

# 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.de.endress.com/MLTTS01](http://www.de.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 time**depending on configuration

---

**Integration head transmitter**yes (4 ... 20 mA HART; PROFIBUS PA; FOUNDATION  
FIELDBUS)

---

**Ex - approvals**ATEX II1G Ex ia IIC T6

---

**Certification**Not defined

---

More information [www.de.endress.com/MLTTS01](http://www.de.endress.com/MLTTS01)