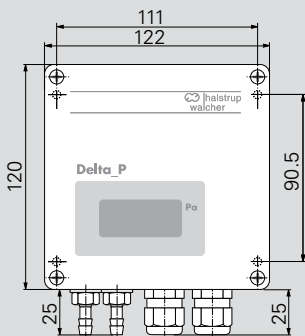




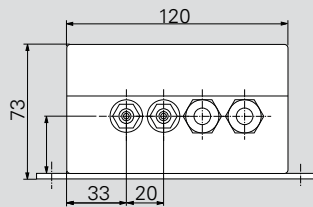
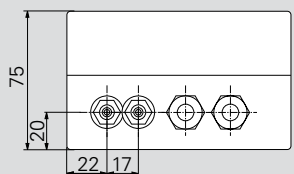
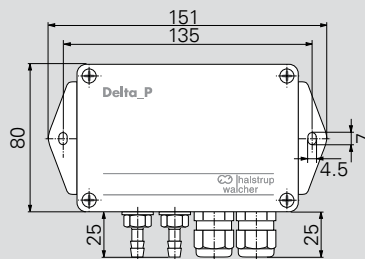
## Features

- 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

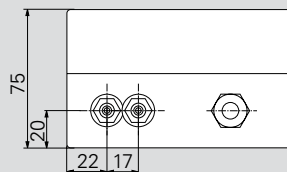
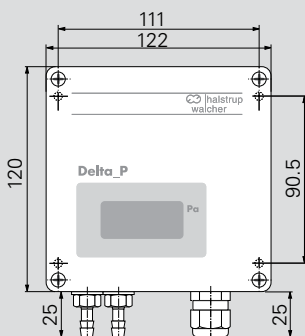
PU/PI with display



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)	$\pm 0.2\%$ of max. value <sup>1)</sup> only for measurement ranges $\geq 250$ Pa $\pm 0.5\%$ of max. value <sup>1)</sup> , min. 0.3 Pa $\pm 1\%$ 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 $\leq 20$ kPa 2 x for measurement ranges $> 20$ kPa
Medium	air, all non-aggressive gases
Max. system pressure	10 kPa for measurement ranges $\leq 10$ 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 $\Omega$ )	U
PI	0..20 mA ( $R_L \leq 500 \Omega$ )	I0
PI	4..20 mA ( $R_L \leq 500 \Omega$ )	I4
PIZ	4..20 mA two-wire ( $R_L \leq 50$ [UB (V) -10 (V)] $\Omega$ )	IZ

Measurement range	B
Measurement range e.g. 0..100 Pa, 0..60 mbar, $\pm 110$ mmHg (etc.)	

Margin of error	C
$\pm 0.2\%$ of max. value <sup>1)</sup> only for measurement ranges $\geq 250$ Pa	02
$\pm 0.5\%$ of max. value <sup>1)</sup> min. 0.3 Pa	05
$\pm 1\%$ of max. value	1

<sup>1)</sup> not for PIZ with  $\pm$  measurement ranges

Supply voltage	D
24 VDC, +20 % / -15 % <sup>2)</sup>	24D
24 VAC, +6 % / -15 % (50/60 Hz) <sup>2)</sup>	24A
115 VAC, +6 % / -15 % (50/60 Hz) <sup>2)</sup>	115
230 VAC, +6 % / -15 % (50/60 Hz) <sup>2)</sup>	230
10..32 VDC (two-wire system)	PIZ

<sup>2)</sup> not for PIZ

Time constant	E
none	0
1 s	1
2 s	2
5 s	5

LCD	F
none	0
3 1/2 digit (see foto)	3
4 1/2 digit (only for PU/PI)	4









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
								
<b>Application</b>	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
<b>Housing installation</b>	Installed in wall (panel)		Mounted on a wall/top-hat rail					Rack
<b>Max. measurement range</b>	± 250 Pa		± 100 kPa					
<b>Min. measurement range</b>	± 100 Pa		± 10 Pa		± 250 Pa		± 50 Pa	
<b>Degree of measurement uncertainty</b>	± 0.5 % <sup>1)</sup> (standard)		± 0.2 % of the scaled range (40..100 % of max. value) <sup>2)</sup> (optional) ± 0.5 % of the scaled range (40..100 % of max. value) <sup>2)</sup> (standard)		± 0.2 % <sup>1)</sup> (optional) ± 0.5 % <sup>1)</sup> (standard)		± 0.2 % <sup>1)3)</sup> ± 0.5 % <sup>1)2)</sup> ± 1 % <sup>1)</sup> ± 2 % (≥ 100 Pa) or ± 3 % (for 50 Pa) of the set value	
<b>Square-root (volume flow)</b>	-	-	✓	✓ <sup>4)</sup>	✓	-	-	-
<b>Display</b>	✓	✓	optional	-	optional	optional	optional	✓

<sup>1)</sup> max. value of upper range value

<sup>2)</sup> but not less than 0.3 Pa

<sup>3)</sup> for measurement ranges ≥ 250 Pa only

<sup>4)</sup> 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 9601.0160  
(please state length required)

Silicone tubing ID 5 mm, OD 9 mm, blue 9601.0161  
(please state length required)

Norprene tubing 9061.0132  
(please state length required)

Y-piece for tubing 9601.0171

### Pressure ports

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

