

TR66

Explosion-proof Pt100 Thermometer

Safe monitoring of process temperatures in challenging applications e. g. in the Oil & Gas industry



Thông tin thêm và mức tính giá hiện tại:

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Lợi ích:

- 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
- Marine approval

Tổng quan về thông số kỹ thuật

- **Accuracy** class A acc. to IEC 60751 class AA acc. to IEC 60751
- **Response time** depending on configuration
- **Max. process pressure (static)** at 20 °C: 500 bar (7.252 psi)
- **Operating temperature range** PT100 TF StrongSens: -50 °C ...500 °C (-58 °F ...932 °F) PT100 WW: -200 °C ...600 °C (-328 °F ...1.112 °F) PT100 TF: -50 °C ...400 °C (-58 °F ...752 °F)
- **Max. immersion length on request** up to 5.000,00 mm (196,85")

Phạm vi ứng dụng: 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.

Tín năng và thông số kỹ thuật

Thermometer

Measuring principle

Resistance Temperature Detector

Characteristic / Application

US style metric

modular temperature assembly

for heavy duty applications

suitable for hazardous areas

suitable for high process pressures

threaded process connection

with neck

incl. thermowell / protection tube (metal)

Thermowell / protection tube

bar stock (drilled)

Insert / probe

mineral insulated (MI), flexible

Outer diameter protection tube / Insert

20 mm (0,79")

24 mm (0,94")

25 mm (0,98")

Thermometer

Max. immersion length on request
up to 5.000,00 mm (196,85")

Material protection tube/ thermowell

1.4401 (316)

1.4404 (316L)

1.4571 (316Ti)

AlloyC276

Alloy600

Optional coating

Not defined

Thermometer

Process connection

male thread:

NPT3/4"

NPT1"

flange:

ASME 1" 150 RF (B16.5)

ASME 1" 300 RF (B16.5)

ASME 1" 600 RF (B16.5)

ASME 1,5" 150 RF (B16.5)

ASME 1,5" 300 RF (B16.5)

ASME 1,5" 600 RF (B16.5)

ASME 2" 300 RF (B16.5)

ASME 2" 600 RF (B16.5)

Tip shape

tapered

Surface roughness Ra1,6 µm (63,0 µin.)

Thermometer**Operating temperature range**

PT100 TF StrongSens:

-50 °C ...500 °C

(-58 °F ...932 °F)

PT100 WW:

-200 °C ...600 °C

(-328 °F ...1.112 °F)

PT100 TF:

-50 °C ...400 °C

(-58 °F ...752 °F)

Max. process pressure (static)

at 20 °C: 500 bar (7.252 psi)

Accuracy

class A acc. to IEC 60751

class AA acc. to IEC 60751

Response time

depending on configuration

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

Thermometer

Ex - approvals

ATEX II

IECEX

NEPSI

EAC Ex

Explosion proof

Certification

Gost Metrology

SIL (transmitter only)

Marine approval

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