

iTHERM ModuLine TM401

Hygienic modular thermometer

Fundamental metric RTD direct contact thermometer for hygienic applications



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

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")

from **€84.00**

Price as of 31.08.2025

More information and current pricing:

www.endress.com/TM401

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

metric style
hygienic applications
aseptic applications
hygienic process connections
with neck

Thermowell / protection tube

without (not intended to use with thermowell)

Insert / probe

without exchangeable insert

Outer diameter protection tube / Insert

6,0 mm (0,24")

8,0 mm (0,31")

Max. immersion length on request

up to 400 mm (15,75")

Material protection tube/ thermowell

316L

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

Thermometer

Tip shape

straight
reduced

Surface roughness Ra

0,76 µm (30 µin)
0,38 µm (15 µin)

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/TM401