

TST410

Modular RTD thermometer

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



More information and current pricing:

www.endress.com/TST410

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
- High accuracy and exceptional long-term stability

Specs at a glance

- **Accuracy** class A acc. to IEC 60751 class B acc. to IEC 60751
- **Response time** $t_{50} = 2 \text{ s}$ $t_{90} = 4 \text{ s}$
- **Max. process pressure (static)** at 20 °C: 40 bar (580 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 pressure-less systems such as air ducts, flues and pipelines. For protection against high industrial demands the use of a special protective sleeve is recommended. A variety of dimensions offers flexible application possibilities.

Features and specifications

Thermometer**Measuring principle**Resistance Temperature Detector

Characteristic / Application

metric style

modular temperature assembly

process connection as compression fitting

without neck

mini-head

Thermowell / protection tubewithout (not intended to use with thermowell)

Insert / probemineral insulated (MI), flexible

Outer diameter protection tube / Insert3,0 mm (0,12")

Max. immersion length on requestup to 10.000,00 mm (393,70")

Material protection tube/ thermowell1.4401 (316)

Process connection

compression fitting:

G1/4"

Tip shapestraight

Thermometer

Operating temperature range

PT 100:

-50 °C ...400 °C

(-58 °F ...752 °F)

Max. process pressure (static)at 20 °C: 40 bar (580 psi)

Accuracy

class A acc. to IEC 60751

class B acc. to IEC 60751

Response time

t50 = 2 s

t90 = 4 s

Integration head transmitterno

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