

## RTD Thermometer TST40N



More information and current pricing:

[www.fi.endress.com/TST40N](http://www.fi.endress.com/TST40N)

### 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 high modular and robust thermometer finds its use in several applications in almost all industries. 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. A variety of process connections, dimensions and materials offers flexible application possibilities.

### Features and specifications

Thermometer

Measuring principle

Resistance Temperature Detector

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

metric style  
modular temperature assembly  
fast response time (reduced/tapered tip)  
threaded process connection  
with 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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**Certification**SIL (transmitter only)

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