



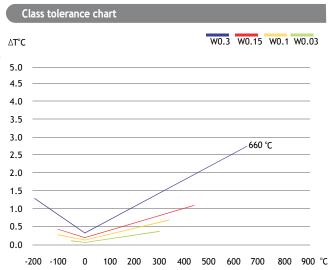
## KG Series Ceramic Wire Wound PRTD

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

Main applications requiring temperature stability:  $\Delta T^{\circ}C$  Industrial resistance thermometers, especialy chemical, power generation plants, and analytical equipment.

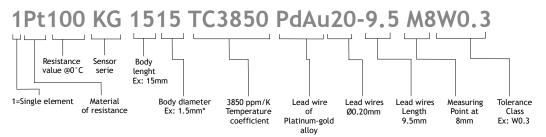
Construction: A platinum coil is sealed inside a high purity aluminum oxide ceramic body, with a thin glass coat applied throughout its entirety, ensuring a smooth finish and insulation against compounds that may harm the sensor. Lead wires are shear force resistant and assure proper connection to extension leads and cables. An interesting feature of this type of tight construction is that 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.

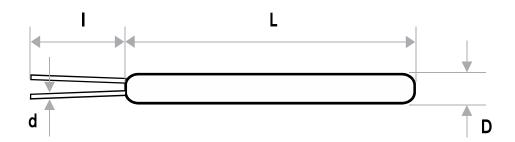




# KG Series specifications 1 Pt Types (Single element)



<sup>\*</sup> Diameter of sensor body without glass coat. For diameter with coat see table below



1Pt Types													
Product					Dimensions in mm			Self Heating	Response time			ime	
Description	Tolerance Class	Class	Temperature range (°C)	Order No.	L	D	d	l	0°C (K/mW)		ter: .4m/s <b>t</b> <sub>0.9</sub>	V= 3	ir: 3m/s <b>t</b> <sub>0.9</sub>
1Pt100 KG 1515	W0.3 W0.15 W0.1	B A 1/3	-196 ~+600 -100 ~+450 -100 ~+350	32.206.961 32.206.962 32.206.963	15 0	1.9±0.3	0.20±0.01	9.5±0.5 9.5±0.5 9.5±0.5		0.2	0.4	5.0	15.7

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

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



Class Ex: W0.3

# **Technical Specification**

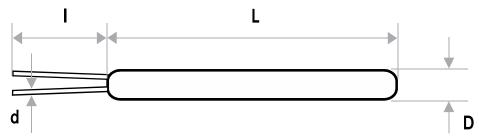
of resistance

### **Description meaning:**

#### 1515 TC3850 PdAu20-9.5 M8W0.3 Body value @0°C lenght Ex: 15mm serie Body diameter Ex: 1.5mm\* 3850 ppm/K Temperature Measuring Point at 1=Single element Material Lead wire Lead wires Lead wires Tolerance

coefficient

 $^{\star}$  Diameter of sensor body without glass coat. For diameter with coat see table on page 2.



Platinum-gold alloy

Ø0.20mm

Length

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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