

1 Pt100 KN 1515 G, 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 R ₀ | Tolerance | Order number |
|-----------------------------------|-----------|--------------|
| 100 Ohm @ 0 °C | W0.3 | 32206901 |
| | W0.15 | 32206902 |
| | W0.1 | 32206903 |
| | W0.03 | 32206057 |

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

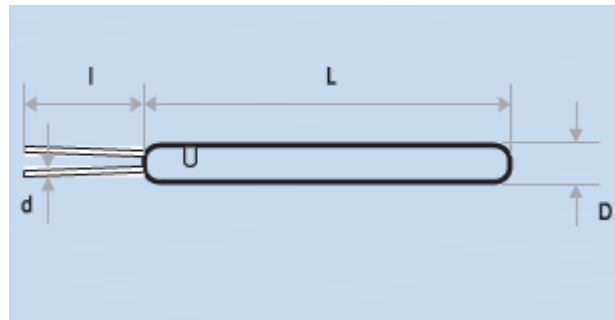
W0.3 (Class B) = -196°C to +660°C

W0.15 (Class A) = -100°C to +450°C

W0.1 (Class 1/3B) = -100°C to +350°C

W0.03 (Class 1/10 B) = -50°C to +300 °C

(Special ST Class proportional to W0.3)



Response time

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

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

Self Heating

0.08 K/mW at 0°C

Dimensions in mm

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



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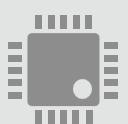
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Web: www.heraeus-nexensos.com

Status: 04/2019



1 Pt100 KN 1515 G, Ceramic Wire Wound PRTD

Temperature range -196 °C to +660 °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

Platinum-gold alloy

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

Extension leads

Two separated coils can be embedded in one ceramic body

Leads

Palladium-gold alloy

Insulation resistance after assembly

>100 MOhm @ 25 °C

Remark

| Class | Working Temperature | Lead Length (l) |
|---------------------|---------------------------|--------------------|
| W0.03 (1/10 DIN) | <=150°C 150°C to 300°C | 10 mm 8 to 9 mm |

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.



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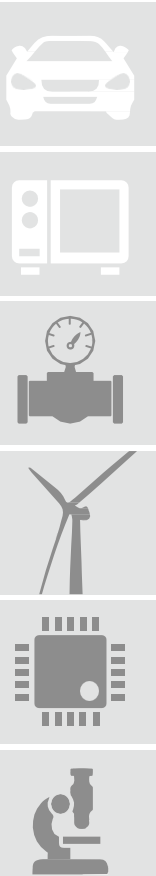
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