

TH54

Modular TC thermometer, US style

Best in class temperature measurement technology for general applications



Mais informações e preço atual:

www.br.endress.com/TH54

Benefícios:

- 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, thermowell and transmitter assembly for a complete point solution.
- All iTEMP® transmitters provide long term stability $\leq 0.05\%$ per year

Especificações resumidas

- **Accuracy** Standard acc. to ASTM E-230 Special acc. to ASTM E-230
- **Response time** depending on configuration 63% rt = 15,0 s
- **Max. process pressure (static)** at 20°C: 500 bar (7252 psi) depends on configuration
- **Operating temperature range** Type T: -270 °C ... 370 °C (-454 °F ... 698 °F) Type J: -210 °C ... 720 °C (-346 °F ... 1.328 °F) Type E: -270 °C ... 820 °C (-454 °F ... 1.508 °F) Type K: -270 °C ... 1.150 °C (-454 °F ... 2.102 °F) Type N: -270 °C ... 1.150 °C (-454 °F ... 2.102 °F)
- **Max. immersion length on request** up to 24" (609 mm) others on request

Campo de aplicação: The high modular thermometer is used for several applications with harsh environments, e.g. in power plants, refineries or in the chemical or petrochemical industry. The robust device with barstock thermowell, flange connection and different head transmitter is

a complete unit ready for use with enhanced measurement accuracy and reliability. A variety of dimensions and materials, like SS316, INCONEL600, HastelloyC276, Titan or Monel, offer flexible application possibilities.

Características e especificações

Thermometer

Measuring principle

Thermocouple

Characteristic / Application

Industrial US style

modular temperature assembly

flanged process connection

with extension

incl. thermowell

Thermowell / protection tube

bar stock (drilled)

Insert / probe

mineral insulated (MI), flexible

Outer diameter protection tube / Insert

3/4" (19,05 mm)

7/8" (22,23 mm)

17/16" (26,99 mm)

Max. immersion length on request

up to 24" (609 mm)

others on request

Thermometer

Material protection tube/ thermowell

316/316L

others on request

Optional coating

available on request

Thermometer**Process connection**

flange:

ASME 1" 150 RF (B16.5)

ASME 1" 300 RF (B16.5)

ASME 1" 600 RF (B16.5)

ASME 1" 900/1500 RF (B16.5)

ASME 1.5" 150 RF (B16.5)

ASME 1.5" 300 RF (B16.5)

ASME 1.5" 600 RF (B16.5)

ASME 1.5" 900/1500 RF (B16.5)

ASME 2" 150 RF (B16.5)

ASME 2" 300 RF (B16.5)

ASME 2" 600 RF (B16.5)

ASME 2" 900/1500 RF (B16.5)

ASME 3" 150 RF (B16.5)

ASME 3" 300 RF (B16.5)

ASME 3" 600 RF (B16.5)

ASME 3" 900/1500 RF (B16.5)

Thermometer

Tip shape

straight

tapered

Surface roughness Ra

1,6 μm (63,0 $\mu\text{in.}$)

Thermometer

Operating temperature range

Type T:

-270 °C ...370 °C

(-454 °F ...698 °F)

Type J:

-210 °C ... 720 °C

(-346 °F ...1.328 °F)

Type E:

-270 °C ... 820 °C

(-454 °F ...1.508 °F)

Type K:

-270 °C ...1.150 °C

(-454 °F ...2.102 °F)

Type N:

-270 °C ... 1.150 °C

(-454 °F ...2.102 °F)

Max. process pressure (static)

at 20°C: 500 bar (7252 psi)

depends on configuration

Thermometer

Accuracy

Standard acc. to ASTM E-230

Special acc. to ASTM E-230

Response time

depending on configuration

63% rt = 15,0 s

Integration head transmitter

yes (4 ... 20 mA; HART; PROFIBUS PA; FOUNDATION
FIELDBUS)

Ex - approvals

transmitter only

FM IS

CSA IS

FM/CSA IS

Certification

SIL (transmitter only)

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