

APPLICATIONS

- Pumps & motor controls
- Water treatment plants
- Hydraulic & pneumatics
- Chemical & petrochemicals
- Pharmaceutical industries
- HVAC & compressor industries
- Refrigeration

FEATURES

- All SS measuring system
- Socket-case, direct welded
- CE marked contacts
- Liquid filled versions



ELECTRIC CONTACT PRESSURE GAUGE DOME STYLE, TMC06

DESCRIPTION

General

Design : EN 837-1

Accuracy : $\pm 1.0\%$ of full scale (Gauge)
 $\pm 4\%$ of full scale (Contact)

Ambient temperature :

-40...+65°C [without dampening liquid]
 -20...+65°C [with dampening liquid]

Service temperature : 200°C max.

Pressure limits : Steady pressure up to FS value
 Fluctuating pressure up to 90% of FS value

Weld joints : TIG argon arc welding

Protection class as per EN 837-1 : S1

Material of construction

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

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

Bourdon tube & Shank : AISI 316L SS / Monel
 [Shank welded directly to case for rigidity in vibration field]

Movement mechanism : AISI 304 SS

Dial : Aluminum, black graduation on white background

Pointer : Micro-zero adjustable, aluminum, black powder coated

Gaskets, Blow off disc & filling plug : Neoprene / NBR

Window : Polycarbonate dome

Standard version

Dial size : DN100 / Dn150

Range : -1...0...1,600 bar

Mounting pattern : Direct, Bottom connection

Process connection : ½" NPT (M) / ½" BSP (M)

Ingress protection : IP 65

Execution : Dry / Dry but fillable

Switch : Make contact (1NO)

Electrical termination : 4 pin PG 13.5 connector

Filled versions

Dielectric oil Accuracy : $\pm 2.0\%$ of full scale

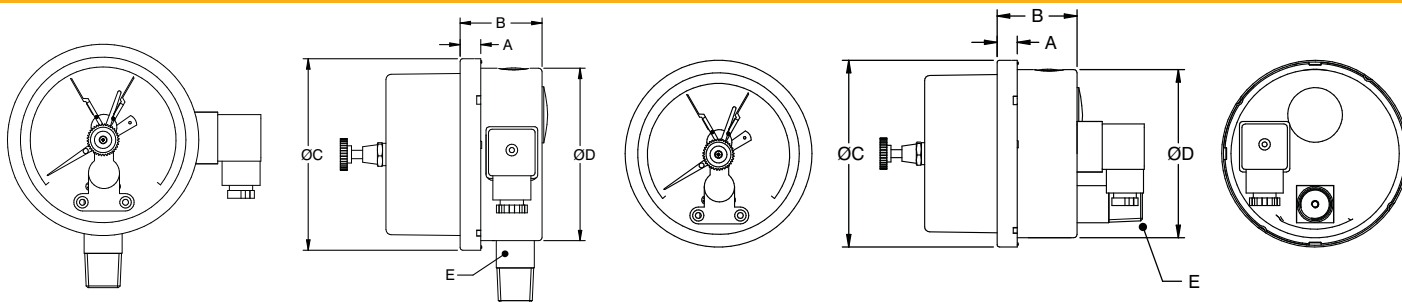
Gasket, Blow off disc & filling plug : NBR / Viton

Dampening liquid : Dielectric oil

Temperature effect

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

DIMENSIONAL DRAWING



NOTES:

1. 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
100	12	66.5	111	100	22
150	15	68.5	161	149	22

ORDERING CODES

MODEL						TMC06
TMC06 Electric contact pressure gauge - Dome style						
DIAL SIZE						D4
D4	4" / 100 mm	D6	6" / 150 mm			
MOUNTING						M1
M1	Direct bottom	M6	Direct lower back	M7	Direct lower back with front flange	
M2	Direct bottom with Back flange	M8	Direct lower back with panel mounting clamp			
CONNECTION						P08
P04	¼" NPT (M)	P08	½" NPT (M)	P20	M20 X 1.5 mm (M)	
P03	¼" BSP (M)	P05	3/8" BSP (M)	P07	½" BSP (M)	
CASE FILLING						F2
F1	Dry	F9	Dielectric oil filled			
WETTED PARTS						S03
S03	AISI 316L SS	S05	MONEL	S01	AISI 304 SS	
INGRESS PROTECTION						I1
I1	IP 65	I6	IP 68			
RANGE						0-10 bar
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]						
ELECTRIC CONTACT TYPE [RATING - MAGNETIC CONTACTS : 45mA@230VAC, INDUCTIVE CONTACT : 8VAC]						N1
N1	Magnetic Contact - 1NO	N2	Magnetic Contact - 1NO	N3	Magnetic Contact - 1NC & 1NO	
N4	Magnetic Contact - ∞NC	N5	Magnetic Contact - 2NO			
N6	Inductive Contact - 1NC	N7	Inductive Contact - 1NO	N8	Inductive Contact - 1NC & 1NO	
N9	Inductive Contact - 2NC	N10	Inductive Contact - 2NO			
N11	1 SPDT	N12	1 DPDT			
OPTIONAL EXTRAS						E16/E27
E33	AISI 316 SS Case & Ring	E04	AISI 316 SS movement	E14	Rubber parts, Viton	
E16	5-point calibration certificate	E17	Material test certificate 3.1	E22	Tested to NACE standards	
E27	AISI 304 SS tag plate	E32	Dial tag marking	E31	Custom designed dial	

Ordering Example : TMC06-D4.M1.P08.F2.S03.I1/0-10 bar/N1/E16/E27