

Differential pressure measuring instruments with compression spring and diaphragm seal

with or without microswitch

Nominal sizes ND 100 Connection position bottom, radial



Description

Differential pressure measuring instruments with compression springs are primarily designed and built for the industrial and sanitary measuring technology sectors. These instruments fully consider the needs of the gas, water and air supply sectors and are also used for the treatment of such media.

These measuring instruments are suitable for liquid and gaseous media in so far as these are not aggressive or highly viscous and do not crystallise. Moreover, they must not contain any magnetic material.

Differential pressure measuring instruments with electric microswitches are suitable for controlling and regulating process sequences by means of the given process pressure.

Function:

The robust, compact measuring system for measuring the differential pressure comprises a diaphragm, which is loaded on both sides by the springs which determine the measuring ranges. If the diaphram is loaded with a varying pressure the differential pressure - a deflection occurs which is transferred by a piston to the pointer mechanism or microswitch, respectively, to cause a pointer deflection proportional to the differential pressure and actuate the microswitch.

Features

- o Measuring cell in pressure cast aluminium, compression springs made of high grade stainless steel
- o Static pressure and overloading up to 25 bar
- o Contact device for up to two microswitches
- o Integrated max. working pressure display
- o Fastening bracket to the back for wall mounting
- o Compact version, easy fitting

Ranges

0 ... 250 mbar to 0 ... 25 bar

Applications

Filter plants, pipeline systems, valve and pump monitoring and for gas, water and air supply lines.

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Technical data

Series		P2590	Options		
Nominal size		100	•		
Туре					
Type of contact	without	or with Microswitch			
LCD display - tension load	With	out LCD-display	31/2-digit, 12.7 mm high with analogue output 420 mA 3.5 DCV		
Number of contacts		without 1 - 2			
Electrical connection	6 screw term	without nector right hand side inals + PE, wire 2.5 mm ² w type M20 x 1.5	M16x1.5 with 1m cable		
Accuracy class	2.5% of end scale value (working pressure display 49		1.6% on request		
Ranges	0 250 mbar to 0 25 bar Separate display of max. wo	orking pressure display 0 25 bar	without working pressure display		
Overloading		one-, billaterally and reciprocally sided)			
Application range	Alternating load: up to 0.	ll scale value 9 - fold to full scale value			
Case	Aluminium pressure diecast	ing, black			
Ring	Without		Fastening bezel, front		
Window	Plastic, Plexi				
Dial	Aluminium, white - scale out	tside, black			
Movement	CuZn alloy				
Pointer	Micropointer, adjustable poi	nter - Aluminium, black			
Pressure chamber (in contact with measured media)	GD-AlSi 12 (Cu) Material No black finish	o. 3.2982	HART-COAT or stainless steel		
Measuring element (in contact with measured media)	Compression spring, high gr Diaphragm, Viton ^{® 1)} (FPM)		Perbunan (NBR),fabric reinforced		
Pressure connection - Position	radial bottom to t	el with galvanized surface the bottom behind each other, al distance 26 mm			
- Thread ²⁾		cutting ring unions for 6 mm dia. tube	Other threads on request		
Special features		5 6	Pressure relief valve integrated in the gauge		
Temperatures - Measuring media - Ambient	Tmax. 90°C Tmin10°C, Tmax. 70°C				
Degree of protection IP 54 to EN 60 529 / EC 529			IP 65		

Protection (in or to bit of bi

Dimension

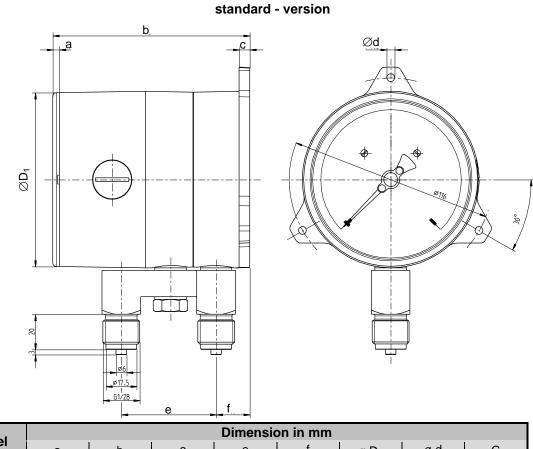
Model P2590

Version with microswitch (single and / or doble changeover contact)

Electrical connection	Electrical data:		
		AC	DC
	Max. switching voltage	250 V	30 V
	Max. switching capacity	5 A	0.4 A
41 42 43 51 52 53	Max. current	250 VA	10 W
	Repeatability 1.6%		
1 4 2 3 6 5	Switching reverse voltage 5% of full scale value.	Contactaction:	
	Adjustment:	1x – changeover contact	5.3
Contact action 5.3.3	15% to 100% of full scale value.	2x – changeover contact	5.3.3

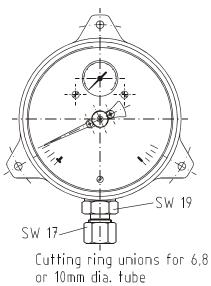
Dimensions

Model P2590

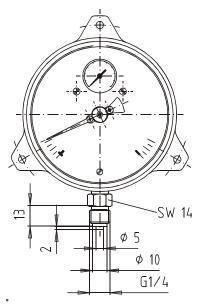


	Dimension in thin							
Model	а	b	С	е	f	ø D ₁	ø d	G
P2590	4	112	6	54	19	100	4,5	G1/2 B

Model P2590 working pressure display



Options: male thread G 1/4 B

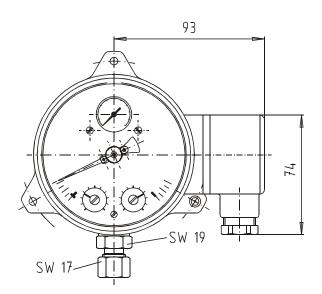


Dimensions

Model P2590

Option:

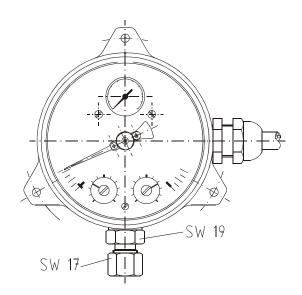
Version with cable box M20x1.5



surface mounting flange, front

for panel mounting

Version with M16x1.5 and 1 m cable



Option: Integrated pressure equalizing valve

