TEMPSENS

SCHAFFER DIAPHRAGM PRESSURE GAUGE-ECO DESIGN
TMC16-2

APPLICATIONS

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

FEATURES

- All SS measuring system
- Socket-case, direct welded
- Threaded / Flanged connection
- External zero adjustment

DIAPHRAGM PRESSURE GAUGE-ECO DESIGN, TMC16-2

DESCRIPTION

General

Design : EN 837-3
Accuracy : ±1.6% of full scale
Ambient temperature : -40...+65°C
Service temperature : 100°C max.
Pressure limits : Steady pressure up to FS value
Fluctuating pressure up to 90% of FS value
Weld joints : TIG argon arc welding

Material of construction

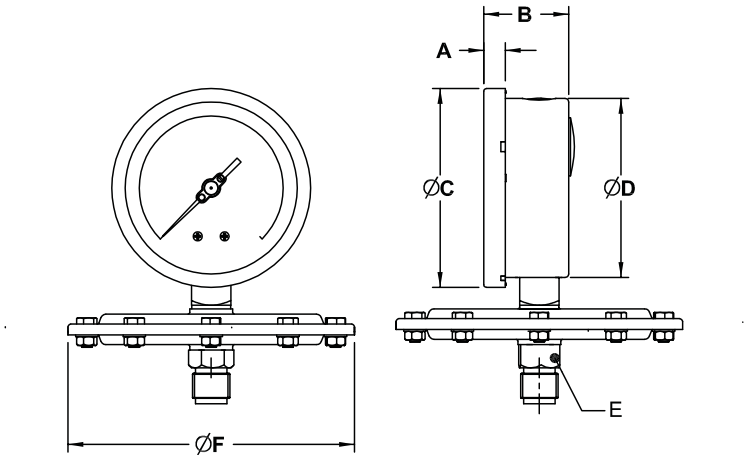
Sensing element : Diaphragm
Case & Ring material : AISI 304 SS (Bayonet type)
Top chamber : AISI 304 SS-Sheet Metal
Diaphragm : AISI 316 SS / Monel / Hastelloy C-276
Bottom chamber : AISI 316 SS / Monel/Hastelloy C-276 - Sheet Metal
Movement mechanism : AISI 304 SS
Dial : Aluminum, black graduation on white background
Pointer : Micro-adjuastable, aluminum, black powder coated
Gaskets, Blow-off disc & filling plug : Neoprene / NBR
Window : Sheet glass / Shatterproof Safety Glass

Standard version

Dial size : DN100 / DN150
Range : -1...0...25 bar [Standard] / 60...600 mbar [Low pressure]
6...40 mbar [Very low pressure]
Mounting pattern : Direct, Bottom connection
Process connection : ½" NPT (M) / ½" BSP (M)
Ingress protection : IP 54
Execution : Dry

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

DIMENSIONAL DRAWING



Range	DN	A	B	ØC	ØD	E	ØF
-1 to 25 bar	100	12	48	111	100	A/F-22	98
	150	15	48	161	149	A/F-22	98
40 mbar to 600 mbar	100	12	48	111	100	A/F-22	160
	150	15	48	161	149	A/F-22	160
6 mbar to 40 mbar	100	12	48	111	100	A/F-22	180
	150	15	48	161	149	A/F-22	180

NOTES:

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

ORDERING CODES

MODEL — TMC16-2

TMC16-2 Schaffer Diaphragm Pressure Gauge - ECO Design

DIAL SIZE — D4

D4	4" / 100 mm	**D6**	6" / 150 mm

MOUNTING — M1

M1	Direct bottom

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 — F1

F1	Dry

WETTED PARTS — S01

S01	AISI 304 SS	**S02**	AISI 316 SS	**S05**	Monel
S10	Hastelloy C-276				

INGRESS PROTECTION — I1

I1	IP 65

RANGE — 0-1 bar

0-1 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]

OTHER OPTIONS — E16/E27

E16	5 - point calibration certificate	**E31**	Custom designed dial	**E32**	Dial tag marking
E28	SS tag plate, AISI 316 SS	**E27**	SS tag plate, AISI 304 SS	**E33**	AISI 316 SS case & ring
E20	Cleaned for Oxygen service	**E10**	Over range protection 1.5xFS		

Ordering Example : TMC16-2-D4.M1.P08.F1.S01.I1/0-1 bar/E16/E27

Rev 00

© 2016 TMC All rights reserved. The technical details & specifications are provided as such at the time of printing. Technical changes and omissions may happen later.

TEMPSENS

TEMPSENS MEASUREMENT & CONTROL PVT. LTD.

gauges@tempsens.com | www.tempsens.com