DIFFERENTIAL PRESSURE MANOMETER

PCE-P50



- **9 selectable units**
- **Digital display of over, under (vacuum) or differential pressure**
- **Min / Max memory**
- **Data hold function**
- **Backlit LCD display**
- **Impact-resistant ABS housing**

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

If you want to transfer the measurement data from the differential manometer to the computer, you 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 measuring device 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 calibration certificates for the pressure gauges and corresponding accessories are also available.

Software

The software for data transfer and the interface cable can optionally be ordered as a package. The differential manometer is connected to the PC with the RS-232 cable. The software is installed from the CD.

Specification

Differential pressure	
Measuring range	-6900 ... +6900 mbar
Resolution	4 mbar
Accuracy	±0.3% FS at 25°C
Differential pressure	
Measuring range	-100 ... +100 psi
Resolution	0,1 psi
Accuracy	±0.3% FS at 25°C
Differential pressure	
Measuring range	-2750 ... +2750 inH_2O
Resolution	2 inH_2O
Accuracy	±0.3% FS at 25°C
Differential pressure	
Measuring range	-200 ... +200 inHg
Resolution	0,1 inHg
Accuracy	±0.3% FS at 25°C
Differential pressure	
Measuring range	-5200 ... +5200 mmHg
Resolution	3 mmHg
Accuracy	±0.3% FS at 25°C
Differential pressure	
Measuring range	-690 ... +690 kPa
Resolution	0,4 kPa
Accuracy	±0.3% FS at 25°C
Differential pressure	
Measuring range	-7000 ... +7000 cmH_2O
Resolution	4 cmH_2O
Accuracy	±0.3% FS at 25°C
Differential pressure	
Measuring range	-7 ... +7 kg/cm^2
Resolution	0,004 kg/cm^2
Accuracy	±0.3% FS at 25°C

General technical data	
Measuring functions	MIN, MAX, HOLD, AVG
Display type	LCD with backlight
Interface	RS232
Response time	0,3 mS
Measured medium	Air, Gases
Automatic power-off	20 min
Repeatability	0,2 %
Housing	ABS (acrylonitrile-butadiene-styrene copolymers)
Menu language	English, English (GB)
Protection class (device)	IP20
(Rechargeable) battery	1 x 9 V 9V block , Zinc carbon
Capacity	310 mAh
Operating conditions	0 ... 50 °C , 0 ... 80 % RH
Storage conditions	-10 ... 60 °C , 0 ... 80 % RH
Dimensions (L x W x H)	182 x 72 x 30 mm
Weight	150 g

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