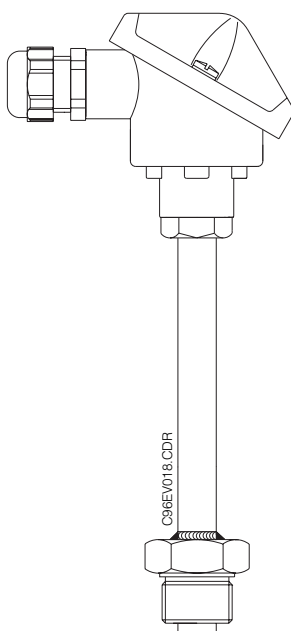


RTD Thermometer *omnigrad TST600*

**Special duty - Surface measurement
fiberglass insulated cable
with protecting tube and
fixed or adjustable fitting**



Description

TST600 RTD thermometer assembly includes a single Pt100 sensing element, in fiberglass insulated cable, a terminal head and a protecting tube. RTD standard type is available either with free wires for head transmitter mounting or with terminal board. The terminal head can be selected from a wide choice of standard items (see the order key or TA20 Technical Information for more details). The protecting tube is a 13 mm AISI316Ti pipe as standard; the neck length can be adapted to any plant conditions by selecting the appropriate extension.

Application

TST600 RTD thermometer is specially designed for surface measurements.

Technical data

Probe

Sensing element:

Tolerances:

Wiring:

Insulation resistance:

Electrical connections:

Stem:

Platinum resistance, 1 x Pt100 Ω at 0°C, standard type class A or B to IEC 751, 1/3 DIN B

3 or 4 wire connections

$\geq 100 \text{ M}\Omega$, test voltage 250 V at ambient temperature

terminal board or 150 mm free wires

Fiberglass

Protecting tube

Standard diameter:

Standard material:

Connection to head:

Operating temperature:

13 x 7 mm pipe

AISI316Ti / W.1.4571

M24 x 1.5

-20°C to +150°C

Connection to process

Versions:

threaded fittings

G 1/2" or M20 fixed fitting

G 1/2" adjustable fitting with PTFE element

Standard material:

AISI316 / W1.4401

Terminal head

Version:

Protection class:

Cable connection:

refer to Order key

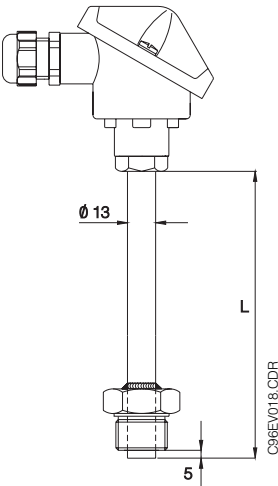
typical IP55

PG11, PG16, 1 or 2 x 1/2" NPT, 3/4" NPT depending on head version

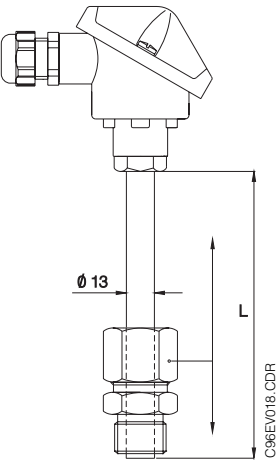


Order key

TST600 RTD Thermometer - Special duty - Surface measurement
Fiberglass insulated cable
With protecting tube and fixed or adjustable fitting



TST600
with fixed fitting



TST600
with adjustable fitting

Process Connection
D - Fixed threaded fitting G 1/2"
Z - Fixed threaded fitting M20
F - Adjustable threaded fitting G 1/2" element PTFE

L Length
1 - 80 mm (only for fixed threaded fitting)
2 - 150 mm
3 - 210 mm
9 - mm to specification

RTD class and type of construction
B - 1 Pt100, class B, 3 wires
E - 1 Pt100, class B, 4 wires
H - 1 Pt100, class A, 3 wires
M - 1 Pt100, class A, 4 wires
P - 1 Pt100, class 1/3 DIN, 3 wires
R - 1 Pt100, class 1/3 DIN, 4 wires
Y - RTD class and type to specification

Electrical connections
3 - Terminal board
5 - 150 mm free wires

Heads: neck connect., el. conn., mater., IP
A1 - TA20A: M24x1,5, Pg16, AI, IP55
A2 - TA20A: M24x1,5, 1/2" NPT, AI, IP55
A3 - TA20A: M24x1,5, Pg16, AI, IP68
B1 - TA20B: M24x1,5, Pg16, PA, IP55
C1 - TA20C: M24x1,5, Pg16, AI, IP65
C2 - TA20C: M24x1,5, 1/2" NPT, AI, IP55
C3 - TA20C: M24x1,5, 3/4" NPT, AI, IP55
C4 - TA20C: M24x1,5, 2x1/2" NPT, AI, IP55
C5 - TA20C: M24x1,5, Pg16, AI, IP65
C6 - TA20C: M24x1,5, 1/2" NPT, AI, IP55
C7 - TA20C: M24x1,5, 3/4" NPT, AI, IP55
C8 - TA20C: M24x1,5, 2x1/2" NPT, AI, IP55
D1 - TA20D: M24x1,5, Pg16, AI, IP55 Hing cap
D2 - TA20D: M24x1,5, 1/2"NPT, AI, IP55 Hing cap
E1 - TA20E: M24x1,5, Pg16, AI, IP55
F1 - TA20F: M24x1,5, Pg16, PP, IP55
M1 - TA20M: M24x1,5, Pg16, AI, IP55
P1 - TA20P: M24x1,5, Pg16, AI, IP55 High cap
P2 - TA20P: M24x1,5, 1/2" NPT, AI, IP55 High cap
T1 - TA20T: M24x1,5, Pg16, POM, IP65 dig. ind.
U1 - TA20U: M24x1,5, Pg16, POM, IP65 IS dig.
W1 - TA20W: M24x1,5, Pg16, AI, IP65
W2 - TA20W: M24x1,5, 1/2" NPT, AI, IP55
X3 - TA20X: M24x1,5, Pg11, AISI, IP65

Built-in transmitter
0 - Without built-in transmitter
1 - With built-in transmitter to be separately ordered

TST600 -

Complete Order Code

Supplementary documentation

- TA fittings
Technical Information TI095T/02/en
- TA20 terminal heads
Technical Information TI072T/02/en

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