

iTHERM ModuLine TM402

Hygienic modular thermometer

Fundamental imperial RTD direct contact thermometer for hygienic applications



from **€205.30**

Price as of 31.08.2025

More information and current pricing:

www.endress.com/TM402

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®, EHEDG, ASME BPE, FDA, TSE Certificate of Suitability
- Wide range of process connections
- Assembly meets PMO requirements as a recording thermometer by US FDA for dairies

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

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

Thermometer

Measuring principle

Resistance Temperature Detector

Characteristic / Application

imperial style
hygienic applications
aseptic applications
hygienic process connections
with neck

Thermowell / protection tube

without (direct immersion)

Insert / probe

without exchangeable insert

Outer diameter protection tube / Insert

1/4" (6,35 mm)
3/8" (9,53 mm)

Max. immersion length on request

up to 15.5" (317,5mm)
others on request

Material protection tube/ thermowell

316L

Process connection

Triclamp
Clamp-connections according to
ISO2852
G3/4" Liquiphant
G1" Liquiphant
Varivent

Tip shape

straight
reduced

Thermometer

Surface roughness Ra

30 µin (0,76 µm)

15 µin (0,38 µm)

Operating temperature range

PT100:

-50 °C ... 200 °C

(-58 °F ... 392 °F)

Max. process pressure (static)

at 20 °C: 40 bar (580 psi)

Accuracy

class A acc. to IEC 60751

Response time

depending on configuration

Integration head transmitter

yes (4 ... 20 mA, HART)

Certification

SIL (transmitter only)

More information www.endress.com/TM402