## Heraeus

## 1 Pt100 KN 1008

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)	Water c	Response time 'ater current Air str V=0.4m/s V=3r		tream		
			L	D	d	1		t <sub>0.5</sub>	t <sub>0.9</sub>	t <sub>0.5</sub>	t <sub>0.9</sub>		
1Pt100 KN 1008	W0.3 W0.15 W0.1	32.206.219 32.206.220 32.206.221	10-2	0.8±0.1	0.15±0.01	10.0±0.5		To be released soon					

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Nominal resistance: 100 Ohm @ 0 °C

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 B) = -100 to +350 °C

**Temperature** coefficient:

Tc = 3850 ppm/K

Leads: Palladium-gold alloy

Insulation resistance

after assembly:

> 100 MOhm @ 25 °C

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

Measuring current: 1 mA

Tolerance class: - According to IEC 60751:2008

- Other standards and narrower tolerances are available on request

Temperature stability: Excellent long-term stability

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

## **Heraeus Sensor Technology USA**

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