



## Measured data differential pressure

Measurement ranges (also ± 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)	±0.2 % FS (for measurement ranges ≤ 50 kPa) or ±0.5 % FS
Temperature coefficient span	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
Sensor response time	25 ms
Time constants	25 ms..60 s (adjustable)
Operating temperature	10..50 °C
Storage temperature	-10..70 °C
Power consumption	approx. 6 VA
Weight	approx. 450 g
Connections	Screw terminals (connection capacity 0.25..2.5 mm <sup>2</sup> )
Power supply	24 VAC/DC ±10 %
USB interface	USB 2.0 Full-Speed Slave (Mini USB)
Pressure ports	for tubing NW 4 or 6 mm
Protection class	IP20
Certificates	CE

## 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 <sub>i</sub> = 130 Ω Temperature range freely scalable

Output (linear/ root extracted) <sup>1)</sup>	A	Measurement range	B
0..10 V (R <sub>L</sub> ≥ 2 kΩ)	1	Measurement range e.g. 0..10 Pa, -10..50 mbar, ±100 mmHg (etc.)	
0..20 mA (R <sub>L</sub> ≤ 500 Ω)	0		
4..20 mA (R <sub>L</sub> ≤ 500 Ω)	4		

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

Margin of error	C	Contact points	D
±0.2 % of max. value <sup>2)</sup>	2	none	0
±0.5 % of max. value	5	2 relays (exchange contacts) max. 230 VAC, 6 A	2

<sup>2)</sup> for measurement ranges ≤ 50 kPa

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

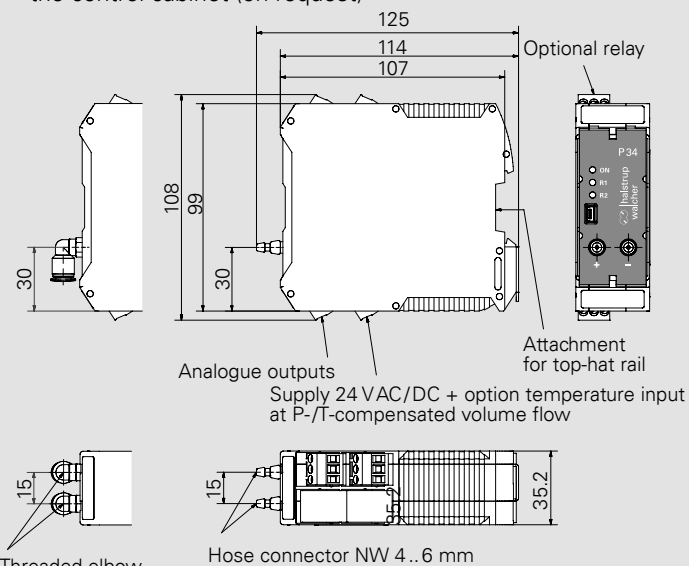
Tubing connectors	F
standard grommet for NW 4 or 6 mm tubing	0
threaded elbow connector for 6 mm tubing	W

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

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

## Features

- Differential pressure transmitter with very small dimensions – ideal for control cabinet installation
- Optional: P-/T-compensated volume flow (temperature analogue input and internal stat. pressure sensor)
- Optionally with relay
- 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<sup>2)</sup>: via PC-software scaling, characteristic line form and many other parameters can be set
- Free software available at [www.halstrup-walcher.de/en/software](http://www.halstrup-walcher.de/en/software)
- Delivery possible already completely integrated into the control cabinet (on request)



<sup>2)</sup> Accessories: USB cable (Order no. 9601.0254)