

# DIFFERENTIAL PRESSURE GAUGE WITH MICRO SWITCH

## Connections 2 x G1/4 internal in a row



**Nominal size 100**  
**Accuracy class 2,5**  
**DIN EN 837-3**

Differential pressure gauges of this series are primarily used to control low differential pressures with high demands on one-sided overload and high static pressure.

Areas of application: controlling of filters, compressors and pumps for drinking and cooling water treatment systems, fire extinguishing systems, ship boilers, heating technology...



Type	2591	Options
Nominal size	100	
Symbol		
Accuracy	Differential pressure display $\pm$ 2,5 % of full scale range	Differential pressure display $\pm$ 1,6 % (only at 0...1 up to 0..10 bar)
Differential pressure indicating range	0...250 mbar up to 0...10 bar	
Indication of operating pressure	0...25 bar, accuracy class 4, Ø 22 mm	0...10 or 0...16 bar
Applications	Constant load: full scale value Alternating load: 0,9 x full scale value Maximum load: 25 bar - unilateral-, two-sided and mutual in the (+) and (-) side	
Case	Aluminium, black	
Connection	2 x female thread G1/4, bottom position, one behind the other	Others for female and male thread Cutting ring connection for tubes 6,8 or 10 mm
Material connections	Aluminium	
Wetted parts	Differential pressure: compression spring CrNi-steel 1.4310 Operating pressure: bourdon tube Cu-alloy	
Separating diaphragm	FPM / FKM	NBR
Sealing	FPM / FKM	NBR
Window	plastic, with screw plug for switch point adjustment	
Pointer mechanism	Copper alloy	
Dial	Scale and lettering black	
Zero point setting	Frontal arranged in the scale	
Protection	IP 65 IEC/EN 60529	
Temperatures	Storage: -40°C up to +70°C, ambient: -10°C up to 70°C	
Medium temperature	-10°C up to 90°C	
Weight	ca. 1,4 kg	
Accessories optional		4-way valve block
Electronic connection	Junction box or angled plug connector	
Mounting	For wall mounting with 3 mounting brackets	Front flange for panel mounting in CrNi-steel or CrNi-steel black

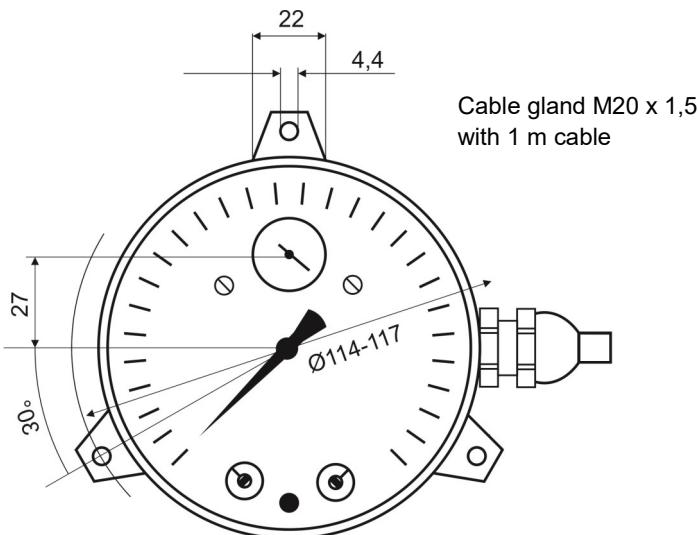
Type 2591

## Dimensional drawing type 2591

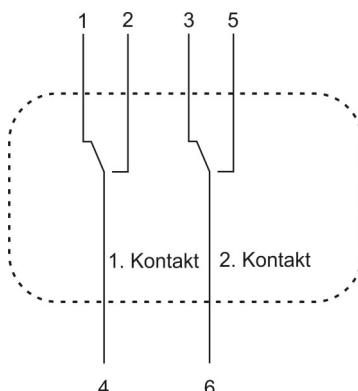
Dimensions in mm



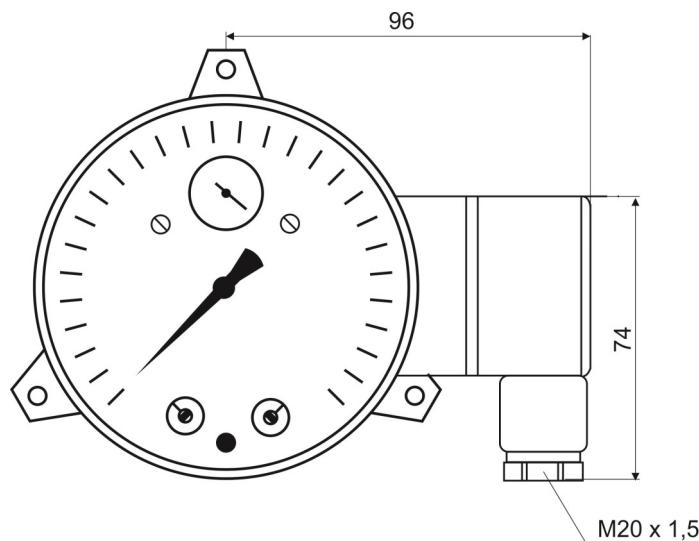
**Version with connections 2 x G1/4 female, wall mounting with mounting brackets, with cable gland**



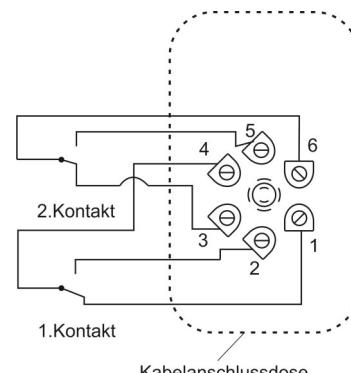
**Connection diagram**



**Execution with junction box or angled plug connector**



**Connection diagram**



Electric contact	
Contact type	Micro switch
Contact function	Simple changeover, double changeover
Load data Umax., Imax., Pmax.	AC 250 V, 5 A, 250 VA    DC 30 V, 0,4 A, 10 W
Switch point adjustment	From the outside on auxiliary scale with adjusting screw(s)
Adjustment range	from 10 % up to 100 % of full scale value
Reduction of the switch point	≤ 1,6 %
Switching hysteresis	max. 5 % of full scale value (option: max. 2,5%)
Electric connection	Cable gland M20 x 1,5 with 1 meter free cable