

# TH13

## Modular RTD thermometer, US style

### Best in class temperature measurement technology for general applications



Mais informações e preço atual:

[www.br.endress.com/TH13](http://www.br.endress.com/TH13)

#### Benefícios:

- High flexibility due to modular assembly with standard terminal heads and customized immersion length
- One Source shopping for temperature measurement solutions. World class transmitter with integrated sensor offering for heavy process industry applications. Remove and install straight out of the box!
- Improved galvanic isolation on most devices (2 kV)
- Simplified model structure: Competitively priced, offers great value. Easy to order and reorder. A single model number includes sensor and transmitter assembly for a complete point solution
- All iTEMP® transmitters provide long term stability  $\leq 0.05\%$  per year
- Fast response time with reduced/tapered tip form
- Head transmitter with easy selection: Analog output 4 to 20 mA, HART®, PROFIBUS® PA or FOUNDATION Fieldbus™

#### Especificações resumidas

- **Accuracy** class AA acc. to IEC 60751 class A acc. to IEC 60751 class B acc. to IEC 60751
- **Response time** depending on configuration
- **Max. process pressure (static)** at 20 °C: 100 bar (1.450 psi) depends on configuration
- **Operating temperature range** PT100 WW: -200 °C ... 600 °C (-328 °F ... 1.112 °F) StrongSens: -50 °C ... 500 °C (-58 °F ... 932 °F) PT100 TF: -50 °C ... 200 °C (-58 °F ... 392 °F)
- **Max. immersion length on request** up to 24" (609 mm) others on request

**Campo de aplicação:** The robust device with a barstock thermowell is a complete unit ready for use with various housing transmitter heads to

meet the application and space requirement needs. The unit offers enhanced measurement accuracy and reliability. A variety of process connections, dimensions, and materials (like 316L SS and Hastelloy C276) offer flexible application possibilities.

## Características e especificações

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### Thermometer

**Measuring principle**

Resistance Temperature Detector

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**Characteristic / Application**

US style

modular temperature assembly

threaded process connection

process connection as weld in version

with extension

incl. thermowell

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**Thermowell / protection tube**

bar stock (drilled)

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**Insert / probe**

mineral insulated (MI), flexible

PTFE-insulated, rigid

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## Thermometer

**Outer diameter protection tube / Insert**

3/4" (19,05 mm)

1" (25,40 mm)

17/16" (26,99 mm)

15,88 mm ...33,40 mm

(0,63" ...1,31")

**Max. immersion length on request**

up to 24" (609 mm)

others on request

**Material protection tube/ thermowell**

316/316L

others on request

**Optional coating**

Available on request

**Process connection**

male thread:

NPT1/2"

NPT3/4"

NPT1"

weld in version

socket weld version

1"

## Thermometer

**Tip shape**

reduced

tapered

straight

**Surface roughness Ra**

32 µin (0.80 µm)

**Operating temperature range**

PT100 WW:

-200 °C ... 600 °C

(-328 °F ... 1.112 °F)

StrongSens:

-50 °C ... 500 °C

(-58 °F ... 932 °F)

PT100 TF:

-50 °C ... 200 °C

(-58 °F ... 392 °F)

**Max. process pressure (static)**

at 20 °C: 100 bar (1.450 psi)

depends on configuration

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**Thermometer****Accuracy**

class AA acc. to IEC 60751

class A acc. to IEC 60751

class B acc. to IEC 60751

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**Response time**

depending on configuration

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**Integration head transmitter**yes (4 ... 20 mA; HART; PROFIBUS PA; FOUNDATION  
FIELDBUS)

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**Ex - approvals**

transmitter only

FM IS

CSA IS

FM/CSA IS

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**Certification**

SIL (transmitter only)

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