

APPLICATIONS

- Liquid & gaseous mediums
- Oil & Gas applications
- Food & Beverages

FEATURES

- Follows IS 3624 / EN 837-1 / ASME B40.100
- Accuracy as per $\pm 1.6\%$ / CL 1.6 / Grade A
- Dry / Fillable / Liquid filled

DESCRIPTION

General

Design : EN 837-1

Accuracy : $\pm 1.6\%$ of full scale [63 mm onwards]
 $\pm 2.5\%$ of full scale [50 mm and below]

Ambient temperature : -30...+65°C

Service temperature : 150°C max.

Pressure limits : Steady pressure up to 75% of FS value
 Fluctuating pressure up to 90% of FS value
 Short time 130% of FS value for range up to 100 bar
 Short time 115% of FS value for range above 100 bar

Joints : Silver alloy brazing / soldering

Material of construction

Sensing element : Bourdon Tube
 [<100 bar : C - type , >100 bar : Helical]

Case & Ring material : AISI 304 SS [Bayonet / crimped type]

Bourdon tube & Shank : Copper Alloy

Movement mechanism : Copper Alloy

Dial : Aluminum, black graduation on white background

Pointer : Fixed, aluminum, black powder coated

Window : Plexi glass / Sheet glass



COMMERCIAL PRESSURE GAUGE SS CASE, TMC05-1

Standard version

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

Range : -1...0...700 bar

Mounting pattern : Direct Bottom

Process connection : 1/4" NPT (M) /
 1/4" BSP (M) / 1/2" NPT (M)

Ingress protection : IP 65

Execution : Dry / Dry but fillable

Filled version

Glycerin

Gaskets & filling plug : Silicon gasket &
 Neoprene filling plug

Dampening liquid : Glycerin 99.7% / 80% / 60%
 [Service temperature -20°C up to 65°C]

Silicon Oil

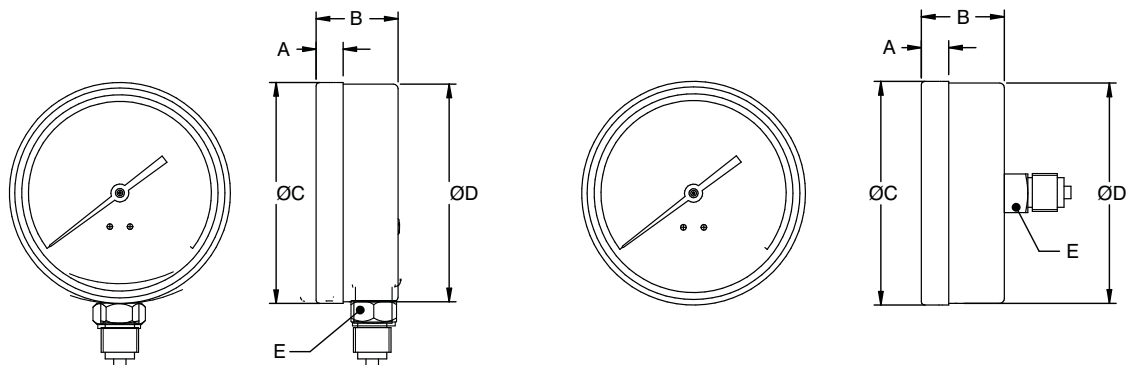
Gasket & filling plug : NBR / Viton

Dampening liquid : Silicon oil DC 200
 [Service temperature -40°C up to 150°C]

Temperature effect

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

DIMENSIONAL DRAWING



NOTES:

Drawing not to scale. All dimensions are in mm.

2. For other mounting details, Panel cut-out dimensions, kindly contact factory

NS	A	B	ØC	ØD	E
50	9	34	58.5	52	14
63	12	33	69.7	62.5	14
80	9.5	33.5	89.5	80	A/F14
100	12	38	111	100	22

ORDERING CODES

MODEL

TMC05-1 Commercial pressure gauge (Ss Case)

TMC05-1

DIAL SIZE

D1 2" / 50 mm

D2 2.5" / 63 mm

D3 3" / 80 mm

D4 4" / 100 mm

D2

MOUNTING

M1 Direct bottom

M2 Direct bottom with Back flange

M5 Direct center back

M9 Direct center back with front flange

M10 Direct center back with panel mounting bracket

M5

CONNECTION

P4 ¼" NPT (M)

P3 ¼" BSP (M)

P1 1/8" BSP (M)

P6 3/8" NPT (M)

P5 3/8" BSP (M)

P2 1/8" NPT (M)

P8 ½" NPT (M)

P7 ½" BSP (M)

P4

CASE FILLING

F1 Dry

F4 Silicon oil filled

F2 Dry but fillable

F3 Glycerin filled

F1

WETTED PARTS

S12 Copper alloy

S12

INGRESS PROTECTION

I1 IP 65

I5 IP 68

I1

RANGE

0-10 bar Please mention range required with the measurement unit

[TMC offer in all types of National & International measurement units, e.g. kg/cm², psi, kPa, etc. with single or dual scales]

0-10 bar

OPTIONAL EXTRAS

E33 AISI 316 SS case & ring

E16 5 - point calibration certificate

E27 AISI 304 SS tag plate

E17 Epoxy coating (Case & Ring)

E17 Material test certificate 3.1

E23 Cleaned for Oxygen service

E28 AISI 316 SS tag plate

E32 Dial tag marking

E16/E27

Ordering Example : TMC05-1.D2.M5.P4.F1.S12.I1/0-10 bar/E16/E27