TH11 Modular RTD thermometer, US style

Best in class temperature measurement technology 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 or field transmitter with easy selection: Analog output 4 to 20 mA, HART[®], PROFIBUS[®] PA or FOUNDATION Fieldbus[™]

Specs at a glance

- Accuracy class A acc. to IEC 60751 class B acc. to IEC 60751
- **Response time** 63% rt = 2,0 s
- Max. process pressure (static) at 20°C: 250 bar (3.626 psi) depends on configuration
- Operating temperature range PT 100: -200 °C ...600 °C -328
 °F ...1.112 °F)
- Max. immersion length on request up to 96" (2439 mm) others on request

Field of application: The high modular thermometer is used for several applications in almost all industries. Examples are heat exchangers, dryers, process reactors, reactor stations, etc. With different head transmitter it's a complete unit ready for use with enhanced





More information and current pricing: www.endress.com/TH11

measurement accuracy and reliability. It also enables very fast response times, due to direct contact measurement without thermowell. A variety of process connections and dimensions offer flexible application possibilities.

Features and specifications

Thermometer

Measuring principle Resistance Temperature Detector

Characteristic / Application US style modular temperature assembly threaded process connection direct immersion style

Thermowell / protection tube

without (not intended to be used with thermowell)

Insert / probe mineral insulated (MI), flexible PTFE-insulated, rigid

Outer diameter protection tube / Insert

1/8" (3,18 mm) 3/16"(4,76 mm) 1/4" (6,35 mm) 3/8" (9,53 mm)

Max. immersion length on request up to 96" (2439 mm) others on request

Material protection tube/ thermowell Sensor sheath 316/316L

Thermometer

Process connection

male thread: G1/2" NPT1/2" compression fitting: NPT1/8" NPT1/4"

Tip shape

straight reduced

Surface roughness Ra

Not defined

Operating temperature range

PT 100: -200 ℃ ...600 ℃ -328 ℉ ...1.112 ℉)

Max. process pressure (static)

at 20°C: 250 bar (3.626 psi) depends on configuration

Accuracy

class A acc. to IEC 60751 class B acc. to IEC 60751

Response time

63% rt = 2,0 s

Integration head transmitter

yes (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/TH11

