

Measurement ranges (also ± measurement ranges) others available upon request	50/100/200/500 Pa 1/2.5/5/10/20/50 kPa
Margin of error (0.3 Pa margin of error for the reference)	± 2 % of the set value for ≥ 100 Pa or ± 3 % of the set value for 50 Pa
Temperature coefficient span	0.1 % of max. value/K
Temperature coefficient zero point	0.1 % of max. value/K
Overload capacity	50 kPa for measurement ranges ≤ 2 kPa 200 kPa for measurement ranges > 2 kPa 500 kPa for measurement ranges > 10 kPa
Medium	air, all non-aggressive gases
Max. system pressure	10 kPa for measurement ranges ≤ 10 kPa max. nominal pressure of sensor for measurement ranges above 10 kPa
Sensor response time	20 ms
Time constants	20 ms..4 s adjustable (factory-provided)
Operating temperature	-20 .. 60 °C with Display 0 .. 50 °C
Storage temperature	-20 .. 70 °C
Power consumption	approx. 1 VA
Weight	approx. 0.25 kg
Cable glands	2 x M 12
Pressure ports	for tubing NW 4 or 6 mm
Protection class	IP 65
Certificates	CE

Output ¹⁾	A
0 .. 10 V (R _L ≥ 50 kΩ)	1
2 .. 10 V (R _L ≥ 50 kΩ)	2
0 .. 20 mA (R _L ≤ 500 Ω)	0
4 .. 20 mA (R _L ≤ 500 Ω)	4
0 .. 5 V (R _L ≥ 50 kΩ)	5

Power supply	B
24 VAC/DC ± 10 % without galvanic separation	AC/DC
15 .. 32 VDC two-wire (only for A = 4)	ZWL

Contact point	D
none	0
1 relay (changeover contacts) max. 230 VAC, 6 A (min. required switching capacity 300 mW) (not for two-wire)	1

LCD	E
none	0
4-digit	1

Time constant	F
20 msec	20
30 msec	30
60 msec	60
120 msec	120
250 msec	250
500 msec	500
1 sec	1
2 sec	2
4 sec	4

¹⁾ the output signal can be configured using DIP switches

Measurement range	C
Standard ²⁾ (e.g. 0 .. 100 Pa)	
toggles between: 100 Pa/250 Pa/ 500 Pa/1 000 Pa	1
toggles between: 250 Pa/500 Pa/ 1 000 Pa/2 kPa	2
toggles between: 1 kPa/2.5 kPa/ 5 kPa/10 kPa	3

²⁾ others available upon request,
also ± measurement ranges

Order code	A	B	C	D	E	F
PS27						

Relay parameter can be pre-set on request.



Photo: Version with optional display

Features

- Compact differential pressure transmitter for basic applications
- ± measurement ranges and asymmetric measurement ranges
- Either with one fixed measurement range or toggling between 4 different measurement ranges (can be selected via DIP switches, optional)
- Optionally with 2-wire technology (ZWL)
- With optional display
- With optional relay (6 A)
- Suitable for top-hat rail mounting and wall surface installation

PS27 without display

PS27 with display

