

Easytemp TSM187

Modular RTD thermometer

Comprehensive and common temperature measurement technology for almost all branches of industry



More information and current pricing:

www.at.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

Characteristic / Application

metric style

modular temperature assembly

threaded process connection

with neck

incl. thermowell / protection tube
(metal)transmitter included (fixed range)

Thermowell / protection tubewelded protection tube

Insert / probemineral insulated (MI), flexible

Outer diameter protection tube / Insert9,0 mm (0,35")

Max. immersion length on requestup to 400,00 mm (15,75")

Material protection tube/ thermowell1.4404 (316L)

Process connection

male thread:

G1/2"

Tip shape

straight

Thermometer

Surface roughness Ra

Not defined

Operating temperature range

PT 100:

-30 °C ...300 °C

(-22 °F ...572 °F)

Max. process pressure (static)

at 20 °C: 50 bar (725 psi)

Accuracy

class A acc. to IEC 60751

Response timet₅₀ = 18 st₉₀ = 55 s**Integration head transmitter**

yes (4 ... 20 mA)

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