

RTD Thermometer TSM487



More information and current pricing:

www.in.endress.com/TSM487

Benefits:

- High degree of flexibility thanks to modular design with standard terminal heads as per DIN EN 50446 and customer-specific immersion lengths
- High degree of insert compatibility and design as per DIN 43772

Specs at a glance

- **Accuracy** class A acc. to IEC 60751
- **Response time** $t_{50} = 4 \text{ s}$ $t_{90} = 8 \text{ s}$
- **Max. process pressure (static)** at 20 °C: 20 bar (290 psi)
- **Operating temperature range** PT 100: -30 °C ...200 °C (-22 °F ...392 °F)
- **Max. immersion length on request** up to 250,00 mm (9,84")

Field of application: The thermometer is mainly used in the chemical industry but also finds its use in other branches. Preferred applications are vessels or pipes where no high process pressures and no extreme temperatures appear. The device with head transmitter is a complete unit ready for use with enhanced measurement accuracy and reliability compared to directly wired sensors. A variety of dimensions offers flexible application possibilities.

Features and specifications

Thermometer

Measuring principle

Resistance Temperature Detector

Thermometer**Characteristic / Application**

metric style
modular temperature assembly
threaded process connection
without neck
transmitter included (fixed range)

Thermowell / protection tube

without (not intended to use with thermowell)

Insert / probe

mineral insulated (MI), flexible

Outer diameter protection tube / Insert

6,0 mm (0,24")

Max. immersion length on request

up to 250,00 mm (9,84")

Material protection tube/ thermowell

1.4404 (316L)

Process connection

male thread:
G1/2"

Tip shape

straight

Surface roughness Ra

Not defined

Operating temperature range

PT 100:
-30 °C ...200 °C
(-22 °F ...392 °F)

Thermometer

Max. process pressure (static)

at 20 °C: 20 bar (290 psi)

Accuracy

class A acc. to IEC 60751

Response time

t50 = 4 s

t90 = 8 s

Integration head transmitter

yes (4 ... 20 mA)

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