

Platinum Resistance Temperature Detector 1P100 KN 2510 E

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

Applications: in industrial resistance thermometers, especially 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.



| Data Sheet | | | | | | | | | | | |
|----------------|------------------------|------------|--------------------------------|----------|-----------|----------|----------------------------|---------------------------|------------------|----------------------|-----|
| Description | | Order No. | Dimensions mm | | | | Self Heating 0°C (K/mW) | Response time | | | |
| Type | Tolerance IEC 60751 | | L | D | d | l | | Water current V=0.4m/s | | Air stream V=3m/s | |
| | | | | | | | t _{0.5} | t _{0.9} | t _{0.5} | t _{0.9} | |
| 1Pt100 KN 2510 | Class B | 32.206.916 | 25 ⁺² ₋₀ | 1.0±0.15 | 0.20±0.01 | 10.0±0.5 | 0.07 | 0.2 | 0.4 | 3.0 | 8.8 |
| | Class A | 32.206.917 | | | | | | | | | |
| | Class 1/3 B | 32.206.918 | | | | | | | | | |

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

Nominal resistance: 100 Ohm @ 0 °C

Temperature range: Class B = -200 °C to + 600 °C
Class A = -200 °C to + 600 °C
Class 1/3 B = -50 °C to + 300 °C

Temperature coefficient: Tc = 3916 ppm/K

Leads: Palladium-gold alloy

Insulation resistance: > 100 M Ohm @ 20 °C;
> 2 M Ohm @ 500 °C

Measuring current: 1 mA

Vibration resistance: Limited resistance against vibration and shock.

Tolerance class: - According to IEC 60751.
- Other standards and tolerances are available on request.

Temperature stability: Extremely long-term stability.

Also available: - Platinum-gold alloy;
- Different temperature coefficients (3850 ppm/K - IEC 60751)
- Extension leads.

DWM & Associates, Inc.

1901 Route 130
North Brunswick, NJ 08902
Phone 732-940-4400 Fax 732-940-4445
Email sales@dwmai.com
www.dwmai.com
U.S. & Canadian distributor for Heraeus Sensor Technology