

# iTHERM TM401

## Modular RTD thermometer - basic technology

For standard hygienic and aseptic applications in the Food & Beverages and Life Sciences industries



from **THB3,081.00**

Price as of 01.12.2021

More information and current pricing:

[www.th.endress.com/TM401](http://www.th.endress.com/TM401)

### Benefits:

- Excellent value for money and fast delivery
- User-friendly and reliable from product selection to maintenance
- International certification: hygiene standards as per 3-A<sup>®</sup>, EHEDG, ASME BPE, FDA, TSE Certificate of Suitability
- Wide range of process connections

### Specs at a glance

- **Accuracy** class A acc. to IEC 60751
- **Response time** depending on configuration
- **Max. process pressure (static)** at 20 °C: 40 bar (580 psi)
- **Operating temperature range** PT100: -50 °C ... 200 °C (-58 °F ... 392 °F)
- **Max. immersion length on request** up to 400 mm (15,75")

**Field of application:** This iTHERM thermometer has been designed to meet the basic requirements of the Food & Beverages and Life Sciences industries at the best price. It offers a variety of versions within a clearly segmented standard product. The result: Time and cost savings by simple and fast product selection. The device uses basic technology with features such as a fixed, non-replaceable insert, a wide range of process connections and international certification at an excellent value for money.

### Features and specifications

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## Thermometer

**Measuring principle**

Resistance Temperature Detector

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**Characteristic / Application**

metric style  
hygienic applications  
aseptic applications  
hygienic process connections  
with neck

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**Thermowell / protection tube**

without (not intended to use with thermowell)

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**Insert / probe**

without exchangeable insert

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**Outer diameter protection tube / Insert**

6,0 mm (0,24")

8,0 mm (0,31")

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**Max. immersion length on request**

up to 400 mm (15,75")

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**Material protection tube/ thermowell**

316L

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**Process connection**

compression fitting  
triclamp  
microclamp  
clamp connections acc. to ISO2852  
Ingold  
G3/4" Liquiphant  
G1" Liquiphant  
Varivent  
SMS 1147  
screwed pipe joint acc. to DIN 11851

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**Thermometer****Tip shape**

straight  
reduced

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**Surface roughness Ra**

0,76 µm (30 µin)  
0,38 µm (15 µin)

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**Operating temperature range**

PT100:  
-50 °C ... 200 °C  
(-58 °F ... 392 °F)

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**Max. process pressure (static)**

at 20 °C: 40 bar (580 psi)

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**Accuracy**

class A acc. to IEC 60751

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**Response time**

depending on configuration

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**Integration head transmitter**

yes (4 ... 20 mA, HART)

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**Certification**

SIL (transmitter only)

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