

RTD Thermometer TMT162R



More information and current pricing:

www.ca.endress.com/TMT162R

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); marine approval
- Aluminum or stainless steel housing, degree of protection IP67, NEMA 4x

Specs at a glance

- **Accuracy** class A acc. to IEC 60751 class AA acc. to IEC 60751
- **Response time** depending on configuration $t_{50} = 4 \text{ s}$ $t_{90} = 8 \text{ s}$
- **Max. process pressure (static)** at 20 °C: 500 bar (7.252 psi)
- **Operating temperature range** PT 100: -200 °C ...600 °C (-328 °F ... 1.112 °F)
- **Max. immersion length on request** Not defined

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

Features and specifications

Thermometer

Measuring principle

Resistance Temperature Detector

Thermometer

Characteristic / Application

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

Thermowell / protection tube

to be used with thermowell

Insert / probe

mineral insulated (MI), flexible

Outer diameter protection tube / Insert

Insert Diameter
6,0 mm (0,24")

Max. immersion length on request

Not defined

Material protection tube/ thermowell

Not defined

Optional coating

Not defined

Process connection

Thermowell connection
male thread:
G1/2"
NPT1/2"
NPT3/4"
cap nut:
NPT1/2"
M24x1.5

Thermometer

Tip shapeNot defined

Surface roughness RaNot defined

Operating temperature range

PT 100:

-200 °C ...600 °C

(-328 °F ... 1.112 °F)

Max. process pressure (static)at 20 °C: 500 bar (7.252 psi)

Accuracy

class A acc. to IEC 60751

class AA acc. to IEC 60751

Response time

depending on configuration

t₅₀ = 4 st₉₀ = 8 s

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

Thermometer

Ex - approvals

general purpose
ATEX II1G Ex ia IIC T6
ATEX II2G Ex d IIC T6, II2D
ATEX Ex d, Ex ia
ATEX II 3G EEx nA IIC T4/T5/T6
ATEX II1/2G Ex d IIC T6, II1/2D
ATEX Ex d, Ex ia
ATEX II1G Ex ia IIC T6
ATEX II2G Ex d IIC T6, II2D
ATEX II1/2G Ex d IIC T6, II1/2D
ATEX II1/2G Ex ia IIC T6, II1/2D Ex
EAC Ga/Gb Ex ia IIC, Ex ia IIIC Da/Db
EAC Ga/Gb Ex d IIC, Ex ta/tb IIIC Da/Db
EAC Ga/Gb Ex ia IIC, Ex ia IIIC Da/Db
EAC Ga/Gb Ex d IIC, Ex ta/tb IIIC Da/Db
Explosion proof

Certification

Gost Metrology
Marine approval

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