# **TST90** Modular RTD thermometer

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



More information and current pricing:

www.endress.com/TST90

#### **Benefits:**

- Fast replaceability of the insert
- High degree of insert compatibility and design as per DIN 43772
- Fast response time with reduced tip

# Specs at a glance

- Accuracy +/- 0.05 K (referring to delta-T)
- **Response time** depending on configuration t50 = 10 s t90 = 31 s
- Max. process pressure (static) at 20 °C: 50 bar (725 psi)
- Operating temperature range PT 100: -50 °C ...200 °C (-58 °F ...392 °F)
- Max. immersion length on request up to 4.000,00 mm (157,48")

**Field of application:** The thermometer is mainly used in the chemical industry but also finds its use in other branches. The device is used for high-precision measurement of temperature differences with matched sensor pairs. A variety of dimensions offers flexible application possibilities.

# Features and specifications

#### Thermometer

#### Measuring principle

Resistance Temperature Detector

# Thermometer

# Characteristic / Application

metric style
modular temperature assembly (paired)
threaded process connection
with neck
incl. thermowell / protection tube
(metal)

# Thermowell / protection tube

welded protection tube

#### Insert / probe

mineral insulated (MI), flexible

# Outer diameter protection tube / Insert

9,0 mm (0,35")

#### Max. immersion length on request

up to 4.000,00 mm (157,48")

#### Material protection tube/ thermowell

1.4571 (316Ti)

#### **Optional coating**

Not defined

#### **Process connection**

male thread:

G1/2"

#### Tip shape

straight

tapered

#### Surface roughness Ra

Not defined

# Thermometer

# Operating temperature range

PT 100:

-50 °C ...200 °C

(-58 °F ...392 °F)

# Max. process pressure (static)

at 20 °C: 50 bar (725 psi)

#### Accuracy

+/- 0.05 K (refering to delta-T)

#### Response time

depending on configuration

t50 = 10 s

t90 = 31 s

# Integration head transmitter

no

More information www.endress.com/TST90

