



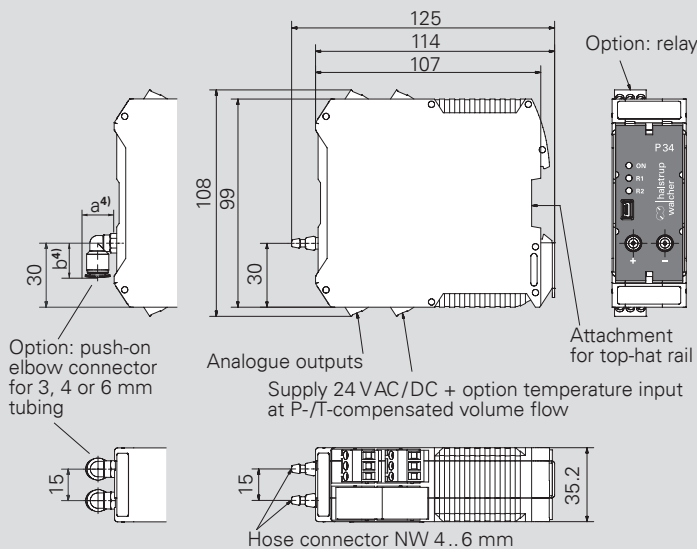
Features

- Differential pressure transmitter with very small dimensions – ideal for control cabinet installation
- Zero-point correction prevents zero-point drift
- Built-in valve provides a high level of overpressure protection
- Volume flow can be configured via k -factor, dP_{max}/V_{max} or 20 individual values
- USB interface: via PC-software scaling, characteristic line form and many other parameters can be set
- Free software available at www.halstrup-walcher.de/en/software
- Delivery possible already completely integrated into the control cabinet (on request)



Optional

- P-/T-compensated volume flow (temperature analogue input and internal stat. pressure sensor)
- with relay or push-on elbow connector



Elbow connector	a	b
3 mm	10,5	11
4 mm	11,5	15,7
6 mm	14,0	16,3

All dimensions in mm

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
Measurement accuracy ¹⁾	± 0.2 % FS (for measurement ranges ≤ 25 kPa) or ± 0.5 % FS
Temperature coefficient span	max. 0.03 % of FS/K (10..50 °C)
Temperature coefficient zero point	± 0 % (cyclical zero-point correction)
Max. system pressure/ Overload capacity	400 kPa measurement ranges ≥ 2.5 kPa 200 x measurement ranges < 2.5 kPa
Medium	air, all non-aggressive gases
Step response time (T63) (Time constant)	25 ms..60 s (adjustable)
Rated temperature range	10..50 °C
Storage temperature	-10..70 °C
Power consumption	approx. 6 VA
Weight	approx. 450 g
Connections	pluggable screw terminals (connection capacity 0.25..2.5 mm ²)
Power supply	24 VAC/DC ± 10 %
USB interface	USB 2.0 Full-Speed Slave (Mini USB)
Protection class	IP20
Certificates	CE/UKCA

¹⁾ Measurement accuracy for the reference 0.3 Pa, for measuring ranges $\leq \pm 1.5$ kPa

Measured data for P-/T-compensated volume flow (optional)

Measured range absolute pressure	200 kPa
Accuracy absolute pressure	± 2.0 % FS
Temperature input	4..20 mA, $R_i = 130 \Omega$ Temperature range freely scalable

Output ²⁾ (linear / root extracted)	A
0..10 V ($R_L \geq 2 \text{ k}\Omega$)	1
0..20 mA ($R_L \leq 500 \Omega$)	0
4..20 mA ($R_L \leq 500 \Omega$)	4

Application	E
Standard	A
P-/T-compensated volume flow	B

²⁾ output signals can be configured freely

Measurement range	B
Measurement range e.g. 0..10 Pa, -10..50 mbar, ± 100 mmHg (etc.)	

Tubing connectors	F
Standard grommet ID 4/6 mm	0
Push-on elbow connector 3 mm	W3
Push-on elbow connector 4 mm	W4
Push-on elbow connector 6 mm	W6

Measurement accuracy	C
± 0.2 % FS ³⁾	2
± 0.5 % FS	5

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

³⁾ for measurement ranges ≤ 25 kPa

Contact points	D
none	0
2 relays (exchange contacts), max. 230VAC, 6A	2

Can be pre-set on request:







Time constant, relay parameter, analogue output root-extracted/linear, deactivation of the cyclic zeroing

Accessories: USB cable (Order no. 9601.0254)

Order code	A	B	C	D	E	F	G
P34	-	-	-	-	-	-	-

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

Product	P26	P34	P29	PU / PI / PIZ	PS27	PS17
						
Application	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	Differential pressure transmitter for basic applications
Housing installation	Mounted on a wall/top-hat rail					
Max. measurement range	± 100 kPa		0.. 10 kPa	± 100 kPa	± 10 kPa	
Min. measurement range	± 10 Pa		0.. 250 Pa	± 50 Pa		
Measurement accuracy¹⁾	± 0.2 % FS ²⁾ (optional) ± 0.5 % FS (standard)			± 0.2 % FS ³⁾ ± 0.5 % FS ± 1 % FS	± 3 % for measuring ranges < 100 Pa or ± 2 % for measuring ranges ≥ 100 Pa	± 1 % of the set final value plus ± 0,5 Pa for measuring ranges ≤ 250 Pa plus ± 1 Pa
Square-root (volume flow)	✓	✓ ²⁾	✓	-	-	✓
Display	optional	-	optional	optional	optional	optional

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

²⁾ for measurement ranges ≤ 50 kPa

³⁾ for measurement ranges ≥ 250 Pa and ≤ 50 kPa

ACCESSORIES

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 ID 4.8 mm, OD 8 mm, black (please state length required)	9061.0132
Y-piece for tubing NW 5mm	9601.0171

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: P26, P34 and P29.

You can download the file here:

www.halstrup-walcher.de/en/software