TR88
Modular RTD thermometer

Comprehensive and common temperature measurement technology for almost all branches of industry

More information and current pricing:

www.uk.endress.com/TR88

Benefits:

- High degree of flexibility thanks to modular design with standard terminal heads as per DIN EN 50446 and customer-specific immersion lengths
- Variable total length in suitable thermowells thanks to compression fitting on extension neck
- Types of protection for use in hazardous locations: Intrinsic safety (Ex i.a.), non-sparking (Ex nA)
- Head 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 AA acc. to IEC 60751
- **Response time** depending on configuration
- **Max. process pressure (static)** depending on Thermowell
- **Operating temperature range** PT100 TF StrongSens: -50 ℃ …500 ℃ (-58 ℉ …932 ℉) PT100 WW: -200 ℃ …600 ℃ (-328 ℉ …1.112 ℉) PT100 TF: -50 ℃ …400 ℃ (-58 ℉ …752 ℉)
- **Max. immersion length on request** up to 30.000,00 mm (1.181,10")

Field of application: The high modular and robust thermometer finds its use in several applications in almost all industries. An optional head transmitter, with all common communication protocols, makes the device ready to use with enhanced measurement accuracy and reliability compared to directly wired sensors. A variety of process connections, dimensions and materials offer flexible application possibilities.

Endress+Hauser

Features and specifications

Thermometer

Measuring principle
Resistance Temperature Detector

Characteristic / Application
metric style

modular temperature assembly

universal range of application

suitable for hazardous areas

with neck

to use with thermowell

usable with insert StrongSens

Thermowell / protection tube
to be used with thermowell

Insert / probe
mineral insulated (MI), flexible

Outer diameter protection tube / Insert
Insert Diameter

3,0 mm (0,12")

6,0 mm (0,24")

Max. immersion length on request
up to 30.000,00 mm (1.181,10")

Material protection tube/ thermowell
Not defined

Thermometer

Optional coating

Not defined

Process connection

Thermometer connection male thread:

G1/2"

NPT1/2"

M14x1.5

M18x1.5

M20x1,5

R3/4"

R1/2"

Tip shape

Not defined

Thermometer

Operating temperature range

PT100 TF StrongSens:

-50 °C ...500 °C

(-58 °F ...932 °F)

PT100 WW:

-200 °C ...600 °C

(-328 °F ...1.112 °F)

PT100 TF:

-50 °C ...400 °C

(-58 °F ...752 °F)

Max. process pressure (static)
depending on Thermowell

Accuracy
class A acc. to IEC 60751

class AA acc. to IEC 60751

Response time
depending on configuration

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

Thermometer

Ex - approvals

ATEX II

NEPSI

IECEx

EAC Ex

Certification

Gost Metrology

SIL (transmitter only)

More information **www.uk.endress.com/TR88**