

# iTHERM ModuLine TM101

## Industrial modular thermometer

Fundamental metric RTD/TC direct contact thermometer for a wide range of industrial applications



from **€71.00**

Price as of 21.02.2026

More information and current pricing:

[www.endress.com/TM101](http://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**  $t_{90}$  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) Typ K: max. 1.100 °C (max. 2.012 °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

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### 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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## Thermometer

**Tip shape**

straight

**Operating temperature range**

Basic PT100 TF:

-50 °C ...200 °C

(-58 °F ...392 °F)

Typ K:

max. 1.100 °C

(max. 2.012 °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**t<sub>90</sub> around 17 s

depending on configuration

**Integration head transmitter**

yes (4 ... 20 mA; HART)

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