

1 Pt100 KN 2515

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			
			L	D	d	l		Water current V=0.4m/s		Air stream V=3m/s	
							t _{0.5}	t _{0.9}	t _{0.5}	t _{0.9}	
1Pt100 KN 2515	W0.3	32.206.370	25 ⁺² ₋₀	1.5±0.15	0.20±0.01	10.0±0.5	0.07	0.2	0.4	5.3	16.0
	W0.15	32.206.372									
	W0.1	32.206.374									
	W0.03	32.206.099									

Technical Specification

<p>Nominal resistance: 100 Ohm @ 0 °C</p> <p>Temperature range: W0.3 (Class B) = -196 to +660 °C W0.15 (Class A) = -196 to +600 °C <small>(Heraeus exceeds IEC 60751: -100 to +450 °C)</small> W0.1 (Class 1/3 B) = -100 to +350 °C W0.03 (Class 1/10 B) = -50 to +300 °C <small>(Special HST Class proportional to W0.3)</small></p> <p>Temperature coefficient: Tc = 3850 ppm/K</p> <p>Leads: Palladium-gold alloy</p>	<p>Insulation resistance after assembly: > 100 MOhm @ 25 °C</p> <p>Measuring current: 1 mA</p> <p>Tolerance class: - According to IEC 60751:2008 - Other standards and narrower tolerances are available on request</p> <p>Temperature stability: Excellent long-term stability</p> <p>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</p>
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The measuring point is located at 8 mm from the end of the sensor body

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