Heraeus

Platinum Resistance Temperature Detector

MH 220

Mseries PRTDs are designed for large volume applications where long term stability, interchangeability and accuracy over a large temperature range are vital. Typical applications are Automotive, White goods, HVAC, Energy management, Medical and Industrial equipment.

Nominal Resistance R ₀	Tolerance	Order No. Plastic bag		
100 Ohm at 0°C	DIN EN 60751, class B DIN EN 60751, class A DIN EN 60751, class 1/3 DIN	32 207 420 32 207 577 32 207 578		
measuring point for the no	minal resistance is defined at 8 mm fro	m the end of the sensor body		
pecification	DIN EN 60751 (accordi	ng to IEC 751)		
nperature range	-70°C to 600°C (continu			
	Tolerance class B: - 70 Tolerance class A: -50		ſ	
	Tolerance class 1/3 DIN			
nperature coefficier	t TCR = 3850 ppm/K	TCR = 3850 ppm/K		
105.91	1111 8-1-1-1-1			
ek	AuPd			
ng-term stability	max. R ₀ -drift 0.04% afte	er 1000 h at 600°C		
ibration resistance	at least 40 g acceleration	on at 10 to 2000 Hz,		
	depends on installation			
ock resistance	at least 100 g accelerat	ion with 8ms half sine		
	wave, depends on insta	llation		
vironmental condition	ons unhoused for dry enviro	nments only		
sulation resistance	> 100 MΩ at 20°C; > 2	MΩ at 500°C		
elf heating	0.4 K/mW at 0°C			
esponse time	water current (v = 0.4 m	h/s): $t_{0.5} = 0.06 s;$		
		t _{0.9} = 0.20 s		
	air stream (v = 2 m/s): t	_{0.5} = 3.0 s; t _{0.9} = 13.0 s		
easuring current	100 Ω: 0.3 to 1.0 mA			
	(self heating has to be o	considered)		
	Other tolerances, value	Other tolerances, values of resistance and wire le		

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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available on request.