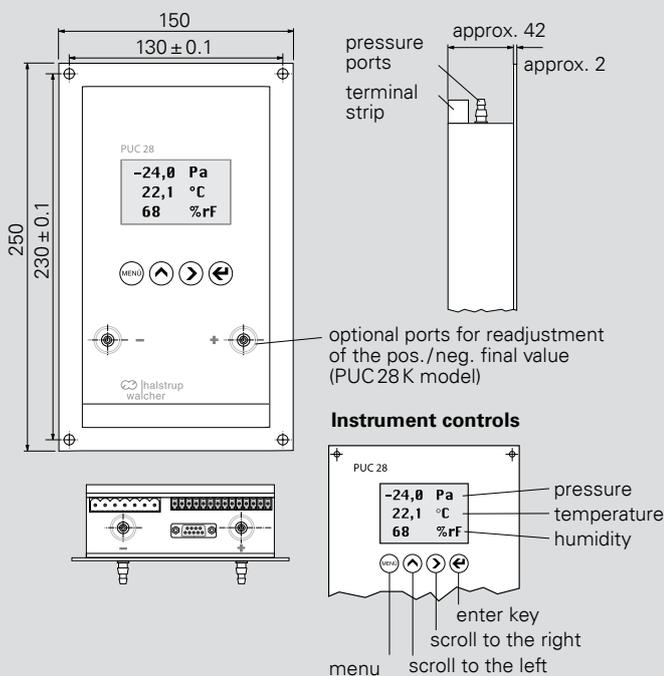




Features

- Process panel (Aluminium, anodised) for displaying air-conditioning data
- Integrated, high precision measurement of differential pressure
- % rH/°C transmitters switchable (independent of manufacturer)
- Anodised, aluminium housing with easy-to-clean front surface
- PUC 28K model: 2 pressure ports at the front panel for readjustment of the pos./neg. final value
- 3 analog outputs, optional digital interface
- Acoustic alarm when the threshold value is exceeded, acknowledgement via key
- Optical alarm signal if critical values are exceeded (cyclically inversed/normal)
- Bilingual menu (English/German) (others on request)
- 2 contact points (6 A/230 VAC)
- 2 adjustable limit switches permit the connection of signalling devices and save additional wiring



Measurement ranges	± 100 Pa or ± 250 Pa freely scalable within this range
Margin of error (0.3 Pa margin of error for the reference)	± 0.5 % of max. value
Temperature coefficient span	0.03 % of max. value/K (10.. 50 °C)
Temperature coefficient zero point	± 0 % (cyclical zero-point correction)
Overload capacity	200 x
Medium	air, all non-aggressive gases
Max. system pressure	10 kPa
Sensor response time	25 ms
Time constants	25 ms.. 40 s (adjustable)
Input signal humidity/temperature module (galvanically separated)	0..10 V, R _i = 470 kΩ 0/4..20 mA, R _i = 50 Ω adjustable
Operating temperature	10.. 50 °C
Storage temperature	-10.. 70 °C
Power consumption	approx. 7 VA
Weight	approx. 1 kg
Pressure ports	for tubing NW 3..6 mm
Protection class	IP65 (recessed in the wall)
Certificates	CE

Supply voltage

24 VDC, ± 10 % smoothed

Output

0.. 10 V (R_i > 2 kΩ)
0/4..20 mA (R_i < 500 Ω) adjustable

2 contact points, 6 A, 230 VAC,
may be configured as desired within this pressure range

Model	Measurement range	A
PUC 28	± 100 Pa	0
PUC 28	± 250 Pa	1
PUC 28 K ¹⁾	± 100 Pa	K2
PUC 28 K ¹⁾	± 250 Pa	K3

¹⁾ "K": with externally accessible pressure calibration ports (no disassembly) (see photo)

Data interface	B
none	0
PROFIBUS DP (optional) ²⁾	DP
RS 232 (optional)	2

²⁾ GSD-Download at www.halstrup-walcher.de/en/software

Bus connection	C
none	0
9-pin Sub-D flush type connector ³⁾	D
sub-D plug with 150 mm cable	DK
round pin connector M 12 with 150 mm cable	RK

³⁾ not suitable for wall thicknesses greater than 5 mm

Order code	A	B	C
PUC 28			

Can be pre-set on request:

Time constant, relay parameter, analogue output, deactivation of the cyclic zeroing (only for PROFIBUS DP)

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
								
Application	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
Housing installation	Installed in wall (panel)	Mounted on a wall/top-hat rail						Rack
Max. measurement range	± 250 Pa		± 100 kPa					
Min. measurement range	± 100 Pa		± 10 Pa		± 250 Pa		± 50 Pa	
Degree of measurement uncertainty (0.3 Pa margin of error for the reference)	± 0.5 % ¹⁾ (standard)		± 0.2 % ¹⁾ (optional) ± 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	
Square-root (volume flow)	-	-	✓	✓ ³⁾	✓	-	-	-
Display	✓	✓	optional	-	optional	optional	optional	✓

¹⁾ of max. value ²⁾ for measurement ranges ≥ 250 Pa

³⁾ 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.

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
Norpren tubing (please state length required) 9061.0132
Y-piece for tubing 9601.0171

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

Pressure ports

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