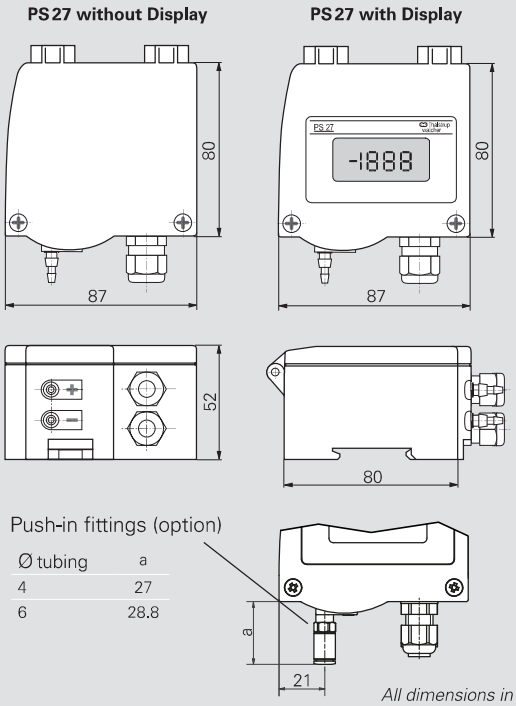
PS27



Figure: Version with display



Features

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

Order codel	A	B	C	D	E	F	G	H
PS27								

Output [2]	A
0 .. 10 V ($R_L \geq 50$ kΩ)	1
2 .. 10 V ($R_L \geq 50$ kΩ)	2
0 .. 20 mA ($R_L \leq 500$ Ω)	0
4 .. 20 mA ($R_L \leq 500$ Ω)	4
0 .. 5 V ($R_L \geq 50$ kΩ)	5

[2] the output signal can be configured using DIP switches

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

Measurement range		C
Standard [3] (e.g. 0 .. 100 Pa)		
switchable	100 Pa/250 Pa/ 500 Pa/1000 Pa	1
	250 Pa/500 Pa/ 1000 Pa/2 kPa	2
	1 kPa/2.5 kPa/ 5 kPa/10 kPa	3
	±100 Pa/±250 Pa/ ±500 Pa/±1000 Pa	1A
	±250 Pa/±500 Pa/ ±1000 Pa/±2 kPa	2A
	±1 kPa/±2,5 kPa/ ±5 kPa/±10 kPa	3A

[3] others available upon request, also ± measurement ranges

Relay parameter can be pre-set on request.

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

LCD	E
none	0
3 ½-digit [4]	1

[4] display up to ± 1999

Step response time	F
20 ms	20
30 ms	30
60 ms	60
120 ms	120
250 ms	250
500 ms	500
1 s	1
2 s	2
4 s	4

Pressure connections	G
tube fitting 4/6	S
Festo-Fittings 4 mm	K4
Festo-Fittings 6 mm	K6

Calibration certificate	H
none	0
Factory calibration	I
Calibration according to DKD R-6-1	D

Measurement ranges (also ± measurement ranges) others available upon request	50/100/200/500 Pa 1/2/5/10 kPa
Measurement accuracy [1]	± 3 % of the set value for < 100 Pa or ± 2 % of the set value for ≥ 100 Pa
Temperature coefficient span	max. 0.1 % FS/K
Temperature coefficient zero point	max. ±0.1 % FS/K
Overpressure limit	50 kPa for measurement ranges ≤ 2 kPa 200 kPa for measurement ranges > 2 kPa
Medium	dry air, all non-aggressive gases
Max. system pressure	10 kPa
Step response time (T63) (Time constant)	20 ms .. 4 s (adjustable)
Rated temperature range	-20 .. 60 °C; with display 0 .. 50 °C
Storage temperature range	-20 .. 70 °C
Power consumption	max. 1 VA
Weight	approx. 0.25 kg
Cable glands	2 x M12 clamp range Ø 3 .. 6.5 mm
Protection class	IP65
Certificates	CE/UKCA

[1] Measurement accuracy for the reference 0.3 Pa, for measuring ranges ≤ ±1.5 kPa