

iTHERM ModuLine TM101

RTD or thermocouple temperature probe for direct installation in various industrial applications



from **SGD168.45**

Price as of 25.07.2021

More information and current pricing:

www.sg.endress.com/TM101

Benefits:

- Excellent value for money and fast global delivery
- User-friendly product selection, smart design for easy maintenance
- Wide range of process connections
- Bluetooth® connectivity (optional)

Specs at a glance

- **Accuracy** Class A acc. to IEC 60751 Class B acc. to IEC 60751 Class standard acc. to ASTM E230 Class 2 acc. to IEC 60584-2
- **Response time** t_{90} around 17 s depending on configuration
- **Max. process pressure (static)** depending on the configuration
- **Operating temperature range** Basic PT100 TF: -50 °C ...200 °C (-58 °F ...392 °F) Thermocouple: Typ K up to 600 °C (1.112 °F)
- **Max. immersion length on request** up to 1.000,0 mm (39")

Field of application: Basic thermometers offer reliable temperature measurement performance with basic sensor technology, a standard extension neck and a fixed, non-replaceable insert for use in non-hazardous areas. The devices are available with optional Bluetooth®-enabled head transmitters with 4 to 20 mA output or HART® communication, providing enhanced measurement accuracy and reliability compared to directly wired sensors.

Features and specifications

Thermometer

Measuring principle

Resistance Temperature Detector

Thermometer**Characteristic / Application**

Basic technologie

metric style

universal range of application

direct process contact

Thermowell / protection tube

without, direct process contact

Insert / probe

Basis Sensortechnologie

Outer diameter protection tube / Insert

Insert:

6,0 mm

Max. immersion length on request

up to 1.000,0 mm (39")

Material protection tube/ thermowell

Insert Material:

316L (1.4404)

Alloy 600 (2.4816)

Thermometer**Process connection**

Thread:

G1/2", G1/4"

NPT1/2"

M18x1.5, M20x1.5

Cap-nut:

G1/2", G3/4"

Compression fitting, also spring
load:

NPT1/2", G1/2"

Tip shape

straight

Operating temperature range

Basic PT100 TF:

-50 °C ...200 °C

(-58 °F ...392 °F)

Thermocouple:

Typ K up to 600 °C (1.112 °F)

Max. process pressure (static)

depending on the configuration

Thermometer**Accuracy**

Class A acc. to IEC 60751

Class B acc. to IEC 60751

Class standard acc. to ASTM E230

Class 2 acc. to IEC 60584-2

Response timet₉₀ around 17 s

depending on configuration

Integration head transmitter

yes (4 ... 20 mA; HART)

More information www.sg.endress.com/TM101