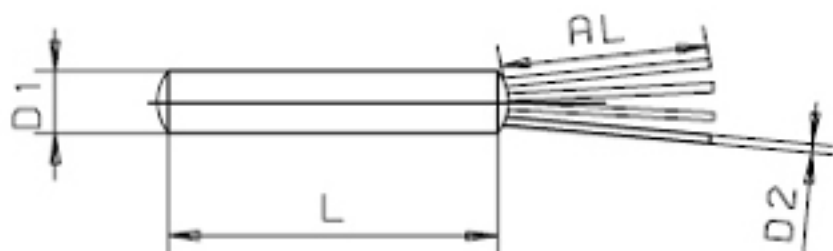




K series ceramic platinum wire resistance temperature sensor

K series resistance temperature sensors are suitable for all applications where an extremely high level of temperature stability over +600°C and a high temperature shock resistance are of particular importance. There is only minimal deviation from the IEC 751 characteristic curve. The small diameter tolerances of the sensor body allow easy installation in protective tubes. Applications include the chemical and power generation industries as well as analytical equipment.

Temperature range	Class B: -200°C to +850°C Class A: -100°C to +600°C Class 1/3 B: -50°C to +250°C
Temperature coefficient	TCR = 3850 ppm/K (TCR 3916 available on request)
Contact	Platinum-gold alloy wire
Ambient conditions	Use unprotected only in dry environments
Insulation resistance	> 10 MΩ at 20°C; >1 MΩ at 500°C
Measuring current	1 mA



Type	K	Order no.	Nominal resistance Ω at 0 °C	Dimensions in mm				Self heating K/mW at 0 °C	Response time in seconds			
				L	D1	D2	AL		Water v = 0.4 m/s		Air v = 1 m/s	
								t _{0.5}	t _{0.9}	t _{0.5}	t _{0.9}	
Class B												
1Pt 100	2515	32 206 105	100	25	1.5	0.20	10	0.08	0.2	0.4	5.7	17.0
2Pt 100	2517	32 206 205	100	25	1.7	0.20	10	0.06	0.2	0.4	6.1	19.0
Class A												
1Pt 100	2515	32 206 109	100	25	1.5	0.20	10	0.08	0.2	0.4	5.7	17.0
2Pt 100	2517	32 206 150	100	25	1.7	0.20	10	0.06	0.2	0.4	6.1	19.0
Class 1/3 B												
1Pt 100	2515	32 206 152	100	25	1.5	0.20	10	0.08	0.2	0.4	5.7	17.0
2Pt 100	2517	32 206 162	100	25	1.7	0.20	10	0.06	0.2	0.4	6.1	19.0

Dimension tolerance: L = +2/-0, D1 = ±0.1, D2 = ±0.01, AL = ±2