

TC13

Modular TC thermometer

TC Thermometer, explosion-protected with thermowell and a variety of different flanges



Thông tin thêm và mức tính giá hiện tại:

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Lợi ích:

- High degree of flexibility thanks to modular design with standard terminal heads as per DIN EN 50446 and customer-specific immersion lengths
- High degree of insert compatibility and design as per DIN 43772
- Extension neck to protect the head transmitter from overheating
- Fast response time with reduced/tapered tip form
- Types of protection for use in hazardous locations: Intrinsic safety (Ex ia), non-sparking (Ex nA)
- Head transmitter with easy selection: Analog output 4 to 20 mA, HART®, PROFIBUS® PA or FOUNDATION Fieldbus™

Tổng quan về thông số kỹ thuật

- **Accuracy** class 1 acc. to IEC 60584
- **Response time** depending on configuration $t_{50} = 6$ s $t_{90} = 13$ s
- **Max. process pressure (static)** at 20 °C: 50 bar (725 psi)
- **Operating temperature range** Type K: -40 °C ... 1.100 °C (-40 °F ... 2.012 °F) Type J: -40 °C ... 750 °C (-40 °F ... 1.382 °F)
- **Max. immersion length on request** up to 10.000,00 mm (393,70")

Phạm vi ứng dụng: The high modular and robust thermometer finds its use in several applications in almost all industries. An optional head transmitter, with all common communication protocols, makes the device ready to use with enhanced measurement accuracy and reliability compared to directly wired sensors. A variety of process connections, dimensions and materials offer flexible application possibilities.

Tín năng và thông số kỹ thuật

Thermometer

Measuring principle

Thermocouple

Characteristic / Application

metric style

modular temperature assembly

universal range of application

suitable for hazardous areas

flanged process connection

without neck

incl. thermowell / protection tube (metal)

Thermowell / protection tube

welded protection tube

Insert / probe

mineral insulated (MI), flexible

Outer diameter protection tube / Insert

9,0 mm (0,35")

11,0 mm (0,43")

12,0 mm (0,47")

Max. immersion length on request

up to 10.000,00 mm (393,70")

Thermometer

Material protection tube/ thermowell

1.4404 (316L)

1.4571 (316Ti)

Alloy 600 (2.4816)

Alloy C276 (2.4819)

Optional coating

Not defined

Process connection

flange:

DN25 PN40 B1 (EN1092)

DN40 PN40 B1(EN1092)

DN50 PN40 B1 (EN1092)

ASME 1" 150 RF (B16.5)

ASME 1" 300 RF (B16.5)

Tip shape

straight

reduced

tapered

Surface roughness Ra

0,8 µm (31,5 µin.)

Thermometer

Operating temperature range

Type K:

-40 °C ... 1.100 °C

(-40 °F ...2.012 °F)

Type J:

-40 °C ...750 °C

(-40 °F ...1.382 °F)

Max. process pressure (static)at 20 °C: 50 bar (725 psi)

Accuracyclass 1 acc. to IEC 60584

Response time

depending on configuration

t50 = 6 s

t90 = 13 s

Integration head transmitteryes (4 ... 20 mA; HART; PROFIBUS PA; FOUNDATION
FIELDBUS)

Thermometer

Ex - approvals

ATEX II

ATEX IECEX

NEPSI

IECEX Ex

EAC Ex

Certification

Gost Metrology

SIL (transmitter only)

Thông tin bổ sung www.apsc.endress.com/TC13