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®, 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

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
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)