DIAPHRAGM PRESSURE GAUGES WITH ELECTRICAL ALARM CONTACTS, CASE IN STAINLESS STEEL

with or without damping

Diameter 100, 160 with magnatic snap-action or inductive alarm contacts

Connection position radial bottom



Features

- o Limit value signalling by magnetic snap-action or inductive contacts
- o With SVA-amplifier suitable for SPS- control units
- o Up to four alarm contacts possible
- o Can be used under Ex-conditions with inductive alarm contacts
- o Liquid dampening provides vibration-free display
- o Up to 10-fold overload capacity
- o Protection class IP 54 resp. IP 65

Ranges

0 ... 25 mbar to 0 ... 40 bar

Applications

Mechanical engineering, Plant and apparatus construction, Building services

Description

The design principle and material selection of the diaphragm pressure gauges allow them to meet the stringent demands occurring above all in industrial services. Special corrosion resistant materials are used for service with chemically aggressive media.

Open process connections ensure that the gauges are easy to clean with highly viscous or crystallizing process media, thus guaranteeing process reliability.

As a result of the high actuating forces, pressure gauges with diaphragms are particularly suitable for connection of electric alarm contacts. Electric alarm contacts open and close circuits in response to the position of the pressure gauge pointer.

Magnetic snap-action electric alarm contacts are used in adverse opening conditions. The high contact pressure and the selection of various contact materials result in reliable and cost-effective solutions, above all when high currents have to be switched. Signal output does however take place slightly in advance of or lagging slightly behind the motion of the actual value pointer.

If the electrical switching capacities of the alarm contacts are exceeded or not reached (see technical Information – chapter 8) is to be used to provide an appropriate current rating.

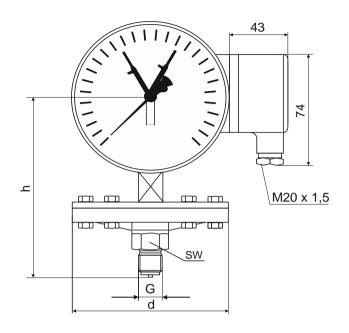
Inductive electrical alarm contacts have an almost unlimited service life, as the signal is switched without physical contact. Closing or opening takes place without any feedback effect on the measuring system, precluding any signal lead or lag. A corresponding control unit is always required for operation. Units with inductive contacts may be operated in areas with potentially explosive atmospheres, assuming compliance with existing specifications.

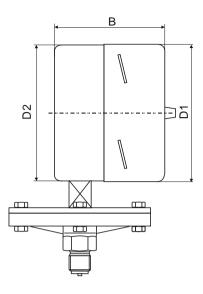
Technical details											
Туре	6511 8311 6511 8311 6611 8411 6611 8411								Options		
Diameter	100 160										
Symbol											
Type of contact	mag. sr	nap-act.	indu	ctive	mag. sr	nap-act.	indu	ctive			
Numbers of contacts	1 to 4 dep on measu range		1 to 3 dep on measu range		1 to 4 dep on measu range	•	1 to 3 dep on measu range				
Liquid filling	-	Ester oil	-	Ester oil	-	Ester oil	-	Ester oil			
Electrical connection	cable co section c screw ty	of the cor	3	back (without pressure relief opening)							
Accuracy class		cl. 1,6 according to EN 837-3, cl. 2,5 with liquid filling and ranges 025 mbar up to 0100 mbar									
Ranges	00,4	bar up to	to 02 o 040 sitive /ne	bar: flar	nge Ø 10	00 mm		e			
Application	Constant load:up to full scale valueAlternating load:up to 0,9-fold full scale value										
Overload capacity	≤ 0,25 bar: 5 x full scale value > 0,25 bar - ≤2,5 bar: 3 x full scale value > 2,5 bar: 5 x full scale value, max. 40 bar								10x full scale value ; max. 40 bar, vacuum proof up to - 1 bar		
Case	Stainles	ss steel,	blank								
Upper flange	Steel, b	lack									
Connection with upper flange - position - thread	Steel, black radial bottom G 1/2 B, SW 22								other threads or open flanges on request		
Ring			bayone	t							
Window	Plexigla		bayono								
Dial	-		and prin	ting blag	~k				Dual scale		
Pointer	Al black			ung blac					Dual Scale		
Movement			ng parts	nickols	ilvor						
Elastic measuring	≤ 2,5 ba			s steel							
element						orm 600)					
Seal to pressure chamber and filled internal chamber	> 2,5 bar: stainless steel (Duratherm 600) NBR (Perbunan)								FPM (Viton) or PTFE		
Medium temperature			_{ix} . 100 °(0							
Ambient temperature	T _{min} 20°C, T _{max} . 60°C										
Temperature drift	0,5%/10K deviation of normal temperature 20°C										
Protection EN 60 529/ IEC 259	IP 54 IP 65 IP 54 IP 65 IP 54 IP 65 IP 54 IP 65										
Wetted parts	see process connection with lower flange and elastic measuring element								Special materials on request		
Orifice						Ø 0,4; Ø 0,8 mm					
Measuring range		Magnetic snap-action contact Inc									
25 mbar 40 mbar up to 160 mba	ar	4							3		
40 mbar up to 160 mba ab 250 mbar	ai	4							3		
Electrical details; see technica	linfor+'	a abantar		~							

Electrical details; see technical information - chapter 6

Electrical accessories: see technical information - chapter 6

Dimensioned drawing



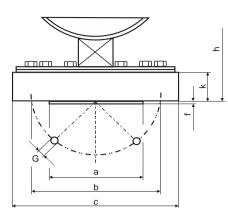


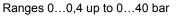
	Ranges Dimensions (mm)									Approx. weight (kg)					
ND	(bar)	d	а	B±1 with		D1	D2	G	h±2	SW	unfilled, with		filled, with		
		u	a	1+2 cont.		DZ	1+2 cont.				3 cont.	1+2 cont.	3 cont.		
100	≤0,25	160	15,5	88	96	101	99	G1/2B	117	22	3,7	3,7	4,2	4,2	
160	40,25	100	50 15,5	00		161	159		149		4,6	4,7	5,8	6	
100	> 0,25	,25 100 15,5	15,5	88	96	101	99	G1/2B	117	22	2,2	2,2	2,7	2,7	
160	> 0,25	100	15,5	00	90	161	159	G1/2D	149	22	3,1	3,1	4,3	4,4	

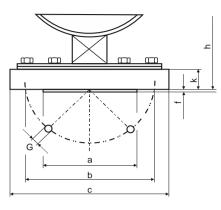
Connection according to EN 837 / 3

Dimensioned drawing Options with DIN-flange connection DN 25, PN 10 up to PN 40

Ranges 0...25 up to 0...250 mbar





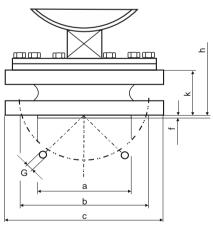


ND	DIN-flange DN 25			Approx weight (kg) ²⁾					
	PN 10 up to 40 ¹⁾	С	b	а	k	f	G	h±2	
100	≤0.25 bar	160	85	68	36	2	2 4 x M12	122	3,0
160	≤0,25 bai	100	05	00	50	2		152	3,0
100	> 0,25 bar	115	85	68	25	2	4x M12	111	0,9
160	> 0,25 Dai							141	0,9

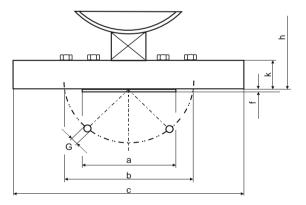
other dimensions as standard version

Options with DIN-flange DN 50, PN 10 up to PN 40

Ranges 0...25 up to 0...250 mbar



Ranges 0...0,4 up to 0...40 bar



ND	DIN-flange DN 50			Approx weight (kg) ²⁾					
	PN 10 bis 40 ¹⁾	С	b	а	k	f	G	h±2	
100	≤0.25 bar	165	125	102	54	3	4 x Ø 18	140	2,6
160	≤0,25 bai	105	125	102	54	5		170	2,6
100	> 0,25 bar	165	125	102	30	3 4 x Ø	3 4 x Ø 18	106	2,5
160		100	125	102	50			136	2,5

other dimensions as standard version

1) Suitable for mounting flange according to DIN, sealing face form D acc. to DIN 2526.

2) The listed weights are additional mass, which must be added to the weight of the standard version

(connection G1/2 B acc. to DIN 16 288).