DIFFERENTIAL PRESSURE GAUGE without or with 1 or 2 microswitches



Nominal size 100

Accuracy 2,5

Description

The instruments of this type are suitable for measurement of pressure, differential pressure and partial vacuum in field of industrial and sanitary techniques.

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.

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

Differential pressure transmitters are used everywhere, where signal transmission is required, while a differential pressure must be displayed on site.

Applications

Water and wastewater industry Pressure vessels, process heat technology Heating, air conditioning and ventilation technology Mechanical and plant engineering Fire extinguishing systems Marine boilers



Features

- long life
- Static pressure and overloading up to 25 bar
- · Compact version, easy fitting
- Fastening bracket for wall mounting

Ranges

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

Different versions, for example.:

Pressure connections

- Compression fitting for pipe
- G¼ femal
- G¼ male

Electrical connections

- without
- Cable gland M20 x 1,5
- Connector housing
- Angle connector 7-pin

Switches

- -without
- 1 adjustable microswitch 2 adjustable microswitches

more options

- Panel mounting flange
- 4-way valve manifold

Technical data

Туре	5591	Optionen	
Symbol		bayonet ring design	
Nominal size	100		
Accuracy class	± 2,5% of full scale	1,6% (without switch)	
Differential pressure measuring ranges	0 …250 mbar up to 0 … 25 bar		
max. static pressure	depending on measuring range , see table below		
max. pressure load	One-sided overpressure protected up to nominal pressure on (+) and (-) side, part. vacuum protected		
Case	Aluminium, black laquared	AI with HART-COAT stainless steel 1.4301	
Measuring system Measuring diaphragm	≤ 16 bar Diaphragm measuring system Diaphragm and gaskets of NBR oder Viton® 25 bar Diaphragm measuring system Diaphragm of Duratherm®		
Wetted parts	1.4310, 1.4305		
Cover	Macrolon		
Zero adjustment	located in the scale		
Pressure connection	cutting ring connection for pipe 6,8,10 mm, steel G¼ female, G¼ ma cutting ring connection brass, CrNi-steel, others on request		
Temperatures	ambient temperature -10+70°C (but max. 55°C in case of SEV) medium temperature 70°C storage temperature -1575°C		
Protection classs	IP55 acc. to DIN EN 60529	IP65 at bayonet design	
Weight	pressure chamber of Al approx. 1,2 kg	at 1.4305 approx. 3,5 kg	

Measuring range	max. static operating pressure
0250 mbar bis 0400 mbar	6 bar
0…0,6 bar	10 bar
01 bar	16 bar
01,6 bis 025 bar	25 bar
-0,60 bar	10 bar
-10 bar	16 bar
-10,6 bar bis -15 bar	25 bar

Switching elements			
Contact output	1 or 2 microswitches, 1-channel change-over contacts		
Adjustm. Of switching pts.	external adjustment by standard value scales smallest adjustable value: approx. 5% FS		
Switching hysteresis	approx. 2,5 % FS		
Load data / contacts	AC	DC	
Umax	250 V	30 V	
Imax	5 A	0,4 A	
Pmax	250 VA	10 W	

Dimensional drawings Dimensions in mm

Process connection - cutting ring connection, wall mounting







Panel mounting



Four-spindle shut off and equilizing valves



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Dimensional drawings Dimensions in mm

Version - cable terminal box or 7-channel plug



Version - cable gland



assignment of connecting terminals

cable gland

7-channel plug



