



Special features

- for positive and negative differential pressures
- little zero point drift or hysteresis;
largely independent of temperature
- also for top-hat rail mounting
- Zero-point calibration can be run via an external signal
- switching contact with adjustable thresholds (optional)
- output signals selectable via jumper
- four measurement ranges selectable via jumper (optional)
- with LCD (optional)

Technical datas

measurement ranges (others available upon request)	100/200/500 Pa 1/2/5/10/20/50/100 kPa
margin of error	2 % of end value
deflection drift / temperature	0,1 % / K
zero point drift / temperature	0,1 % / K
overload capacity	12x for measurement ranges ≤ 20 kPa 4x for measurement ranges ≥ 20 kPa
medium	air, all non-aggressive gases
max. system pressure	10 kPa for measurement ranges ≤ 10 kPa for measurement ranges 10 kPa max. nominal pressure of sensor
sensor response time	20 ms
time constants	20 ms ... 4 s adjustable (factory provided)
operating temperature	0 °C... +60 °C, with LCD 0 °C... +50 °C
storage temperature	-10 °C... +70 °C
power consumption	approx. 1 VA
weight	approx. 0,25 kg
cable glands	2 x M12
pressure ports	for hose $\varnothing$ 4-6 mm
protection class	IP 65
testing	CE

output signals	A
0 ... 10 V ($R_L \geq 50$ k Ω)	1
2 ... 10 V ($R_L \geq 50$ k Ω)	2
0 ... 20 mA ($R_L \leq 500$ Ω)	0
4 ... 20 mA ($R_L \leq 500$ Ω)	4
0 ... 5 V ($R_L \geq 50$ k Ω)	5
output signals adjustable via jumper	
power supply	B
24 V AC/DC (without galvanic separation)	AC/DC
15 ... 32 VDC (two wire system)	ZWL
measurement range	C
standard (e. g. 0-100 Pa)	
switchable: 100, 250, 500, 1000 Pa	1
switchable: 250, 500, 1000, 2500 Pa	2
switchable: 1, 2,5, 5, 10 kPa	3
switchable: 10, 25, 50, 100 kPa	4
contact point (not for two-wire system)	D
none	S
1 switch relay max. 230 VAC, 6 A (min. required switching capacity 300mW)	1
LCD	E
none	0
4 digit	1

Order key

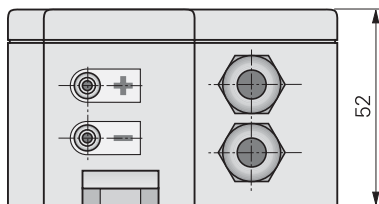
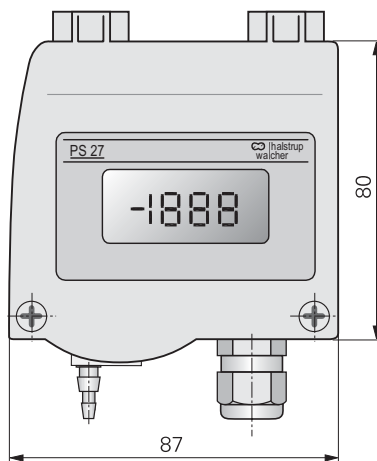
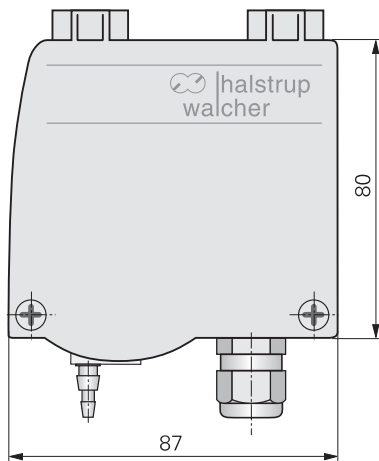
A	B	C	D	E
PS 27	-	-	-	-
accessories				
☐ DKD-calibration certificate, German				9601.-0003
☐ DKD-calibration certificate, English				9601.-0004
☐ factory calibration certificate				9601.-0002

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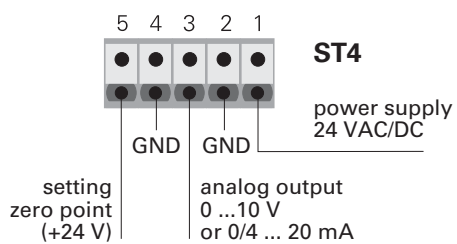
Dimension drawing

no LCD

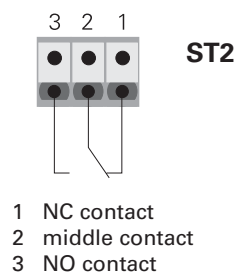
with LCD



PS27 connection diagram



PS27 relay outputs



PS27 connection diagram (two wire system)

