TST41N
Modular RTD thermometer

Comprehensive and common temperature measurement technology for almost all branches of industry

More information and current pricing:
www.in.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 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

Thermometer

Measuring principle
Resistance Temperature Detector

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

Thermometer

Surface roughness Ra
0,8 µm (31,5 µin.)

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.in.endress.com/TST41N**

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