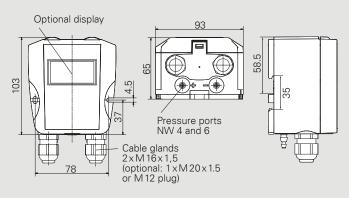


Features

- · Compact differential pressure transmitter for basic applications in cleanrooms, machines, HVAC or filter monitoring
- · Robust ABS housing with IP67 for top-hat rail or wall mounting
- ± and asymmetric measurement ranges
- · Either with one fixed measurement range or toggling between 4 different measurement ranges
- · Pressure units Pa, kPa (linear output signal)
- · Square-root output signal in % of max. possible value
- · Configurable via DIP switches
- Zero point correction and via internal pushbutton or digital input
- · Fine adjustment via internal pushbutton

Optional

- 3 ½ digits display
- · 2-wire system (ZWL) or relay (6 A)
- · Plug for easy commissioning



Dimensions in mm



Measurement ranges (also ±) others available upon request	50/100/200/500 Pa 1/2.5/5/10 kPa
Measurement accuracy (at 22°C) 1)	$\pm~1~\%$ of the set value plus $\pm~0.5~\text{Pa}$ for measurement ranges $\leq~250~\text{Pa}$ plus $\pm~1~\text{Pa}$
Temperature coefficient span	0.1 % of max. value/K
Temperature coefficient zero point	0.1 % of max. value/K
Max. system pressure / Overload capacity	± 25 kPa: measurement ranges ≤ 250 Pa ± 50 kPa: measurement ranges > 250 Pa
Medium	air, all non-aggressive and non-flammable gases
Sensor response time	25 ms
Ambient temperature	-1070°C with display: 050°C
Storage temperature	-1070°C with display: -555°C
Calibration temperature	22°C
Air humidity (medium)	080 % RH
Power consumption	< 1 W (optional relay: < 4 W)
Pressure ports	for tubing NW 4 and 6 mm
Protection class	IP67
Weight	approx. 200 g
Certificates	CE

 11 Uncertainty of the reference 0.3 Pa; precision of the reference 0.12 Pa relevant for measuring ranges $\leq\pm1.5$ kPa or 3 kPa

Output ²⁾	Α
$010\textrm{V}\;\textrm{(R}_{\textrm{\tiny L}} \geq 50\;\textrm{k}\Omega\textrm{)}$	1
$210 \text{ V (R}_{L} \ge 50 \text{ k}\Omega)$	2
$020 \text{ mA } (R_L \leq 500 \Omega)$	0
$420 \text{ mA } (R_L \leq 500 \Omega)$	4

can be configured using DIP switches conversion into square root signal adjustable (in % of max. possible value)

Power supply	В
24 VAC/DC 50/60 Hz ±10% reverse pole protection	AC/DC
1532 VDC two-wire (only for A=4)	ZWL
24 V DC with galvanic separation	VDC

M	Measurement range					
	andard ³⁾ g. 0 100 Pa)					
	50 Pa/100 Pa/ 200 Pa/250 Pa	1				
	100 Pa/200 Pa/ 750 Pa/1.25 kPa	2				
	250 Pa/500 Pa/ 1 kPa/2.5 kPa	3				
switchable	1 kPa/2.5 kPa/ 5 kPa/10 kPa	4				
switc	±50 Pa/±100 Pa/ ±200 Pa/±250 Pa	1A				
	±100 Pa/±200 Pa/ ±750 Pa/±1.25 kPa	2A				
	±250 Pa/±500 Pa/ ±1 kPa/±2.5 kPa	ЗА				
	±1 kPa/±2.5 kPa/ ±5 kPa/±10 kPa	4A				
23						

Contact point ⁴⁾	D
none	0
1 relay (exchange contacts) ⁴⁾ max. 230 VAC, 6 A (not for two-wire)	1

⁴⁾ Relay parameters can be pre-set on request

Display	E
none	0
3 ½ digits 5)	1

5) Display up to ± 1999

Time constant 6)	F
25 msec	025
1 sec	1
4 sec	4
10 sec	10

6) Factory preset, configurable via buttor

Electrical connection	G		
spring-type terminal, 2 x M 16 cable glands	16		
spring-type terminal, M 20 cable gland ⁷⁾	20		
M 12 plug ⁷⁾	12		
7) not for changeover contacts / relay (D)			

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

Order code	Α	В	С	D	Е	F	G	Н
PS17 -		_	-	-	_			

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

Product	P26	P34	P29	PU/PI/PIZ	PS 27	REG 21	PUC24	PUC28(K)
	21.33		, Maria (1984)	1996**	000		t	
Application	High precision, freely scalable pressure transmitter for critical applications	Measuring transmit- ter 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 tech- nology	A basic sensor for simple appli- cations	Measure- ment and regulation of pressure	Process monitoring for clean- rooms (Pa, °C, %rH), with stain- less steel front	Process monitor- ing panel aluminium, anodised (optional: with calibra- tion port) (Pa, °C, % rH)
Housing installation		Mount	ed on a wall/top	-hat rail Rack			Installed in wall (panel)	
Max. mea- surement range	± 100 kPa 010 kPa			± 100 kPa			±25	50 Pa
Min. mea- surement range	± 10 Pa 0 250 Pa			±50 Pa			± 10	0 Pa
Measure- ment accuracy (0.3 Pa margin of error for the reference)	$\begin{array}{lll} \pm \ 0.2 \ \% \ FS^{\ 1)} & \pm \ 0.2 \ \% \ FS^{\ 1)} \\ & (\text{optional}) & (\text{optional}) \\ & \pm \ 0.5 \ \% \ FS \\ & (\text{standard}) & (\text{standard}) \end{array}$		± 0.2 % FS ²⁾ ± 0.5 % FS ± 1 % FS	± 2 % (≥ 100 Pa) or ± 3 % (for 50 Pa) of the set value	± 0.5 % FS ± 1 % FS		% FS ¹⁾ idard)	
Square- root (vol- ume flow)	✓	√ 3)	✓	-	-	-	-	-
Display	optional	-	optional	optional	optional	✓	✓	✓

¹⁾ for measurement ranges \leq 50 kPa

ACCESSORIES

Certificates	Order no.	User software
DAkkS calibration certificate ISO factory calibration certificate	9601.0003 9601.0002	You can set the parameters for our instruments or monitor and record measurements using a PC via a USB
Connecting components		or RS 232 interface. These features are supported by our free user software. This also allows you to transfer your
Silicone tubing ID 5 mm, OD 9 mm, red (please state length required)	9601.0160	settings to other devices by saving and reusing them.
Silicone tubing ID 5 mm, OD 9 mm, blue (please state length required)	9601.0161	Our user software is compatible with the following pressure transmitters: PUC 24, PUC 28 (K), P 26,
Norprene tubing (please state length required)	9061.0132	P34 and P29.
Y-piece for tubing	9601.0171	You can download the file here:
Davis and the		www.halstrup-walcher.de/en/software

Pressure ports

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











 $^{^{2)}}$ for measurement ranges \geq 250 Pa and \leq 50 kPa

 $^{^{\}scriptscriptstyle [3]}$ optionally with stat. pressure sensor and temperature analogue output for compensation