

Absolute pressure gauges with diaphragm New: as multifunctional pressure instrument

with or without electrical alarm contacts Nominal size ND 100, 160 Connection position bottom, radial



Description

Absolute pressure gauges are always used when particularly with measurement of low pressures or vacuums - influence from atmospheric air pressure fluctuations which could falsify measurements has to be ruled out.

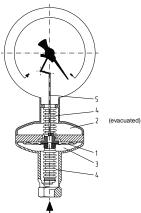
The design and materials are selected to allow the instruments to satisfy the stringent demands of the chemical industry. They are used with chemically aggressive media (fluids) and/or in aggressive environments. With highly viscous or crystallizing media, the instruments are fitted with open process connections, thus facilitating rapid and thorough cleaning.

Structure and function

The diaphragm element (1) separates the medium chamber (3) from the reference pressure chamber (2) at an absolute pressure of zero.

The differential pressure of 2ero. The differential pressure between the medium chamber (3) from the reference pressure chamber (2) causes the diaphragm element (1) to deflect, thus producing the measurement travel.

The measurement travel is transmitted out of the pressure chamber by bellows or corrugated tubes (4), applied by the push rod (5) to the movement, and displayed. The diaphragm is protected in overload conditions by support surfaces.



Features

- o Measuring system and case in stainless steel
- o Process connection with threaded spigot or open flange, both in stainless steel
- o Inductive alarm or magnetic snap-action contact
- o High resistance to overload
- o Possible with highly viscous and crystallizing media

Ranges

0 ... 25 mbar to 0 ... 25 bar absolute pressure

Applications

Chemical and petrochemical industry, pharmaceutical and cosmetic industry, food and beverage industry, vaccuum, drying and bottling systems

> Model: P2900, P2901, P2903, P2904 P2905, P2906, P2908, P2909

tecsis GmbH Carl-Legien-Str. 40 D-63073 Offenbach/Main Tel.: +49 69 5806-0

Sales national Fax +49 69 5806-170 Sales international Fax +49 69 5806-177 e-Mail: infol@tecsis.de Internet: www.tecsis.de

Technical data

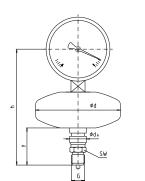
Models	P2900	P2905	P2901	P2906	P2903	P2908	Options				
Nominal size	100	160	100	160	100	160	•				
Symbol											
Contact type	none	none magnetic snap-action Inductive									
Number of contacts	none		1 - 3	ector right ha	4 20 mA						
Electrical connection	none	plug									
Accuracy class	2.5 to EN 83	downwards 2.5 to EN 837-3									
Ranges	0 25 mba	r to 0 25 b	oar absolute p	oressure							
Overload capacity	min. 1 bar a and above 1	>10 x full scale value									
Application	Constant loa Alternating I										
Case	Stainless st	Liquid filling, EN 837-3/S3									
Bezel	Bayonet ring	Bayonet ring, stainless steel 1.4301									
Window		Laminated safety glass									
Dial		Aluminium, white, scale and imprint black									
Pointer	Aluminium,										
Movement	Copper alloy	Zero point adjustment									
Measuring element	≤ 0.4 bar, S > 0.4 bar, N	special materials									
Pressure connection -position	Stainless sto radial, botto										
-thread	G 1/2 B, SW	Flange connection									
Measuring chamber	Stainless st										
Temperatures -Medium -Ambient	Tmin20°C Tmin20°C	, Tmax. 100	°C								
Temperature drift	0.5%/10K if	1									
Mounting	fixed measu	Instrument holder for wall or pipe mounting									
Protection	IP 54 to EN	IP 65									

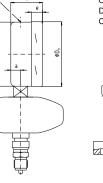
Electrical data and switching functions see data sheet DE 1231 and DE 728 Electrical accessories see data sheet DE 1230 $\,$

zero-point adjustment

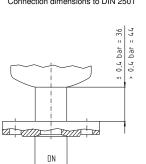
ő

Dimensions

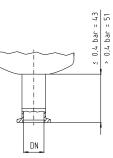




Open process connection DN 15 ... 50, PN 6 / 40 Connection dimensions to DIN 2501



Miniature flange for vacuum systems DN 10 ... 32 Connection dimensions to DIN 28 403



Model P2900 and P2905

	Ranges		Dimensions [mm]										Weight
ND	[bar]	а	b	D ₁	D ₂	d	d ₆	е	G	h ± 1	у	SW	[kg]
100	≤ 0.4	15.5	49.5	101	99	133	26	17.5	G ½ B	185	58	22	1.8
	> 0.4	15.5	49.5	101	99	76	26	17.5	G ½ B	177	66	22	1.2
160	≤ 0.4	15.5	49.5	161	159	133	26	17.5	G ½ B	215	58	22	2.3
	> 0.4	15.5	49.5	161	159	76	26	17.5	G ½ B	207	66	22	1.6