



Data Sheet
SD-80 Series
Pressure Sensors

Distributed by



[www. BristolInstruments.com](http://www.BristolInstruments.com)

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Toll free
877-866-8500

Differential-pressure sensor with internal diaphragm made of silicon



Accuracy 1.0 % according to IEC 61298-2

Special features

High durability
For dynamic and static measurements

Applications

Clean room and medical technology
Filter monitoring
Valve and damper control
Fan and blower control

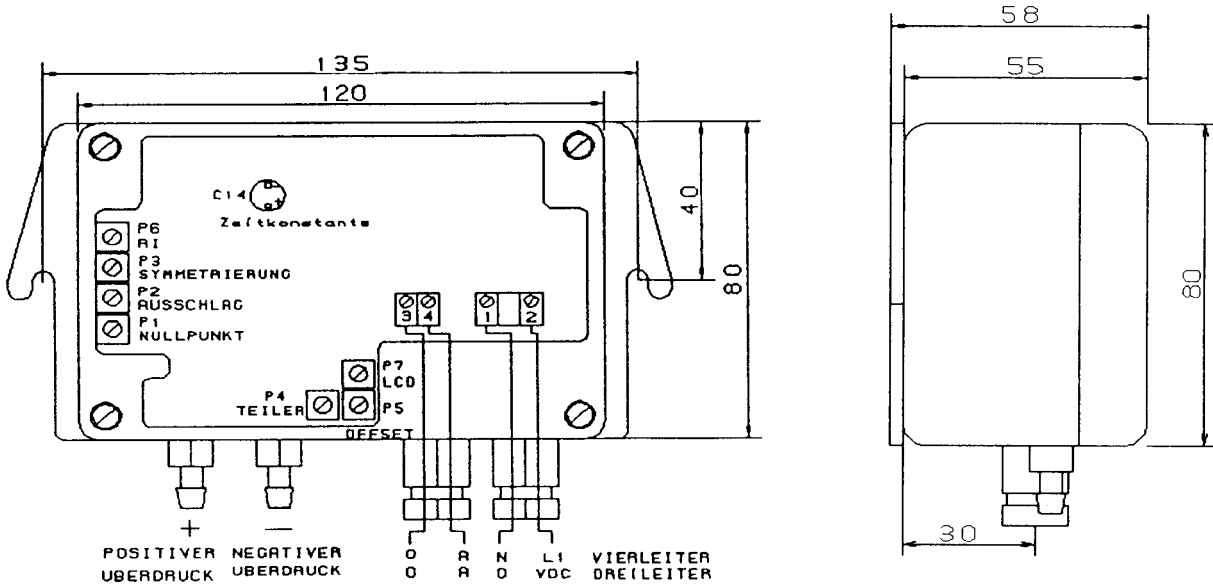
Usage

For non-corrosive gas,
dry, clean air
and low pressures.



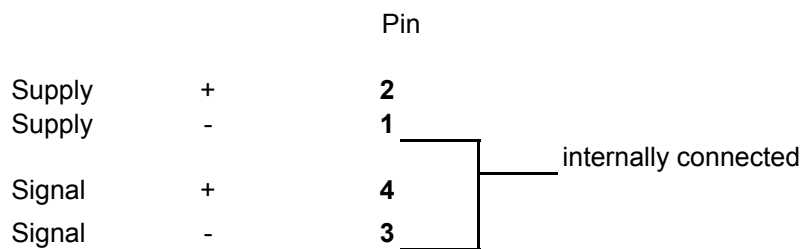
Low pressures and clean, dry gases				
Type	SDD-80	SDD-81	SDD-82	SDD-83
Conn.position				
Data sheet SD 810				
Connection	2 x Hose nozzle, brass nickel-plated, 4 / 6 mm external diameter			
Accuracy	1.0 % of full scale			
Output signal	4...20 mA, 2-wire	4...20 mA, 3-wire	4...20 mA, 3-wire	4...20 mA, 3-wire
Display	Without	Without	3½-digit red LED display, 8mm height	
Switch output	Without	Open-collector, npn, via potentiometer		Without
Switch capacity	max. 100 mA, < 35 V DC			
Sensor element	Piezoresistive silicon sensor			
Wetted parts	Silicon, ceramic Al ₂ O ₃ , PVC, brass, viton (FKM)			
Case	Plastic (ABS), approx. 81 x 83 x 41 mm			
Electr. connection	Screw terminals 1.5 mm ² , cable entry M 12x1.5 made of polyamide			
Power supply	18...30 V DC			
Temperatures	Medium: 0°C to 50°C, ambient: -10°C to 70°C			
Protection class	IP 65 according to EN 60529 / IEC 529			
Ranges Range ID	0... 1 mbar = 601	0...2.5 mbar = 603	0... 5 mbar = 705	
	0...10 mbar = 701	0...25 mbar = 703	0... 50 mbar = 705	
	0...100 mbar = 710	0...250 mbar = 725	0...500 mbar = 750	
Ranges Range ID	0...1 bar = 001	0...2.5 bar = 003		

Dimensions



Electrical Connection

3-wire system



2-wire system

