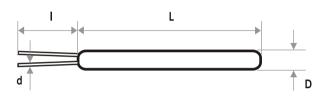
Heraeus

1 Pt100 KN 0815

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.



| 1 | Models | | | | | | | | | | | |
|---|----------------|------------------------|--|------------------|----------|-----------|----------------------------|------|------------------|------------------|------------------------------|------------------|
| | Description | Tolerance IEC 60751 | Order No. | Dimensions mm | | | Self Heating O°C (K/mW) | | | Air s | time Air stream V=3m/s | |
| | | | | L | D | d | 1 | | t _{0.5} | t _{0.9} | t _{0.5} | t _{0.9} |
| | 1Pt100 KN 0815 | W0.3 W0.15 W0.1 | 32.206.463 32.206.464 32.206.465 | 8-2 | 1.5±0.15 | 0.20±0.01 | 10.0±0.5 | 0.28 | 0.2 | 0.5 | 6.7 | 21.8 |

| Technical Specification | | | | | | |
|--------------------------|--|------------------------|--|--|--|--|
| Nominal resistance: | 100 Ohm @ 0 °C | Measuring current: | 1 mA | | | |
| Temperature range: | W0.3 (Class B) = -196 to +660 °C | Tolerance class: | - According to IEC 60751:2008 - Other standards and narrower | | | |
| | W0.15 (Class A) = -196 to +600 °C (Heraeus exceeds IEC 60751: -100 to +450 °C) | | tolerances are available on request | | | |
| | W0.1 (Class 1/3 B) = -100 to +350 °C | Temperature stability: | Excellent long-term stability | | | |
| Temperature coefficient: | Tc = 3850 ppm/K | Also available: | - Platinum-gold alloy - Different temperature coefficients (3916 ppm/K - old JIS) | | | |
| Leads: | Palladium-gold alloy | | Extension leads Two separated coils can be embedded in one ceramic body | | | |
| Insulation resistance | 100 MOL | | | | | |

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

> 100 MOhm @ 25 °C

after assembly:

Heraeus Sensor Technology USA

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