

# iTHERM TM402

## Imperial Hygienic Thermometer, US style

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



### 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 15.5" (317,5mm) others on request

from **€152.96**

Price as of 12.05.2021

More information and current pricing:

[www.at.endress.com/TM402](http://www.at.endress.com/TM402)

**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**

imperial style

hygienic applications

aseptic applications

hygienic process connections

with neck

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**Thermowell / protection tube**without (direct immersion)

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**Insert / probe**without exchangeable insert

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**Outer diameter protection tube / Insert**

1/4" (6,35 mm)

3/8" (9,53 mm)

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**Max. immersion length on request**

up to 15.5" (317,5mm)

others on request

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**Material protection tube/ thermowell**316L

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**Thermometer****Process connection**

Triclamp

Clamp-connections according to  
ISO2852

G3/4" Liquiphant

G1" Liquiphant

Varivent

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**Tip shape**

straight

reduced

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**Surface roughness Ra**

30 µin (0,76 µm)

15 µin (0,38 µm)

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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

Thermometer

**Integration head transmitter**

yes (4 ... 20 mA, HART)

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**Certification**

SIL (transmitter only)

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