

1 Pt100 KN 1515 G, 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	32206901
	W0.15	32206902
	W0.1	32206903
	W0.03	32206057

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 $+660^{\circ}$ C

 W0.15 (Class A)
 = -100° C to $+450^{\circ}$ C

 W0.1 (Class 1/3B)
 = -100° C to $+350^{\circ}$ C

 W0.03 (Class 1/10 B)
 = -50° C to $+300^{\circ}$ 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	
	t0.9 = 15.7s	

Self Heating

0.08 K/mW at 0°C

Dimensions in mm

$L = 15^{+2}$	D= 1.5±0.15	d=0.27±0.01	l= 10.0±0.5	(See Remark)
0	D= 1.0±0.10	u=0.27±0.01	1= 10.0±0.0	

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$1\ \text{Pt100}\ \text{KN}\ 1515\ \text{G},$ 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 (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 M0hm @ 25 °C

Remark

Class	Working Temperature	Lead Length (I)	
W0.03	<=150°C	10 mm	
(1/10 DIN)	150°C to 300°C	8 to 9 mm	

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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