

Thermocouple TC61



Yderligere oplysninger og aktuel pris::

www.dk.endress.com/TC61

Fordele:

- Types of protection for use in hazardous locations: Intrinsic safety (Ex i.a.), flameproof (Ex d), non-sparking (Ex nA)
- 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
- High degree of flexibility thanks to modular design with standard terminal heads as per DIN EN 50446 and customer-specific immersion lengths

Oversigt over specifikationer

- **Accuracy** class 1 acc. to IEC 60584
- **Response time** depending on configuration $t_{50} = 3 \text{ s}$ $t_{90} = 7 \text{ s}$
- **Max. process pressure (static)** at 20 °C: 100 bar (1.450 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")

Anvendelsesområde: The robust thermometer is designed for use in demanding and safety relevant applications e.g. in the Chemical, Oil & Gas and Energy industry. Harsh environments, corrosive substances and highest pressures can be handled by the use of robust protection tubes and special materials. 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. Flexible configuration possible.

Funktioner og specifikationer

Thermometer

Measuring principle

Thermometer

Characteristic / Application

metric style
modular temperature assembly
for heavy duty applications
suitable for hazardous areas
with 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

male thread:

G1/2"

G3/4"

G1"

NPT1/2"

NPT3/4"

M20x1,5

compression fitting:

G1/2"

G1"

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: 100 bar (1.450 psi)

Thermometer

Accuracyclass 1 acc. to IEC 60584

Response time

depending on configuration

t50 = 3 s

t90 = 7 s

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

Ex - approvals

ATEX II

IECEX

NEPSI

EAC Ex

Explosion proof

Certification

Gost Metrology

SIL (transmitter only)

Yderligere information www.dk.endress.com/TC61