

PUC 24Process monitoring device
for clean rooms**Special features**

- particularly suitable for use in clean rooms
- inputs for humidity and temperature sensors
- stable measurements thanks to cyclical self-calibration of the zero point (differential pressure)
- alarm thresholds (switching contacts)
- graphic LC display
- Profibus DP interface (optional)
- surface resistant against solvents
- acoustic alarm when alarm thresholds are reached, may be reset by push-button
- bilingual menu (English/German)

Technical data

measurement ranges	± 100 Pa or ± 250 Pa freely scalable within this range
margin of error (0.3 Pa margin of error for reference)	0.3 Pa + 0.5 % of end value for measurement ranges ≤ 60 Pa, 0.5% of end value for measurement ranges > 60 Pa
deflection drift / temperature	0.03 %/K (+10 °C...+50 °C)
zero point drift / temperature	± 0 % (cyclical zero-point correction)

overload capacity	200 x
medium	air, all non-aggressive gases
max. system pressure	10 kPa for measurement ranges ≤ 10 kPa for measurement ranges > 10 kPa max. nominal pressure of sensor

sensor response time	25 ms
time constants	25 ms ... 40 s (adjustable)

input signal	0 ... 10 V, $R_i = 100 \text{ k}\Omega$
humidity/temperature module (galvanically separated)	0/4 ... 20 mA, $R_L = 50 \text{ }\Omega$ adjustable

operating temperature	+ 10 °C ... + 50 °C
storage temperature	- 10 °C ... + 70 °C

power consumption	approx. 7 VA
weight	approx. 1 kg
pressure ports	for hose Ø 3...6 mm
protection class	IP 65
testing	CE

measurement range	A
± 100 Pa	0
± 250 Pa	1

data interface	B
none	0
Profibus DP (optional)	DP
RS232 (optional)	2

bus connection	C
9-pin Sub D panel plug (not for wall thickness above 5 mm applicable)	D
Sub D plug with 150 mm cable	DK
round plug M12 with 150 mm cable	RK

supply voltage	24 VDC, ± 10 % smoothed
output signals	0 ... 10 V ($R_i > 2 \text{ k}\Omega$) 0/4 ... 20 mA ($R_L < 500 \text{ }\Omega$) adjustable 2 contact points, 6 A, 230 VAC, may be configured as desired within this pressure range

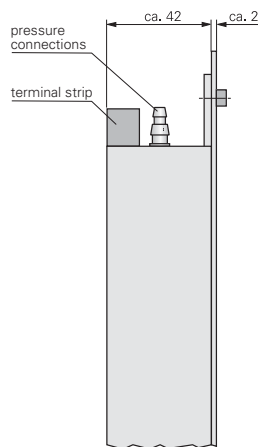
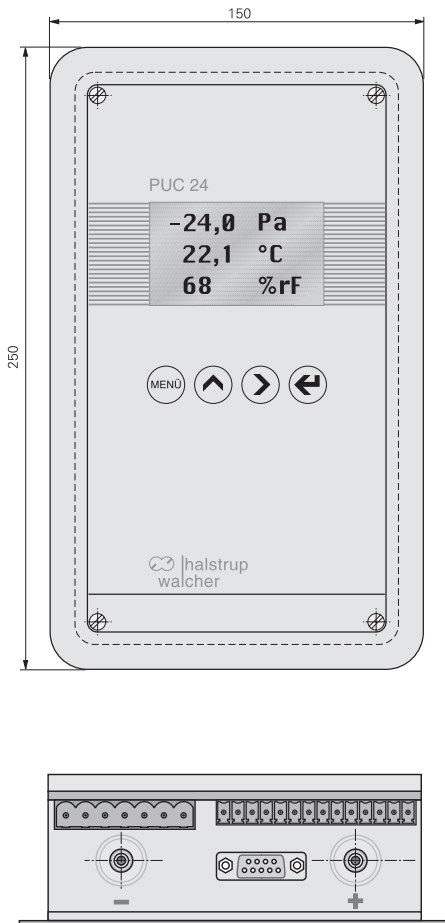
Order Key

	A	B	C
PUC 24	-	-	-

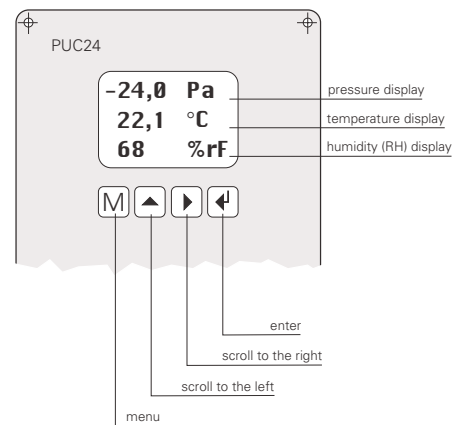
accessories	
☐ plug with switchable bus terminator	9601.-0104
☐ DKD calibration certificate, German	9601.-0003
☐ DKD calibration certificate, English	9601.-0004
☐ factory calibration certificate	9601.-0002

PUC 24

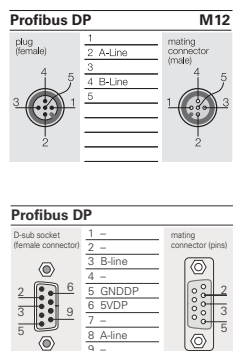
Dimension drawing



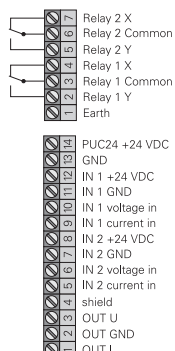
Operating elements



Connection diagram



Supply voltage



Functional block diagram

