

APPLICATIONS

- Liquid & gaseous mediums
- Corrosive environments
- Oil & Gas applications
- Chemical & Petrochemical
- Food & Beverages
- Nuclear power plants

FEATURES

- All stainless steel welded construction
- Follows EN 13190 / ASME B40.200
- Accuracy as per Class 1
- Dry / Fillable / Liquid filled

DESCRIPTION

General

Design : EN 13190

Accuracy : $\pm 1.0\%$ of full scale

Ambient temperature : $-20...+60^{\circ}\text{C}$

Over range limits : 110% full scale

Stem pressure rating : 25 bar
(Without thermowell)

Weld joints : TIG argon arc welding

Material of construction

Sensing element : Coiled bimetal strip

Case & Ring material : AISI 304 SS

Stem material : AISI 316 SS

Process connection material : AISI 316 SS

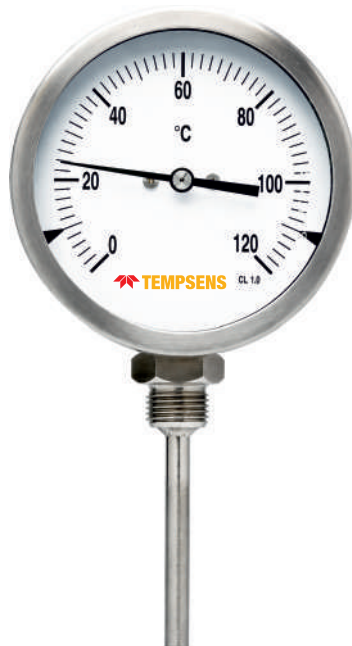
Dial : Aluminum, black graduation on white background

Pointer : Zero adjustable, aluminum, black powder coated

[Fix pointer for 50 mm]

Gaskets : Neoprene / NBR

Window : Sheet glass



BIMETAL THERMOMETER, TMC50-1

Standard version

Dial size : 50mm / 63mm / 80mm /
100mm/ 115mm / 150 mm

Range : -50 up to 600°C

Mounting pattern : Direct Bottom connection

Stem size : 6.0 mm / 8.0 mm / 9.5 mm / 12 mm

Ingress protection : IP 65

Stem length : 150 mm standard up to 1000 mm

Process connection type : Adjustable connection

Process connection : $\frac{1}{2}$ " NPT (M) / $\frac{1}{2}$ " BSP (M)

Filled version

Glycerin

Window : Shatterproof safety glass

Dampening liquid : Glycerin 99.7% / 80% / 60%
[Max temperature range limit 100°C]

Silicon Oil

Window : Shatterproof safety glass

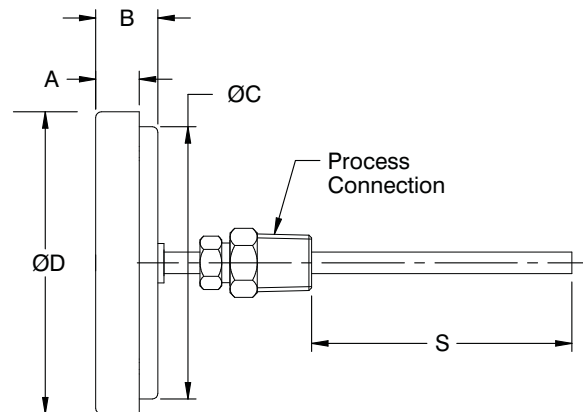
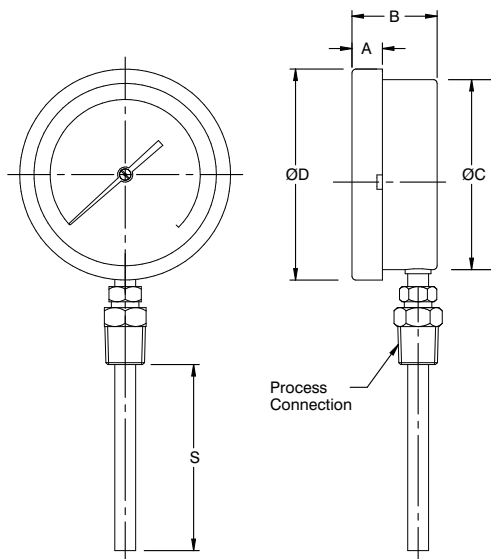
Gasket, Blow off disc & filling plug : NBR / Viton

Dampening liquid : Silicon oil DC 200
[Max temperature range limit 200°C]

Temperature Effect

When temperature of the measuring system deviates from reference temperature ($+20^{\circ}\text{C}$):
max $\pm 0.4\%$ / 10K of full scale value.

DIMENSIONAL DRAWING



NS	A	B	OC	OD
63	12	48	62.5	70
80	9.5	48	80	89.5
100	12	48	100	111
125	15	48	118.5	129
150	15	48	149	161

NOTES:

- Drawing not to scale. All dimensions are in mm.
- For other mounting details, Panel cut-out dimensions, kindly contact factory.

ORDERING CODES

MODEL

TMC50-1 Bimetal thermometer

TMC50-1

DIAL SIZE

D1	2" / 50 mm	D2	2.5" / 63 mm	D3	3" / 80 mm
D4	4" / 100 mm	D5	4" / 115 mm	D6	6" / 150 mm

D4

MOUNTING

M1	Direct bottom	M5	Direct center back
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M1

CONNECTION

P4	¼" NPT (M)	P20	3/8" NPT (M)	P8	½" NPT (M)
P3	¼" BSP (M)	P5	3/8" BSP (M)	P7	½" BSP (M)

P8

CASE FILLING

F1	Dry	F2	Dry but fillable	F3	Glycerin filled
F4	Silicon oil filled				

F1

INGRESS PROTECTION

I1	IP 65	I6	IP 68
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I1

STEM SIZE

B6	6 mm	B8	8 mm	B10	10 mm
B12	12 mm	B9	9.5 mm	B7	6.35 mm (¼")

B6

STEM LENGTH

XXXX Please mention stem length in 'mm'

100

RANGE

0-100°C Please mention range required with the measurement unit
[TMC offer in all types of National & International measurement units, e.g. °C, °F, etc. with single or dual scales]

0-100°C

OPTIONAL EXTRAS

E33	AISI 316 SS case & ring	E01	Shatterproof safety glass	E46	External zero adjustment (> 63 mm)
E27	AISI 304 SS tag plate	E28	AISI 316 SS tag plate	E31	Custom designed dial
E32	Dial tag marking	E16	5 - point calibration certificate		

E16/E27

Ordering Example : TMC50-1-D4.M1.P8.F1.I1.B6/100/0-100°C/E16/E27