

iTHERM ModuLine TM121

Industrial modular thermometer

Fundamental metric RTD/TC thermometer with welded thermowell for a wide range of industrial applications



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) Typ K: max. 1.100 °C (max. 2.012 °F)
- **Max. immersion length on request** up to 1.000,0 mm (39")

from **€113.00**

Price as of 27.08.2025

More information and current pricing:

www.endress.com/TM121

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

Characteristic / Application

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

Thermowell / protection tube

welded protection tube

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

Thermometer

Integration head transmitter

yes (4 ... 20 mA; HART)

More information www.endress.com/TM121