9.0 |
| | W0.15 | 32.206.969 | | | | | | | | | |
| | W0.1 | 32.206.970 | | | | | | | | | |

Technical Specification

| | | | |
|--|---|-------------------------------|---|
| Nominal resistance: | 100 Ohm @ 0 °C | Measuring current: | 1 mA |
| Temperature range: | W0.3 (Class B) = -196 to +660 °C W0.15 (Class A) = -196 to +600 °C* (ST exceeds IEC 60751: -100 to +450 °C) W0.1 (Class 1/3 B) = -100 to +350 °C *For a limited time: 250 hours | Tolerance class: | - According to IEC 60751:2008 - Other standards and narrower tolerances are available on request |
| Temperature coefficient: | Tc = 3850 ppm/K | Temperature stability: | Excellent long-term stability |
| Leads: | Platinum-gold alloy | Also available: | - Different temperature coefficients (3916 ppm/K - old JIS) - Extension leads |
| Insulation resistance after assembly: | > 100 MOhm @ 25 °C | | |

The measuring point is located at 8 mm from the end of the sensor body

Sensor Technology reserves the right to make changes without notice in the specifications of this product

Heraeus Sensor Technology USA

1901 Route 130
North Brunswick, NJ 08902
Phone 732-940-4400 Fax 732-940-4445
Email info.hst-us@heraeus.com
www.hst-us.com