

TR65

Explosion-proof Pt100 Thermometer

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



Mais informações e preço atual:

www.pt.endress.com/TR65

Benefícios:

- 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
- High degree of flexibility thanks to modular design with standard terminal heads as per DIN EN 50446 and customer-specific immersion lengths

Especificações resumidas

- **Accuracy** class A acc. to IEC 60751 class AA acc. to IEC 60751
- **Response time** $t_{50} = 2$ s $t_{90} = 5$ s
- **Max. process pressure (static)** at 20 °C: 80 bar (1.160 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 30.000,00 mm (1.181,10")

Campo de aplicação: The robust thermometer designed for use in demanding and safety relevant applications e.g. in the Chemical, Oil & Gas and Energy industry. 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. The sensor may be used in direct contact without thermowell or where the application requires it, spring load inside of a separate thermowell. Flexible configuration possible.

Características e especificações

Thermometer

Measuring principle

Resistance Temperature Detector

Characteristic / Application

metric style
modular temperature assembly
for heavy duty applications
suitable for hazardous areas
threaded process connection
without neck

Thermowell / protection tube

without (not intended to use with thermowell)

Insert / probe

mineral insulated (MI), flexible

Outer diameter protection tube / Insert

3,0 mm (0,12")

6,0 mm (0,24")

Max. immersion length on request

up to 30.000,00 mm (1.181,10")

Material protection tube/ thermowell

1.4404 (316L)

Process connection

male thread:

NPT1/2"

NPT3/4"

M20x1,5

compression fitting:

NPT1/2"

NPT3/4"

Thermometer

Tip shape

straight

Surface roughness Ra

Not defined

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: 80 bar (1.160 psi)

Accuracy

class A acc. to IEC 60751

class AA acc. to IEC 60751

Response timet₅₀ = 2 st₉₀ = 5 s**Integration head transmitter**yes (4 ... 20 mA; HART; PROFIBUS PA; FOUNDATION
FIELDBUS)**Ex - approvals**

ATEX II

IECEX

NEPSI

EAC Ex

Explosion proof

Thermometer

Certification

Gost Metrology

SIL (transmitter only)

Mais informações www.pt.endress.com/TR65