

## RTD Thermometer TSM487



More information and current pricing:

[www.fi.endress.com/TSM487](http://www.fi.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

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**Thermometer****Characteristic / Application**

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

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**Thermowell / protection tube**

without (not intended to use with thermowell)

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**Insert / probe**

mineral insulated (MI), flexible

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**Outer diameter protection tube / Insert**

6,0 mm (0,24")

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**Max. immersion length on request**

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

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**Material protection tube/ thermowell**

1.4404 (316L)

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**Process connection**

male thread:  
G1/2"

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**Tip shape**

straight

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**Surface roughness Ra**

Not defined

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**Operating temperature range**

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

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Thermometer

**Max. process pressure (static)**  
at 20 °C: 20 bar (290 psi)

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**Accuracy**  
class A acc. to IEC 60751

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**Response time**  
t50 = 4 s  
t90 = 8 s

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**Integration head transmitter**  
yes (4 ... 20 mA)

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