

# TH12

## US style RTD sensor, cable probe

Cost efficient RTD sensor designed for use in the process industry or factory automation



More information and current pricing:

[www.de.endress.com/TH12](http://www.de.endress.com/TH12)

### Benefits:

- High flexibility due to customized immersion length
- Fast response time with reduced/tapered tip form
- Simplified model structure: Competitively priced, offers great value. Easy to order and reorder
- Improved galvanic isolation on most devices (2 kV)

### Specs at a glance

- **Accuracy** class A acc. to IEC 60751 class B acc. to IEC 60751
- **Response time** 63% rt = 2,0 s
- **Max. process pressure (static)** at 20 °C: 40 bar (580 psi) depends on configuration
- **Operating temperature range** PT100 WW: -200 °C ... 600 °C (-328 °F ... 1.112 °F) PT100 TF: -50 °C ... 200 °C (-58 °F ... 392 °F)
- **Max. immersion length on request** up to 96" (2439 mm) others on request

**Field of application:** The Pt100 cable probe is easy to install and provide a high operational safety due to reliable and accurate temperature measurement in common processes. Without additional thermowell the probe sheath is directly in contact with the process medium. This enables the cable probe to detect rapid temperature changes fast and accurate.

### Features and specifications

Thermometer

Measuring principle

Resistance Temperature Detector

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## Thermometer

### Characteristic / Application

US style  
cable probe  
process connection as compression fitting  
without neck

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### Thermowell / protection tube

without (not intended to be used with  
thermowell)

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### Insert / probe

mineral insulated (MI), flexible  
PTFE-insulated, rigid

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### Outer diameter protection tube / Insert

1/8" (3,18 mm)  
3/16" (4,76 mm)  
1/4" (6,35 mm)  
3/8" (9,53 mm)

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### Max. immersion length on request

up to 96" (2439 mm)  
others on request

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### Material protection tube/ thermowell

Sensor sheath  
316/316L

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### Optional coating

Not applicable

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### Process connection

compression fitting:  
NPT1/8"  
NPT1/4"

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### Tip shape

straight  
reduced

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## Thermometer

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### Surface roughness Ra

Not defined

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### Operating temperature range

PT100 WW:

-200 °C ... 600 °C

(-328 °F ... 1.112 °F)

PT100 TF:

-50 °C ... 200 °C

(-58 °F ... 392 °F)

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### Max. process pressure (static)

at 20 °C: 40 bar (580 psi)

depends on configuration

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### Accuracy

class A acc. to IEC 60751

class B acc. to IEC 60751

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### Response time

63% rt = 2,0 s

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### Integration head transmitter

Not applicable

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