

# 1 Pt100 K 1515, Ceramic Wire Wound PRTD

## Temperature range -196 °C to +850 °C

The K Series Ceramic Wire Wound PRTDs are suitable for resistance thermometers requiring extremely temperature stability over 800°C and high temperature shock resistance.

Applications: Chemical and power generation plants, analytical equipment and for applications requiring extremely high temperature stability as well as high temperature shock resistance.

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.

Nominal Resistance R0	Tolerance	Order number
100 Ohm @ 0 °C	W0.3	32206280
	W0.15	32206281
	W0.1	32206282

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

### Nominal Resistance

100 Ohm @ 0 °C

### Temperature coefficient

TCR = 3850 ppm/K

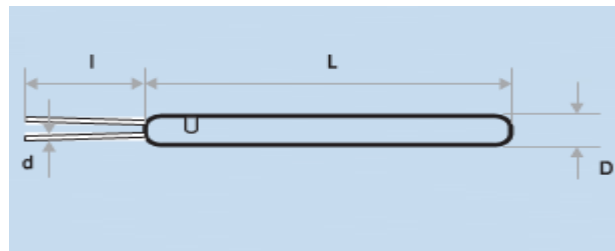
### Temperature Range

W0.3 (Class B) = -196°C to +850°C

(ST exceeds IEC 60751: -196°C to +660°C)

W0.15 (Class A) = -100°C to +450°C

W0.1 (Class 1/3 B) = -100°C to +350°C



### Response time

Water current (v= 0.4m/s):  
 $t_{0.5} = 0.2 \text{ s}$   
 $t_{0.9} = 0.4 \text{ s}$

Air stream (v= 3m/s):  
 $t_{0.5} = 5.0 \text{ s}$   
 $t_{0.9} = 15.7 \text{ s}$

### Self Heating

0.08 K/mW at 0°C

### Dimensions in mm

$L = 15_{-0}^{+2}$   $D = 1.5 \pm 0.15$   $d = 0.20 \pm 0.01$   $I = 10.0 \pm 0.5$



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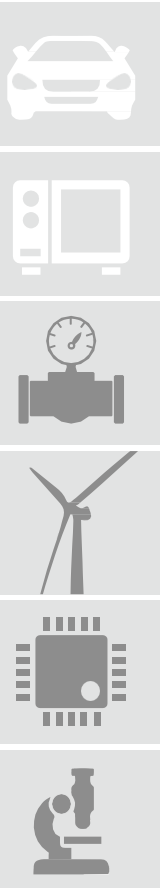
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Web: [www.heraeus-nexensos.com](http://www.heraeus-nexensos.com)

Status: 04/2019



# 1 Pt100 K 1515, Ceramic Wire Wound PRTD

Temperature range -196 °C to +850 °C

## Measuring current

1mA

## Tolerance Class

According to IEC 60751:2008

Other standards and narrower tolerances are available on request

## Temperature Stability

Excellent long-term stability

## Also available

Different temperature coefficients (3916 ppm/K - old JIS)

Extension leads

Two separated coils can be embedded in one ceramic body

## Leads

Platinum-gold alloy

## Insulation resistance after assembly

>100 MOhm @ 25 °C

## California Proposition 65



### WARNING:

This product can expose you to chemicals including lead oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).



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