Heraeus

Platinum Resistance Temperature Detector

M 222

M series 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 R0	Tolerance DIN EN 60751 1996-07	Tolerance DIN EN 60751 2009-05	Order Number Plastic Bag	Order Number Blister Reel
100 Ohm at 0°C	Class 1/3 B Class A Class B Class 2B	F 0.1 F 0.15 F 0.3 F 0.6	32 208 551 32 208 550 32 208 548 32 208 573	32 208 719 32 208 718
500 Ohm at 0°C	Class B Class A	F 0.3 F 0.15	32208706 32208712	
1000 Ohm at 0°C	Class 1/3 B Class A Class B Class 2B	F 0.1 F 0.15 F 0.3 F 0.6	32 208 707 32 208 572 32 208 57 1 32 208 557	

The measuring point for the nominal resistance is defined at 8mm from the end of the sensor body (4mm from the end of the sensor body for part numbers 32208573 and 32208557).

Specification	DIN EN 60751 (according to IE)	2,1±0,2		0,9+0,3	
Temperature range Temperature coefficient	Tolerance Class B: -70° Tolerance Class A: -50°				2, 3.0.15
Leads	Pt clad Ni- wire Recommend connection techno Welding, Crimping and Brazing				
Lead lengths (L)	10mm ±1mm (6mm ±1mm for p/n 32208573 a				
Long-term stability	max. R ₀ -drift 0.04% after 1000h	Ø0,2±0,02		I	
Vibration resistance	at least 40g acceleration at 10 t depends on installation				
Shock resistance	at least 100g acceleration with a wave, depends on installation				
Environmental conditions	unhoused for dry environments				
Insulation resistance	> 100 M Ω at 20°C; > 2 M Ω at 5				
Self heating	0.4 K/mW at 0°C				
Response time	water current (v= 0.4m/s):	t _{0.5} = 0.05s t _{0.9} = 0.15s			
	air stream (v= 2m/s):	$t_{0.5} = 3.0s$ $t_{0.9} = 10.0s$			
Measuring current	100Ω : 0.3 to 1.0mA 500Ω: 0.1 to 0.7mA 1000Ω: 0.1 to 0.3mA (self heating has to be consider	ed)			
Note	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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