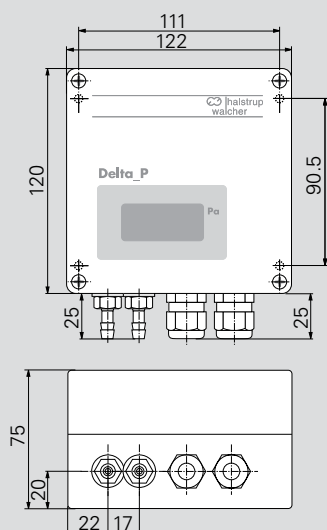




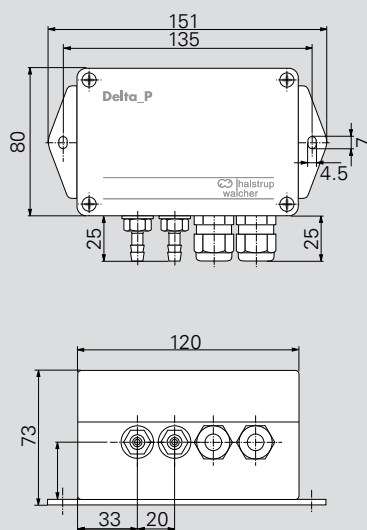
Features

- Differential pressure transmitter with linear curve for air-conditioning applications
- Also available as a two-wire system ("PIZ" model)
- Also for \pm measurement ranges and asymmetric measurement ranges
- With optional LCD

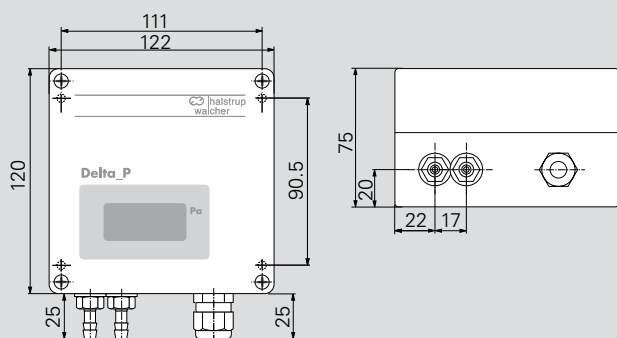
PU/PI with display



PU/PI without display



PIZ with display



Measurement ranges (also \pm measurement ranges) others available upon request	50/100/250/500 Pa 1/2.5/5/10/20/50/100 kPa
Margin of error (0.3 Pa margin of error for the reference)	0.2 % of max. value only for measurement ranges ≥ 250 Pa 0.5 % of max. value, min. 0.3 Pa 1 % of max. value
Temperature coefficient span	0.04 % of max. value/K (10..60 °C)
Temperature coefficient zero point	0.04 % of max. value/K (10..60 °C)
Zero point stability	0.5 % of max. value/year
Overload capacity	10 x for measurement ranges ≤ 20 kPa 2 x for measurement ranges > 20 kPa
Medium	air, all non-aggressive gases
Max. system pressure	10 kPa for measurement ranges ≤ 10 kPa max. nominal pressure of the sensor for measurement ranges above 10 kPa
Sensor response time	20 ms
Operating temperature	10..60 °C
Storage temperature	-10..70 °C
Power consumption	PU/PI: approx. 3 VA PIZ: max. 0.6 VA
Weight	approx. 0.8 kg
Cable glands others available upon request	PU/PI: 2 x PG 7 PIZ: 1 x PG 7
Pressure ports	for tubing NW 6 mm
Protection class	IP65
Certificates	CE, CSA (only for PU/PI)

Model	Output	A
PU	0..10 V ($R_L \geq 2$ k Ω)	U
PI	0..20 mA ($R_L \leq 500$ Ω)	I0
PI	4..20 mA ($R_L \leq 500$ Ω)	I4
PIZ	4..20 mA two-wire ($R_L \leq 50$ [UB (V) -10 (V)] Ω)	I2

Measurement range	B	Margin of error	C
Measurement range e.g. 0..100 Pa, 0..60 mbar, ± 110 mmHg (etc.)		0.2 % of max. value only for measurement ranges ≥ 250 Pa	02
		0.5 % of max. value min. 0.3 Pa	05
		1 % of max. value	1

Supply voltage	D
24 VDC, +20 %/-15 % ¹⁾	24D
24 VAC, +6 %/-15 % (50/60 Hz) ¹⁾	24A
115 VAC, +6 %/-15 % (50/60 Hz) ¹⁾	115
230 VAC, +6 %/-15 % (50/60 Hz) ¹⁾	230
10..32 VDC (two-wire system)	PIZ

¹⁾ not for PIZ

Time constant	E	LCD	F
none	0	none	0
1 s	1	3 ½ digit (see foto)	3
2 s	2	4 ½ digit (only for PU/PI)	4
5 s	5		









Order code	A	B	C	D	E	F
P						

Relay parameter can be pre-set on request

MEASUREMENT OF DIFFERENTIAL PRESSURE

Measurement of differential pressure is useful in a broad range of applications. It is used in ventilation and air-conditioning technology but also in many areas of air handling process technology. The next pages show a number of these. You can find more information about pressure sensor technology on p. 6.

halstrup-walcher offers a wide range of products for stationary measurement of differential pressure.

	PUC24	PUC28(K)	P26	P34	P29	PU / PI / PIZ	PS27	REG21	
Details on	p. 18	p. 19	p. 20	p. 21	p. 22	p. 23	p. 24	p. 25	
									
Application	Process monitoring for clean-rooms (Pa, °C, % rH), with stainless steel front	Process monitoring panel (optional: with calibration port) (Pa, °C, % rH), aluminium, anodised	High precision, scalable differential pressure transmitter	Measuring transmitter with very small dimensions – ideal for the control cabinet	Like P26, for natural gas	For standard applications. PIZ: PI in two wire technology	A basic sensor for simple applications	Measurement and regulation of pressure	
Housing installation	Installed in wall (panel)		Mounted on a wall/top-hat rail						Rack
Max. measurement range	± 250 Pa		± 100 kPa						
Min. measurement range	± 100 Pa		± 10 Pa		± 250 Pa	± 50 Pa			
Degree of measurement uncertainty	0.5 % ¹⁾ (standard)		0.2 % of the scaled range (40 .. 100 % of max. value) ²⁾ (optional) 0.5 % of the scaled range (40 .. 100 % of max. value) ²⁾ (standard)		0.2 % ¹⁾ (optional) 0.5 % ¹⁾ (standard)	0.2 % ^{1) 3)} 0.5 % ^{1) 2)} 1 % ¹⁾	2 % (≥ 100 Pa) or 3 % (for 50 Pa) of the set value	0.5 % ^{1) 2)} 1 % ¹⁾	
Square-root (volume flow)	-	-	✓	✓ ⁴⁾	✓	-	-	-	
Display	✓	✓	optional	-	optional	optional	optional	✓	

¹⁾ max. value of upper range value

²⁾ but not less than 0.3 Pa

³⁾ for measurement ranges ≥ 250 Pa only

⁴⁾ optionally with stat. pressure sensor and temperature analogue input for compensation

ACCESSORIES

Certificates (see p. 41)

DAkKS calibration certificate (German)

DAkKS calibration certificate (English)

ISO factory calibration certificate

Order no.

9601.0003

9601.0004

9601.0002

Connecting components

Silicone tubing ID 5 mm, OD 9 mm, red (please state length required)

Silicone tubing ID 5 mm, OD 9 mm, blue (please state length required)

Norprene tubing (please state length required)

Y-piece for tubing

9601.0160

9601.0161

9061.0132

9601.0171

Pressure ports

We can supply a wide range of customer-specific pressure ports, e.g. various cutting ring couplings or hose connectors.

