

Ø 4" 1/2 to ANSI B 40-1 standard

- Designed for Chemical and Petrochemical industries
- Principle : based on the expansion of an inert gas (non-toxic)
- Accuracy : $\pm 1\%$
- Zero adjustment
- Withstand corrosive fluids
- Transmission : rigid stem or capillary tube
- Scales in $^{\circ}\text{C}$ or $^{\circ}\text{F}$



Specifications (20°C)

Range

From -200°C to $+600^{\circ}\text{C}$ (-300°F to $+1130^{\circ}\text{F}$)
(see standard graduations overleaf)
Permissible overload of +30%

Accuracy

$\pm 1\%$ of full scale

Degree of protection

IP 44 according to NF EN 60529

Sensing element

Low volume spiral having undergone a heat treatment

Ambient temperature of the indicator and transmission

-10°C to $+50^{\circ}\text{C}$
Other ambient temperatures : consult us.

Case

Moulded phenol with fiberglass, autoextinguible. Black.

Snap ring

Stainless steel 304

Window

Safety laminated glass (according to ANSI standard)

Window gasket

In elastomer. Provides sealing between window and case.

Movement



Stainless steel 304

Fixing systems

See the last page.

Mounting

Type

| | | |
|-----------------------------------|---|---|
| |  |  |
| Surface mounting with back flange | A | E |

Dial

Aluminium alloy.
Black graduations and figures on white background.

Pointer

Aluminium alloy, balanced, black painted.

Zero setting

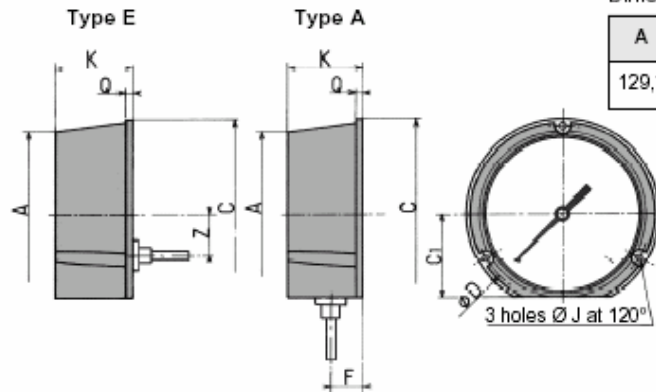
After removing an elastomer plug, the zero setting screws enables to adjust the instrument.

Uncoded options (have to be listed after the code number)

- 9.5, 11.5, 14 mm dia bulb,
- Glass, hardened glass or plexiglas window,
- Special scales,
- Length of stem P limited to 1.2 m (TRDE1, TRDE2) in direct transmissions,
- Length of stem P up to 2 m with K mini $\geq 1,5$ P (TD2, TD3, TD4) for capillary tube thermometer,
- Connection : other threads possible, except for TRCE (consult us).

Accessories : thermowells, wall mounting bracket (ACFH)

Dimensions (mm)



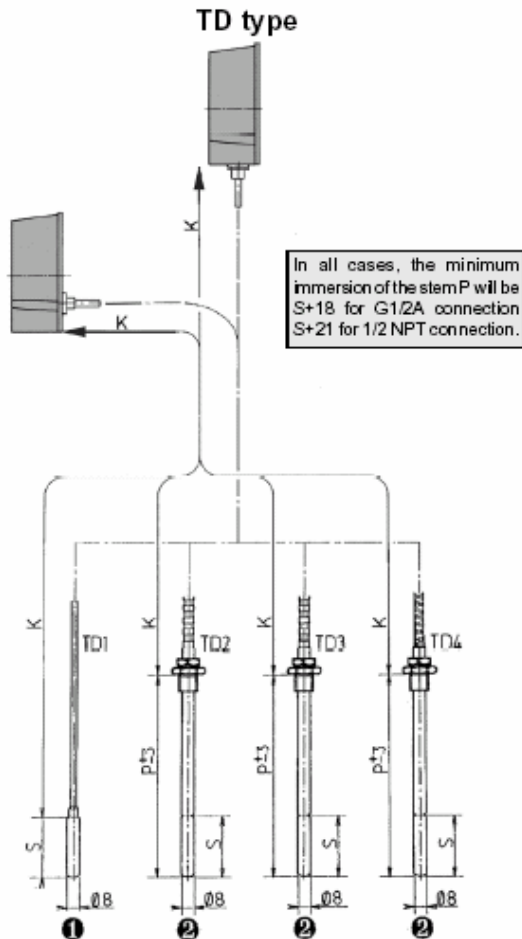
Dimensions

| A | C | C1 | D | F | J | K | Q | Z |
|-------|-------|------|-------|------|-----|------|-----|----|
| 129,7 | 148,6 | 67,1 | 136,6 | 24,3 | 5,6 | 58,5 | 5,8 | 30 |

Weight : 0,790 kg

Types of transmissions

Capillary tube thermometers ① ②

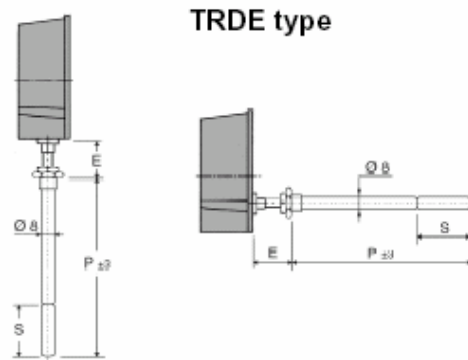


In all cases, the minimum immersion of the stem P will be S+18 for G1/2A connection
S+21 for 1/2 NPT connection.

S = Bulb length (indicative value = see table)
K = $K \pm 2\%$

- TD 1 = stem transmission with bare stainless steel capillary (Max. L = 50 m).
- TD 2 = stem transmission with stainless steel capillary and stainless steel protection (Max. L = 50 m).
- TD 3 = stem transmission with st. steel capillary and PVC coated stainless steel protection (Max L = 35 m).
- TD 4 = stem transmission with stainless steel capillary reinforced stainless steel protection (Max. L = 35 m).

Direct thermometers ③



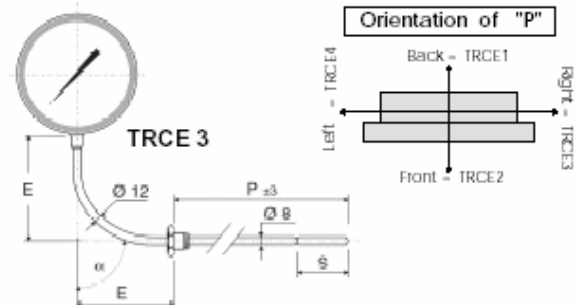
Stem:
It is advisable to have a stem which is long enough to keep the temperature recording indicator at a sufficient distance after mounting.

| Type | Emm | °C |
|--------|-----|--------------------------|
| TRDE 1 | 65 | $\leq 120^\circ\text{C}$ |
| TRDE 2 | 120 | $> 120^\circ\text{C}$ |

$E = E \pm 2\%$



TRCE type



TRDE 1 = straight rigid transmission with extension E of 65 mm for fluid temperature $\leq 120^\circ\text{C}$.
Fastening by sliding connection so that the indicator can be oriented as required.

TRDE 2 = straight rigid transmission with extension E of 120 mm for fluid temperature $> 120^\circ\text{C}$.
Fastening : ditto TRDE 1.

TRCE 1 } elbowed rigid transmission with extension
TRCE 2 } (indicate value of E, of angle α). Fastening by
TRCE 3 } G 1/2 A connection enable to orient the indicator
TRCE 4 } as required.

Fixing systems - accessories

Different types of connection

Figure 1

Sliding male connection (becomes revolving male connection after clamping): G 1/2 A - 1/2 NPT - G 3/4 A - G 3/8 A - 3/8 NPT - G 1/4 A - 1/4 NPT
Female connection on request. Maximum static pressure : 40 bar

Figure 2

Revolving connection for TRCE. G 1/2 A male connection only. For fastening on other threads, please use a socket union.

Figure 3

Socket union : this term indicates female/male connections. Female side is parallel tapered, tightness is ensured by means of a gasket : it corresponds to the male connection in our fastening (G 1/2 A). The male part corresponds to the "customer requirement". It provides sealing according to the principles of the piping.

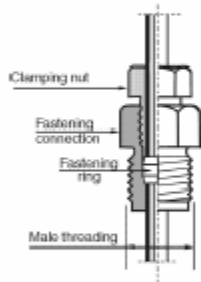


Figure 1

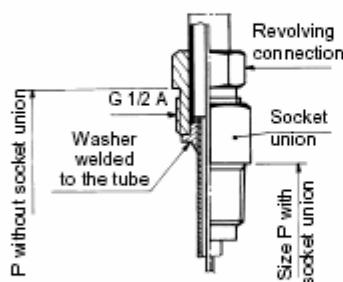


Figure 2

| Dimensions of socket union (mm) | | | | |
|---------------------------------|------------|---------|--------------|---------|
| F | 1/2 BSP-Tr | 1/2 NPT | 3/4 BSP-Tr | 3/4 NPT |
| T | G 1/2 | | | |
| B | 26 | 26 | 32 | 32 |
| max dia. of stem | 14 | 14 | 16 | 16 |
| H | 26 | 26 | 35 | 35 |
| A | 20 | 20 | 20 | 20 |
| M | 16 | 16 | 16 | 16 |
| N | 5 | 5 | 5 | 5 |
| S | 11,4 to 15 | 13 | 12,7 to 16,3 | 13,5 |

Figure 3

Codification

Thermometer

T | P | X | 6 | | |

Family :

Thermometers

T

Code Graduations :
see tables

Type :

PX

Unit of measurement :

Dial diameter:

Ø 130 mm (4"1/2)

6

5 °C

6 °F

Type of mounting :

bottom connection, back flange
back connection, back flange

A
E

Type of liquid filling :
without

0

Transmission

| | | | | | |

Type of transmission :

TD1

1

Capillary length :

00 without

02 2 m

03 3 m

05 5 m

08 8 m

10 10 m

20 20 m

Stem length (mm)*

TD1 standard

150 mm

250 mm

400 mm

600 mm

A00

150

250

400

600

Connection :

00

02

03

05

06

0D

0J

0L

A1

XX

without

G 1/4 A

G 1/2 A ⁽²⁾

1/4 NPT

1/2 NPT

G 3/4 A

G 3/8 A

G 1/2 female

3/8 NPT

out of standard

(2) { TRCE 1
TRCE 2
TRCE 3
TRCE 4 } { E
F
G
H } (3)

For the choice of the type of transmission and capillary length, please refer to the tables.

(2) TRCE, G 1/2 A only. (3) Indicate value of E and α.

* Bulb with S = 50 or S = 100 mm. Indicate the choice of this option after the code number.

* **Uncoded options have to be listed after the code number**

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