

RTD Thermometer TST414



More information and current pricing:

www.it.endress.com/TST414

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

Specs at a glance

- **Accuracy** class A acc. to IEC 60751 class B acc. to IEC 60751
- **Response time** $t_{50} = 10\text{ s}$ $t_{90} = 30\text{ s}$
- **Max. process pressure (static)** at 20 °C: 50 bar (725 psi)
- **Operating temperature range** PT 100: -50 °C ...400 °C (-58 °F ...752 °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. Typical applications are processes where no strong flow is present. The device is supplied with a pocket which protects it from chemical corrosion and allows an easy replacement of the thermometer.

Features and specifications

Thermometer

Measuring principle

Thermometer**Characteristic / Application**

metric style
modular temperature assembly
fast response time
threaded process connection
without neck
incl. thermowell / protection tube
(metal)
mini-head

Thermowell / protection tube

welded protection tube

Insert / probe

mineral insulated (MI), flexible

Outer diameter protection tube / Insert

4,5 mm (0,18")

Max. immersion length on request

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

Material protection tube/ thermowell

1.4571 (316Ti)

Process connection

male thread:
G1/2"

Tip shape

straight

Surface roughness Ra

1,6 µm (63,0 µin.)

Operating temperature range

PT 100:
-50 °C ...400 °C
(-58 °F ...752 °F)

Thermometer

Max. process pressure (static)
at 20 °C: 50 bar (725 psi)

Accuracy
class A acc. to IEC 60751
class B acc. to IEC 60751

Response time
t₅₀ = 10 s
t₉₀ = 30 s

Integration head transmitter
no

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