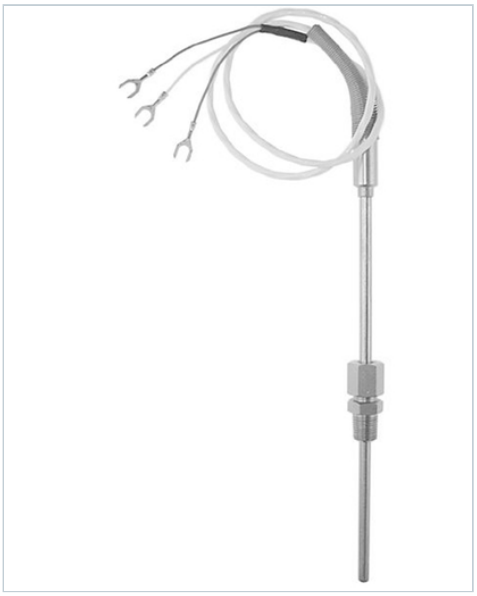
TH12
US style RTD sensor, cable probe

Cost efficient RTD sensor designed for use in the process industry or factory automation



More information and current pricing:
www.endress.com/TH12

Benefits:

- High flexibility due to customized immersion length
- Fast response time with reduced/tapered tip form
- Simplified model structure: Competitively priced, offers great value. Easy to order and reorder
- Improved galvanic isolation on most devices (2 kV)

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: 40 bar (580 psi) depends on configuration
- **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. immersion length on request** up to 96" (2439 mm) others on request

Field of application: The Pt100 cable probe is easy to install and provide a high operational safety due to reliable and accurate temperature measurement in common processes. Without additional thermowell the probe sheath is directly in contact with the process medium. This enables the cable probe to detect rapid temperature changes fast and accurate.

Features and specifications

Thermometer

Measuring principle
Resistance Temperature Detector

Thermometer

Characteristic / Application
US style
cable probe
process connection as compression fitting
without neck

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

Optional coating
Not applicable

Process connection
compression fitting:
NPT1/8"
NPT1/4"

Tip shape
straight
reduced

Thermometer

Surface roughness Ra
Not 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)
at 20 °C: 40 bar (580 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
Not applicable

More information **www.endress.com/TH12**