iTHERM ModuLine TM121

Thermometer with RTD or TC insert complete with manufactured thermowell produced from pipe material

Benefits:
- Economical, reliable measurement
- User-friendly from product selection to maintenance
- Wide range of process connections
- Easy and safe device setup and service using Bluetooth® communication

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 100 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:** RTD or TC assembly characterized by basic sensor technology, application in non-hazardous areas, standard extension neck, low-cost unit. 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**
- metric style
- modular temperature assembly
- universal range of application
- with neck
- incl. thermowell / protection tube (metal)

**Thermowell / protection tube**
- welded protection tube or to be used with thermowell

**Insert / probe**
- Basis Sensortechnologie

**Outer diameter protection tube / Insert**
- Thermowell:
- 9x1,25 mm
- 11x2 mm

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

**Material protection tube/ thermowell**
- 316L (1.4404)
Thermometer

**Process connection**
- Thread:
  - G1/2"
  - NPT1/2"
  - M20x1.5, M27x2, M33x2
- Compression fitting:
  - NPT1/2", G1/2", G1"
- Flansche:
  - DN25 DN40 B1
  - ASME 1" 150 RF
  - ASME 1" 300 RF
  - ASME 1 1/2" 150 RF
  - ASME 2" 150 RF
  - ASME 2" 300 RF

**Tip shape**
- straight

**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 100 s
- depending on configuration
Itherm TM121

Thermometer

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

More information www.us.endress.com/TM121