

2 Pt100 KN 3045 P

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 3045 P | W0.3 | 32.206.086 | 30^{+3}_0 | 4.5±0.15 | 0.27±0.01 | 11.0±0.5 | 10.0±0.5 | 0.01 | 0.4 | 1.4 | 26.8 | 83.7 |
| | W0.15 | 32.206.535 | | | | | | | | | | |
| | W0.1 | 32.206.087 | | | | | | | | | | |

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) = -100 to +350 °C

Temperature coefficient: Tc = 3850 ppm/K

Leads: Platinum-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: - Palladium-gold alloy
- Different temperature coefficients (3916 ppm/K - old JIS)
- Extension leads

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

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