

# Sensor Technology

## KG Series



### KG Series Ceramic Wire Wound PRTD

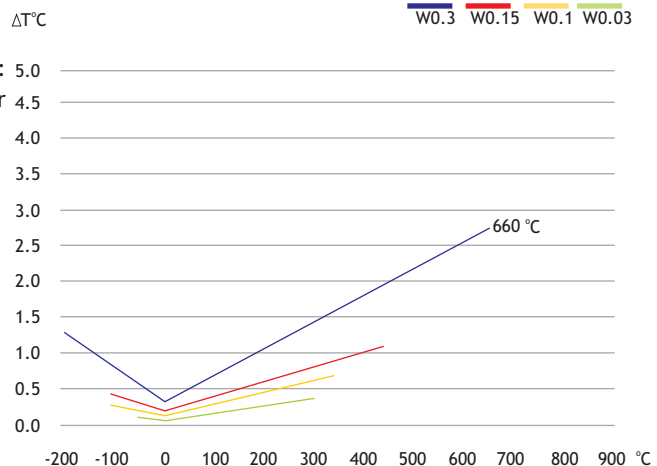
The KG Series Ceramic Wire Wound PRTDs are suitable for general applications requiring temperature stability.

Main applications requiring temperature stability: 5.0 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. An interesting feature of this type of tight construction, they can be directly exposed to moisture and acidic or alkaline liquid elements, without suffering damage.

On demand: In addition to the standard products, we are also producing on demand products. In order to offer the best solution to the market, we are able to design element sensors considering different diameters, lengths, classes and coefficients.

Class tolerance chart



## KG Series specifications 1 Pt Types ( Single element)



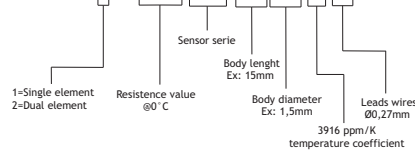
1Pt Types													
Product					Dimensions in mm				Self Heating	Response time			
Description	Tolerance Class	Class	Temperature range (°C)	Order No.	L	D	d	l	0°C (K/mW)	Water: V= 0.4m/s		Air: V= 3m/s	
										t <sub>0.5</sub>	t <sub>0.9</sub>	t <sub>0.5</sub>	t <sub>0.9</sub>
1Pt100 KG 1515	W0.3	B	-196 ~+550	32.206.961	15 <sup>+3</sup> <sub>0</sub>	1.9±0.3	0.20±0.01	7.5±0.5	0.08	0.2	0.4	5.0	15.7
	W0.15	A	-100 ~+450	32.206.962				7.5±0.5					
	W0.1	1/3	-100 ~+350	32.206.963				7.5±0.5					

The measuring point is located at 6 mm from the end of the sensor body.

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

## Technical Specification

**Description meaning:** Ex: 1Pt100 KG 1515 E G



**Temperature range:**

W0.3 (Class B)	= -196 °C to +600 °C
W0.15 (Class A)	= -100 °C to +450 °C
W0.1 (Class 1/3 B)	= -100 °C to +350 °C

**Glass coat cover:** Thickness 0.35mm max.

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

**Leads:** Palladium gold alloy

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

**Measuring current:** 1 mA

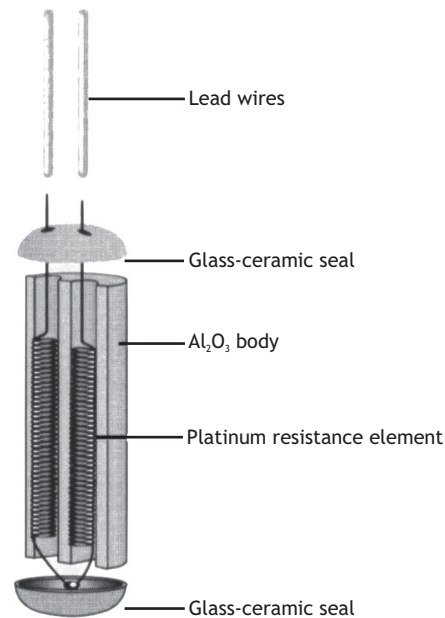
**Tolerance class:**

- According to IEC 60751:2008
- Other standards, narrower tolerances and other nominal resistances are available on request

**Temperature stability:** Excellent long-term stability

**Also available:**

- Platinum-gold alloy
- Different temperature coefficients
- On demand. (3916 ppm/K - old JIS)
- Extension leads



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