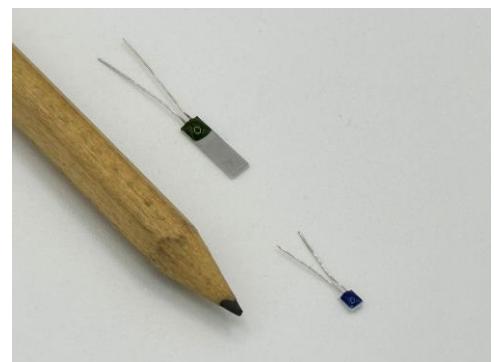


TEMPERATURE SENSOR PT100/PT1000

Thin layer sensitive element

Ref : 2373

Rev : A



DESCRIPTION

This sensitive element is made by spraying a thin layer of platinum on a ceramic substrate. The resistive circuit created by photo lithography, is then covered with a protective glass film. The tensile strength of the connections is guaranteed by a drop of glass deposited on the welds. It is particularly adequate for temperature ranges from -70°C to +500°C. Its key benefits are a reduced size, an excellent electrical insulation, and a quick response time.

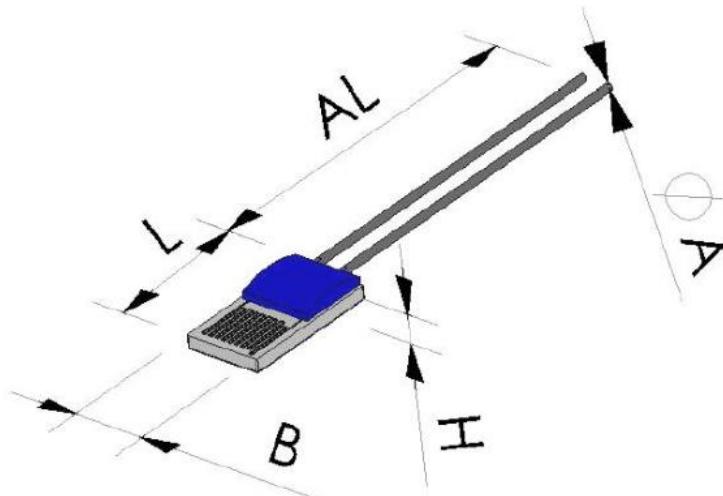
MESUREX is a sensor manufacturer. We can adapt most sensors to your needs. Please [contact us](#).

TECHNICAL CHARACTERISTICS

Nominal value	100, 500 and 1000Ω at 0°C
Temperature coefficient	a = 3850 ppm/K
Tolerance	CEI 751: B class, A and 1/3 DIN (other on request)
Operating temperature range	-70°C to +500°C (depending on tolerance class)
Connecting wire	Platinum nickel
Insulation resistance	1000 MΩ min at 500VDC
Operating conditions	Use without protection only in a dry environment
Resistance and stability	Very stable over time Good resistance to vibrations Sensitive to bending and pressure
Options	Tight ohmic resistance Variable connection lengths Axial or vertical connections (T) Other ohmic values (200Ω, 2000Ω, 10 000Ω)

DIMENSIONS

Nominal Resistance (Ω at 0°C)	L (mm)	B (mm)	H (mm)	AL (mm)	A (mm)	Self-heating (K/mW)	Response time			
							Water V=0.4m/s		Air V=1m/s	
							0.5s	0.9s	0.5s	0.9s
100	9.5	1.9	0.9	10	0.2	0.2	0.1	0.3	4	12
500	9.5	1.9	0.9	10	0.2	0.2	0.1	0.3	4	12
1000	9.5	1.9	0.9	10	0.2	0.2	0.1	0.3	4	12
1000	5.9	2.1	0.9	10	0.2	0.3	0.08	0.25	3.7	11.5
100	3.9	2.1	0.9	10	0.2	0.3	0.07	0.2	3.2	11
500	3.9	2.1	0.9	10	0.2	0.3	0.07	0.2	3.2	11
1000	3.9	2.1	0.9	10	0.2	0.3	0.07	0.2	3.2	11
1000	3	2.1	0.9	10	0.15	0.3	0.04	0.12	2.5	8
100	2.3	2.1	0.9	10	0.2	0.4	0.05	0.15	3	10



CONTACT

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