

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, TMC12

DESCRIPTION

General

Design : EN 837-3

Accuracy : $\pm 1.6\%$ of full scale

Ambient temperature:

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

-20...+65°C [with dampening liquid]

Service temperature : 10...150°C max.

Pressure limits : Steady pressure up to FS value

Fluctuating pressure up to 90% of FS value

Short time 1.3 x FS value for range up to 100 bar

Short time 1.15 x FS value for range above 100 bar

Weld joints : TIG argon arc welding

Material of construction

Sensing element : Diaphragm

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

Diaphragm, Bourdon tube & Shank : AISI 316L SS

Movement mechanism : AISI 304 SS

Dial : Aluminum, black graduation on white background

Pointer : Fixed, aluminum, black powder coated

Gaskets & filling plug : Neoprene

Window : Plexi 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

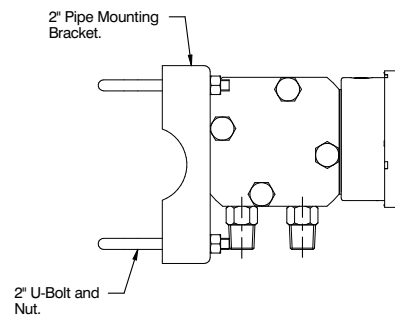
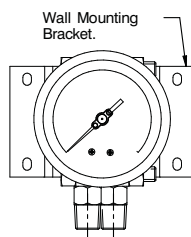
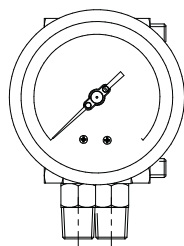
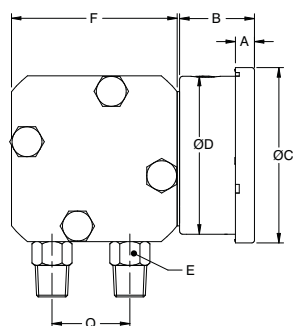
Dampening liquid : Dielectric oil [Optional]

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				TMC12	
TMC12		Single 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 flange	
M4	Bottom with Yoke/2" Pipe mounting bracket		M5	Center back with front flange	
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 fillable	
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 certificate		E31	Custom designed dial	
E17	Material test certificate 3.1		E21	Material test certificate 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 : TMC12.D4.M1.P24.F1.S02.I1/0-1 bar/E16/E27