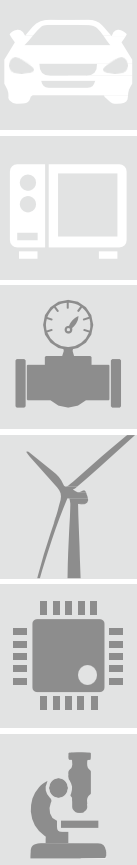


# 1 Pt100 KN 1515 EG, Ceramic Wire Wound PRTD

Temperature range -196 °C to +660 °C



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.

Nominal Resistance R0	Tolerance	Order number
100 Ohm @ 0 °C	W0.3	32206907
	W0.15	32206908
	W0.1	32206909

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

### Nominal Resistance

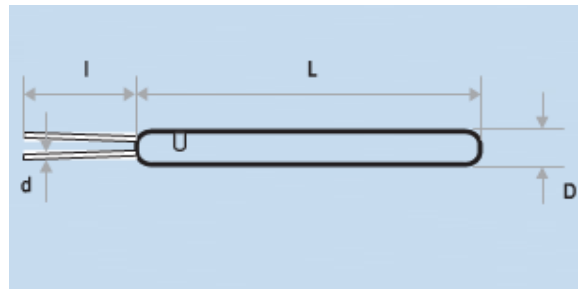
100 Ohm @ 0 °C

### Temperature coefficient

TCR = 3916 ppm/K

### Temperature Range

- W0.3 (Class B) = -196°C to +660°C
- W0.15(Class A) = -100°C to +450°C
- W0.1 (Class 1/3B) = -100°C to +350°C



### Response time

- Water current (v= 0.4m/s):
  - t0.5 = 0.2
  - t0.9 = 0.4
- Air stream (v= 3m/s):
  - t0.5 = 5.0
  - t0.9 = 15.7

### Self Heating

0.08 K/mW at 0°C

### Dimensions in mm

$$L = 15_{-0}^{+2} \quad D = 1.5 \pm 0.15 \quad d = 0.27 \pm 0.01 \quad I = 10.0 \pm 0.5$$



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The information provided in this data sheet regarding measurement values (including, but not limited to, response time, long-term stability, vibration and shock resistance, insulation resistance and self-heating) are average values that have been obtained under laboratory conditions in tests of large numbers of the product. Product results or measurements achieved by customer or any other person in any production, test, or other environment may vary depending on the specific conditions of use.

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

Status: 04/2019

# 1 Pt100 KN 1515 EG, Ceramic Wire Wound PRTD

Temperature range -196 °C to +660 °C

## Measuring current

1mA

## Tolerance Class

According to old JIS

Other standards and narrower tolerances are available on request

## Temperature Stability

Excellent long-term stability

## Also available

Platinum gold alloy

Different temperature coefficients (3850 ppm/K – IEC 60751:2008)

Extension leads

Two separated coils can be embedded in one ceramic body

## Leads

Palladium-gold alloy

## Insulation resistance after assembly

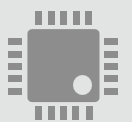
>100 MOhm @ 25 °C

## 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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