

1 Pt100 KN 1510, 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	32206913
	W0.15	32206914
	W0.1	32206915

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

Nominal Resistance

100 Ohm @ 0 °C

Temperature coefficient

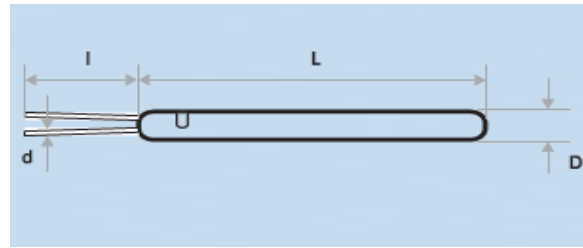
TCR = 3850 ppm/K

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



Response time

Water current (v= 0.4m/s):
 $t_{0.5} = 0.2s$
 $t_{0.9} = 0.3s$

Air stream (v= 3m/s):
 $t_{0.5} = 3.0s$
 $t_{0.9} = 9.0s$

Self Heating

0.14 K/mW at 0°C

Dimensions in mm

$L = 15_{-0}^{+2}$ $D = 1.0 \pm 0.15$ $d = 0.20 \pm 0.01$ $I = 10.0 \pm 0.5$



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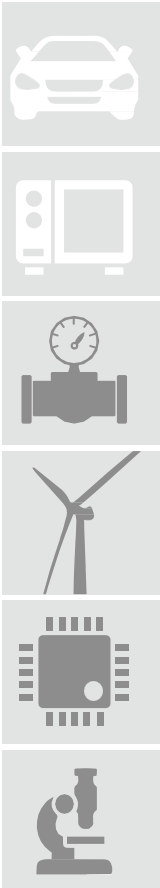
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Heraeus Nexensos USA, a division of Heraeus Epurio LLC, 770 Township Line Road, Suite 300, Yardley, Pennsylvania, USA 19067

Web: www.heraeus-nexensos.com

Status: 04/2019



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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

Leads

Palladium-gold alloy

Insulation resistance after assembly

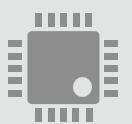
>100 MOhm @ 25 °C

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.



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