

T15

Explosion proof RTD thermometer, US style

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



Benefits:

- FM/CSA XP Class I, Div. 1 approved temperature assemblies for maximum safety
- One source shopping for temperature measurement solutions. World class transmitter with integrated sensor offering for heavy process industry applications
- Remove and install straight out of the box!
- Improved galvanic isolation on most devices (2 kV)
- Simplified model structure: Competitively priced, offers great value. Easy to order and reorder. A single model number includes sensor, thermowell and transmitter assembly for a complete point solution
- All iTEMP transmitters provide long term stability $\leq 0.05\%$ per year

More information and current pricing:

www.endress.com/T15

Specs at a glance

- **Accuracy** class A acc. to IEC 60751 class B acc. to IEC 60751
- **Response time** 63% $t_r = 3$ s
- **Max. process pressure (static)** Not applicable
- **Operating temperature range** PT100 WW: $-200^{\circ}\text{C} \dots 600^{\circ}\text{C}$ ($-328^{\circ}\text{F} \dots 1.112^{\circ}\text{F}$) PT100 TF: $-50^{\circ}\text{C} \dots 200^{\circ}\text{C}$ ($-58^{\circ}\text{F} \dots 392^{\circ}\text{F}$)
- **Max. immersion length on request** up to 100" (2540 mm) others on request

Field of application: The robust device is a unit ready for use within and existing thermowell and includes various housing transmitter heads to meet the application and space requirement needs. The unit offers enhanced measurement accuracy and reliability. A variety of connections,

dimensions and materials (like 316L SS and Hastelloy C276) offer flexible application possibilities.

Features and specifications

Thermometer

Measuring principle

Resistance Temperature Detector

Characteristic / Application

Explosion Proof US style
modular temperature assembly
for heavy duty applications
with extension
to be used with existing thermowell

Thermowell / protection tube

to be used with thermowell

Insert / probe

mineral insulated (MI), flexible
PTFE-insulated, rigid

Outer diameter protection tube / Insert

Not applicable

Max. immersion length on request

up to 100" (2540 mm)
others on request

Material protection tube/ thermowell

Sensor sheath
316/316L

Optional coating

Not defined

Process connection

male thread:
NPT1/2"

Thermometer

Tip shapestraight

Surface roughness RaNot defined

Operating temperature range

PT100 WW:

-200 °C ... 600 °C

(-328 °F ... 1.112 °F)

PT100 TF:

-50 °C ... 200 °C

(-58 °F ... 392 °F)

Max. process pressure (static)Not applicable

Accuracy

class A acc. to IEC 60751

class B acc. to IEC 60751

Response time63% rt = 3 s

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

Ex - approvals

FM XP DIP

FM XP NI DIP

CSA XP DIP

CSA XP NI DIP

FM/CSA XP DIP

FM/CSA XP NI DIP

CSA C/US XP, DIP

cCSAus General Purpose

Thermometer

Certification

SIL (transmitter only)

More information www.endress.com/T15