1 Pt100 KN 1008 P

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.

Types

Product	Tolerance	Order No.	Dimensions in mm L	D	d	l	Self Heating	Response time Water: V= 0.4m/s $t_{0.5}$	$t_{0.9}$	Air: V=3m/s $t_{0.5}$	$t_{0.9}$
1Pt100 KN 1008 P	W0.3 W0.15 W0.1	32.206.971 32.206.972 32.206.973	10^{+2}_{-0}	0.8±0.1	0.15±0.01	10.0±0.5		To be released soon			

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*
(ST exceeds IEC 60751: -100 to +450 °C)

W0.1 (Class 1/3 B) = -100 to +350 °C

*For a limited time: 250 hours

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:
- 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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