

2 Pt100 KN 1017

The KN Series Ceramic Wire Wound PRTDs are suitable for general applications requiring temperature stability. The dual sensor can be used in redundancy systems.

Applications: Industrial resistance thermometers, especially in chemical, power generation plants and analytical equipment.

Construction: Two separate platinum coils are embedded and 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 ₁ | l ₂ | | Water current V=0.4m/s | | Air stream V=3m/s | | | |
| | | | | | | | | t _{0.5} | t _{0.9} | t _{0.5} | t _{0.9} | | | |
| 2Pt100 KN 1017 | W0.3 | 32.206.182 | 10 ⁺² ₋₀ | 1.7±0.15 | 0.20±0.01 | 11.0±0.5 | 10.0±0.5 | | | | | | | To be released soon |
| | W0.15 | 32.206.183 | | | | | | | | | | | | |

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 (Heraeus exceeds IEC 60751: -100 to +450 °C) | 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: | Palladium-gold alloy | Also available: | - Platinum-gold alloy - 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

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