

iTHERM ModuLine TST90

Industrial modular thermometer

Paired set of metric RTD thermometers for thermal energy measurements



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 $t_{50} = 10\text{ s}$ $t_{90} = 31\text{ s}$
- **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 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 ...400 °C

(-58 °F ...752 °F)

Max. process pressure (static)

at 20 °C: 50 bar (725 psi)

Accuracy

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

Response time

depending on configuration

t50 = 10 s

t90 = 31 s

Integration head transmitter

no

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