

1 Pt100 KN 1510 E

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.



Models

| Description | Tolerance IEC 60751 | Order No. | Dimensions mm | | | | Self Heating 0°C (K/mW) | Response time | | | |
|------------------|------------------------|------------|--------------------------------|----------|-----------|----------|----------------------------|---------------------------|------------------|----------------------|-----|
| | | | 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 1510 E | W0.3 | 32.206.681 | 15 ⁺² ₋₀ | 1.0±0.15 | 0.20±0.01 | 10.0±0.5 | 0.14 | 0.2 | 0.3 | 3.0 | 9.0 |
| | W0.15 | 32.206.682 | | | | | | | | | |
| | W0.1 | 32.206.683 | | | | | | | | | |

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 W0.1 (Class 1/3 B) = -100 to +350 °C | Tolerance class: | - According to old JIS - Other standards and narrower tolerances are available on request |
| Temperature coefficient: | Tc = 3916 ppm/K | Temperature stability: | Excellent long-term stability |
| Leads: | Palladium-gold alloy | Also available: | - Platinum-gold alloy - Different temperature coefficients (3850 ppm/K - IEC 60751:2008) - Extension leads - Two separated coils can be embedded in one ceramic body |
| Insulation resistance after assembly: | > 100 MOhm @ 25 °C | | |

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

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