



# User Manual

PCE-MPM 10 Manometer



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski, русский, 中文) can be found by using our product search on: [www.pce-instruments.com](http://www.pce-instruments.com)

Last change: 28 May 2024  
v1.0

## Contents

|           |                                                          |          |
|-----------|----------------------------------------------------------|----------|
| <b>1</b>  | <b>Safety notes.....</b>                                 | <b>1</b> |
| <b>2</b>  | <b>Specifications.....</b>                               | <b>2</b> |
| <b>3</b>  | <b>Delivery scope.....</b>                               | <b>3</b> |
| <b>4</b>  | <b>Device description .....</b>                          | <b>3</b> |
| 4.1       | Display description .....                                | 4        |
| <b>5</b>  | <b>Switching the meter on and off .....</b>              | <b>4</b> |
| <b>6</b>  | <b>Zero point / offset.....</b>                          | <b>4</b> |
| <b>7</b>  | <b>Freeze measured value .....</b>                       | <b>4</b> |
| <b>8</b>  | <b>Highest / lowest and average measured value .....</b> | <b>5</b> |
| <b>9</b>  | <b>Backlight .....</b>                                   | <b>5</b> |
| <b>10</b> | <b>Automatic power-off .....</b>                         | <b>5</b> |
| <b>11</b> | <b>Units .....</b>                                       | <b>5</b> |
| <b>12</b> | <b>Battery.....</b>                                      | <b>5</b> |
| <b>13</b> | <b>Contact.....</b>                                      | <b>6</b> |
| <b>14</b> | <b>Disposal .....</b>                                    | <b>6</b> |

## 1 Safety notes

Please read this manual carefully and completely before you use the device for the first time. The device may only be used by qualified personnel and repaired by PCE Instruments personnel. Damage or injuries caused by non-observance of the manual are excluded from our liability and not covered by our warranty.

- The device must only be used as described in this instruction manual. If used otherwise, this can cause dangerous situations for the user and damage to the meter.
- The instrument may only be used if the environmental conditions (temperature, relative humidity, ...) are within the ranges stated in the technical specifications. Do not expose the device to extreme temperatures, direct sunlight, extreme humidity or moisture.
- Do not expose the device to shocks or strong vibrations.
- The case should only be opened by qualified PCE Instruments personnel.
- Never use the instrument when your hands are wet.
- You must not make any technical changes to the device.
- The appliance should only be cleaned with a damp cloth. Use only pH-neutral cleaner, no abrasives or solvents.
- The device must only be used with accessories from PCE Instruments or equivalent.
- Before each use, inspect the case for visible damage. If any damage is visible, do not use the device.
- Do not use the instrument in explosive atmospheres.
- The measurement range as stated in the specifications must not be exceeded under any circumstances.
- Non-observance of the safety notes can cause damage to the device and injuries to the user.

We do not assume liability for printing errors or any other mistakes in this manual.

We expressly point to our general guarantee terms which can be found in our general terms of business.

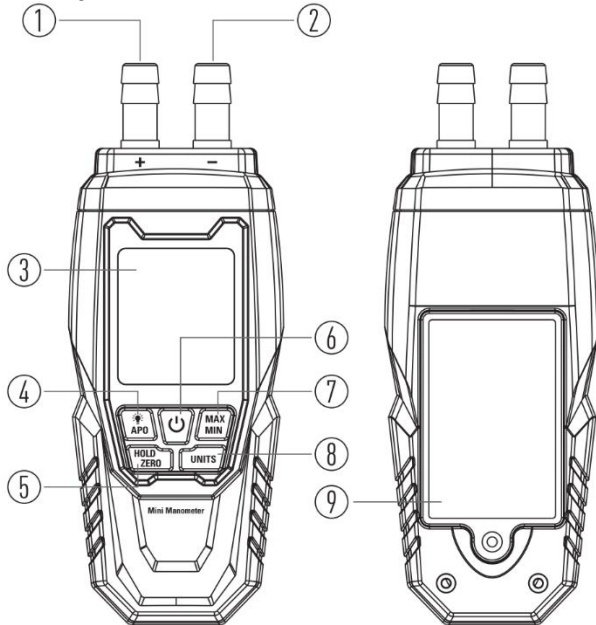
## 2 Specifications

|                               |                                                         |
|-------------------------------|---------------------------------------------------------|
| <b>Pa</b>                     |                                                         |
| Measurement range             | ±5000 Pa                                                |
| Resolution                    | 1 Pa                                                    |
| <b>hPa</b>                    |                                                         |
| Measurement range             | ±50.00 hPa                                              |
| Resolution                    | 0.01 hPa                                                |
| <b>mbar</b>                   |                                                         |
| Measurement range             | ±50.00 mbar                                             |
| Resolution                    | 0.01 mbar                                               |
| <b>mmH<sub>2</sub>O</b>       |                                                         |
| Measurement range             | ±509.9 mmH O <sub>2</sub>                               |
| Resolution                    | 0.1 mmH O <sub>2</sub>                                  |
| <b>mmHg</b>                   |                                                         |
| Measurement range             | ±37.50 mmHg                                             |
| Resolution                    | 0.01 mmHg                                               |
| <b>inH<sub>2</sub>O</b>       |                                                         |
| Measurement range             | ±20.07 inH O <sub>2</sub>                               |
| Resolution                    | 0.01 inH O <sub>2</sub>                                 |
| <b>inHg</b>                   |                                                         |
| Measurement range             | ±1.476 inHg                                             |
| Resolution                    | 0.001 inHg                                              |
| <b>psi</b>                    |                                                         |
| Measurement range             | ±0.725 psi                                              |
| Resolution                    | 0.001 psi                                               |
| <b>ozin<sup>2</sup></b>       |                                                         |
| Measurement range             | ±11.60 ozin <sup>2</sup>                                |
| Resolution                    | 0.01 ozin <sup>2</sup>                                  |
| <b>bar</b>                    |                                                         |
| Measurement range             | ±0.050 bar                                              |
| Resolution                    | 0.001 bar                                               |
| <b>kPa</b>                    |                                                         |
| Measurement range             | ±5.000 kPa                                              |
| Resolution                    | 0.001 kPa                                               |
| <b>Further specifications</b> |                                                         |
| Display                       | LCD                                                     |
| Accuracy                      | ±0.3 % of range @ 25 °C / 77 °F                         |
| Repeatability                 | ±0.2 % of range (maximum ±0.5 % of range)               |
| Linearity                     | ±0.29 % of range                                        |
| Medium                        | gas                                                     |
| Pressure range                | ±5000 Pa / ±0.725 psi                                   |
| Maximum pressure              | 2 psi                                                   |
| Measuring rate                | 2 Hz                                                    |
| Battery status display        | Indication when battery voltage is too low              |
| Measuring range exceeded      | "OL" display                                            |
| Operating conditions          | 0 ... 50 °C / 32 ... 122 °F, <90 % RH, non-condensing   |
| Storage conditions            | -10 ... 60 °C / 14 ... 140 °F, <90 % RH, non-condensing |
| Hose connection               | 2 x 8 mm / 0.078 x 0.315"                               |
| Power supply                  | 3 x 1.5 V batteries                                     |
| Dimensions                    | 140 x 52 x 28 mm / 5.5 x 2.0 x 1.1"                     |
| Weight                        | 130 g / 4.58 oz                                         |

### 3 Delivery scope

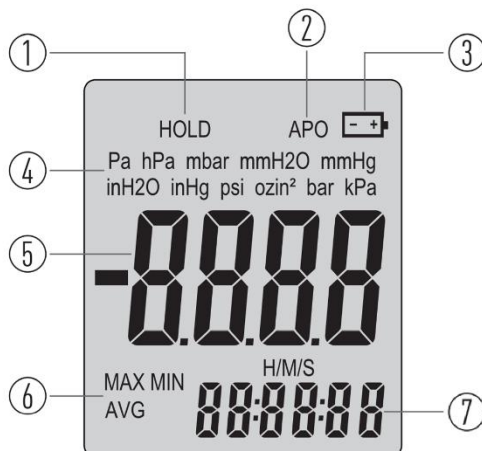
1 x manometer PCE-MPM 10  
 2 x 1 m hose connection  
 3 x 1.5 V battery  
 1 x user manual

### 4 Device description



| No. | Description                               |
|-----|-------------------------------------------|
| 1   | Positive pressure connection              |
| 2   | Negative pressure connection              |
| 3   | Display                                   |
| 4   | Key for backlight and automatic power-off |
| 5   | Hold key / zero point key                 |
| 6   | On and off key                            |
| 7   | MAX / MIN / AVG key                       |
| 8   | Unit key                                  |
| 9   | Battery compartment cover                 |

## 4.1 Display description



| No. | Description                                                                              |
|-----|------------------------------------------------------------------------------------------|
| 1   | "HOLD" - the displayed measured value has been frozen                                    |
| 2   | "APO" - automatic power-off is activated                                                 |
| 3   | Battery indicator - when this symbol is displayed, the battery is discharged             |
| 4   | Units                                                                                    |
| 5   | Measured value                                                                           |
| 6   | MAX: highest measured value<br>MIN: lowest measured value<br>AVG: average measured value |
| 7   | Time display depending on the function: HH/MM/SS                                         |

## 5 Switching the meter on and off

To switch the meter on, press and hold the on/off key for 2 seconds. To switch the meter off again, press and hold the same key until the displayed timer is zero and the meter has switched off.

## 6 Zero point / offset

To set a new zero point, first remove all pressure lines. Then press and hold the "ZERO" key until "0000" appears on the display. The zero point has been reset. You can then make a measurement again.

**Note:** A different zero point does not change the maximum measurement range.

## 7 Freeze measured value

To freeze the displayed measured value, briefly press the "HOLD" key once. "HOLD" appears on the display and the measured value is frozen. To resume the measurement, press the "HOLD" key again.

## 8 Highest / lowest and average measured value

To display the highest, lowest or average measured value, press the "MAX MIN" key repeatedly until you have reached your desired function. The following appears on the display.

| Function | Meaning                | Time of day                              |
|----------|------------------------|------------------------------------------|
| MAX      | Highest measured value | Time to reach the highest measured value |
| MIN      | Lowest measured value  | Time to reach the lowest measured value  |
| AVG      | Average measured value | Running time of the average measurement  |

The displayed measured value refers to the active function.

To resume normal measurement, press and hold the "MAX MIN" key for 2 seconds.

**Note:** If this function is active, automatic power-off is deactivated.

## 9 Backlight

To switch the backlight on and off, briefly press the backlight key once. The backlight will switch itself off automatically after 5 minutes.

## 10 Automatic power-off

If automatic power-off is activated, the device switches itself off within 10 minutes. If "APO" is shown on the display, this function is activated. To switch this function on and off, press and hold the "APO" key for two seconds.

## 11 Units

To select between the units, press the "UNITS" key repeatedly until you have reached your desired function.

## 12 Battery

If  appears on the display, the batteries are discharged and must be replaced. Use 3 x 1.5 V batteries. To replace the batteries, open the battery compartment on the back of the device. Observe the correct polarity.

### 13 Contact

If you have any questions, suggestions or technical problems, please do not hesitate to contact us. You will find the relevant contact information at the end of this user manual.

### 14 Disposal

For the disposal of batteries in the EU, the 2006/66/EC directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose.

In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law.

For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations.

If you have any questions, please contact PCE Instruments.





## PCE Instruments contact information

### Germany

PCE Deutschland GmbH  
Im Langel 26  
D-59872 Meschede  
Deutschland  
Tel.: +49 (0) 2903 976 99 0  
Fax: +49 (0) 2903 976 99 29  
info@pce-instruments.com  
www.pce-instruments.com/deutsch

### France

PCE Instruments France EURL  
23, rue de Strasbourg  
67250 Soultz-Sous-Forêts  
France  
Téléphone: +33 (0) 972 3537 17  
Numéro de fax: +33 (0) 972 3537 18  
info@pce-france.fr  
www.pce-instruments.com/french

### Spain

PCE Ibérica S.L.  
Calle Mula, 8  
02500 Tobarra (Albacete)  
España  
Tel. : +34 967 543 548  
Fax: +34 967 543 542  
info@pce-iberica.es  
www.pce-instruments.com/espanol

### United Kingdom

PCE Instruments UK Ltd  
Trafford House  
Chester Rd, Old Trafford  
Manchester M32 0RS  
United Kingdom  
Tel: +44 (0) 161 464902 0  
Fax: +44 (0) 161 464902 9  
info@pce-instruments.co.uk  
www.pce-instruments.com/english

### Italy

PCE Italia s.r.l.  
Via Pesciatina 878 / B-Interno 6  
55010 Loc. Gragnano  
Capannori (Lucca)  
Italia  
Telefono: +39 0583 975 114  
Fax: +39 0583 974 824  
info@pce-italia.it  
www.pce-instruments.com/italiano

### Turkey

PCE Teknik Cihazları Ltd.Şti.  
Halkalı Merkez Mah.  
Pehlivan Sok. No.6/C  
34303 Küçükçekmece - İstanbul  
Türkiye  
Tel: 0212 471 11 47  
Faks: 0212 705 53 93  
info@pce-cihazlari.com.tr  
www.pce-instruments.com/turkish

### The Netherlands

PCE Brookhuis B.V.  
Institutenweg 15  
7521 PH Enschede  
Nederland  
Telefoon: +31 (0)53 737 01 92  
info@pcebenelux.nl  
www.pce-instruments.com/dutch

### United States of America

PCE Americas Inc.  
1201 Jupiter Park Drive, Suite 8  
Jupiter / Palm Beach  
33458 FL  
USA  
Tel: +1 (561) 320-9162  
Fax: +1 (561) 320-9176  
info@pce-americas.com  
www.pce-instruments.com/us

### Denmark

PCE Instruments Denmark ApS  
Birk Centerpark 40  
7400 Herning  
Denmark  
Tel.: +45 70 30 53 08  
kontakt@pce-instruments.com  
www.pce-instruments.com/dansks