

# RTD Thermometer TST187



More information and current pricing:

[www.sg.endress.com/TST187](http://www.sg.endress.com/TST187)

## 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
- Extension neck to protect the head transmitter from overheating
- Fast response time

## Specs at a glance

- **Accuracy** class A acc. to IEC 60751
- **Response time**  $t_{50} = 18\text{ s}$   $t_{90} = 55\text{ s}$
- **Max. process pressure (static)** at 20 °C: 50 bar (725 psi)
- **Operating temperature range** PT 100: -50 °C ...400 °C (-58 °F ... 752 °F)
- **Max. immersion length on request** up to 400,00 mm (15,75")

**Field of application:** The thermometer is mainly used in the chemical industry but also finds its use in other branches. The device is equipped with a directly wired Pt100-sensor with 4-wire installation. A variety of process connections, immersion lengths and materials offer 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  
with neck  
incl. thermowell / protection tube  
(metal)

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**Thermowell / protection tube**

welded protection tube

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**Insert / probe**

mineral insulated (MI), flexible

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**Outer diameter protection tube / Insert**

9,0 mm (0,35")

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**Max. immersion length on request**

up to 400,00 mm (15,75")

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**Material protection tube/ thermowell**

1.4404 (316L)

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**Process connection**

male thread:  
G1/2"  
NPT1/2"

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**Tip shape**

straight

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**Surface roughness Ra**

0,8 µm (31,5 µin.)

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**Operating temperature range**

PT 100:  
-50 °C ...400 °C  
(-58 °F ... 752 °F)

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Thermometer

**Max. process pressure (static)**  
at 20 °C: 50 bar (725 psi)

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

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**Response time**  
t50 = 18 s  
t90 = 55 s

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**Integration head transmitter**  
no

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