

# TH52

## US style thermocouple sensor, cable probe

Cost efficient TC sensor designed for use in many process and laboratory applications



Meer informatie en actuele prijzen:

[www.be.endress.com/TH52](http://www.be.endress.com/TH52)

### Voordelen:

- 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.
- Improved galvanic isolation on most devices (2 kV)
- One source shopping for temperature measurement solutions. Remove and install straight out of the box!
- All iTEMP® transmitters provide long term stability  $\leq 0.05$  % per year

### Overzicht specificaties

- **Accuracy** Standard acc. to ASTM E-230 Special acc. to ASTM E-230
- **Response time** 63% rt = 0.3 s
- **Max. process pressure (static)** at 20°C: 40 bar (580 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 96" (2438 mm) others on request

**Toepassingsgebied:** The thermocouple cable probe is easy to install and provide a high operational safety due to reliable and accurate temperature measurement in common processes. The probe is used in many process and laboratory applications such as heat exchangers, furnaces or dryers. 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.

## Kenmerken en specificaties

### Thermometer

**Meetprincipe**

Thermocouple

**Characteristic / Application**

US style  
cable probe  
process connection as compression fitting

**Thermowell / protection tube**

without (not intended to use with thermowell)

**Insert / probe**

mineral insulated (MI), flexible

**Outer diameter protection tube / Insert**

1/16" (1,59 mm)  
1/8" (3,18 mm)  
3/16" (4,76 mm)  
1/4" (6,35 mm)

**Max. immersion length on request**

up to 96" (2438 mm)  
others on request

**Material protection tube/ thermowell**

316  
Alloy 600

**Optional coating**

Not applicable

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**Thermometer****Process connection**

compression fitting:

NPT1/8"

NPT1/4"

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**Tip shape**

straight

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**Surface roughness Ra**

nicht definiert

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**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)

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**Max. process pressure (static)**

at 20°C: 40 bar (580 psi)'

depends on configuration

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**Accuracy**

Standard acc. to ASTM E-230

Special acc. to ASTM E-230

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**Response time**

63% rt = 0.3 s

Thermometer

Integration head transmitter

Not applicable

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