# iTHERM ModuLine TM101

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

F L E X

from **€57.00**

Price as of 28.03.2023

More information and current pricing:

[www.endress.com/TM101](www.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** t90 around 17 s depending on configuration
- **Max. process pressure (static)** depending on the configuration
- **Operating temperature range** Basic PT100 TF: -50 ℃ ...200 ℃ (-58 ℉ ...392 ℉) Thermocouple: Typ K up to 600 ℃ (1.112 ℉)
- **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

Endress+Hauser

## Thermometer

**Characteristic / Application**

Basic technologie

metric style

universal range of application

direct process contact

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**Thermowell / protection tube**

without, direct process contact

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**Insert / probe**

Basis Sensortechnologie

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**Outer diameter protection tube / Insert**

Insert:

6,0 mm

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**Max. immersion length on request**

up to 1.000,0 mm (39")

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**Material protection tube/ thermowell**

Insert Material:

316L (1.4404)

Alloy 600 (2.4816)

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**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"

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**Tip shape**

straight

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## Thermometer

**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

**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**

t90 around 17 s
depending on configuration

**Integration head transmitter**

yes (4 ... 20 mA; HART)

More information **www.endress.com/TM101**