

MT-Series - Metal Encapsulated Pt Temperature Sensor

Temperature range -40 °C to +500 °C

Performance Characteristics

- Robust stainless steel housing
- Ideal thermal conductivity
- Highly resistant against most chemicals
- According to DIN EN IEC 60751

Application Examples

- Process industry
- Chromatographs
- HVAC
- High temperature sensing

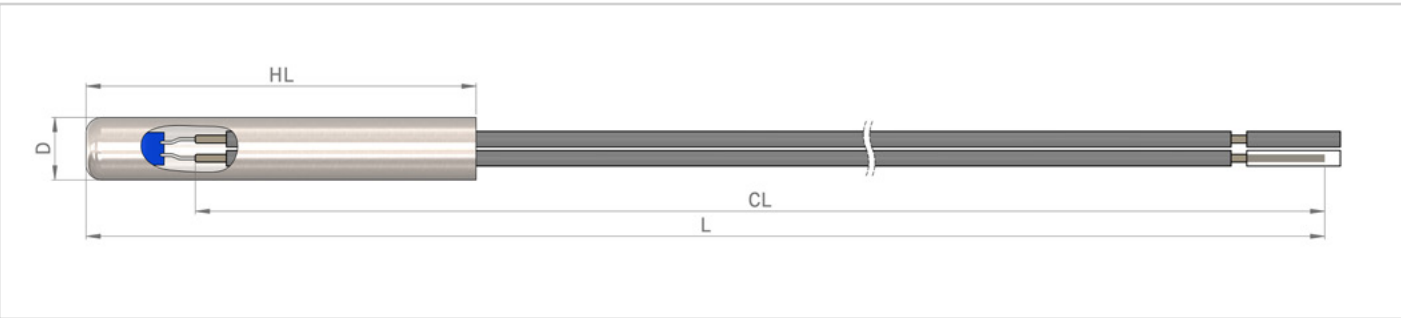


Image for illustration purposes only

Dimensions and Materials

No.	Product Type	Element Resistance R ₀ [Ω]	Dimensions & Tolerances (mm)				Conductor			Order Number
			HL	D	CL	L	Core (AWG)	Insulation	Color	
1	MT2060-C	Pt100 / F 0.1	20 ±0.2	6 d10	320 ±10	320 ±10	24/01 Ni	Fiberglass	White	30500109
2	MT2060-C	Pt1000 / F 0.1	20 ±0.2	6 d10	320 ±10	320 ±10	24/01 Ni	Fiberglass	White	31500989

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Performance Data

No.	Temperature Range	Dielectric Strength AC (Housing)	Response Time Water ($v = 0.4 \text{ m/s}$)		Pull Force [N]	Conductor Resistance [Ω/m]	Application
			T0.5 [s]	T0.9 [s]			
1	-40 °C to +500 °C	500 V / 10 s	3.2	9.6	> 88	0.48 \pm 10 %	Multi-Purpose
2	-40 °C to +500 °C	500 V / 10 s	3.2	9.6	> 88	0.48 \pm 10 %	Multi-Purpose

Temperature Coefficient

TCR = 3850 ppm/K

Measuring Current

Pt100 Ω : 0.3 to 1.0 mA

Pt1000 Ω : 0.1 to 0.3 mA

(self-heating has to be considered)

Self-Heating (Sensor Element)

0.4 K/mW at 0 °C

Customization Options

- All housing dimensions
- Sensor element (type and resistance)
- Cable material (core and insulation)
- Cable dimensions (length and diameter)
- Connectors
- Certifications (e.g. IMDS, PPAP, IP rating)

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Sensor Academy!



RoHS
compliant

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