

## Platinum Resistance Temperature Detector 1P100 KN 2510

The KN Series Ceramic Wire Wound PRTDs is suitable for general applications requiring temperature stability.

Applications: in industrial resistance thermometers, especially 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.



### Data Sheet

Type	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 <sub>0.5</sub>	t <sub>0.9</sub>	t <sub>0.5</sub>	t <sub>0.9</sub>	
1Pt100 KN 2510	Class B Class A Class 1/3 B Class 1/10 B	32.206.362 32.206.365 32.206.368 32.206.044	25 <sup>+2</sup> <sub>-0</sub>	1.0±0.15	0.20±0.01	10.0±0.5	0.07	0.2	0.4	3.0	8.8

**Nominal resistance:** 100 Ohm @ 0 °C

**Temperature range:** Class B = -200 °C to + 600 °C  
Class A = -200 °C to + 600 °C  
Class 1/3 B = -50 °C to + 300 °C  
Class 1/10 B = -50 °C to +300 °C

**Temperature coefficient:** Tc = 3850 ppm/K

**Leads:** Palladium-gold alloy

**Insulation resistance:** > 100 M Ohm @ 20 °C;  
> 2 M Ohm @ 500 °C

**Measuring current:** 1 mA

**Vibration resistance:** Limited resistance against vibration and shock.

**Tolerance class:** - According to IEC 60751.  
- Other standards and tolerances are available on request.

**Temperature stability:** Extremely long-term stability.

**Also available:** - Platinum-gold alloy;  
- Different temperature coefficients (3916 ppm/K - JIS C1604:1997)  
- Extension leads.

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