

TH15

Modular RTD thermometer, US style

Best in class temperature measurement for general applications



Benefits:

- High flexibility due to modular assembly with standard terminal heads and customized immersion length
- 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 and transmitter assembly for a complete point solution
- All iTEMP® transmitters provide long term stability ≤ 0.05 % per year
- Fast response time with reduced/tapered tip form
- Head transmitter with easy selection: Analog output 4 to 20 mA, HART®, PROFIBUS® PA or FOUNDATION Fieldbus™

More information and current pricing:

www.endress.com/TH15

Specs at a glance

- **Accuracy** class A acc. to IEC 60751 class B acc. to IEC 60751
- **Max. process pressure (static)** class AA acc. to IEC 60751 class A acc. to IEC 60751 class B acc. to IEC 60751
- **Operating temperature range** PT100 WW: -200 °C ... 600 °C (-328 °F ... 1.112 °F) iTHERM StrongSens: -50 °C ... 500 °C (-58 °F ... 932 °F) PT100 TF: -50 °C ... 200 °C (-58 °F ... 392 °F)
- **Max. immersion length on request** up to 41" (1041 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

Industrial US style
modular temperature assembly
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

Insert 1/4" (6,35 mm)

Max. immersion length on request

up to 41" (1041 mm)
others on request

Material protection tube/ thermowell

Sensor sheath
316/316L

Optional coating

Not applicable

Thermometer**Process connection**

Schutzrohranschluss

Außen-Gewinde:

NPT1/2"

1-1/4"-18 UNEF

Tip shape

straight

Surface roughness Ra

Not defined

Operating temperature range

PT100 WW:

-200 °C ... 600 °C

(-328 °F ... 1.112 °F)

iTHERM StrongSens:

-50 °C ... 500 °C

(-58 °F ... 932 °F)

PT100 TF:

-50 °C ... 200 °C

(-58 °F ... 392 °F)

Max. process pressure (static)

class AA acc. to IEC 60751

class A acc. to IEC 60751

class B acc. to IEC 60751

Accuracy

class A acc. to IEC 60751

class B acc. to IEC 60751

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

Thermometer

Ex - approvals

transmitter only

FM IS

CSA IS

FM/CSA IS

Certification

SIL (transmitter only)

More information www.endress.com/TH15