

# Sensor Technology

## KN Series



### KN Series Ceramic Wire Wound PRTD

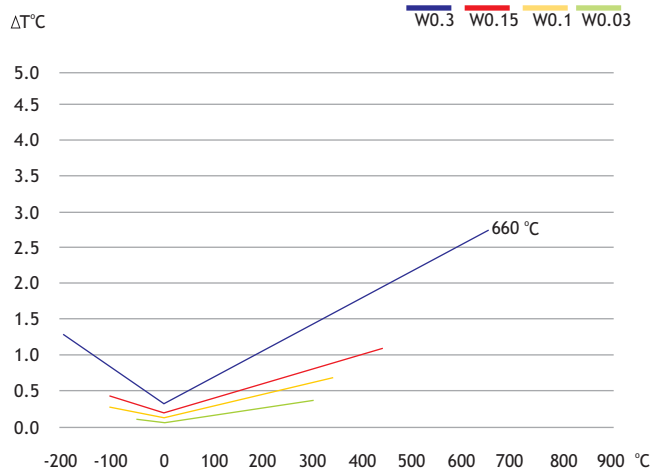
The KN Series Ceramic Wire Wound PRTDs are suitable for general applications requiring temperature stability and accuracy.

**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.

On demand: In addition to the standard products, we are also producing on demand products. In order to offer the best solution to the market, we are able to design element sensors considering different diameters, lengths, classes and coefficients.

Class tolerance chart



# KN シリーズ 1 Pt Type (シングルタイプ)



1Pt Types					寸法 in mm			自己発熱係数	応答時間					
仕様	品名	公差クラス	クラス	使用温度範囲 (°C)	オーダー番号	長さ	外径	リード線外径	長さ	0°C (K/mW)	Water: V= 0.4m/s		Air: V= 3m/s	
											t <sub>0.5</sub>	t <sub>0.9</sub>	t <sub>0.5</sub>	t <sub>0.9</sub>
1Pt100 KN 0815	W0.3	B	-196	++660	32.206.463	8 <sup>+2</sup> <sub>0</sub>	1.5±0.15	0.20±0.01	9.5±0.5	0.28	0.2	0.5	6.7	21.8
	W0.15	A	-100	++450	32.206.464									
	W0.1	1/3	-100	++350	32.206.465									
	W0.06	1/5	-50	++300	32.206.000									
	W0.03L	1/10	-50	++150	32.206.432									
W0.03	1/10	-50	++300	32.206.024	8.5±0.5									
1Pt100 KN 1510	W0.3	B	-196	++660	32.206.913	15 <sup>+2</sup> <sub>0</sub>	1.0±0.1	0.20±0.01	9.5±0.5	0.14	0.2	0.3	3.0	9.0
	W0.15	A	-100	++450	32.206.914									
	W0.1	1/3	-100	++350	32.206.915									
	W0.03L	1/10	-50	++150	32.206.433									
	W0.03	1/10	-50	++300	32.206.185									
1Pt100 KN 1515	W0.3	B	-196	++660	32.206.455	15 <sup>+2</sup> <sub>0</sub>	1.5±0.15	0.20±0.01	9.5±0.5	0.08	0.2	0.4	5.0	15.7
	W0.15	A	-100	++450	32.206.456									
	W0.1	1/3	-100	++350	32.206.457									
	W0.06	1/5	-50	++300	32.206.171									
	W0.03L	1/10	-50	++150	32.206.424									
W0.03	1/10	-50	++300	32.206.112	8.5±0.5									
1Pt100 KN 1515 EG	W0.3	B	-196	++660	32.206.907	15 <sup>+2</sup> <sub>0</sub>	1.5±0.15	0.27±0.01	9.5±0.5	0.08	0.2	0.4	5.0	15.7
	W0.15	A	-100	++450	32.206.908									
	W0.1	1/3	-100	++350	32.206.909									
1Pt100 KN 1515 G	W0.3	B	-196	++660	32.206.901	15 <sup>+2</sup> <sub>0</sub>	1.5±0.15	0.27±0.01	9.5±0.5	0.08	0.2	0.4	5.0	15.7
	W0.15	A	-100	++450	32.206.902									
	W0.1	1/3	-100	++350	32.206.903									
	W0.06	1/5	-50	++300	32.206.956									
	W0.03L	1/10	-50	++150	32.206.423									
W0.03	1/10	-50	++300	32.206.057	8.5±0.5									
1Pt100 KN 1526	W0.3	B	-196	++660	32.206.925	15 <sup>+2</sup> <sub>0</sub>	2.6±0.15	0.27±0.01	9.5±0.5	0.6	0.3	0.6	10.2	33.8
	W0.15	A	-100	++450	32.206.926									
	W0.1	1/3	-100	++350	32.206.927									
1Pt100 KN 2510	W0.3	B	-196	++660	32.206.362	25 <sup>+2</sup> <sub>0</sub>	1.0±0.15	0.20±0.01	9.5±0.5	0.07	0.2	0.4	3.0	8.8
	W0.15	A	-100	++450	32.206.365									
	W0.1	1/3	-100	++350	32.206.368									
	W0.03L	1/10	-50	++150	32.206.434									
	W0.03	1/10	-50	++300	32.206.044									
1Pt100 KN 2515	W0.3	B	-196	++660	32.206.370	25 <sup>+2</sup> <sub>0</sub>	1.5±0.15	0.20±0.01	9.5±0.5	0.07	0.2	0.4	5.3	16.0
	W0.15	A	-100	++450	32.206.372									
	W0.1	1/3	-100	++350	32.206.374									
	W0.03L	1/10	-50	++150	32.206.435									
	W0.03	1/10	-50	++300	32.206.099									
1Pt100 KN 3026	W0.3	B	-196	++660	32.206.520	30 <sup>+2</sup> <sub>0</sub>	2.6±0.15	0.27±0.01	9.5±0.5	0.4	0.3	0.6	10.5	34.0
	W0.15	A	-100	++450	32.206.544									
	W0.1	1/3	-100	++350	32.206.557									
	W0.03L	1/10	-50	++150	32.206.436									
	W0.03	1/10	-50	++300	32.206.082									

# KN シリーズ 2 Pt type (ダブルエレメント)

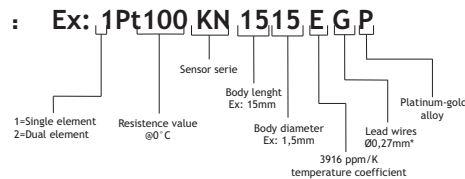


仕様				寸法 in mm				自己発熱係数		応答時間				
品名	公差クラス	クラス	使用温度範囲 (°C)	オーダー番号	長さ	外径	リード線径	長さ1	長さ2	0°C (K/mW)	Water: V= 0.4m/s		Air: V= 3m/s	
											t <sub>0.5</sub>	t <sub>0.9</sub>	t <sub>0.5</sub>	t <sub>0.9</sub>
2Pt100 KN 1017	W0.3	B	-196 ~ +660	32.206.182	10 <sup>+2</sup> <sub>0</sub>	1.7±0.15	0.20±0.01	10.5±0.5	9.5±0.5	0.28	0.2	0.5	6.7	21.8
	W0.15	A	-100 ~ +450	32.206.183										
	W0.1	1/3	-100 ~ +350	32.206.184										
2Pt100 KN 1517	W0.3	B	-196 ~ +660	32.206.157	15 <sup>+2</sup> <sub>0</sub>	1.7±0.1	0.20±0.01	10.5±0.5	9.5±0.5	0.14	0.2	0.3	3.0	9.0
	W0.15	A	-100 ~ +450	32.206.158										
	W0.1	1/3	-100 ~ +350	32.206.159										
2Pt100 KN 2517	W0.3	B	-196 ~ +660	32.206.301	25 <sup>+2</sup> <sub>0</sub>	1.7±0.15	0.20±0.01	10.5±0.5	9.5±0.5	0.08	0.2	0.4	5.0	15.7
	W0.15	A	-100 ~ +450	32.206.004										
	W0.1	1/3	-100 ~ +350	32.206.302										
2Pt100 KN 2517 G	W0.3	B	-196 ~ +660	32.206.931	25 <sup>+2</sup> <sub>0</sub>	1.7±0.15	0.27±0.01	10.5±0.5	9.5±0.5	0.08	0.2	0.4	5.0	15.7
	W0.15	A	-100 ~ +450	32.206.932										
	W0.1	1/3	-100 ~ +350	32.206.933										
2Pt100 KN 3026	W0.3	B	-196 ~ +660	32.206.620	30 <sup>+2</sup> <sub>0</sub>	2.6±0.15	0.27±0.01	10.5±0.5	9.5±0.5	0.06	0.3	0.6	10.5	34.0
	W0.15	A	-100 ~ +450	32.206.569										
	W0.1	1/3	-100 ~ +350	32.206.647										

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

## Technical Specification

### 仕様説明



使用温度範囲:	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
	W0.06 (Class 1/5 B)	= -50°C to +300°C
	W0.03L (Class 1/10 B)	= -50°C to +150°C
	W0.03 (Class 1/10 B)	= -50°C to +300°C

温度係数: Tc = 3850 ppm/K

リード線材質: パラジウム金合金

リード線長: 10 mm ± 1 mm

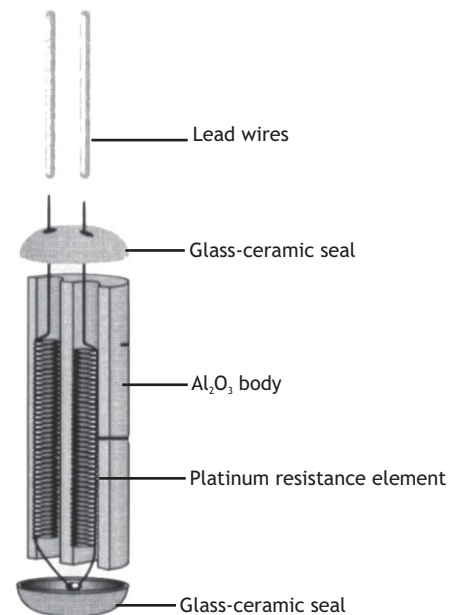
組立後の絶縁抵抗: > 100 MOhm @ 25 °C

規定電流: 1 mA

クラス公差:  
- According to IEC 60751:2008  
- Other standards, narrower tolerances  
and other nominal resistances are  
available on request

温度安定性: Excellent long-term stability

特殊仕様品:  
- 白金合金リード線  
- 旧JIS(3916 ppm/K - old JIS)  
- 延長リード線



抵抗値調整位置は素子端から8mm位置です。

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