

TC13

Modular TC thermometer

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



Lisätietoja ja ajankohtainen hinnasto:

www.fi.endress.com/TC13

Edut:

- 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™

Tärkeimmät tekniset tiedot

- **Accuracy** class 1 acc. to IEC 60584
- **Response time** depending on configuration $t_{50} = 6 \text{ s}$ $t_{90} = 13 \text{ s}$
- **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")

Käyttöalue: 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.

Ominaisuudet ja tiedot

Thermometer

Mittausperiaate

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")

Material protection tube/ thermowell

1.4404 (316L)
1.4571 (316Ti)
Alloy 600 (2.4816)
Alloy C276 (2.4819)

Optional coating

Not defined

Thermometer

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.)

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)

Accuracy

class 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)

Lisätietoja www.fi.endress.com/TC13