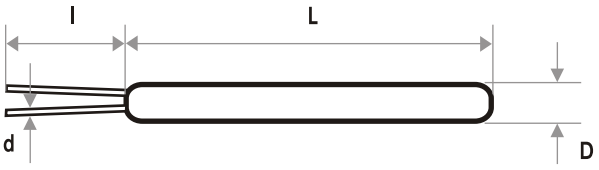
1 Pt100 KN 1515

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 0°C (K/mW)	Response time Water current V=0.4m/s		Response time Air stream V=3m/s	
			L	D	d	l		$t_{0.5}$	$t_{0.9}$	$t_{0.5}$	$t_{0.9}$
1Pt100 KN 1515	W0.3 W0.15 W0.1 W0.03	32.206.455 32.206.456 32.206.457 32.206.112	15^{+2}_{-0}	1.5±0.15	0.20±0.01	10.0±0.5	0.08	0.2	0.4	5.0	15.7
1Pt100 KN 1515 G	W0.3 W0.15 W0.1	32.206.901 32.206.902 32.206.903	15^{+2}_{-0}	1.5±0.15	0.27±0.01	10.0±0.5	0.08	0.2	0.4	5.0	15.7

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

W0.03 (Class 1/10 B) = -50 to +300 °C
(Special HST Class proportional to W0.3)

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

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