iTHERM ModuLine TM101

RTD or thermocouple temperature probe for direct installation without thermowell in various industrial applications

Benefits:
- Excellent value for money and fast global delivery
- User-friendly product selection, smart design for easy maintenance
- Wide range of process connections
- Bluetooth® connectivity (optional)

Specs at a glance
- **Accuracy** Class A acc. to IEC 60751 Class B acc. to IEC 60751 Class standard acc. to ASTM E230 Class 2 acc. to IEC 60584-2
- **Response time** t90 around 17 s depending on configuration
- **Max. process pressure (static)** depending on the configuration
- **Operating temperature range** Basic PT100 TF: -50 °C ...200 °C (-58 °F ...392 °F) Typ K: max. 1.100 °C (max. 2.012 °F)
- **Max. immersion length on request** up to 1.000.0 mm (39")

Field of application: Basic thermometers offer reliable temperature measurement performance with basic sensor technology, a standard extension neck and a fixed, non-replaceable insert for use in non-hazardous areas. The devices are available with optional Bluetooth®-enabled head transmitters with 4 to 20 mA output or HART® communication, providing enhanced measurement accuracy and reliability compared to directly wired sensors.

Features and specifications

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<td>Resistance Temperature Detector</td>
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**Thermometer**

**Characteristic / Application**
- Basic technology
- Metric style
- Universal range of application
- Direct process contact

**Thermowell / protection tube**
- Without, direct process contact

**Insert / probe**
- Basis Sensortechnologie

**Outer diameter protection tube / Insert**
- Insert:
  - 6.0 mm

**Max. immersion length on request**
- Up to 1.000,0 mm (39")

**Material protection tube / thermowell**
- Insert Material:
  - 316L (1.4404)
  - Alloy 600 (2.4816)

**Process connection**
- Thread:
  - G1/2", G1/4"
  - NPT1/2"
  - M18x1.5, M20x1.5
- Cap-nut:
  - G1/2", G3/4"
- Compression fitting, also spring load:
  - NPT1/2", G1/2"

**Tip shape**
- Straight
Thermometer

Operating temperature range
Basic PT100 TF:
-50 °C ... 200 °C
(-58 °F ... 392 °F)
Typ K:
max. 1.100 °C
(max. 2.012 °F)

Max. process pressure (static)
depending on the configuration

Accuracy
Class A acc. to IEC 60751
Class B acc. to IEC 60751
Class standard acc. to ASTM E230
Class 2 acc. to IEC 60584-2

Response time
t90 around 17 s
depending on configuration

Integration head transmitter
yes (4 ... 20 mA; HART)

More information www.us.endress.com/TM101