



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

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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.

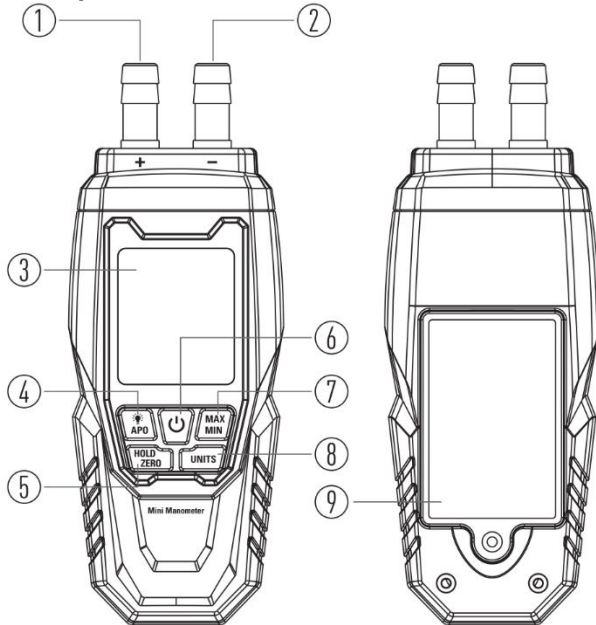
2 Specifications

Pa	
Measurement range	±5000 Pa
Resolution	1 Pa
hPa	
Measurement range	±50.00 hPa
Resolution	0.01 hPa
mbar	
Measurement range	±50.00 mbar
Resolution	0.01 mbar
mmH₂O	
Measurement range	±509.9 mmH O ₂
Resolution	0.1 mmH O ₂
mmHg	
Measurement range	±37.50 mmHg
Resolution	0.01 mmHg
inH₂O	
Measurement range	±20.07 inH O ₂
Resolution	0.01 inH O ₂
inHg	
Measurement range	±1.476 inHg
Resolution	0.001 inHg
psi	
Measurement range	±0.725 psi
Resolution	0.001 psi
ozin²	
Measurement range	±11.60 ozin ²
Resolution	0.01 ozin ²
bar	
Measurement range	±0.050 bar
Resolution	0.001 bar
kPa	
Measurement range	±5.000 kPa
Resolution	0.001 kPa
Further specifications	
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

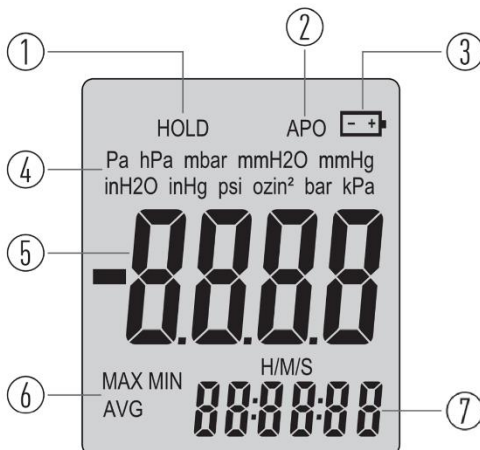
- 1 x manometer PCE-MPM 10
- 2 x 1 m hose connection
- 3 x 1.5 V battery
- 1 x user manual

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 MIN: lowest measured value 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.



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