Heraeus

Platinum Resistance Temperature Detector

HD 421 Pt 100

HD 421 Pt 100-type platinum temperature sensors are characterized by long-term stability, precision over a broad temperature range and compatibility. Main application area is the process technology.

ominal Resistance R ₀	Tolerance Up to 650°C	Tolerance Up to 850°C	Order No. Blister box	
100 Ohm at 0°C	DIN EN 60751, class B	DIN EN 60751, class 2B	32 208 228	
measuring point for the nominal r	esistance is defined at 4 mm from the e	nd of the sensor body.		
ecification	DIN EN 60751			
mperature range	- 70°C up to + 850°C			
mperature coefficient	TCR = 3850 ppm/K			
ads ad length (L)	Pt 6 mm +- 1mm		1 1	
ng-term tests	1000 h at 850°C (ene	ed deviation according 50°C (under current aller then the allowed	2:0,2	
pration resistance	at least 40g accelerati wave signal, depends			
ock resistance	at least 100g accelera from 10Hz up to 2000 installation			
vironmental condition	Up to 650°C in housin	gs also as clean MI-type C no reducing atmosphere,	<u>,</u>	
sulation resistance	>100 MOhm at 20°C;	>2 MOhm at 650°C		
If heating	0.2 K/mW			
sponse time		m/s): $t_{0.5} = 0.05 \text{ s};$ t : $t_{0.5} = 3.3 \text{ s};$ $t_{0.9} = 13.1$		
easuring current	up to 1 mA (self heating has to be	e considered)		
te	Other tolerances, valuavailable on request.	Other tolerances, values of resistance and wire lengths are available on request.		

We reserve the right to make alterations and technical data printed. All technical data serves as a guideline and does not guarantee particular properties to any products.

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