

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 | I | | Water: V= 0.4m/s t _{0.5} t _{0.9} | Air: V=3m/s 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

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