

RTD Thermometer TST41N



More information and current pricing:

www.fi.endress.com/TST41N

Benefits:

- 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
- Head transmitter with easy selection: Analog output 4 to 20 mA, HART®, PROFIBUS® PA or FOUNDATION Fieldbus™

Specs at a glance

- **Accuracy** class A acc. to IEC 60751 class AA acc. to IEC 60751
- **Response time** depending on configuration $t_{50} = 3 \text{ s}$ $t_{90} = 6 \text{ s}$
- **Max. process pressure (static)** at 20 °C: 20 bar (290 psi)
- **Operating temperature range** PT 100: -50 °C ... 600 °C (-58 °F ... 1.112 °F)
- **Max. immersion length on request** up to 10.000,00 mm (393,70")

Field of application: The thermometer is mainly used in the chemical industry but also finds its use in other branches. The device with head transmitter is a complete unit ready for use with enhanced measurement accuracy and reliability compared to directly wired sensors. A variety of process connections, dimensions and materials offer flexible application possibilities.

Features and specifications

Thermometer

Measuring principle

Resistance Temperature Detector

Thermometer**Characteristic / Application**

metric style
modular temperature assembly
fast response time (reduced/tapered tip)
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

6,0 mm (0,24")

9,0 mm (0,35")

Max. immersion length on request

up to 10.000,00 mm (393,70")

Material protection tube/ thermowell

1.4404 (316L)

Process connection

male thread:

G1/2"

G3/4"

G1"

NPT1/2"

NPT3/4"

NPT1"

M20x1.5

Tip shape

reduced

Surface roughness Ra

0,8 µm (31,5 µin.)

Thermometer**Operating temperature range**

PT 100:

-50 °C ... 600 °C

(-58 °F ... 1.112 °F)

Max. process pressure (static)at 20 °C: 20 bar (290 psi)

Accuracy

class A acc. to IEC 60751

class AA acc. to IEC 60751

Response time

depending on configuration

t₅₀ = 3 st₉₀ = 6 s

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

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