

MLTTS01

Modular thermometer with RTD or TC insert

Designed for use in the Oil & Gas industry, with flanged process connection and an extension neck



More information and current pricing:

www.endress.com/MLTTS01

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
- Extension neck to protect the head transmitter from overheating
- Fast response time with reduced tip form
- Types of protection for use in hazardous locations: Intrinsic Safety (Ex ia)

Specs at a glance

- **Accuracy** RTD Class A acc. to IEC 60751 TC class 1 acc. To EN 60584
- **Response time** depending on configuration
- **Max. process pressure (static)** depending on configuration
- **Operating temperature range** PT100: -50...500°C TC up to 600°C
- **Max. immersion length on request** Not defined

Field of application: The modular and robust thermometer finds its use especially in the Oil & Gas industry. Harsh environments, corrosive substances and high pressures can be handled by the use of robust thermowells and special materials. An optional head transmitter, with all common communication protocols, makes the device ready to use with enhanced measurement accuracy and reliability compared to directly wired sensors. The thermometer can be ordered either with resistance (RTD) or with thermocouple (TC) insert.

Features and specifications

Thermometer

Measuring principle

Resistance Temperature Detector

Characteristic / Application

metric style
modular temperature assembly
universal range of application
suitable for hazardous areas
suitable for high process pressures
flanged process connection
incl. protection tube
with neck
usable with insert StrongSens

Thermowell / protection tube

incl. protection tube

Insert / probe

mineral insulated (MI), flexible

Outer diameter protection tube / Insert

16mm (0,71")

Max. immersion length on request

Not defined

Material protection tube/ thermowell

1.4571

Process connection

Flange DN25 PN40 B1 EN1092-1
Flange DN25 PN63 B2 EN1092-1

Tip shape

Reduced 12x7x50

Thermometer

Operating temperature range

PT100: -50...500°C

TC up to 600°C

Max. process pressure (static)depending on configuration

Accuracy

RTD Class A acc. to IEC 60751

TC class 1 acc. To EN 60584

Response timedepending on configuration

Integration head transmitteryes (4 ... 20 mA HART; PROFIBUS PA; FOUNDATION
FIELDBUS)

Ex - approvalsATEX Ex ia

CertificationNot defined

More information www.endress.com/MLTTS01