

RTD Thermometer TST187



More information and current pricing:

www.fi.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

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

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