



Platinum - 600°C MiniSens

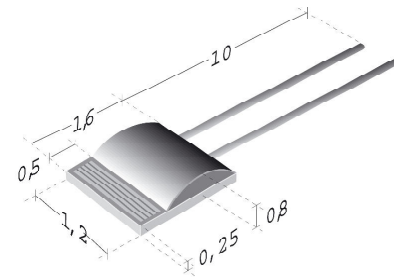
The World's Smallest Platinum Thin-Film Temperature Sensor

Product

In the combination of sensor knowledge and advanced production technology, we have succeeded in producing the smallest platinum thin-film temperature sensors in the world. The sensors are available in basic values of 100, 500 and 1000 ohms and applicable to temperature range of -200°C to +400°C and +600°C. The miniaturised design opens up totally new applications in temperature measurement and is characterised by many advantages. The chip dimensions of 1,6 x 1,2 mm (length x width) are available on the basis value of 100, 500 and 1000 ohms at DIN EN 60751 tolerance class or better.

Advantages

- Extremely short response time
- Thanks to its small dimensions, there is space for it anywhere
- More accurate measurements through low heat transfer
- Precise spot measurements on objects
- Excellent long term stability
- Simple interchangeability
- Wide temperature range
- Vibration resistant



Technical Data

Nominal resistance:	PT100Ω, PT500Ω, PT1000Ω	
Temperature range:	-200°C to +600°C	
Classes:	1/3 DIN class B ; DIN class A ; DIN class B	
Tolerance classes:	1/3 DIN class B: -50°C to 150°C DIN class A: -90°C to 300°C DIN class B: -200°C to 600°C	
Temperature coefficient:	TCR = 3850ppm/K	
Dependence of Resistivity:	DIN EN 60751	
Wires:	Pt-Ni clad wire, Ø 0.2 mm	
Long-term stability:	max. Drift = 0.03% after 1000h at 600°C	
Response time:	Water (0.4 m/s)	: T _{0.63} = 0.08 s
	Air (1m/s)	: T _{0.63} = 1.2 s
Measuring current:	0.5mA (100 Ω) ; 0.4mA (500 Ω) ; 0.3mA (1000 Ω)	
Self heating:	Water [mW/°C]:	12
	Air [mW/°C]:	1.8

Other Chipsizes, Nominal resistances, tolerances, length of wire or materials on request.



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