铂基传感
BOJI SENSING

Sensor Technology

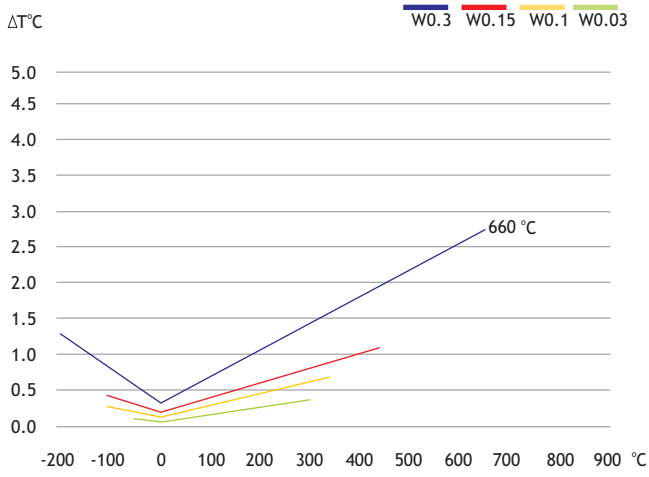
Sensor Technology
KN Series

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



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KN Series specifications
1 Pt Models

1Pt Types

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

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)	<=150°C 150°C to 300°C	10 mm 8 to 9 mm

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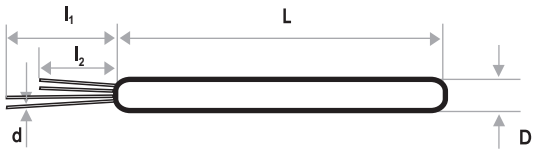
KN Series specifications
2 Pt Models



2Pt Types

Product			Dimensions in mm					Self Heating	Response time			
Description	Tolerance	Order No.	L	D	d	l_1	l_2	0 °C (K/mW)	Water: V= 0.4m/s Air: V=3m/s			
									$t_{0.5}$	$t_{0.9}$	$t_{0.5}$	$t_{0.9}$
2Pt100 KN 1017	W0.3 W0.15	32.206.182 32.206.183	10^{+2}_{-0}	1.7±0.15	0.20±0.01	11.0±0.5	10.0±0.5		To be released soon			
2Pt100 KN 1517	W0.3 W0.15 W0.1	32.206.157 32.206.158 32.206.159	15^{+2}_{-0}	1.7±0.15	0.20±0.01	11.0±0.5	10.0±0.5		To be released soon			
2Pt100 KN 2517	W0.3 W0.15 W0.1	32.206.301 32.206.004 32.206.302	25^{+2}_{-0}	1.7±0.15	0.20±0.01	11.0±0.5	10.0±0.5		To be released soon			
2Pt100 KN 2517 G	W0.3 W0.15 W0.1	32.206.931 32.206.932 32.206.933	25^{+2}_{-0}	1.7±0.15	0.27±0.01	11.0±0.5	10.0±0.5		To be released soon			
2Pt100 KN 3026	W0.3 W0.15 W0.1	32.206.620 32.206.569 32.206.647	30^{+2}_{-0}	2.6±0.15	0.27±0.01	11.0±0.5	10.0±0.5	0.04	0.3	0.6	11.0	36.0

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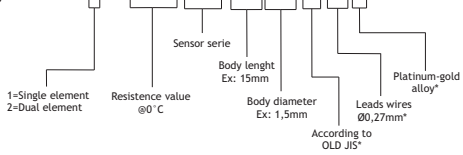
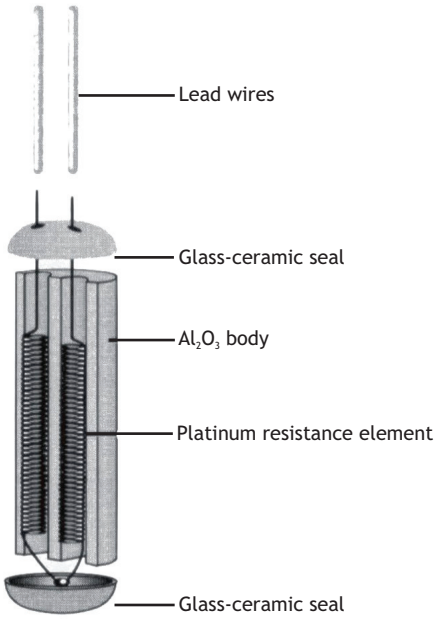
Technical Specification

Description meaning: Ex: 1Pt100 KN 1515 E G P



*Without this use the standard specification mentioned bellow

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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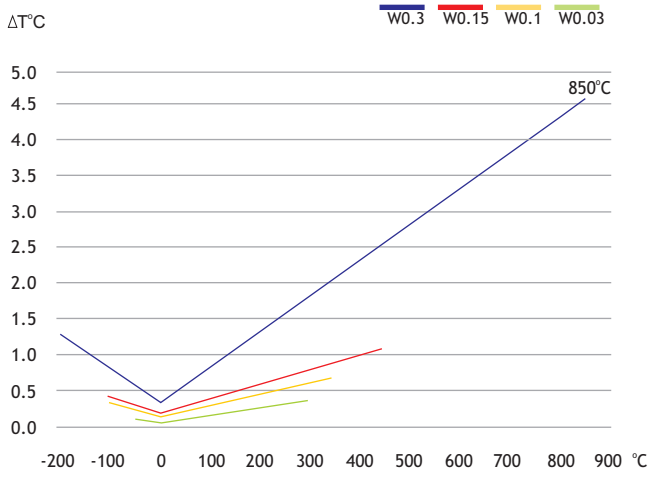
K Series

K Series Ceramic Wire Wound PRTD
The K Series Ceramic Wire Wound PRTDs are suitable for resistance thermometers requiring extremely temperature stability over 800℃, accuracy and high temperature shock resistance.

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

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



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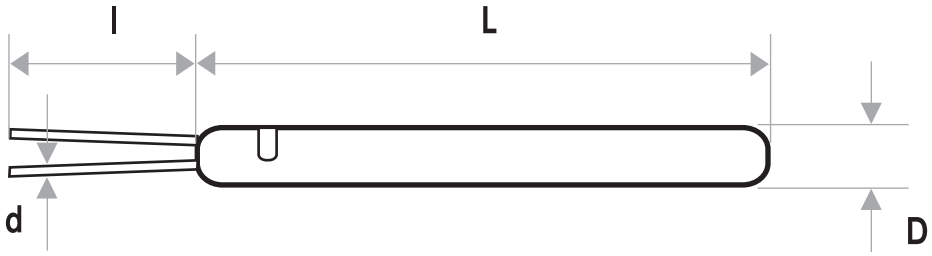
K Series specifications
1 Pt Types



1Pt Types

Product			Dimensions in mm				Self Heating	Response time			
Description	Tolerance	Order No.	L	D	d	l	0°C (K/mW)	Water: V= 0.4m/s $t_{0.5}$	Water: V= 0.4m/s $t_{0.9}$	Air: V=3m/s $t_{0.5}$	Air: V=3m/s $t_{0.9}$
1Pt100 K 1515	W0.3	32.206.280	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	32.206.281									
	W0.1	32.206.282									
1Pt100 K 2515	W0.3	32.206.105	25^{+2}_{-0}	1.5±0.15	0.20±0.01	10.0±0.5	0.08	0.2	0.4	5.7	17.0
	W0.15	32.206.109									
	W0.1	32.206.152									

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K Series specifications
2 Pt Types

2Pt Types

Product			Dimensions in mm					Self Heating	Response time			
									Water: V= 0.4m/s Air: V=3m/s			
Description	Tolerance	Order No.	L	D	d	l_1	l_2	0°C (K/mW)	$t_{0.5}$	$t_{0.9}$	$t_{0.5}$	$t_{0.9}$
2Pt100 K 1517	W0.3	32.206.204	15^{+2}_{-0}	1.7±0.15	0.20±0.01	11.0±0.5	10.0±0.5		To be released soon			
	W0.15	32.206.206										
	W0.1	32.206.207										
2Pt100 K 2517	W0.3	32.206.205	25^{+2}_{-0}	1.7±0.15	0.20±0.01	11.0±0.5	10.0±0.5	0.06	0.2	0.4	6.1	19.0
	W0.15	32.206.150										
	W0.1	32.206.162										
2Pt100 K 2517 E	W0.3	32.206.140	25^{+2}_{-0}	1.7±0.15	0.20±0.01	11.0±0.5	10.0±0.5	0.06	0.2	0.4	6.1	19.0
	W0.15	32.206.141										
	W0.1	32.206.142										

Technical Specification

Nominal resistance: 100 Ohm @ 0 °C

Temperature range: W0.3 (Class B) = -196°C to +850°C
(ST exceed IEC 60751: -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

Temperature coefficient: Tc = 3850 ppm/K

Leads: Platinum-gold alloy

Insulation resistance: > 100 MOhm @ 25 °C

Measuring current: 1 mA

Tolerance class:
- According to IEC 60751:2008
- Other standards, narrower tolerances and other nominal resistance are available on request

Temperature stability: Excellent long-term stability

Also available:
- Different temperature coefficients On Demand.(3916 ppm/K - old JIS)
- Extension leads

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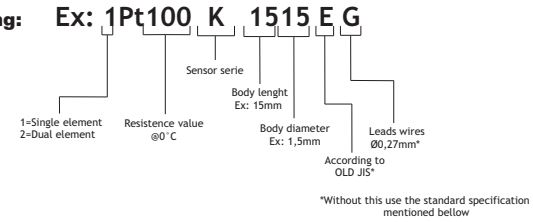
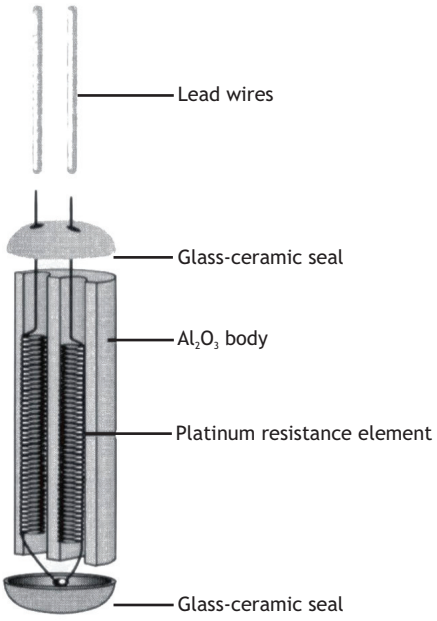
Technical Specification

Description meaning: Ex: 1Pt100 K 1515 E G



Temperature range:	W0.3 (Class B) = -196°C to +850°C W0.15 (Class A) = -100°C to +450°C W0.1 (Class 1/3 B) = -100°C to +350°C
Temperature coefficient:	Tc = 3850 ppm/K
Leads:	Platinum-gold alloy
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



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