



### Differential pressure gauge PCE-P50

#### **Differential pressure gauge with RS232 interface and software, for overpressure, negative pressure, differential pressure, suitable for air and gases**

Here you can see a professional differential pressure gauge with highest accuracy and best performance. Not only can you measure with this differential pressure gauge. The pressure readings can be easily transferred online to a PC or laptop. The differential pressure gauge is ideal for use in industry, service and the laboratory. The device is ideal for measuring non-corrosive media. The overload protection is equal to twice the measuring range. The 9 units that can be displayed on the display make this differential pressure gauge universally applicable for the local practitioner and save a tedious conversion of the measurement results (conversion table of the pressure units).

If you want to transfer the measurement data from the differential pressure gauge to the computer, you will need the optional software and the RS-232 interface cable. The software runs in conjunction with the Windows® versions '95, '98, '2000 and ME / XP (short info: pressure gauge with interface). The principle of absolute and differential pressure measurement is explained if you follow the link below: Principle of absolute and differential pressure measurement. DIN ISO 9000 pressure gauge calibration certificates and corresponding accessories are also available.

#### **Software**

The software for data transmission and the interface cable can be ordered optionally in the package. The differential pressure gauge is connected to the PC with the RS-232 cable. The installation of the software is carried out from the CD. The pictures below give you a visual impression of the software. The differential pressure gauge transmits online the respective measured values to the PC.

The values determined on the differential pressure gauge are plotted directly on the y-axis. The differential pressure values are indicated by "-" in a field below the graph (visible on the top left image (in the red circle)). The measuring units can be converted to the desired unit both on the differential pressure gauge and in the software. All measured values are written in a data file and can be stored under any name on the hard disk of the computer. Many customers also transfer the values to eg MS Excel for further analysis.

- 9 selectable units
- Digital display of over-, under- (vacuum) or differential pressure
- Min / Max memory

- Data hold function
- LCD display with backlight
- Impact resistant ABS housing
- Auto-power-off function

## Further applications

The applications of the differential pressure gauge are manifold.  
It is used, for example, in:

- Pneumatic area, on compressors and pumping stations
- Chemical area for process control, measurements on pressure tanks
- Production area, in compressed air pressing processes, eg in the plastics industry
- Checking valve actuation (pre-compressed air loss)
- Research and development area
- generally for optimization and testing in the process
- In the area of supply for heating and air conditioning systems



## Technical Specifications of the Differential pressure gauge PCE-P50

pressure monitorparameter	PCE-P50
<b>Max. Pressure</b>	positive / negative or overpressure / vacuum 150 psi
<b>PSI</b>	Area 0 ... ± 100
resolution	0.1
<b>mbar</b>	Area 0 ... ± 6900
resolution	4
<b>inH<sub>2</sub>O</b>	Area 0 ... ± 2750
resolution	2
<b>inHg</b>	Area 0 ... ± 200
resolution	0.1
<b>mmHg</b>	Area 0 ... ± 5200
resolution	3
<b>kPa</b>	Area 0 ... ± 690
resolution	0.4
<b>cmH<sub>2</sub>O</b>	Area 0 ... ± 7000
resolution	4
<b>Kg / cm<sup>2</sup></b>	Area 0 ... ± 7.0
resolution	0,004
data format	Baud rate: 2400 baud, 1 stop bit, 8 data bits
accuracy	± 0.3% (full range, @ + 25 ° C)
repeatability	± 0.2% (max ± 0.5% of final value)
Duration	0.3 ms
Ambient temperature max	+50 ° C
battery	1 x 9 V - block battery PP3
dimensions	182 x 72 x 30 mm
mass	150 g

## Delivery Content:

- 1 x Hand - Difference Manometer
- 1 x Carrying Case
- 1 x Battery
- 1 x PVC Hose (1 m)
- 1 x Operating Instructions

## Optional Accessories:

<p><b>Order No. : SS-AZ</b> PVC HOSE for pressure gauge</p> <ul style="list-style-type: none"> <li>- length: <b>2 m (suitable cutting possible)</b></li> <li>- inner diameter: 3.5 mm</li> </ul>	
<p><b>Order No. : RS232-USB Adapter</b> RS232 to USB Converter RS-232 (serial, D-Sub, 9-pin) to USB, allows connection to PC and laptop with USB port</p> <ul style="list-style-type: none"> <li>-easy installation</li> <li>-plug and play capable</li> <li>-no need interrupt (IRQ)</li> </ul>	
<p><b>Order No. : SOFTP-AZ</b> Software PCE-P English software and RS-232 interface cable, suitable for the PCE-P manometers, for transferring, evaluating and saving your data on the PC.</p>	