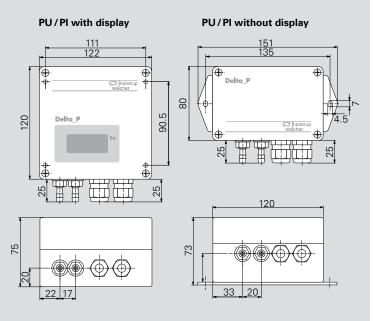


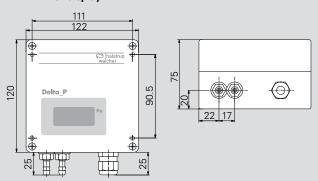


Features

- Differential pressure transmitter with linear curve for air-conditioning applications
- · Also available as a two-wire system ("PIZ" model)
- Also for ± measurement ranges and asymmetric measurement ranges
- · With optional LCD



PIZ with display



Measurement ranges (also ± 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 ¹⁾ only for measurement ranges \geq 250 Pa \pm 0.5 % of max. value ¹⁾ , \pm 1 % of max. value
Temperature coefficient span	0.04 % of max. value/K (1060°C)
Temperature coefficient zero point	0.04 % of max. value/K (1060°C)
Zero point stability	0.5 % of max. value/year
Overload capacity	10 x for measurement ranges ≤ 20 kPa 2 x for measurement ranges > 20 kPa
Medium	air, all non-aggressive gases
Max. system pressure	10 kPa for measurement ranges ≤ 10 kPa max. nominal pressure of the sensor for measurement ranges above 10 kPa
Sensor response time	20 ms
Operating temperature	1060°C
Storage temperature	-1070°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: 2xPG7 PIZ: 1xPG 7
Pressure ports	for tubing NW 6 mm
Protection class	IP65
Certificates	CE, CSA (only for PU/PI)

Model	Output	Α
PU	$010 \text{ V } (R_L \ge 2 \text{ k}\Omega)$	U
PI	020 mA (R $_{L} \leq 500 \Omega$)	10
PI	420 mA (R _L \leq 500 Ω)	14
PIZ	420 mA two-wire (R $_{L} \le 50$ [UB (V) -10 (V)] Ω)	IZ

Measurement range Measurement range e.g. 0 100 Pa, 0 60 mbar, ± 110 mmHg (etc.)	В	Margin of error C			
		± 0.2 % of max. value ¹⁾ only for measurement ranges ≥ 250 Pa	02		
		± 0.5% of max. value ¹⁾	05		
		± 1 % of max. value	1		
		1)			

1) not fo	or PIZ v	with ±	meası	urement	ranges

Supply voltage	D
24 V DC, +20 % /-15 % ²⁾	24D
24 VAC, +6 %/-15 % (50/60 Hz) ²⁾	24A
115 VAC, +6%/-15% (50/60 Hz) ²⁾	115
230 V AC, +6%/-15% (50/60 Hz) ²⁾	230
1032 VDC (two-wire system)	PIZ

2) not for Pla

Р

Time constar	nt	E		LCD		F
none		0		none		0
1s		1		3 ½ digit (see f	oto)	3
2s		2		4½ digit		4
5s		5		(only for PU/PI)		
Order code	Α	В	С	D	E	F

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	PUC 28 (K)	P26	P34	P29	PU/PI/PIZ	PS 27	REG21
Details on	р. 14	р. 15	р. 16	p. 17	р. 18	р. 19	p. 20	p. 21
	1555 1000 H		TITE .		N. O.	1996		Time 1
Application	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)	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
Housing installation	Installed in	wall (panel)	Mounted on a wall/top-hat rail					Rack
Max. mea- surement range	± 25	50 Pa	± 100 kPa					
Min. mea- surement range	± 10	00 Pa	± 10	0 Pa	± 250 Pa		±50 Pa	
Degree of measure- ment un- certainty (0.3 Pa margin of error for the reference)		5 % ¹⁾ ndard)	$\pm 0.2 \%^{1)}$ (optional) $\pm 0.5 \%^{1)}$ (standard)		± 0.2 % ¹⁾ (optional) ± 0.5 % ¹⁾ (standard)	± 0.2 % ^{1) 2)} ± 0.5 % ¹⁾ ± 1 % ¹⁾	± 2 % (≥ 100 Pa) or ± 3 % (for 50 Pa) of the set value	± 0.5 % 1) ± 1 % 1)
Square- root (vol- ume flow)	-	-	√	√ 3)	√	-	-	-
Display	✓	✓	optional	-	optional	optional	optional	✓

¹⁾ of max. value

ACCESSORIES

Certificates (see p.42)	Order no.	User software
DAkkS calibration certificate (German) DAkkS calibration certificate (English) ISO factory calibration certificate	9601.0003 9601.0004 9601.0002	You can set the parameters monitor and record measur or RS 232 interface. These f
Connecting components		free user software. This also
Silicone tubing ID 5 mm, OD 9 mm, red (please state length required)	9601.0160	settings to other devices by Our user software is compa
Silicone tubing ID 5 mm, OD 9 mm, blue (please state length required)	9601.0161	sure transmitters: PUC24,
Norprene tubing	9061.0132	P34 and P29.
(please state length required) Y-piece for tubing	9601.0171	You can download the file h

Pressure ports

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

User software

rs for our instruments or rements using a PC via a USB features are supported by our so allows you to transfer your by saving and reusing them.

patible with the following pres-PUC28(K), P26,

here:

www.halstrup-walcher.de/en/software

²⁾ for measurement ranges ≥ 250 Pa

³⁾ optionally with stat. pressure sensor and temperature analogue output for compensation