2 Pt100 K 2517

The K Series Ceramic Wire Wound PRTDs are suitable for resistance thermometers requiring extremely temperature stability over 800°C and high temperature shock resistance. The dual sensor can be used in redundancy systems and also allow the comparison between two differents values in the sensor.

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

Construction: Two separate platinum coils are embedded and sealed inside a high purity aluminum oxide ceramic body. Lead wires are shear force resistant and assure proper connection to extension leads and cables.

Models

Description	Tolerance IEC 60751	Order No.	Dimensions mm					Self Heating 0°C (K/mW)	Response time Water current V=0.4m/s		Response time Air stream V=3m/s	
			L	D	d	l_1	l_2		$t_{0.5}$	$t_{0.9}$	$t_{0.5}$	$t_{0.9}$
2Pt100 K 2517	W0.3 W0.15 W0.1	32.206.205 32.206.150 32.206.162	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

Technical Specification

Nominal resistance: 100 Ohm @ 0 °C

Temperature range: W0.3 (Class B) = -196 to +850 °C
(Heraeus exceeds IEC 60751: -196 to +660 °C)

W0.15 (Class A) = -196 to +600 °C
(Heraeus exceeds IEC 60751: -100 to +450 °C)

W0.1 (Class 1/3 B) = -100 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 and narrower tolerances are available on request

Temperature stability: Excellent long-term stability

Also available:
- Different temperature coefficients (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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