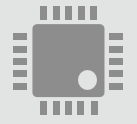


1 Pt100 KN 0815, Ceramic Wire Wound PRTD

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	32206463
	W0.15	32206464
	W0.1	32206465
	W0.03*	32206024
	W0.03	32206432

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

Nominal Resistance

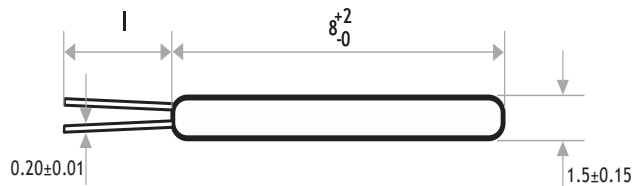
100 Ohm @ 0 °C

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 1/3 B) = -100°C to +350°C
- W0.03 (Class 1/10B) = -50°C to +300°C (lead length 8mm to 9mm)*
- W0.03 (Class 1/10B) = -50°C to +150°C



Response time

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

Air stream (v= 3m/s):
 $t_{0.5} = 6.7s$
 $t_{0.9} = 21.8s$

Self Heating

0.28 K/mW at 0°C

Dimensions in mm

$L = 8_{-0}^{+2}$ $D = 1.5 \pm 0.15$ $d = 0.20 \pm 0.01$ $l = 9.5 \pm 0.5$



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Web: www.heraeus-nexensos.com

Status: 04/2021

1 Pt100 KN 0815, 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 on demand (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

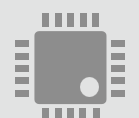
>100 MOhm @ 25 °C

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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