

TST414 Modular RTD thermometer

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



More information and current pricing:

www.us.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

Resistance Temperature Detector

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

Thermometer

Surface roughness Ra1,6 µm (63,0 µin.)

Operating temperature range

PT 100:

-50 °C ...400 °C

(-58 °F ...752 °F)

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 timet₅₀ = 10 st₉₀ = 30 s

Integration head transmitterno

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