

RTD Thermometer TSM187



More information and current pricing:

www.in.endress.com/TSM187

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
- Head transmitter with analog output 4 to 20 mA

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: -30 °C ...300 °C (-22 °F ...572 °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. Preferred applications are vessels and pipes where stability and short response times are required. 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
with neck
incl. thermowell / protection tube
(metal)
transmitter included (fixed range)

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"

Tip shape

straight

Surface roughness Ra

Not defined

Operating temperature range

PT 100:
-30 °C ...300 °C
(-22 °F ...572 °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

yes (4 ... 20 mA)

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