

APPLICATIONS

- Sanitary, food & beverages
- Optional electric contacts
- Optional transmitter output
- Filled version

FEATURES

- Dairy, Ice cream industries
- Pharmaceutical industries
- Sterilization applications

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



HOMOGENIZER PRESSURE GAUGE, TMC18-1

Standard version

Dial size : DN100

Range : -1...600 bar

Mounting pattern : Direct, Bottom connection

Process connection : Without mounting flange

Seal filling fluid : Glycerine [10°C to 150°C]

Ingress protection : IP 65

Execution : Dry / Dry but fillable

Filled version

Glycerin

Window : Plexi glass

Dampening liquid : Glycerin 99.7%

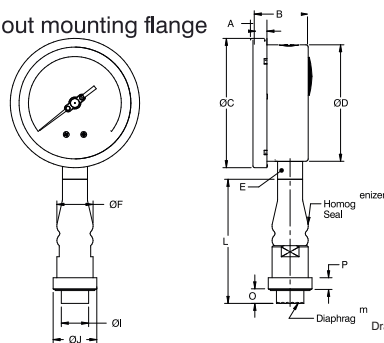
Temperature Effect

When temperature of the measuring system deviates from reference temperature (+20°C) :

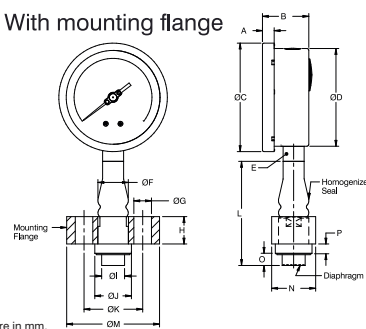
max error $\pm 0.4\%$ / 10K of true scale value.

DIMENSIONAL DRAWING

Without mounting flange



With mounting flange



Drawing not to scale. All dimensions are in mm.

DN	A	B	OC	OD	E	F	I	J	L	O	P	Weight (grams)
100	12	48	111	100	SQ.22	31	23.5	37.5	106.5	11	11	1295

DN	A	B	OC	OD	E	OF	G	H	I	J	K	L	M	N	O	P	Weight (grams)
100	12	48	111	100	SQ.22	31	18	28	23.5	37.5	60	106.5	95	45	11	11	1688

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																TMC18-1	
TMC18-1 Homogenizer Pressure Gauge																	
DIAL SIZE																D2	
D4 4" / 100 mm																	
MOUNTING CONNECTION																M1	
P41 With mounting flange																	
P42 Without Mounting Flange																	
P43 1 1/4" BSP(F) Union Nut																P42	
CASE FILLING																F2	
F1 Dry																	
F2 Dry but fillable																	
F3 Glycerin filled																F2	
WETTED PARTS																S02	
S02 AISI 316 SS																	
S03 AISI 316L SS																S02	
INGRESS PROTECTION																I1	
I1 IP 65																	
I6 IP 68																I1	
RANGE																0-250 bar	
0-250 bar Please mention range required with the measurement unit [TMC offer in all types of National & International measurement units, e.g. kg/cm ² , psi, kPa, etc. with single or dual scales]																	
OTHER OPTIONS																E16/E27	
E16 5 - point calibration certificate																	
E17 Material test certificate 3.1																	
E27 SS tag plate, AISI 304 SS																	
E31 Custom designed dial																	
E21 Material test certificate 2.2																	
E47 Crimped case & ring																	
E32 Dial tag marking																	
E28 SS tag plate, AISI 316 SS																	

Ordering Example : TMC18-1.D2.M1.P42.F2.S02.I1/0-250 bar/E16/E27