

2 Pt100 KN 3045

The KN Series Ceramic Wire Wound PRTDs are suitable for general applications requiring temperature stability. The dual sensor can be used in redundancy systems.

Applications: Industrial resistance thermometers, especially in chemical, power generation plants and analytical equipment.

Construction: Two separate platinum coils are embedded and 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 ₁	l ₂		Water current V=0.4m/s		Air stream V=3m/s	
									t _{0.5}	t _{0.9}	t _{0.5}	t _{0.9}
2Pt100 KN 3045	W0.3	32.206.630	30 ⁺³ ₋₀	4.5±0.15	0.27±0.01	11.0±0.5	10.0±0.5	0.01	0.4	1.4	26.8	83.7
	W0.15	32.206.651										
	W0.1	32.206.653										

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 (Heraeus exceeds IEC 60751: -100 to +450 °C) W0.1 (Class 1/3) = -100 to +350 °C	Tolerance class:	- According to IEC 60751:2008 - Other standards and narrower tolerances are available on request
Temperature coefficient:	Tc = 3850 ppm/K	Temperature stability:	Excellent long-term stability
Leads:	Palladium-gold alloy	Also available:	- Platinum-gold alloy - Different temperature coefficients (3916 ppm/K - old JIS) - Extension leads
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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