

## 1 Pt100 KN 1508 P

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.



Types											
Product	Tolerance	Order No.	Dimensions in mm				Self Heating	Response time			
			L	D	d	I		Water: V= 0.4m/s t <sub>0.5</sub>	Air: V=3m/s t <sub>0.5</sub>	t <sub>0.9</sub>	t <sub>0.9</sub>
1Pt100 KN 1508 P	W0.3 W0.15 W0.1	32.206.968 32.206.969 32.206.970	15 <sup>+2</sup> <sub>0</sub>	0.8±0.1	0.15±0.01	10.0±0.5	0.14	0.2	0.3	3.0	9.0

### 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* (ST exceeds IEC 60751: -100 to +450 °C)  W0.1 (Class 1/3 B) = -100 to +350 °C	Tolerance class:	- According to IEC 60751:2008 - Other standards and narrower tolerances are available on request
	*For a limited time: 250 hours	Temperature stability:	Excellent long-term stability
Temperature coefficient:	Tc = 3850 ppm/K	Also available:	- Different temperature coefficients (3916 ppm/K - old JIS) - Extension leads
Leads:	Platinum-gold alloy		
Insulation resistance after assembly:	> 100 MΩ @ 25 °C		

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

Sensor Technology reserves the right to make changes without notice in the specifications of this product

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