MT-Series Metal Encapsulated Pt Temperature Sensor
Temperature range -50 °C to +500 °C

YAGEO Nexensos

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

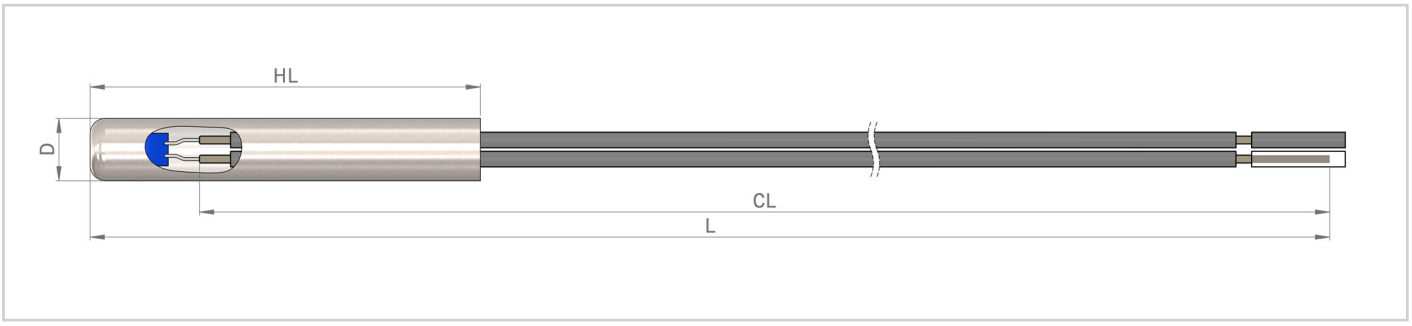


Image for illustration purposes only

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
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

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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)

RoHS compliant

The information provided in this data sheet describes certain technical characteristics of the product, but shall not be qualified or construed as quality guarantee (Beschaffenheitsgarantie) in the meaning of sections 443 and 444 German Civil Code. The information provided in this data sheet regarding measurement values (including, but not limited to, response time, long-term stability, vibration and shock resistance, insulation resistance and self-heating) are average values that have been obtained under laboratory conditions in tests of large numbers of the product. Product results or measurements achieved by customer or any other person in any production, test, or other environment may vary depending on the specific conditions of use. YAGEO Nexensos does not recommend the use of standard catalogue products or automotive grades for aerospace applications or manned space flight. The customer is solely responsible to determine whether the product is suited for the customer's intended use; in this respect YAGEO Nexensos cannot assume any liability. The sale of any products by YAGEO Nexensos is exclusively subject to the General Terms of Sale and Delivery of YAGEO Nexensos in their current version at the time of purchase, which is available under www.yageogroup.com/SalesResources/ResourceLibrary or may be furnished upon request. This data sheet is subject to changes without prior notice.

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