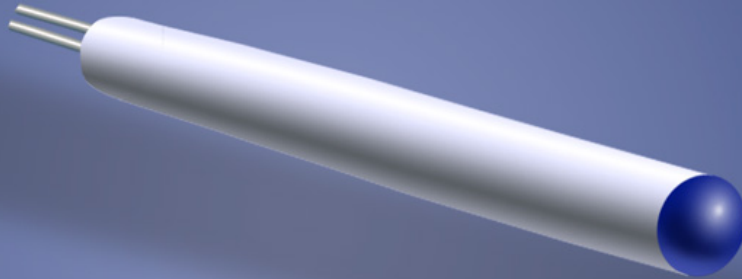


KC (PtCo) RTD Temperature Sensor



Platinum cobalt resistance temperature sensors are specifically designed for cryogenic applications. The PtCo100 element has higher sensitivity at cryogenic temperatures compared to a standard Pt100, resulting in higher resolution at extremely cold temperatures. Low hysteresis is accomplished via a highly engineered sensor coil configuration, designed to securely support the sensing wire while minimizing thermal expansion measurement errors.

The standard resistance value is 100 ohms nominal at 0 °C, with a temperature coefficient of 3376 ppm. Other resistance values are available upon request, subject to minimum order requirements. The PtCo temperature sensor is suitable for an operating temperature range of (-270 to +200 °C).

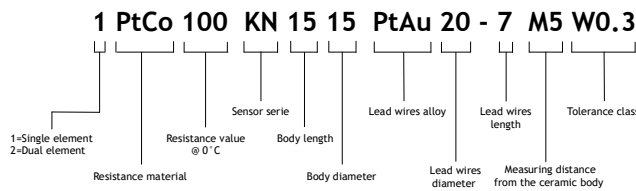
KC (PtCo) RTD Temperature Sensor



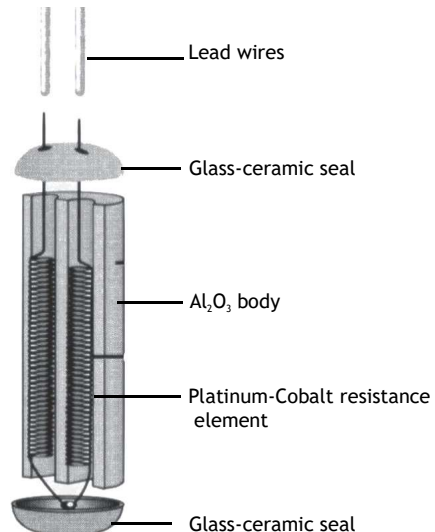
Product description		Dimensions in mm			
		L	D	d	l
1PtCo100 KN1515 PTAU20-7 M5W0.3	32.206.006	15 ±0.2	1.5 ±0.15	0.20 ±0.01	7.0 ±0.5
1PtCo100 KN1515 PTAU20-7 M5W0.15	32.206.008				

Technical Specification

Description meaning:



- Temperature range:** -270 °C to +200 °C
- Temperature coefficient:** Tc = 3376.3 ppm/K
- Leads:** Platinum-gold alloy
- Length Leads:** 7.0 mm ±0.5 mm
- Insulation resistance after assembly:** > 100 MOhm @ 25 °C
- Measuring Current:** 1 mA
- Tolerance:** W0.3 at 0 °C
W0.15 at 0 °C
- Temperature stability:** Excellent long-term stability
- Also available:**
 - Palladium-gold alloy
 - Extension leads
 - Narrower tolerances
 - Other nominal resistances



The measuring point is located 2 mm from the end of the lead wire

Sensor Technology Ltda. reserves the right to change these specification without prior notice.

Ver. 1 - xx/2024