

## 1 Pt100 KN 1515

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	
							t <sub>0.5</sub>	t <sub>0.9</sub>	t <sub>0.5</sub>	t <sub>0.9</sub>	
1Pt100 KN 1515	W0.3	32.206.455	15 <sup>+2</sup> <sub>0</sub>	1.5±0.15	0.20±0.01	10.0±0.5	0.08	0.2	0.4	5.0	15.7
	W0.15	32.206.456									
	W0.1	32.206.457									
	W0.03	32.206.112									
1Pt100 KN 1515 G	W0.3	32.206.901	15 <sup>+2</sup> <sub>0</sub>	1.5±0.15	0.27±0.01	10.0±0.5	0.08	0.2	0.4	5.0	15.7
	W0.15	32.206.902									
	W0.1	32.206.903									

### Technical Specification

**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

W0.03 (Class 1/10 B) = -50 to +300 °C  
(Special HST Class proportional to W0.3)

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

**Leads:** Palladium-gold alloy

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

**Insulation resistance after assembly:** > 100 MOhm @ 25 °C

**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

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