

TH-Series - Thread Type Pt Temperature Sensor

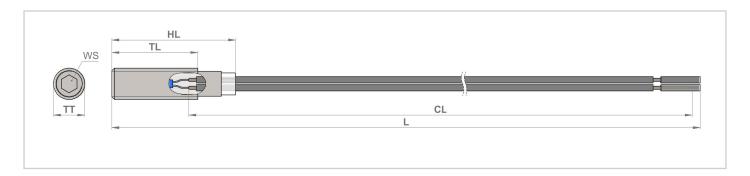
Temperature range -50 °C to +260 °C

Performance Characteristics

- Excellent thermal conductivity
- Thread tip material stainless steel
- Protected IP69
- Ease of mounting

Application Examples

- BEV / HEV Bus Bars
- Charging Guns / Infrastructure
- HVAC
- Heat sinks
- Motor and bearing casings



Dimensions and Materials

No.	Product Type	Element Resistance R ₀ [Ω]	Dimensions (mm)						Conductor			Order
			Thread Type	TL	HL	ws	CL	L	Core (AWG)	Insulation	Color	Number
1	TH14M4 -T110	Pt100 / F 0.3	M4	11 ±0.3	14 +4 / -0	2 (Hex)	250 ±10	260 ±10	26/07 NPC	PTFE	Black	5202008
2	TH14M4 -T110	Pt1000/F 0.3	M4	11 ±0.3	14 +4 / -0	2 (Hex)	250 ±10	260 ±10	26/07 NPC	PTFE	Black	5202006



TH-Series - Thread Type Pt Temperature Sensor

Temperature range -50 °C to +260 °C

Performance Data

No.	Temperature	Housing	Dielectric Strength AC		nse Time = 0.3 m/s)	Pull Force	Conductor Resistan-	Application	
	Range	Material	(Housing)	T0.5 [s]	T0.9 [s]	[N]	ce [Ω/m]		
1	-50 °C to +260 °C	Stainless Steel	3000 VAC, 60 s	4.9	12.3	>30	0.138 ±25%	Multi-Purpose	
2	-50 °C to +260 °C	Stainless Steel	3000 VAC, 60 s	4.9	12.3	>30	0.138 ±25%	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 outer dimensions
- Conductor size and material
- Sensor resistance
- Connectors
- Certifications (e.g. IMDS, PPAP, IP rating)

Need more information? Check out our Sensor Academy!





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.yageo-nexensos.com/tc or may be furnished upon request. This data sheet is subject to changes without prior notice.

YAGEO Nexensos GmbH, Reinhard-Heraeus-Ring 23, 63801 Kleinostheim, Germany