

TR10

Modular RTD thermometer

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



Lisätietoja ja ajankohtainen hinnasto:

www.fi.endress.com/TR10

Edut:

- High degree of flexibility thanks to modular design with standard terminal heads as per DIN EN 50446 and customer-specific immersion lengths
- High degree of insert compatibility and design as per DIN 43772
- Extension neck to protect the head transmitter from overheating
- Fast response time with reduced/tapered tip form
- Types of protection for use in hazardous locations: Intrinsic safety (Ex ia), non-sparking (Ex nA)
- Head transmitter with easy selection: Analog output 4 to 20 mA, HART®, PROFIBUS® PA or FOUNDATION Fieldbus™

Tärkeimmät tekniset tiedot

- **Accuracy** class A acc. to IEC 60751 class AA acc. to IEC 60751
- **Response time** depending on configuration
- **Max. process pressure (static)** at 20 °C: 75 bar (1088 psi)
- **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. immersion length on request** up to 10.000,00 mm (393,70")

Käyttöalue: 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.

Ominaisuudet ja tiedot

Thermometer

Mittausperiaate

Resistance Temperature Detector

Characteristic / Application

metric style

modular temperature assembly

universal range of application

suitable for hazardous areas

threaded process connection

with neck

incl. thermowell / protection tube (metal)

can be used with StrongSens insert

Thermowell / protection tube

welded protection tube

Insert / probe

mineral insulated (MI), flexible

Outer diameter protection tube / Insert

9,0 mm (0,35")

11,0 mm (0,43")

12,0 mm (0,47")

14,0 mm (0,55")

15,0 mm (0,59")

Max. immersion length on request

up to 10.000,00 mm (393,70")

Thermometer

Material protection tube/ thermowell

1.4404 (316L)
1.4571 (316Ti)
Alloy C276 (2.4819)
Alloy 600 (2.4816)

Optional coating

Not defined

Process connection

male thread:
G1/2"
G3/4"
G1"
NPT1/2"
NPT3/4"
M20x1.5

Tip shape

straight
reduced
tapered

Surface roughness Ra

Not defined

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)

Thermometer

Max. process pressure (static)
at 20 °C: 75 bar (1088 psi)

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)

Ex - approvals
ATEX II
ATEX IECEX
NEPSI
IECEX
EAC Ex

Certification
Gost Metrology
SIL (transmitter only)

Lisätietoja www.fi.endress.com/TR10