# TMT162C TC Thermometer, field transmitter,display

Safe monitoring of process temperatures in challenging applications e.g. in the Oil & Gas industry

# Benefits:

- Dual compartment housing
- Backlit display with large measured value, bar graph and fault condition indication
- Galvanic isolation 2 kV (sensor input to the output)
- Wide range of threaded thermowell connections available as standard
- Replaceable measuring insert comprising a mineral insulated tube (SS 316L/1.4404)
- Approvals for hazardous areas: Flameproof enclosure (Ex d), Intrinsic safety (Ex ia), Non-sparking (Ex nA)
- Aluminum or stainless steel housing, degree of protection IP67, NEMA 4x

# Specs at a glance

- Accuracy class 1 acc. to IEC 60584 class 2 acc. to IEC 60584
- **Response time** depending on configuration t50 = 3 s t90 = 7 s
- Max. process pressure (static) up to 20 °C: 480 bar (6.962 psi)
- Operating temperature range Type K: -40 °C ...800 °C (-40 °F ...1.472 °F) Type J: -40 °C ...750 °C (-40 °F ...1.382 °F)
- Max. immersion length on request up to 30.000,00 mm (1.181,10")

**Field of application:** The robust thermometer is designed for use in demanding and safety relevant applications e.g. in the Chemical, Oil & Gas and Energy industry. The thermometer fulfills the corresponding safety requirements due to various certificates and tests. The use of a

Endress+Hauser



More information and current pricing: www.endress.com/TMT162C

transmitter leads to higher accuracy and reliability in comparison to directly wired sensors.

# Features and specifications

### Thermometer

Measuring principle Thermocouple

Characteristic / Application

US style modular temperature assembly for heavy duty applications suitable for hazardous areas with neck to use with thermowell backlit display

Thermowell / protection tube to use with thermowell

Insert / probe mineral insulated (MI), flexible

**Outer diameter protection tube / Insert** 6,0 mm (0,24")

**Max. immersion length on request** up to 30.000,00 mm (1.181,10")

Material protection tube/ thermowell Not defined

**Optional coating** Not defined

## Thermometer

#### **Process connection**

male thread: G1/2" NPT1/2" NPT3/4" M24x1.5

#### Tip shape

straight

#### Operating temperature range

Type K: -40 °C ...800 °C (-40 °F ...1.472 °F) Type J: -40 °C ...750 °C (-40 °F ...1.382 °F)

#### Max. process pressure (static)

up to 20 °C: 480 bar (6.962 psi)

#### Accuracy

class 1 acc. to IEC 60584 class 2 acc. to IEC 60584

#### Response time

depending on configuration t50 = 3 st90 = 7 s

#### Integration head transmitter

yes (4 ... 20 mA; HART; PROFIBUS PA; FOUNDATION FIELDBUS)

## Ex - approvals

ATEX II ATEX Eex explosion proof Thermometer

Certification

Gost Metrology

More information www.endress.com/TMT162C

