RTD Thermometer 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 $20 \degree \text{C}$: 50 bar (725 psi)
- **Operating temperature range** PT 100: $-50 \degree \text{C} ... 400 \degree \text{C}$ ($-58 \degree \text{F} ... 752 \degree \text{F}$)
- **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

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## Thermometer

### Characteristic / Application
- metric style
- modular temperature assembly
- threaded process connection
- with neck
- incl. thermowell / protection tube (metal)

### Thermowell / protection tube
- welded protection tube

### Insert / probe
- mineral insulated (MI), flexible

### Outer diameter protection tube / Insert
- 9,0 mm (0,35")

### Max. immersion length on request
- up to 400,00 mm (15,75")

### Material protection tube/ thermowell
- 1.4404 (316L)

### Process connection
- male thread:
  - G1/2"
  - NPT1/2"

### Tip shape
- straight

### Surface roughness Ra
- 0,8 μm (31,5 μin.)

### Operating temperature range
- PT 100:
  - -50 °C ... 400 °C
  - (-58 °F ... 752 °F)
Thermometer

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

Accuracy
class A acc. to IEC 60751

Response time
t50 = 18 s
t90 = 55 s

Integration head transmitter
no

More information www.us.endress.com/TST187