1 Pt100 KN 1515, Ceramic Wire Wound PRTD
Temperature range -196 °C to +660 °C

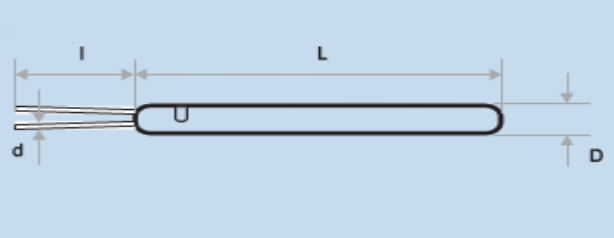
The KN Series Ceramic Wire Wound PRTDs are suitable for general applications requiring temperature stability.

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 RO	Tolerance	Order number
100 Ohm @ 0 °C	W0.3	32206455
	W0.15	32206456
	W0.1	32206457
	W0.06	32206171
	W0.03	32206112

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
W0.06 (Class 1/5 B) = -50°C to +300°C
(Special ST Class proportional to W0.3)
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): t0.5 = 0.2s
t0.9 = 0.4s

Air stream (v= 3m/s): t0.5 = 5.0s
t0.9 = 15.7s

Self Heating
0.08 K/mW at 0^0C

Dimensions in mm
$L = 15^{+2}_{-0}$ D= 1.5±0.15 d=0.20±0.01 l= 10.0±0.5 (See Remark)

RoHS konform

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 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.

Remark

Class	Working Temperature	Lead Length (l)
W0.03 (1/10 B)	<=150°C 150°C to 300°C	10 mm 8 to 9 mm
W0.06 (1/5 B)	<=150°C 150°C to 300°C	10 mm 8 to 9 mm

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