

DIFFERENTIAL PRESSURE GAUGE WITH 1 OR 2 MICROSWITCHES



DRUCK & TEMPERATUR

Nominal size 100

Accuracy class 2,5

Differential pressure gauges of this types are suitable for over, under and differential pressure measurements in industrial and sanitary measuring technology.

They can be use for liquid and gaseous media that are not aggressive, highly viscous or crystallising.

Devices with electronic microswitches are for controlling and regulating process sequences.

Areas of application:

Heating systems (flow and return)

Monitoring of filters, compressors and fans



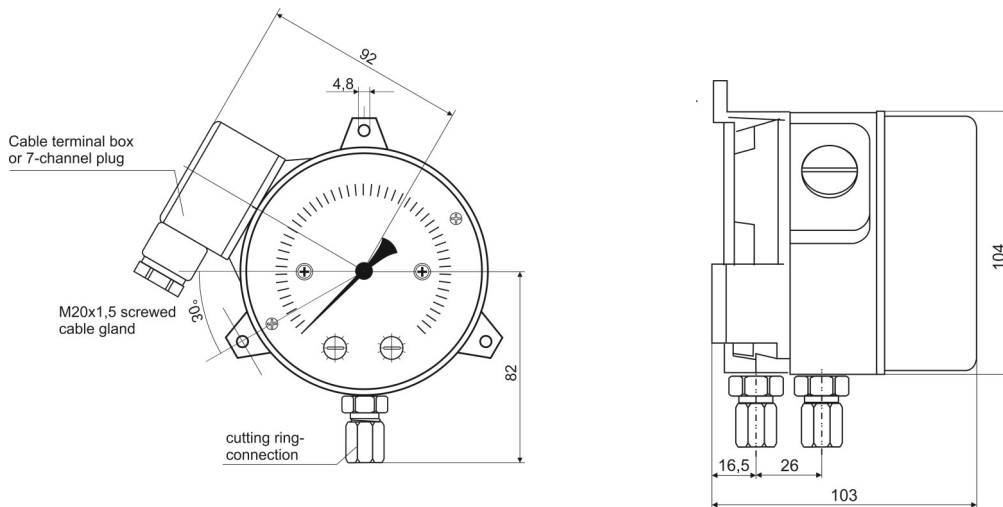
Type	5591		Options
Nominal size	100		
Accuracy	± 2,5 % of the upper range value		
Differential pressure ranges	0...250 mbar up to 0...25 bar		
max. static pressure	<u>Pressure range</u> 0...250/400 mbar 0...0,6 bar 0...1 bar 0...1,6 bis 0...25 bar -0,6...0 bar -1...0 bar -1...0,6 bis -1...5 bar	<u>Permissible static operating pressure</u> 6 bar 10 bar 16 bar 25 bar 10 bar 16 bar 25 bar	
Pressure chamber	Aluminium, black varnished (only up to 16 bar)		Al with HART-COAT® or 1.4305, 1.4571
Pressure connection	G1/4 female, steel		Compression fitting for 6,8 or 10 mm brass, steel or 1.4571, G1/4B / G1/2 male DIN EN 837 brass or stainless steel
Diaphragm	NBR		Viton®, Inconel 718
Seals	NBR or Viton®		
Bayonet case	1.4301		
Pointer, dial	Aluminium		
Window	Covering cap Makrolon		
Zero point adjustment	arranged in front of the scale		
Case protection	IP 55 or IP65 acc. EN 60529 depends on version		
Electrical connection	hard-wired number cable		7-pin plug connection Cable socket
Temperatures	Ambient: -10°C bis +70°C Medium: -10°C bis +70°C Storage: -15°C bis +75°C		
Weight	Pressure chamber Al: approx. 1,2 kg, Pressure chamber stainless steel: approx. 3,5 kg		
Mounting optional	for wall mounting with 3 mounting tabs, with front flange Ø132 mm for panel mounting		

Type 5591

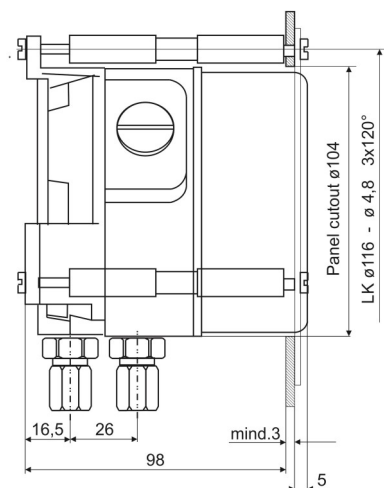
Dimensional drawings

Dimensions in mm

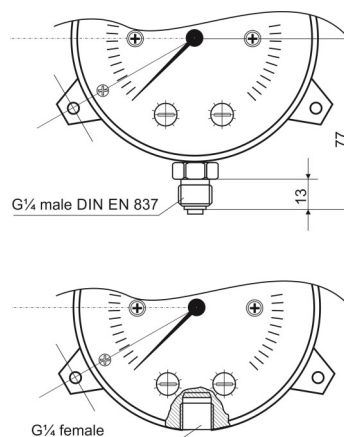
Example with the cutting ring fitting and cable socket option



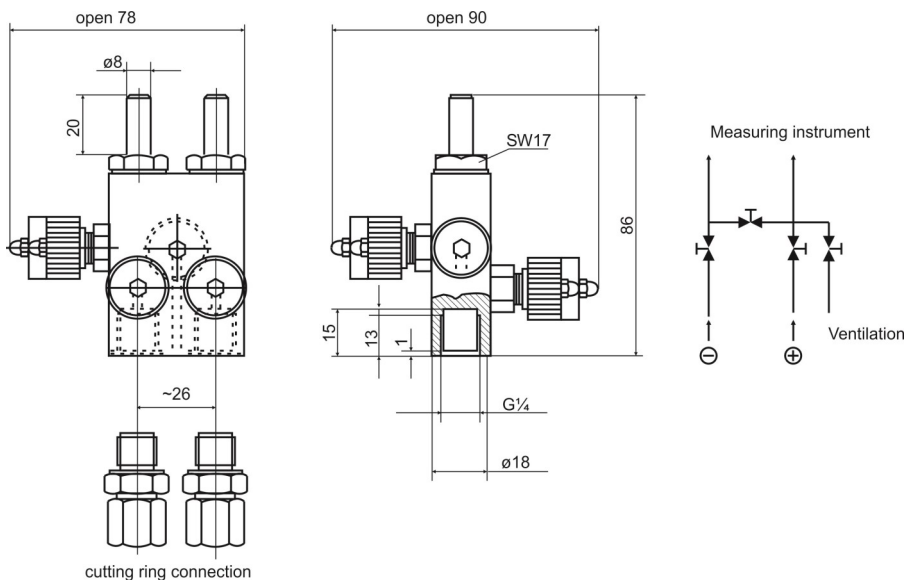
Panel mounting



Process connection variants



Optional accessories: four-spindle compensating and shut-off valve



Type 5591

Switch contacts

Output parameters



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Switch contacts	1 or 2 microswitches
Switching function (per contact)	Changeover contact
Switch point setting	Can be set to reference scales from outside
Smallest settable value	5% of the full scale value
Switching hysteresis	2,5% of the full scale value

Per contact	AC	DC
Switching voltage	250 V	30 V
Switching current	5 A	0,4 A
Switching output	250 VA	10 W

Assignment of the connection terminals

