Heraeus

Platinum Resistance Temperature Detector

HD 421

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.

Nominal Resistance R0	Tolerance DIN EN 60751 1996-07	Tolerance DIN EN 60751 2009-05	Order Number Plastic Box	
100 Ohm at 0°C	Class B (to +650°C) Class 2B (to+850°C)	F 0.3 (to +650°C) F 0.6 (to +850°C)	32 208 228	
measuring point for	r the nominal resistance	is defined at 4mm fro	m the end of the sensor bo	dy.
cification	DIN E	N 60751		
nperature range	Tolera	-70°C up to +850°C Tolerance Class B: -70°C up to +650°C Tolerance Class 2B: -70°C up to +850°C		
perature coeffic	cient TCR=	3850 ppm/K		
ds	Pt- wir	e		2,1±0,3_1
l length (L)	6mm :	±1mm		2,1±0,3
ng-term tests	smalle to DIN as clea	at 850°C (energize r then the allowed o B. 1000 h at 650°C an MI-type) smaller on according to DI		
tion resistance		t 40g acceleration signal, depends on		
k resistance	from 1	at least 100g acceleration at frequencies from 10Hz up to 2000Hz, depends on the installation		
ironmental con	Up to possib	Unhoused for dry environment only, Up to 650°C in housings also as clean MI-type possible, above 650°C no reducing atmosphere, free air admission necessary		Ø0,25:0,02
lation resistanc	e >100 l	MΩ at 20°C; >2 MΩ	at 650°C	
heating	0.2 K/	mW		
ponse time	Water	current (v= 0.4m/s)		
	Air str	eam (v= 2m/s):	$\begin{array}{l} t_{0.9} = 0.17s \\ t_{0.5} = 3.3s \\ t_{0.9} = 13.0s \end{array}$	Ro
suring current		nax. 5mA; 850°C m eating has to be co		conf
e		tolerances, values o s are available on r	of resistance and wire equest.	

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.

