

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.



Models

| Description | Tolerance IEC 60751 | Order No. | Dimensions mm | | | | Self Heating °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 0815 | W0.3 | 32.206.463 | 8 ⁺² ₋₀ | 1.5±0.15 | 0.20±0.01 | 10.0±0.5 | 0.28 | 0.2 | 0.5 | 6.7 | 21.8 |
| | W0.15 | 32.206.464 | | | | | | | | | |
| | W0.1 | 32.206.465 | | | | | | | | | |

Technical Specification

Nominal resistance: 100 Ohm @ 0 °C

Temperature range: W0.3 (Class B) = -196 to +660 °C

W0.15 (Class A) = -196 to +600 °C
(Heraeus exceeds IEC 60751: -100 to +450 °C)

W0.1 (Class 1/3 B) = -100 to +350 °C

Temperature coefficient: Tc = 3850 ppm/K

Leads: Palladium-gold alloy

Insulation resistance after assembly: > 100 MOhm @ 25 °C

Measuring current: 1 mA

Tolerance class:
- According to IEC 60751:2008
- Other standards and narrower tolerances are available on request

Temperature stability: Excellent long-term stability

Also available:
- Platinum-gold alloy
- Different temperature coefficients (3916 ppm/K - old JIS)
- Extension leads
- Two separated coils can be embedded in one ceramic body

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

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