

iTHERM TM401

Modular RTD thermometer - basic technology

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



from **€69.00**

Price as of 12.05.2023

More information and current pricing:

www.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®, 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

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