

1 Pt500 K 4015 GP

The K Series Ceramic Wire Wound PRTDs are suitable for resistance thermometers requiring extremely temperature stability over 800°C 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.



Models

Description	Tolerance IEC 60751	Order No.	Dimensions mm				Self Heating 0°C (K/mW)	Response time			
			L	D	d	l		Water current V=0.4m/s		Air stream V=3m/s	
							t _{0.5}	t _{0.9}	t _{0.5}	t _{0.9}	
1Pt500 K 4015 GP	W0.3	32.206.167	40 ⁺²	1.5±0.15	0.27±0.01	10.0±0.5					To be released soon
	W0.15	32.206.168	40 ₋₁								

Technical Specification

Nominal resistance:	500 Ohm @ 0 °C	Measuring current:	1 mA
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)	Tolerance class:	- According to IEC 60751:2008 - Other standards and narrower tolerances are available on request
Temperature coefficient:	Tc = 3850 ppm/K	Temperature stability:	Excellent long-term stability
Leads:	Platinum-gold alloy	Also available:	- Different temperature coefficients (3916 ppm/K - old JIS) - Extension leads - Two separated coils can be embedded in one ceramic body
Insulation resistance after assembly:	> 100 MOhm @ 25 °C		

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

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