

TC12

Modular TC thermometer

Comprehensive and common temperature measurement technology for almost all branches of industry



Daha fazla bilgi ve güncel fiyatlandırma:

www.tr.endress.com/TC12

Avantajlar:

- 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
- Fast response time with reduced/tapered tip form
- Types of protection for use in hazardous locations: Intrinsic safety (Ex i.a.), non-sparking (Ex nA)
- Head transmitter with easy selection: Analog output 4 to 20 mA, HART®, PROFIBUS® PA or FOUNDATION Fieldbus™

Özelliklere genel bakış

- **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: 40 bar (580 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")

Uygulama alanı: 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.

Özellikler ve şartlar

Thermometer

Measuring principle

Thermocouple

Characteristic / Application

metric style

modular temperature assembly

universal range of application

suitable for hazardous areas

process connection as compression fitting

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

compression fitting:

G1/2"

G1"

R1/2"

R3/4"

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: 40 bar (580 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

EAC Ex

Certification

Gost Metrology

SIL (transmitter only)

Ayrıntılı bilgi www.tr.endress.com/TC12