

Pressure Transducer with local indication all stainless steel

according to DIN 16 006 nominal size 100

with or without filling



Description

Standard system pressure gauges and the safety version to EN 837-1 / S3 meet the special requirements of the chemical and related industries with regard to safety, reliability, corrosion resistance and robustness.

The special feature of tranducers with local display is an analog display of the measured value on side and the output of a corresponding electrical standard signal (mostly 4...20mA) for transmitting the measured value. A pressure related mechanical measuring element (diaphragm or Bourdon tube) provides the local display and simultaneously controls a magnetic-field dependent sensor. The integrated electronics supply the standardized signal.

Gauges with liquid filling provide a practically vibration-free display if pressure surges or mechanical vibrations arise and have a particularly long service life.

For more difficult measuring tasks (e.g. hydrostatic column), two potentiometers enable the zero point and measuring range to be set.

Pressure sensores Industrial Heavy Duty meet the electromagnetic compatibility (EMC) requirements of EN 61326.

Features

- O Local display
- O Display accuracy: up to 0...0.4 bar, class 1.6 from 0...0.6 bar, class 1.0
- O Safety version to EN 837-1 / S3
- O Corrosion resistant stainless steel design
- O Standard signals: 4...20mA, 2-wire; 0...20 mA, 3-wire
- O Liquid filling of case to provide damping of measuring system.

Measuring ranges

Gauge pressure

negative - 1 ... 0 bar to -0.06 ... 0 bar positive 0 ...0.06 bar to 0 ... 1000 bar

Applications

Chemical and petrochemical industries, Pharmaceutical and cosmetics industries, Food and beverage industries.

Model: P2850, P2851, P2860,

P2861

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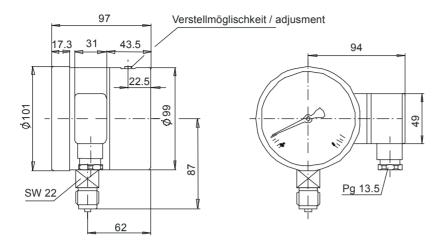
Technical data

Models	P2850	P2851	P2860	P2861	Options
Nominal size	100				•
Liquid filling	none	siliconoil	none	siliconoil	
Pressure type	negative or positive gauge pressure				negative and
					positive gauge
					pressure
Output signal	0 20 mA 4 20 mA			intrinsically safe	
	3-wire system 2-wire system				version on request
Accuracy					
display	≤ 00.4 bar class 1.6				
autout sissaal 1)	≥ 00.6 bar				
 output signal ¹) 	\leq 00.4 bar \pm 1.0 % of F.S.				
D	\geq 00.6 bar \pm 0.8 % of F.S.				other ranges
Ranges accord. to EN ²)	,				
	to 0 1000 bar				on request
Overload limit		0	1000 bai		
constant load	1.0-fold				
alternating load	0.9-fold				
short time load	1.3-fold (< 0.6 bar 10-fold)				
Case	stainless steel 1.4301				
Pressure connection	G½ B to EN 837-1 /7.3				G¼ B; ½ NPT;
	0,22 to 2.1.00.				1/4 NPT
Wetted parts	stainless steel 1.4571				
Electrical connection	junction box with PG 13.5				
Power supply	10 30 VDC				
 influence of power 	\leq 0.1% of F.S / 10 V				
supply	400/				
 permissible residual 	≤ 10% ss				
ripple	ourrent signal 115 mA				
Power consuption	current signal +15 mA current signal				
Load	$RA [\Omega] \le (UB [V] - 10 V) / 0.02 A$				
Temp. compens. range	-25 60 °C				
Temperature influence	± 0.3 % / 10 K on zero and span				
Adjustiblity	4- 1 5 0/	of C 0 (-l)		
- electrical	up to ± 5 % of F.S. (zero and span)				
- mechanical	approx. 5 % of F.S. (only for ranges ≤ 0400 mbar)				
Response time	approx. 50 ms				_
Protection types 3) Emission 4)	IP 54	IP 65	IP 54	IP 65	
,	to EN 61326				
interrerence)	to EN 61326				
Electr. protection types Temperature ranges	polarity and overvoltage protection				\dashv
medium	- 25 100°	- :			
- medium - ambient	- 25 60°C				
Weight	0.8 kg	1.5 kg	0.8 kg	1.5 kg	\dashv
vveignt	0.0 kg	1.5 kg	U.O Kg	1.0 kg	

of F.S. = of full scale value

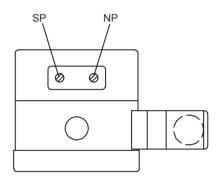
Terminal point adjustment according to DIN 16 086, incl. linearity and hysteresis Liquid filling from 0 ... 0.6 bar According to EN 60529 / IEC 529 Declaration of conformity on request 2)

Dimensions (mm)



Position of potentiometers

The potentiometer can be reached by unscrewing the screws of the case.

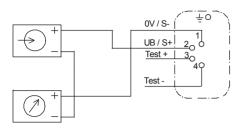


S potentiometer for span adjustment Z potentiometer for zero point adjustment

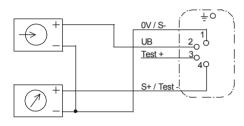
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Electrical connection

two-wire system



Three-wire system



Order details

- 1. Model
- Measuring range
 Output signal
 Options