

## iTHERM ModuLine TM121

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



from **CHF102.00**

Price as of 15.08.2022

More information and current pricing:

[www.ch.endress.com/TM121](http://www.ch.endress.com/TM121)

### 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**  $t_{90}$  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) Thermocouple: Typ K up to 600 °C (1.112 °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

Thermometer

**Measuring principle**

Resistance Temperature Detector

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## Thermometer

### **Characteristic / Application**

metric style  
modular temperature assembly  
universal range of application  
with neck  
incl. thermowell / protection tube (metal)

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### **Thermowell / protection tube**

welded protection tube or to be used with  
thermowell

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### **Insert / probe**

Basis Sensortechnologie

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### **Outer diameter protection tube / Insert**

Thermowell:  
9x1,25 mm  
11x2 mm

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### **Max. immersion length on request**

up to 1.000,0 mm (39")

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### **Material protection tube/ thermowell**

316L (1.4404)

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## 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

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### Tip shape

straight

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### Operating temperature range

Basic PT100 TF:

-50 °C ...200 °C

(-58 °F ...392 °F)

Thermocouple:

Typ K up to 600 °C (1.112 °F)

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### Max. process pressure (static)

depending on the configuration

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### 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

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### Response time

t<sub>90</sub> around 100 s

depending on configuration

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Thermometer

**Integration head transmitter**

yes (4 ... 20 mA; HART)

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