

Sensor Technology

KN Series

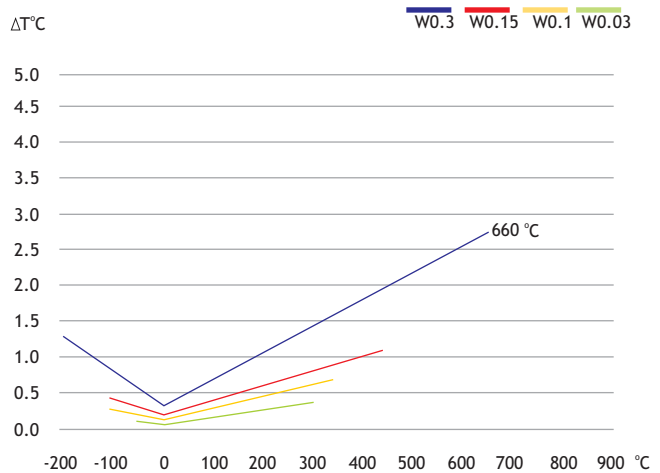


KN Series Ceramic Wire Wound PRTD
 The KN Series Ceramic Wire Wound PRTDs are suitable for general applications requiring temperature stability and accuracy.

Applications: Industrial resistance thermometers, for industrial process like 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. Two separate coils can be embedded in one ceramic body.

Class tolerance chart



KN Series specifications

1 Pt Models



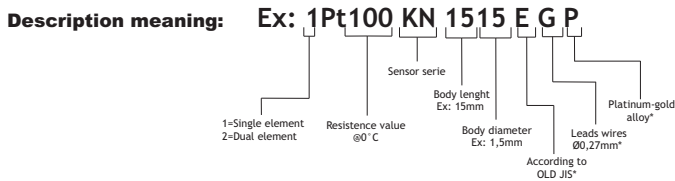
1Pt Types			Dimensions in mm				Self Heating	Response time			
Product Description	Tolerance	Order No.	L	D	d	l	°C (K/mW)	Water: V= 0.4m/s Air: V=3m/s			
								t _{0.5}	t _{0.9}	t _{0.5}	t _{0.9}
1Pt100 KN 0815	W0.3	32.206.463	8 ⁺² ₋₀	1.5±0.15	0.20±0.01	10.0±0.5	0.28	0.2	0.5	6.7	21.8
	W0.15	32.206.464									
	W0.1	32.206.465									
1Pt100 KN 1510	W0.3	32.206.913	15 ⁺² ₋₀	1.0±0.1	0.20±0.01	10.0±0.5	0.14	0.2	0.3	3.0	9.0
	W0.15	32.206.914									
	W0.1	32.206.915									
1Pt100 KN 1515	W0.3	32.206.455	15 ⁺² ₋₀	1.5±0.15	0.20±0.01	10.0±0.5	0.08	0.2	0.4	5.0	15.7
	W0.15	32.206.456									
	W0.1	32.206.457									
	W0.06	32.206.171									
	W0.03	32.206.112									
* See Remark											
1Pt100 KN 1515 EG	W0.3	32.206.907	15 ⁺² ₋₀	1.5±0.15	0.27±0.01	10.0±0.5	0.08	0.2	0.4	5.0	15.7
	W0.15	32.206.908									
	W0.1	32.206.909									
1Pt100 KN 1515 G	W0.3	32.206.901	15 ⁺² ₋₀	1.5±0.15	0.27±0.01	10.0±0.5	0.08	0.2	0.4	5.0	15.7
	W0.15	32.206.902									
	W0.1	32.206.903									
	W0.03	32.206.057									
* See Remark											
1Pt100 KN 1526	W0.3	32.206.925	15 ⁺² ₋₀	2.6±0.15	0.27±0.01	10.0±0.5		To be released soon			
	W0.15	32.206.926									
	W0.1	32.206.927									
1Pt100 KN 2510	W0.3	32.206.362	25 ⁺² ₋₀	1.0±0.15	0.20±0.01	10.0±0.5	0.07	0.2	0.4	3.0	8.8
	W0.15	32.206.365									
	W0.1	32.206.368									
1Pt100 KN 2515	W0.3	32.206.370	25 ⁺² ₋₀	1.5±0.15	0.20±0.01	10.0±0.5	0.07	0.2	0.4	5.3	16.0
	W0.15	32.206.372									
	W0.1	32.206.374									
	W0.03	32.206.099									
* See Remark											
1Pt100 KN 3026	W0.3	32.206.520	30 ⁺² ₋₀	2.6±0.15	0.27±0.01	10.0±0.5	0.4	0.3	0.6	10.5	34.0
	W0.15	32.206.544									
	W0.1	32.206.557									
	W0.03	32.206.082									
* See Remark											

Sensor Technology reserves the right to make changes without notice in the specifications of this products

*Remark

Class	Working Temperature	Lead Length (l)
W0.03 (1/10 DIN)	-50 °C to 150 °C -50 °C to 300 °C	10 mm 8 to 9 mm

Technical Specification



*Without this use the standard specification mentioned below

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 1/10 B)	= - 50° C to +300° C (Special ST Class proportional to W0.3)

Temperature coefficient: Tc = 3850 ppm/K

Leads: Palladium-gold alloy

Length Leads: 10 mm ± 1 mm

Insulation resistance after assembly: > 100 MOhm @ 25 °C

Measuring current: 1 mA

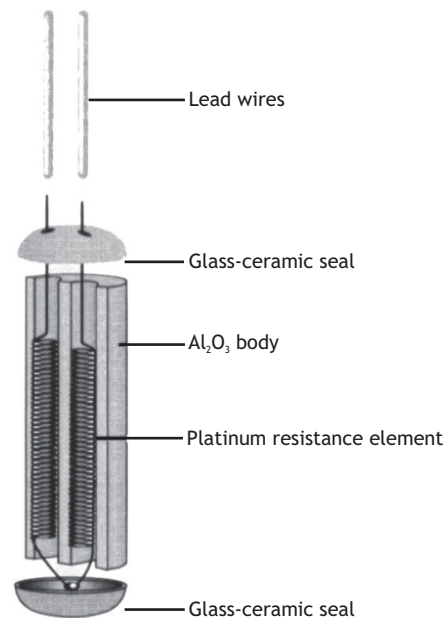
Tolerance class:

- According to IEC 60751:2008
- Other standards, narrower tolerances and other nominal resistances 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



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

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