

APPLICATIONS

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

FEATURES

- All SS measuring system
- External Zero adjustment
- Electric contact version
- Dry / liquid filled



SINGLE DIAPHRAGM DIFFERENTIAL PRESSURE GAUGE, TMC11

DESCRIPTION

General

Design : EN 837-3

Accuracy : $\pm 2.5\%$ of full scale

Ambient temperature :

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

-20...+65°C [with dampening liquid]

Service temperature : 200°C max.

Static pressure limits : 2 bar up to 250 mmWC

6 bar above 250 to 600 mmWC

10 bar above 600 to 6000 mmWC

40 bar above 6000 mmWC to 4 bar

60 bar above 4 bar

Material of construction

Sensing element : Diaphragm

Case & Ring material : AISI 304 SS (Bayonet type)

Diaphragm : AISI 316L SS

Chamber : AISI 304 SS

Fastener : AISI 304 SS

Movement mechanism : AISI 304 SS

Dial : Aluminum, black graduation on white background

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

Gaskets & filling plug : Neoprene

Window : Shatterproof Safety Glass

Standard version

Dial size : DN100 / DN125 / DN150

Range : 25 mbar...0...25 bar

Mounting pattern : Direct, Bottom connection

Process connection : 1/4" NPT (F) x 2 Nos.

Ingress protection : IP 65

Execution : Dry / Dry but fillable

Filled versions

Glycerin

Accuracy : $\pm 4.0\%$ of full scale

Dampening liquid : Glycerin 99.7%

Electric Contact version

Accuracy : $\pm 4.0\%$ of full scale

Window : Poly carbonate dome

Switch : 1NO; Make contact

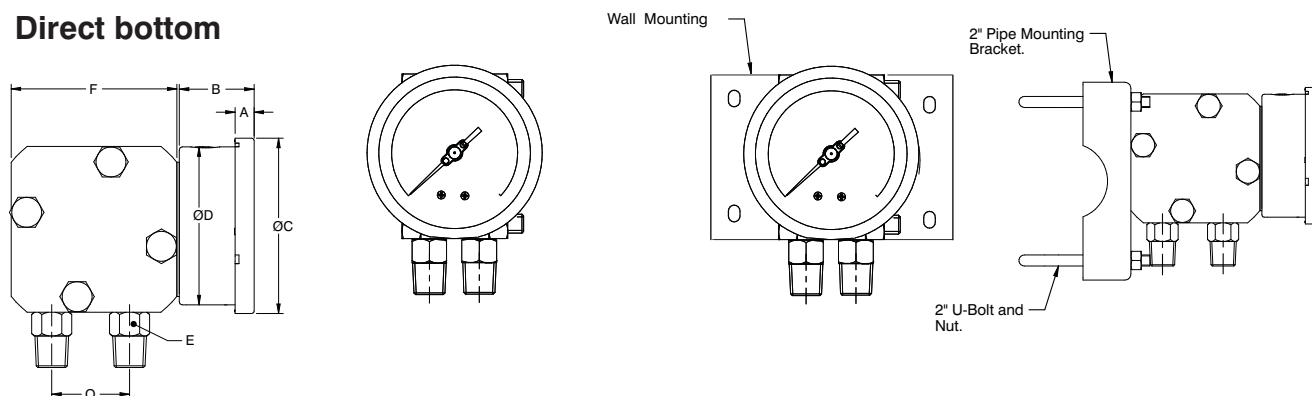
Dampening liquid : Dielectric oil [Optional]

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

Direct bottom



NOTES:

1. Drawing not to scale. All dimensions are in mm.

DN	A	B	ØC	ØD	E	F	Q
100	12	48	111	100	A/F-22	SQ.105	49
150	15	48	161	149	A/F-22	SQ.105	49

ORDERING CODES

MODEL						TMC11
TMC11		Double Diaphragm Differential Pressure				
GAUGE DIAL SIZE						D4
D4	4" / 100 mm		D6	6" / 150 mm		
MOUNTING						M1
M1	Direct bottom		M2	Direct bottom with Back ange		
M4	Bottom with Yoke/2" Pipe mounting bracket			M5	Center back with front Range	
CONNECTION						P24
P24	¼" NPT (F)		P07	½" BSP (M)		
P20	M20 x 1.5 mm (M)			P08	½" NPT (M)	
CASE FILLING						F1
F1	Dry		F2	Dry but filled		
F4	Silicon oil filled		F5	Dielectric oil filled		
F3				Glycerin filled		
WETTED PARTS						S02
S01	AISI 304 SS		S02	AISI 316 SS		
S05	Monel 500			S03	AISI 316L SS	
INGRESS PROTECTION						I1
I1	IP 65					
RANGE						0-1 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						XXX
N01	Magnetic contact - 1 NC		N02	Magnetic contact - 1 NO		
N04	Magnetic contact - 2 NC		N05	Magnetic contact - 2 NO		
N07	Inductive contact - 1 NC		N08	Magnetic contact - 1 NO		
N10	Inductive contact - 2 NC		N11	Inductive contact - 2 NO		
N13	1 SPDT		N14	1 DPDT		
N03				Magnetic contact - 1 NC / 1 NO		
N06				Magnetic contact - 1 NO / 1 NC		
N09				Inductive contact - 1 NC / 1 NO		
N12				Inductive contact - 1 NO / 1 NC		
N15				Booster relay for 5A output		
OTHER OPTIONS						E16/E27
E16	5 - point calibration certi cate		E31	Custom designed dial		
E17	Material test certi cate 3.1		E21	Material test certi cate 2.2		
E27	SS tag plate, AISI 304 SS		E33	AISI 316 SS case & ring		
E32				Dial tag marking		
E28				SS tag plate, AISI 316 SS		

Ordering Example : TMC11.D4.M1.P24.F1.S02.I1/0-1 bar/E16/E27