

TH53

Modular TC thermometer, US style

Best in class temperature measurement technology for general applications



Thông tin thêm và mức tính giá hiện tại:

www.apsc.endress.com/TH53

Lợi ích:

- 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

Tổng quan về thông số kỹ thuật

- **Accuracy** Standard acc. to ASTM E-230 Special acc. to ASTM E-230
- **Response time** depending on configuration 63% rt = 15 s
- **Max. process pressure (static)** at 20°C: 100 bar (1.450psi) 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

Phạm vi ứng dụng: 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 and different head transmitter is a complete unit

ready for use with enhanced measurement accuracy and reliability. A variety of process connections, dimensions and materials, like SS316, INCONEL600, Hastelloy C276, Titan or Monel, offer flexible application possibilities.

Tín năng và thông số kỹ thuật

Thermometer

Measuring principle

Thermocouple

Characteristic / Application

Industrial US style

modular temperature assembly

threaded, weld-in, and socket weld 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)

1" (25,40 mm)

17/16" (26,99 mm)

0,63" ...1,31" (15,88 mm ... 33,40 mm)

Thermometer**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

Tip shape

straight

stepped

tapered

Surface roughness Ra

32 µin (0.80 µm)

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:

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(-454 °F ...2.102 °F)

Type N:

-270 °C ... 1.150 °C

(-454 °F ...2.102 °F)

Max. process pressure (static)

at 20°C: 100 bar (1.450psi)

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 s

Integration head transmitteryes (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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