

# **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 60751

#### **Application Examples**

- Process industry
- Chromatographs
- HVAC
- High temperature sensing

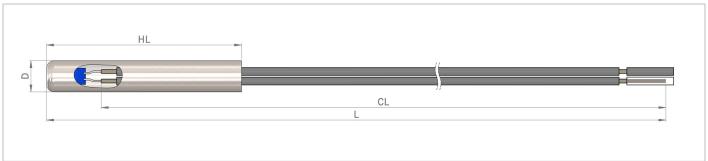


Image for illustration purposes only

#### **Dimensions and Materials**

No.	Product Type	Element Resistance $R_{_0}\left[\Omega ight]$	Dimensions & Tolerances (mm)				Conductor			Oudou
			HL	D	CL	L	Core (AWG)	Insulation	Color	Order Number
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

Document: 20003959423 Part 001 Version 03 | Status: 01/2024

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Temperature range -40 °C to +500 °C

#### **Performance Data**

No.	Temperature	Dielectric Strength	The second se	se Time = 0.4 m/s)	Pull Force	Conductor Resistance	Application
	Range	AC (Housing)	T0.5 [s]	T0.9 [s]	[N]	[Ω/m]	
1	-40 °C to +500 °C	500 V / 10 s	3.2	9.6	> 88	0.48 ±10 %	Multi-Purpose
2	-40 °C to +500 °C	500 V / 10 s	3.2	9.6	> 88	0.48 ±10 %	Multi-Purpose

#### **Temperature Coefficient**

TCR = 3850 ppm/K

#### **Measuring Current**

Pt100  $\Omega$ : 0.3 to 1.0 mA Pt1000  $\Omega$ : 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)

Need more information Check out our Sensor Academy!

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