

THTE-1PAT10756MZ







Temperature sensors Resistance thermometer

Model Name > THTE-1PAT10756MZ

Part No. > 6047618





At a glance

- Pt100, accuracy class A (IEC 60751)
- Measuring ranges -50 °C ... +150 °C and -50 °C ... +250 °C
- · Sensor probe spring-loaded in thermowell
- Wetted parts: Corrosion-resistant stainless steel 316L/1.4435, Ra 0.8 μm
- · Hygienic process connections
- Pt100 (4-wire) or 4 mA ... 20 mA (2-wire)
- Round connector M12 x 1

Your benefits

- The sensor can be exchanged without opening the process, providing high equipment availability and minimizing hygienic risks
- Safe hygienic operation: Wetted parts are made from high-grade stainless steel, hygienically-graded surface finish, and a gap- and crevice-free design
- · Rugged: Connection housing is easily cleaned and splash water proof
- · Quick and safe installation
- · Very good long-term stability, accuracy and linearity
- · Quick response time
- · Optimal solutions for individual requirements due to versatile configurability



Features

Measuring range: -50 °C ... 150 °C

Sensor element: Pt100

Output signal: Pt100, 4-wire

Performance

Accuracy of sensor element: Class A according to IEC 60751

Transmitter accuracy: $\leq \pm 0.2 \%$ of span Transmitter linearity: $\leq \pm 0.1 \%$ of span

Response time: Response time t50: \leq 4.7 s

response time t90: ≤ 12.2 s

1) Depending on sensor configuration, according to IEC 60751

Mechanics/electronics

Process connection: Tri-clamp 1", 1 ½"

Insertion length/diameter of probe: 75 mm/6 mm

Housing material: Stainless steel 1.4571 (316Ti)

Wetted parts: stainless steel 1.4435 (316L), Ra ≤ 0.8 μm

Electrical connection/enclosure rating ¹⁾: Round connector M12 x 1, 4-pin/IP 68 and IP 69K

Measuring current: 0.3 mA ... 1 mA

Electrical safety: Dielectric strength: 500 V AC

Protection class: III

Protection class III:

Pressure resistance: Max. 16 bar at room temperature

Ambient data

Ambient temperature: $-40 \,^{\circ}\text{C} \dots 85 \,^{\circ}\text{C}$ Storage and transport temperature: $-40 \,^{\circ}\text{C} \dots 85 \,^{\circ}\text{C}$

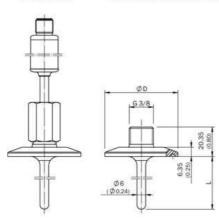
Vibration resistance according to IEC 60751: 3 g

Shock resistance: According to IEC 60751

Relative humidity: ≤ 95 %

Dimensional drawing process connection

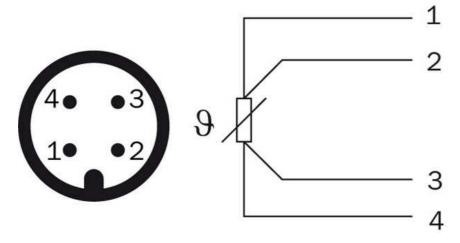
Complete assembly Protection tube with process connection



All dimensions in mm (inch)

Design		ØD
DIN 32676	DN 10 DN 20	34.0 (1.34)
	DN 25 DN 40	50.5 (1.99)
	DN 50	64.0 (2.52)
ISO 2852	DN 12 DN 21.3	34.0 (1.34)
	DN 25 DN 38	50.5 (1.99)
	DN 40, DN 51	64.0 (2.52)
Tri-Clamp	1", 1 1/5"	50.5 (1.99)
	2"	64.0 (2.52)

¹⁾ Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply while the pressure transmitter is connected with female connectors that provide the corresponding enclosure rating.



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