

TR65

Explosion-proof Pt100 Thermometer

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



Daha fazla bilgi ve güncel fiyatlandırma:

www.tr.endress.com/TR65

Avantajlar:

- 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

Özelliklere genel bakış

- **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")

Uygulama alanı: 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.

Özellikler ve şartlar

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)

Thermometer**Process connection**

male thread:

NPT1/2"

NPT3/4"

M20x1,5

compression fitting:

NPT1/2"

NPT3/4"

Tip shape

straight

Surface roughness RaNot defined

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: 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 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)

Ayrıntılı bilgi www.tr.endress.com/TR65