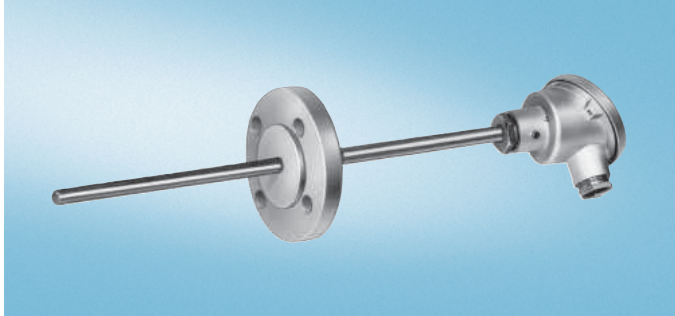


SITRANS T measuring instruments for temperature

Resistance thermometers

Flange-type resistance thermometer with connection head

Overview



The flange-type resistance thermometer with connection head can be installed in tanks and pipelines; it is suitable for a temperature range from -50 to +600 °C (-58 to +1112 °F) and can also be supplied with a built-in temperature transmitter

Technical specifications

Protective tube

- Form 2F, DIN 43772; cylindrical, 11 mm (0.43 inch) diameter, wall thickness 2 mm (0.08 inch)
- Material X 6 CrNiMoTi 17 122, mat. No. 1.4571
- Loading capacity to 40 bar (580 psi) (loading capacity dependent on material, temperature, flow rate, mounting length etc., see DIN 43772 for details)

Flange Nominal diameter DN 25, nominal pressure PN 40 (ASME on request)

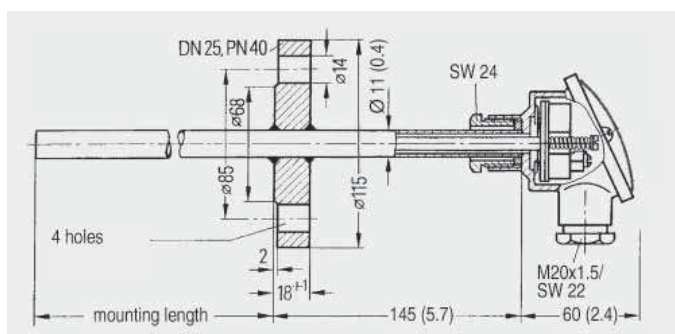
Measuring insert Replaceable, with measuring insert tube (6 mm diameter (0.24 inch) made of stainless steel; terminal block with clamping springs

Response times (to VDI/VDE 3 522)

- In water with flow velocity $v = 0.4 \text{ m/s}$ (1.31 ft/s) $t_{0.5} = 32 \text{ s}$, $t_{0.9} = 96 \text{ s}$
- In air with flow velocity $v = 1 \text{ m/s}$ (3.28 ft/s) $t_{0.5} = 2.2 \text{ min}$, $t_{0.9} = 6.8 \text{ min}$

Explosion protection II 1/2G EEx ia IIC T4/T6

Dimensional drawings



Flange-type resistance thermometer with connection head, dimensions in mm (inches)

Selection and Ordering data

Order No.

Flange-type resistance thermometer With connection head

Protective tube to DIN 43772, form: 2F
one Pt100 measuring resistor: three-wire circuit, two Pt100 measuring resistors: two-wire circuit

Measuring insert not explosion protected

One Pt100 measuring resistor

Mounting length/ mm (inch):	Weight/ kg (lb):
• 160 (6.3)	1.5 (3.31)
• 250 (9.84)	1.5 (3.31)

► 7MC1017-1FA1

7MC1017-2FA1

Two Pt100 measuring resistors

Mounting length/ mm (inch):	Weight/ kg (lb):
• 160 (6.3)	1.6 (3.53)
• 250 (9.84)	1.6 (3.53)

7MC1017-1FB1

7MC1017-2FB1

Measuring insert with explosion protection

One Pt100 measuring resistor

Mounting length/ mm (inch):	Weight/ kg (lb):
• 160 (6.3)	1.5 (3.31)
• 250 (9.84)	1.5 (3.31)

► 7MC1017-1FE1

7MC1017-2FE1

Two Pt100 measuring resistors

Mounting length/ mm (inch):	Weight/ kg (lb):
• 160 (6.3)	1.6 (3.53)
• 250 (9.84)	1.6 (3.53)

7MC1017-1FF1

7MC1017-2FF1

Connection head, form B

- made of cast light alloy, with 1 cable inlet and
 - screw cover
 - standard hinged cover
 - high hinged cover
- made of stainless steel, with 1 cable inlet and screw cover

1

4

6

7

Further designs

Please add "-Z" to Order No. and specify Order code(s) and plain text.

Order code

- Different design (mounting length, protective tube material etc.), specify in plain text.
- TAG plate made of stainless steel specify TAG No. in plain text
- Calibration carried out at one point, specify desired temperature in plain text (order equivalent number of times for several calibration points).

Y01

Y15

Y33

► Available ex stock

To order a temperature transmitter installed in the connection head, see "Temperature transmitters for installation in the connection head" (page 3/64).

Individual parts: Measuring inserts and connection heads, see "Accessories".