## Pressure Meters

### Differential pressure meter for air and gas measurement with optional cable and software

Highly accurate professional pressure meter. With this unit, besides measuring, you will be able to transmit data to a PC. This instrument is ideal for industrial applications, technical service or for a laboratory (especially for measuring non-corrosive gases). It has overload protection (double measurement range) to avoid damaging the sensor. We have four models available with a measurement range up to 7 bar.

**Specifications:**
- 9 measuring units to choose from
- Positive, negative and differential pressures
- 2 pins of Ø 4 mm
- Memory LCD
- It is used in heating and air conditioning, in pneumatic systems, in medical units, etc.
- ISO Certificate (optional)

#### Technical specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>PCE-P05</th>
<th>PCE-P15</th>
<th>PCE-P30</th>
<th>PCE-P50</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSI Range</td>
<td>0 to ±5</td>
<td>0 to ±15</td>
<td>0 to ±30</td>
<td>0 to ±100</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.003</td>
<td>0.01</td>
<td>0.02</td>
<td>0.1</td>
</tr>
<tr>
<td>mbar Range</td>
<td>0 to ±350</td>
<td>0 to ±1000</td>
<td>0 to ±2000</td>
<td>0 to ±6900</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.2</td>
<td>1</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>inHg Range</td>
<td>0 to ±140</td>
<td>0 to ±415</td>
<td>0 to ±830</td>
<td>0 to ±2750</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1</td>
<td>0.3</td>
<td>0.5</td>
<td>2</td>
</tr>
<tr>
<td>mmHg Range</td>
<td>0 to ±999</td>
<td>0 to ±30.5</td>
<td>0 to ±61</td>
<td>0 to ±200</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.001</td>
<td>0.05</td>
<td>0.01</td>
<td>0.1</td>
</tr>
<tr>
<td>mbar Range</td>
<td>0 to ±200</td>
<td>0 to ±750</td>
<td>0 to ±1500</td>
<td>0 to ±5200</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.2</td>
<td>0.5</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>kPa Range</td>
<td>0 to ±35</td>
<td>0 to ±100</td>
<td>0 to ±200</td>
<td>0 to ±690</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.02</td>
<td>0.1</td>
<td>0.2</td>
<td>0.4</td>
</tr>
<tr>
<td>cmH2O Range</td>
<td>-</td>
<td>0 to ±1505</td>
<td>0 to ±2100</td>
<td>0 to ±7000</td>
</tr>
<tr>
<td>Resolution</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Kg/cm² Range</td>
<td>-</td>
<td>0 to ±1.05</td>
<td>0 to ±2.1</td>
<td>0 to ±7.0</td>
</tr>
<tr>
<td>Resolution</td>
<td>-</td>
<td>0.001</td>
<td>0.002</td>
<td>0.004</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.3 % (full range at ±25 °C)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reproducibility</td>
<td>±0.2 % (maximum ±0.5 % of final value)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement interval</td>
<td>0.3 ms</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min. Peak, Hold</td>
<td>yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interface</td>
<td>yes, RS-232</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Software</td>
<td>yes, as optional, for data transfer and check (in English)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PC requirements</td>
<td>CD player, Windows 95 or better</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>9 V battery (PP3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enclosure</td>
<td>ABS plastic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>182 x 72 x 30 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>150 g</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Optional accessories

- SOFTP-AZ: Software and data cable
- CAL-PCE-P: ISO Certificate
- SS-AZ: Silicon probe (2 m)

### Contents

Differential pressure meter (one of our models), carrying case and user’s manual

### Model No. Description

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCE-P05</td>
<td>Gas pressure meter up to 0.35 bar</td>
</tr>
<tr>
<td>PCE-P15</td>
<td>Gas pressure meter up to 1.00 bar</td>
</tr>
<tr>
<td>PCE-P30</td>
<td>Gas pressure meter up to 2.00 bar</td>
</tr>
<tr>
<td>PCE-P50</td>
<td>Gas pressure meter up to 6.90 bar</td>
</tr>
</tbody>
</table>

### PCE-910 & PCE-917

Differential pressure meter for air and liquid measurements (you can’t use it with acids or bleaches)

The digital differential pressure meter is ideal for industrial or laboratory uses. With this unit you can measure hydraulic or pneumatic systems. The most important feature of this differential pressure meter is its accuracy. The RS-232 interface allows the user to transmit the data to a computer for analysis and evaluation. We have optional software and an RS-232 data cable available. If your PC only has a USB, we recommend the purchase of an RS-232 to USB adaptor.

**Specifications:**
- Selection of measurement units
- High, negative and differential pressures
- Min, Max, and Data-Hold
- RS-232 interface
- For measuring air, gas and non-corrosive liquids
- ISO Certificate (optional)

#### Technical specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>PCE-910</th>
<th>PCE-917</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSI Range</td>
<td>±29.00</td>
<td>±101.00</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.01</td>
<td>0.65</td>
</tr>
<tr>
<td>mbar Range</td>
<td>±2000</td>
<td>±7000</td>
</tr>
<tr>
<td>Resolution</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>inHg Range</td>
<td>±802.0</td>
<td>±2800</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.5</td>
<td>2</td>
</tr>
<tr>
<td>mmHg Range</td>
<td>±20.40</td>
<td>±7600</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.01</td>
<td>0.65</td>
</tr>
<tr>
<td>Kg/cm² Range</td>
<td>±1500</td>
<td>±5250</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.001</td>
<td>0.005</td>
</tr>
<tr>
<td>atmospheres Range</td>
<td>±1.974</td>
<td>±6.905</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.001</td>
<td>0.005</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±2 % (full range)</td>
<td></td>
</tr>
<tr>
<td>Reproducibility</td>
<td>±1 %</td>
<td></td>
</tr>
<tr>
<td>Measurement interval</td>
<td>0.8 s</td>
<td></td>
</tr>
<tr>
<td>Min. Peak, Hold</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>Interface</td>
<td>RS-232</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>9 V battery (PP3)</td>
<td></td>
</tr>
<tr>
<td>Enclosure</td>
<td>plastic</td>
<td></td>
</tr>
<tr>
<td>Enclosure dimensions</td>
<td>180 x 72 x 32 mm</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>345 g</td>
<td></td>
</tr>
</tbody>
</table>

### Contents

PCE-910 or PCE-917 differential pressure meter, carrying case, battery and user’s manual

### Model No. Description

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCE-910</td>
<td>Differential pressure meter for gas and liquids up to 2000 mbar</td>
</tr>
<tr>
<td>PCE-917</td>
<td>Differential pressure meter for gas and liquids up to 7000 mbar</td>
</tr>
</tbody>
</table>

### Optional accessories

- SOFT-LUT-D: Software with RS-232 cable
- RS232-USB: RS-232 to USB Adaptor
- CAL-AZ: ISO Certificate
**PCE-932**

Pressure meter with external sensors for ranges up to 400 bar, optional RS-232 cable and software

This handheld pressure meter is used to measure high ranges of pressure in the industrial sector and in research and development. You can connect a pressure sensor, up to a maximum of 400 bar, to the unit (with a 1.2m long connecting cable). The integrated RS-232 interface can be used to transfer data to a computer, using the optional software and data cable. This pressure meter comes calibrated, but if you want, we can offer you an optional laboratory calibration ISO (with certificate).

- Pressure measurement for several conditions and systems
- Maximum pressure up to 400 bar (depending on sensor)
- It’s not necessary to recalibrate if you change the sensor
- RS-232 interface
- Optional software to transfer data to a computer
- Several units adjustable (bar, psi, mW, etc.)
- Min, Max, Data Hold functions
- Auto shut-off to save battery life (can be disabled)
- ISO Certificate (optional)

**Technical specifications**

- Measurement range: 0 to 400 bar (depending on sensor / pressure connection)
- Selectable measuring units: bar, psi, Kg/cm², mm/Hg, inch/Hg, mH₂O, inch/H₂O, atmospheres
- Pressure connection: optional, voltage DC 5V (maximum sensor output DC 100 mV (see ranges)
- Zero function for offset correction via keypad
- Functions: pressure, Min and Max, Hold, transfer to a PC through integrated RS-232 interface
- Auto shut-off to save battery life (can be disabled)
- Measurement interval: every 0.8 sec. approximately
- Indicator: large LCD (61 x 34 mm)
- Operating temperature: 0 to +50 °C
- Operating humidity: 0 to 80 % r.h.
- Enclosure: ABS plastic
- Battery life indicated on the display
- Power: 9 V battery pack
- Dimensions: 180 x 72 x 32 mm
- Weight: 345 g

**Model No.** | **Description**
---|---
PCE-932 | Pressure meter PC-932

**Contents**

Pressure meter PCE-932, user’s manual (pressure probes are not included in the delivery)

**Optional accessories**

- PS-100-20 Pressure probe for 20 bar
- PS-100-50 Pressure probe for 50 bar
- PS-100-100 Pressure probe for 100 bar
- PS-100-400 Pressure probe for 400 bar
- SOFT-LUT-D Software with RS-232 cable
- RS232-USB RS-232 to USB Adaptor
- CAL-PS ISO Certificate

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**PCE-THB 38**

Thermometer, hygrometer and barometer all-in-one, with dew point calculation

The PCE-THB38 thermohygrometer and barometer can measure and display digitally the relative humidity, temperature and barometric pressure. Temperature is measured using an RTD sensor and relative humidity is measured using a capacitive sensor with a high repeatability. The barometer also calculates dew point. All this is contained with one complete climatological meter.

- Measures temperature, humidity and barometric pressure
- Calculates dew point
- Selection of units of pressure: hPa (mbar), mmhg and inHG
- Minimum, maximum and Hold functions
- Internal sensor is protected
- Compact design
- ISO Certificate (optional)

**Technical specifications**

- Measurement ranges:
  - Barometric pressure: 10 to 1100 hPa (mbar)
  - Temperature: 0 to +50 °C
  - Relative humidity: 10 to 95 % r.h.
  - Dew point (calculation): -25 to +49 °C
- Resolution:
  - Barometric pressure: 0.1 hPa <1000 hPa, 1 hPa >1000 hPa
  - Temperature: 0.1 °C
  - Relative humidity: 0.1 % r.h.
  - Dew point: 0.01 °C
- Accuracy:
  - Barometric pressure: ±1.5 hPa <1000 hPa, ±2 hPa >1000 hPa
  - Temperature: ±0.8 °C
  - Relative humidity: ±3 % of reading ±1 % r.h. < 70 % r.h., ±3 % r.h. >70 % r.h.
- Operating temperature: 0 to +50 °C
- Power: 4 x 1.5 V battery AAA
- Dimensions: 210 x 40 mm
- Weight (incl. batteries): 160 g

**Contents**

PCE-THB38 Thermo-hygrometer-barometer, batteries and user’s manual

**Model No.** | **Description**
---|---
PCE-THB 38 | Thermo-hygrometer and barometer

**Optional accessories**

- CAL-THB ISO Certificate
- CAL-RF ISO Certificate

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**PCE-932**

Pressure meter with external sensors for ranges up to 400 bar, optional RS-232 cable and software

This handheld pressure meter is used to measure high ranges of pressure in the industrial sector and in research and development. You can connect a pressure sensor, up to a maximum of 400 bar, to the unit (with a 1.2m long connecting cable). The integrated RS-232 interface can be used to transfer data to a computer, using the optional software and data cable. This pressure meter comes calibrated, but if you want, we can offer you an optional laboratory calibration ISO (with certificate).

- Pressure measurement for several conditions and systems
- Maximum pressure up to 400 bar (depending on sensor)
- It’s not necessary to recalibrate if you change the sensor
- RS-232 interface
- Optional software to transfer data to a computer
- Several units adjustable (bar, psi, mW, etc.)
- Min, Max, Data Hold functions
- Auto shut-off to save battery life (can be disabled)
- ISO Certificate (optional)

**Technical specifications**

- Measurement range: 0 to 400 bar (depending on sensor / pressure connection)
- Selectable measuring units: bar, psi, Kg/cm², mm/Hg, inch/Hg, mH₂O, inch/H₂O, atmospheres
- Pressure connection: optional, voltage DC 5V (maximum sensor output DC 100 mV (see ranges)
- Zero function for offset correction via keypad
- Functions: pressure, Min and Max, Hold, transfer to a PC through integrated RS-232 interface
- Auto shut-off to save battery life (can be disabled)
- Measurement interval: every 0.8 sec. approximately
- Indicator: large LCD (61 x 34 mm)
- Operating temperature: 0 to +50 °C
- Operating humidity: 0 to 80 % r.h.
- Enclosure: ABS plastic
- Battery life indicated on the display
- Power: 9 V battery pack
- Dimensions: 180 x 72 x 32 mm
- Weight: 345 g

**Model No.** | **Description**
---|---
PCE-932 | Pressure meter PC-932

**Contents**

Pressure meter PCE-932, user’s manual (pressure probes are not included in the delivery)

**Optional accessories**

- PS-100-20 Pressure probe for 20 bar
- PS-100-50 Pressure probe for 50 bar
- PS-100-100 Pressure probe for 100 bar
- PS-100-400 Pressure probe for 400 bar
- SOFT-LUT-D Software with RS-232 cable
- RS232-USB RS-232 to USB Adaptor
- CAL-PS ISO Certificate

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- Measures temperature, humidity and barometric pressure
- Calculates dew point
- Selection of units of pressure: hPa (mbar), mmhg and inHG
- Minimum, maximum and Hold functions
- Internal sensor is protected
- Compact design
- ISO Certificate (optional)

**Technical specifications**

- Measurement ranges:
  - Barometric pressure: 10 to 1100 hPa (mbar)
  - Temperature: 0 to +50 °C
  - Relative humidity: 10 to 95 % r.h.
  - Dew point (calculation): -25 to +49 °C
- Resolution:
  - Barometric pressure: 0.1 hPa <1000 hPa, 1 hPa >1000 hPa
  - Temperature: 0.1 °C
  - Relative humidity: 0.1 % r.h.
  - Dew point: 0.01 °C
- Accuracy:
  - Barometric pressure: ±1.5 hPa <1000 hPa, ±2 hPa >1000 hPa
  - Temperature: ±0.8 °C
  - Relative humidity: ±3 % of reading ±1 % r.h. < 70 % r.h., ±3 % r.h. >70 % r.h.
- Operating temperature: 0 to +50 °C
- Power: 4 x 1.5 V battery AAA
- Dimensions: 210 x 40 mm
- Weight (incl. batteries): 160 g

**Contents**

PCE-THB38 Thermo-hygrometer-barometer, batteries and user’s manual

**Model No.** | **Description**
PCE-THB 38 | Thermo-hygrometer and barometer

**Optional accessories**

- CAL-THB ISO Certificate
- CAL-RF ISO Certificate