

ELECTRIC CONTACT PRESSURE GAUGE - DOME STYLE TGI06

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, TGI06

DESCRIPTION

General

Design : EN 837-1

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

Ambient temperature : $-40 \dots +65^{\circ}\text{C}$ [without dampening liquid]
 $-20 \dots +65^{\circ}\text{C}$ [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 : $\frac{1}{2}$ " NPT (M) / $\frac{1}{2}$ " 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

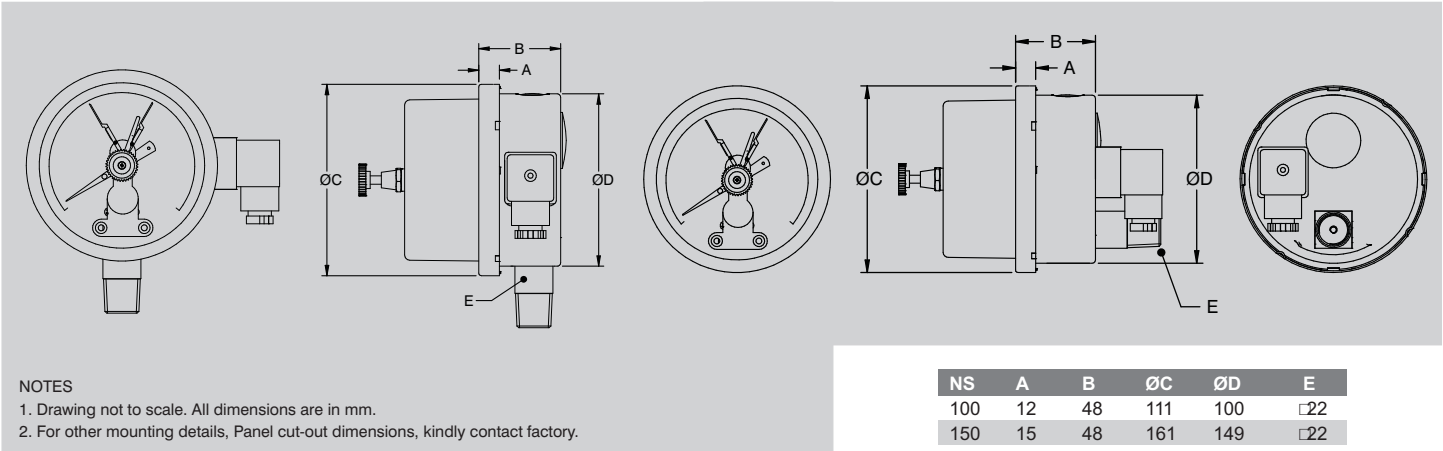
Temperature effect

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

ELECTRIC CONTACT PRESSURE GAUGE - DOME STYLE

TGI06

DIMENSIONAL DRAWING



ORDERING CODES

MODEL						TGI06		
TGI06		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 [TGI 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 - 1NC		N2	Magnetic Contact - 1NO			N3	Magnetic Contact - 1NC & 1NO
N4	Magnetic Contact - 2NC		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 : TGI06-D4.M1.P08.F2.S03.I1/0-10 bar/N1/E16/E27