

## RTD Thermometer TST41N



More information and current pricing:

[www.au.endress.com/TST41N](http://www.au.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

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**Thermometer****Characteristic / Application**

metric style  
modular temperature assembly  
fast response time (reduced/tapered tip)  
threaded process connection  
without neck

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**Thermowell / protection tube**

without (not intended to use with thermowell)

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**Insert / probe**

mineral insulated (MI), flexible

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**Outer diameter protection tube / Insert**

6,0 mm (0,24")

9,0 mm (0,35")

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**Max. immersion length on request**

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

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**Material protection tube/ thermowell**

1.4404 (316L)

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**Process connection**

male thread:

G1/2"

G3/4"

G1"

NPT1/2"

NPT3/4"

NPT1"

M20x1.5

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**Tip shape**

reduced

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**Surface roughness Ra**

0,8 µm (31,5 µin.)

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## Thermometer

**Operating temperature range**

PT 100:

-50 °C ... 600 °C

(-58 °F ... 1.112 °F)

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

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**Accuracy**

class A acc. to IEC 60751

class AA acc. to IEC 60751

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**Response time**

depending on configuration

t50 = 3 s

t90 = 6 s

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**Integration head transmitter**yes (4 ... 20 mA; HART; PROFIBUS PA; FOUNDATION  
FIELDBUS)

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