

2 Pt100 KN 1517, 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. The dual sensor can be used in redundancy systems.

Applications: Industrial resistance thermometers, especially in chemical, power generation plants and analytical equipment.

Construction: Two separate platinum coils are embedded and 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	32206157
	W0.15	32206158
	W0.1	32206159

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

Nominal Resistance

100 Ohm @ 0 °C

Temperature coefficient

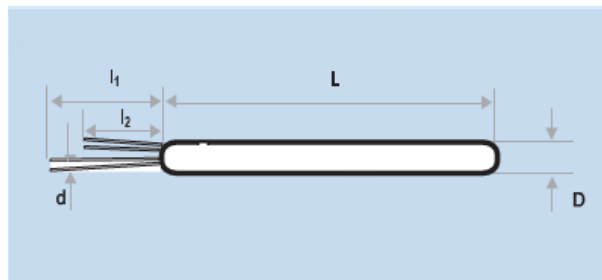
TCR = 3850 ppm/K

Temperature Range

W0.3 (Class B) = -196°C to +660°C

W0.15 (Class A) = -196°C to +600°C
(Heraeus exceeds IEC 60751: -100 to +450°C)

W0.1 (Class 1/3 B) = -100°C to +350°C



Dimensions in mm

$L = 15_{-0}^{+2}$ $D = 1.7 \pm 0.15$ $d = 0.20 \pm 0.01$ $l_1 = 11.0 \pm 0.5$ $l_2 = 10.0 \pm 0.5$

Measuring current

1mA

Tolerance Class

According to IEC 60751:2008

Other standards and narrower tolerances are available on request



The information provided in this data sheet describes certain technical characteristics of the product, but shall not be qualified or construed as quality guarantees whatsoever. Furthermore, the information provided in this data sheet does not constitute a warranty, implied or express, whatsoever, including but not limited to warranties of merchantability, fitness for a particular purpose, or use.

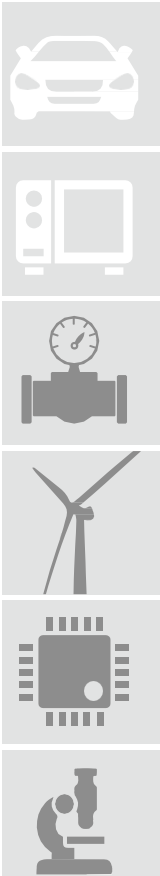
The information provided in this data sheet regarding measurement values (including, but not limited to, response time, long-term stability, vibration and shock resistance, insulation resistance and self-heating) are average values that have been obtained under laboratory conditions in tests of large 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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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: 08/2020



2 Pt100 KN 1517, Ceramic Wire Wound PRTD

Temperature range -196 °C to +660 °C

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

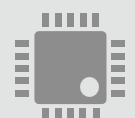
>100 MOhm @ 25 °C

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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