

MT-Series Metal Encapsulated Pt Temperature Sensor

Temperature range -50 °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

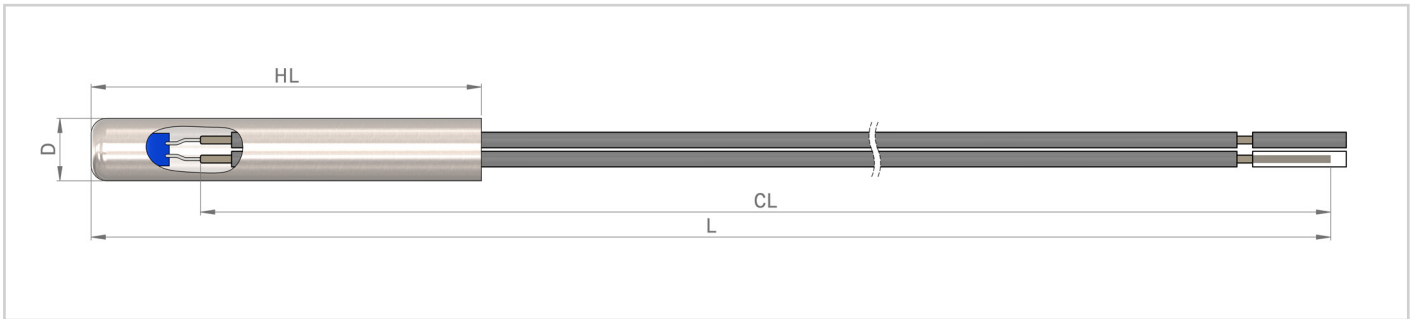


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Dimensions and Materials

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
3	MT2060-C	Pt100 / F 0.3	20 ±0.2	6 d10	320 ±10	320 ±10	24/01 Ni	Fiberglass	White	5220178
4	MT2060-C	Pt1000 / F 0.3	20 ±0.2	6 d10	320 ±10	320 ±10	24/01 Ni	Fiberglass	White	5220179
5	MT1034-C	Pt100 / F 0.3	10 ±0.2	3.4 +0.02 -0.05	250 ±5	255 ±5	24/19 NPC	PTFE	Red	5220152
6	MT1034-C	Pt1000 / F 0.3	10 ±0.2	3.4 +0.02 -0.05	250 ±5	255 ±5	24/19 NPC	PTFE	Red	5220016

Performance Data

No.	Temperature Range	Response Time Water (v = 0.4 m/s)		Pull Force [N]	Conductor Resistance [Ω/m]	Application	Order Number
		T0.5 [s]	T0.9 [s]				
1	-40 °C to +500 °C	3.2	9.6	> 88	0.48 ±10 %	Multi-Purpose	30500109
2	-40 °C to +500 °C	3.2	9.6	> 88	0.48 ±10 %	Multi-Purpose	31500989
3	-40 °C to +500 °C	3.2	9.6	> 88	0.48 ±10 %	Multi-Purpose	5220178
4	-40 °C to +500 °C	3.2	9.6	> 88	0.48 ±10 %	Multi-Purpose	5220179
5	-50 °C to +150 °C	1.13	3.6	> 50	0.085 ±10 %	Multi-Purpose	5220152
6	-50 °C to +150 °C	1.13	3.6	> 50	0.085 ±10 %	Multi-Purpose	5220016

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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