RTD Thermometer 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 t50 = 3 s t90 = 6 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

<table>
<thead>
<tr>
<th>Thermometer</th>
<th>Measuring principle</th>
</tr>
</thead>
</table>

More information and current pricing: [www.us.endress.com/TST40N](http://www.us.endress.com/TST40N)
**Thermometer**

**Characteristic / Application**
- metric style
- modular temperature assembly
- fast response time (reduced/tapered tip)
- threaded process connection
- with 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 s
t90 = 6 s

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

Certification
SIL (transmitter only)

More information www.us.endress.com/TST40N