

1Pt100 KN1510 E, Ceramic Wire Wound Pt RTD according to old JIS

Temperature range -196 °C to +660 °C

- High stability
- Standard tolerance classes available over wide operating temperature ranges
- Pt100 standard resistance; other values available
- Wide operating temperature range: -196 to +660 °C

The KN Series Ceramic Wire Wound Pt RTDs are suitable for general applications requiring temperature stability, and high accuracy over very wide operating temperature ranges. Typical application areas are, Energy & Power generation, Oil & Gas and PetroChemistry and special industrial applications.

Nominal Resistance R_0 [Ω]	Tolerance Class	Order Number	Packaging
Pt100	W0.1 (Class 1/3 B)	32206683	Slide Blister
	W0.15 (Class A)	32206682	Slide Blister
	W0.3 (Class B)	32206681	Slide Blister

The measuring point for the nominal resistance is 8 mm from the end of the sensor body.

Temperature Range of Tolerance Class

Tolerance Class W0.1 (1/3 B)	-100 °C to +350 °C
Tolerance Class W0.15 (A)	-100 °C to +450 °C
Tolerance Class W0.3 (B)	-196 °C to +660 °C

Temperature Coefficient

TCR = 3916 ppm/K

Response Time

Water (v = 0.4 m/s):	t0.5 = 0.2 s
	t0.9 = 0.3 s
Air (v = 0.3 m/s):	t0.5 = 3 s
	t0.9 = 9 s

Measuring Current

1 mA

Long-Term Stability

Excellent long-term stability

Self-Heating

0.14 K/mW at 0 °C

Dimensions and Tolerances in mm

L: 15 +2 -0
D: 1.0 ±0.15
LL: 10.0 ±0.5
LØ: 0.20 ±0.01

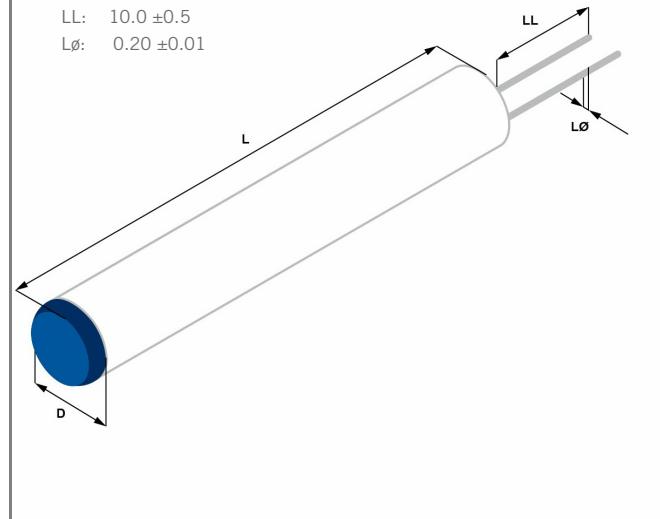


Image for illustration purposes only
Color, shape and forming of fixation drop may vary

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Insulation Resistance After Assembly

Housed sensors achieve typically values $>3\text{ G}\Omega$ (at room temperature)

Lead Type

Palladium-gold alloy

Note

Available on request:

- Other standards and narrower tolerances
- Platinum-gold alloy
- Different temperature coefficients (3850 ppm/K - IEC 60751: 2008)
- Extension leads

These ceramic wire wound products are manufactured for Heraeus Nexensos by Sensor Technology Ltda.

California Proposition 65



WARNING

WARNING: This product can expose you to chemicals including lead oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm, and including cobalt oxide and cadmium and/or cadmium compounds, which is known to the State of California to cause cancer.

For more information go to www.p65warnings.ca.gov



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The information provided in this data sheet regarding measurement values (including, but not limited to, response time, long-term stability, vibration and shock resistance, insulation resistance and self-heating) are average values that have been obtained under laboratory conditions in tests of large numbers of the product. Product results or measurements achieved by customer or any other person in any production, test, or other environment may vary depending on the specific conditions of use. The customer is solely responsible to determine whether the product is suited for customer's intended use; in this respect Heraeus cannot assume any liability. The sale of any products of Heraeus is exclusively subject to the Terms and Conditions of Sale of Heraeus in their current version at the time of purchase, which is available under www.heraeus.com/gtc or may be furnished upon request. This data sheet is subject to changes without prior notice.

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