RTD Thermometer 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 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 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**

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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 s
t90 = 6 s

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

More information www.endress.com/TST41N