

1 Pt100 KN 1510 E

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	
1Pt100 KN 1510 E	W0.3	32.206.681	15 ⁺² ₋₀	1.0±0.15	0.20±0.01	10.0±0.5	0.14	t _{0.5}	t _{0.9}	t _{0.5}	t _{0.9}
	W0.15	32.206.682						0.2	0.3	3.0	9.0
	W0.1	32.206.683									

Technical Specification

Nominal resistance:	100 Ohm @ 0 °C	Measuring current:	1 mA
Temperature range:	W0.3 (Class B) = -196 to +660 °C W0.15 (Class A) = -196 to +600 °C W0.1 (Class 1/3 B) = -100 to +350 °C	Tolerance class:	- According to old JIS - Other standards and narrower tolerances are available on request
Temperature coefficient:	Tc = 3916 ppm/K	Temperature stability:	Excellent long-term stability
Leads:	Palladium-gold alloy	Also available:	- Platinum-gold alloy - Different temperature coefficients (3850 ppm/K - IEC 60751:2008) - Extension leads - Two separated coils can be embedded in one ceramic body
Insulation resistance after assembly:	> 100 MOhm @ 25 °C		

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

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