

Measurement ranges (also $\pm$ measurement ranges) others available upon request	10/50/100/250/500 Pa 1/2.5/5/10/20/50/100 kPa freely scalable from 10 .. 100 % within a measurement range
Margin of error (0.3 Pa margin of error for the reference)	$\pm 0.2\%$ or $\pm 0.5\%$ of max. value
Temperature coefficient span	0.03 % of max. value/K (10 .. 50 °C)
Temperature coefficient zero point	$\pm 0\%$ (cyclical zero-point correction)
Max. system pressure/ Overload capacity	600 kPa for measurement ranges $\geq 2.5$ kPa 200 x for measurement ranges $< 2.5$ kPa
Medium	air, all non-aggressive gases
Sensor response time	25 ms
Time constants	25 ms .. 40 s (adjustable)
Operating temperature	10 .. 50 °C
Storage temperature	-10 .. 70 °C
Power consumption	approx. 6 VA
Weight	approx. 750 g
Cable glands	3 x M 16
Pressure ports	for tubing NW 6 mm, others available on request
Protection class	IP 65, with USB: IP 40
Certificates	CE, CSA

Output (linear/ root-extracted) <sup>1)</sup>	A
0 .. 10 V ( $R_L \geq 2$ k $\Omega$ )	1
0 .. 20 mA ( $R_L \leq 500$ $\Omega$ )	0
4 .. 20 mA ( $R_L \leq 500$ $\Omega$ )	4
$\pm 5$ V ( $R_L \geq 2$ k $\Omega$ )	5

<sup>1)</sup> output signals can be configured freely

Measurement range	C
Measurement range e.g. 0 .. 10 Pa, -10 .. 50 mbar, $\pm 100$ mmHg (etc.)	

Display + keyboard	E
none	0
multi-coloured LCD and keyboard	LC

Data interface	G
none	0
USB (data cable supplied)	U0
External zero-point calibration	0X
External zero-point calibration and USB (data cable supplied)	UX

Order code	A	B	C	D	E	F	G
P 26	-	-	-	-	-	-	-

Can be pre-set on request:  
Time constant, relay parameter, analogue output root-extracted / linear, deactivation of the cyclic zeroing

Power supply	B
24 VAC/DC $\pm 10\%$	24ACDC
24 VAC + 6 % (with galvanic separation)	24AC
230/115 VAC - 15 %	230/115

Margin of error	D
$\pm 0.2\%$ of max. value	2
$\pm 0.5\%$ of max. value	S

Contact points	F
none	0
air meter	1
2 relays (changeover contacts) max. 230 VAC, 6 A	2

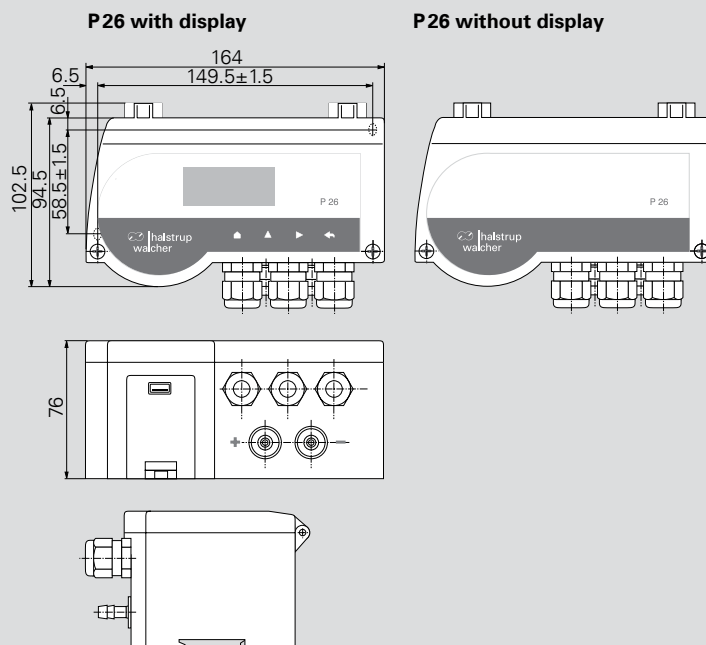


## Features

- High precision differential pressure transmitter for air-conditioning, cleanroom and process
- Top-hat rail or wall mounting
- Wide range of units for pressure and volume flow
- Also  $\pm$  measurement ranges
- Scalable measurement ranges and units
- Zero-point correction prevents zero-point drift
- Built-in valve provides a high level of overpressure protection
- Multilingual menu (English/French/German/Italian)

## Optional









- Contact points with adjustable switching outputs
- Set the zero-point via an external interface
- USB interface (free parameterisation software at [www.halstrup-walcher.de/en/software](http://www.halstrup-walcher.de/en/software))
- Air meter function (see p. 39)



# 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 our pressure sensor technology on p.6.

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

Product	PUC24	PUC28(K)	P26	P34	P29	PU/PI/PIZ	PS27	REG21
Details on	p. 14	p. 15	p. 16	p. 17	p. 18	p. 19	p. 20	p. 21
								
<b>Application</b>	Process monitoring for clean-rooms (Pa, °C, % rH), with stainless steel front	Process monitoring panel aluminium, anodised (optional: with calibration port) (Pa, °C, % rH)	High precision, freely scalable pressure transmitter for critical applications	Measuring transmitter with very small dimensions – ideal for the control cabinet	High precision, freely scalable pressure transmitter for natural gas	For standard applications. PIZ: 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> (0.3 Pa margin of error for the reference)	± 0.5 % <sup>1)</sup> (standard)		± 0.2 % <sup>1)</sup> (optional) ± 0.5 % <sup>1)</sup> (standard)		± 0.2 % <sup>1)</sup> (optional) ± 0.5 % <sup>1)</sup> (standard)	± 0.2 % <sup>1) 2)</sup> ± 0.5 % <sup>1)</sup> ± 1 % <sup>1)</sup>	± 2 % (≥ 100 Pa) or ± 3 % (for 50 Pa) of the set value	± 0.5 % <sup>1)</sup> ± 1 % <sup>1)</sup>
<b>Square-root (volume flow)</b>	-	-	✓	✓ <sup>3)</sup>	✓	-	-	-
<b>Display</b>	✓	✓	optional	-	optional	optional	optional	✓

<sup>1)</sup> of max. value      <sup>2)</sup> for measurement ranges ≥ 250 Pa

<sup>3)</sup> optionally with stat. pressure sensor and temperature analogue output for compensation

## ACCESSORIES

### Certificates (see p.42)

DAkkS calibration certificate (German)  
DAkkS calibration certificate (English)  
ISO factory calibration certificate

### Order no.

9601.0003  
9601.0004  
9601.0002

### User software

You can set the parameters for our instruments or monitor and record measurements using a PC via a USB or RS232 interface. These features are supported by our free user software. This also allows you to transfer your settings to other devices by saving and reusing them.

Our user software is compatible with the following pressure transmitters: PUC24, PUC28(K), P26, P34 and P29.

You can download the file here:

[www.halstrup-walcher.de/en/software](http://www.halstrup-walcher.de/en/software)

### Connecting components

Silicone tubing ID 5 mm, OD 9 mm, red (please state length required)	9601.0160
Silicone tubing ID 5 mm, OD 9 mm, blue (please state length required)	9601.0161
Norprene tubing (please state length required)	9061.0132
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.