RTD Thermometer omnigrad TST425

Medium duty - General purpose fiberglass insulated inset - not replaceable \varnothing 6 mm protecting tube with threaded process connection or adjustable fitting





















TST425 with threaded process connection

Description

TST425 RTD thermometer assembly includes a single Pt100 fiberglass insulated probe and a terminal head. The process connection can be selected both from threaded process connections and adjustable compression fittings.

Three terminal head versions according to DIN 43729 form B and a mignon type head are available.



TST425 with adjustable compression fitting

Application

TST425 is a general purpose RTD thermometer particularly suited to many light and medium duty applications either in vessels or pipes. It can be applied where pressure and temperature are not extreme and where the performance cost ratio is very important.

Quality made by Endress+Hauser







Technical data

Probe

Sensing element: Tolerances: Operating temperature: Wiring: Electrical connections: Inset: Sheath: Standard diameter:

Connection to process:

Response time values:

Platinum resistance, 1 x Pt100 Ω at 0°C, standard type class A or B to IEC 751 -50°C to 300°C 3 or 4 wire connections terminal board fiberglass insulated - not replaceable AISI 316Ti / W. 1.4571 6 mm G 1/4", G 1/2", 1/4" NPT or TA50 adjustable compression fitting (refer also to the Order key) according to IEC751, in moving water at 0.4 m/s T₅₀ = 17 s ; T₉₀ = 45 s









Terminal head

TA20A Dimensions: Protection grade: Max. temperature: Material:

Cable entry: Thermowell entry: Body colour: Cap colour: Weight:

TA20B

Dimensions: Protection grade: Max. temperature: Material: Cable entry: Thermowell entry: Body colour: Cap colour: Weight:

TA20L

Dimensions: Protection grade: Max. temperature: Material:

Cable entry Thermowell entry Body colour: Cap colour: Weight:

TA20P

Dimensions: Protection grade: Max. temperature: Body material: Cap material: Cable entry: Thermowell entry: Body colour: Cap colour: Weight: according to DIN 43729 form B IP55 130°C light alloy dye casting rubber gasket under the cover PG 16 + grey gland skintop M24 x 1.5 blue (RAL 5012), epoxy coated grey (RAL 7035), epoxy coated 180 g

according to DIN 43729 form B IP55 80°C polyamide PG 16 + grey gland skintop M24 x 1.5 black black 80 g

mignon type IP55 130°C light alloy dye casting-rubber gasket under the cover PG 9 M10 x 1 mm blue (RAL 5012), epoxy coated grey (RAL 7015), epoxy coated 75 g

according to DIN 43729 form B IP55 130°C light alloy with rubber gasket under the cover AISI316 PG 16 + grey gland skintop M24 x 1.5 blue (RAL 5012), epoxy coated grey epoxy coated or epoxy coated only 130 g

Mounting accessories

TA50 Threaded Compression Fitting

d = 6 mm D = G 1/4", 1/4" NPT Sealing ring Teflon: Tmax 200°C; Pmax 10 bar (at 20°C) Sealing ring in W.1.4401: Tmax 400°C; Pmax 40 bar (at 20°C)



Order key

 For a correct temperature measurement the thermometer nominal length must be 30 times the thermometer diameter. Shorter nominal lengths can be supplied but the thermometer requires an external (process connection and connection head) thermal insulation.

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Note (1) : Max. 200°C @ 10 bar.



sensing length ≥ 25 mm TST425 with

threaded process connection

adjustable compression fitting

Supplementary Documentation

□ TA20 terminal heads

- Technical Information TI072T/02/en
- TA fittings
 - Technical Information TI091T/02/en

Export Division

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