

2 Pt100 K 2517, 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. The dual sensor can be used in redundancy systems and also allow the comparison between two different values in the sensor.

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

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 R ₀	Tolerance	Order number
100 Ohm @ 0 °C	W0.3	32206205
	W0.15	32206150
	W0.1	32206162

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

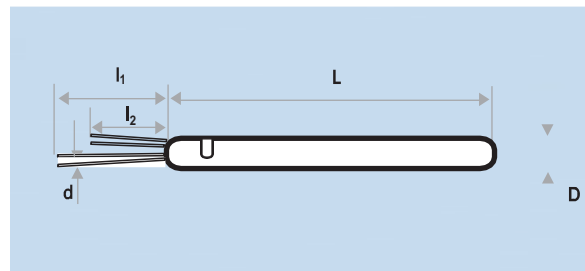
Temperature Range

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 1/3B) = -100°C to +350°C



Response time

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

Air stream (v= 3m/s):
 $t_{0.5} = 6.1s$
 $t_{0.9} = 19.0s$

Self Heating

0.06 K/mW at 0°C

Dimensions in mm

$L = 25_{-0}^{+2}$ $D = 1.7 \pm 0.15$ $d = 0.20 \pm 0.01$ $l_1 = 11.0 \pm 0.5$ $l_2 = 10.0 \pm 0.5$



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.

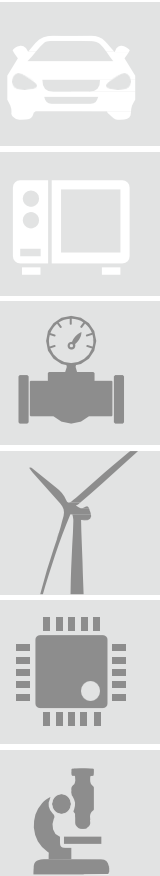
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Web: www.heraeus-nexensos.com

Status: 04/2019



2 Pt100 K 2517, 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

Leads

Platinum -gold alloy

Insulation resistance after assembly

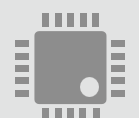
>100 MOhm @ 25 °C

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.



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