



# User Manual

Airflow Meter PCE-MAM 2



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)

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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.

If you have any questions please contact PCE Instruments. The contact details can be found at the end of this manual.




## 2 Description

Based on the high-speed MCU calculation, this anemometer can provide fast and measuring. It is designed for air velocity and temperature measuring projects, quality control and all kinds of environmental air velocity and temperature measurement. It is widely used for the air velocity and temperature measurement at constructional engineering, factory, school, public transport, etc.

## 3 Features

- High accuracy, fast response
- Color LCD display with backlight
- Air velocity and temperature measurement
- MAX/MIN/Data HOLD
- Selectable measurement units: m/s, ft/min, mph, km/h or knots
- Over range indication
- Low battery indication
- Enable/disable Auto Power Off

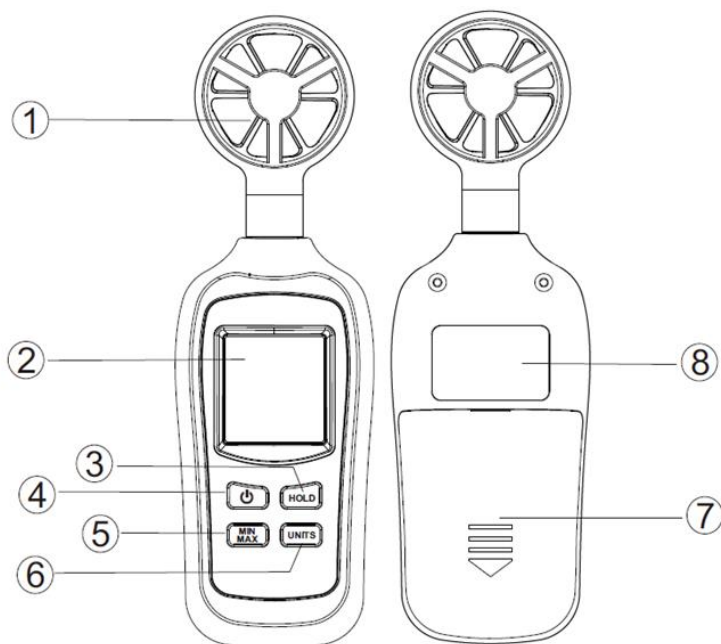
## 4 Basic Operation

- Open battery cover and install 3 x 1.5 V AAA batteries in the battery compartment. Observe correct polarity.
- Press " " key to turn on the meter, it will conduct self-inspection by LCD full display, after that it enters into the normal measuring mode.

## 5 Specifications

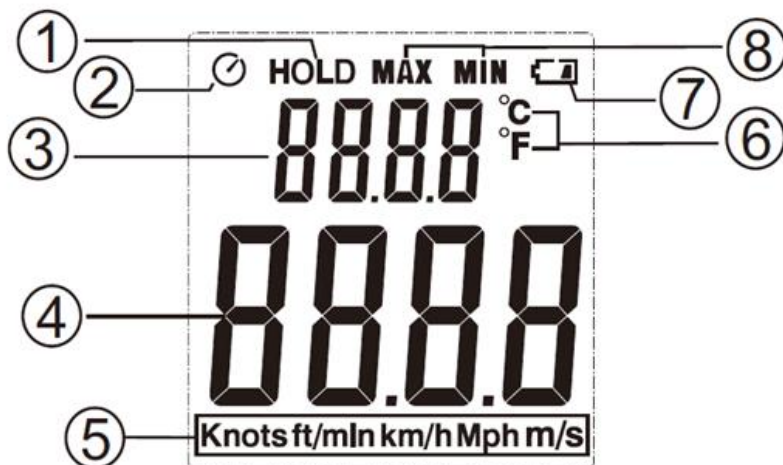
Air Velocity Range	Resolution	Accuracy
0.4 ... 30.0 m/s	0.1 m/s	$\pm(3 \% + 0.3 \text{ m/s})$
1.4 ... 108 Km/h	0.1 km/h	$\pm(3 \% + 1.0 \text{ km/h})$
0.9 ... 67.0 MPH	0.1 mph	$\pm(3 \% + 0.4 \text{ mph})$
0.8 ... 58.0 knots	0.1 knots	$\pm(3 \% + 0.4 \text{ knots})$
80 ... 5900 ft/min	1.0 ft/min	$\pm(3 \% + 40 \text{ ft/min})$
Temperature range	-20 ... 70 °C / -4 ... 158 °F	
Temperature accuracy	$\pm 1.5 \text{ °C} / 2.7 \text{ °F}$	
Temperature resolution	0.1 °C / °F	
Sampling interval	300 ms	
Battery life	approx. 60 hours	
Enable/disable Auto Power Off	The meter shuts off automatically after 15 minutes inactivity under Auto Power Off mode, function can be disabled.	
Power supply	3 x 1.5 V AAA batteries	
Operating conditions	-20 ... 60 °C / -4 ... 140 °F 10 ... 90 % RH	
Storage conditions	-20 ... 60 °C / -4 ... 140 °F 10 ... 75 % RH	
Dimensions	178.5 x 56 x 30.5 mm	
Weight	84 g	

## 6 Meter description



1. Vane sensor
2. LCD
3. Hold key
4. Power key
5. MAX/MIN key
6. Unit conversion key
7. Battery compartment
8. Nameplate



## 7 LCD description






1. HOLD icon
2. Auto Power Off icon
3. Temperature readings
4. Air velocity readings
5. Velocity unit icon
6. Temperature unit icon
7. Low battery icon
8. MAX/MIN icon


## 8 Operating instructions



**Power on/off:** Press “” to turn on/off the meter.





**Data Hold:** In measuring mode, press “”, “HOLD” icon will appear on the LCD, which indicates that the data is frozen. To unfreeze the reading, press “” again.

**MAX/MIN:** In measuring mode, press “”, “MAX” will appear on the LCD, the captured maximum value will be displayed on the LCD, press “” again, “MIN” will appear on the LCD and the captured minimum value will be displayed on the LCD. Press and hold “”. The meter exits MAX/MIN measurement mode and returns to normal measuring mode.




**Velocity unit conversion:** In measuring mode, press "". The measurement units will be converted from m/s, km/h, mph, ft/min, knots in turn.

**Temperature unit conversion:** With the meter off, press and hold the "" key, meanwhile press "" to turn on the meter. You can then change the temperature unit °C or °F. The default temperature unit is °C.

**Enable/Disable auto power off:** With the meter off, press and hold the "" key, meanwhile press the "" key. The Auto Power Off icon "" will disappear from the LCD screen, which indicates the Auto Power Off function is disabled. The meter can be powered off only by manually pressing the power key "".

## 9 Notes

- (1) Repairs or servicing not covered in this manual should only be performed by qualified personnel.
- (2) Remove the battery when the meter is to be stored for long periods of time to avoid battery leakage.
- (3) When the low battery icon "" appears, replace the meter's battery.
- (4) Working in strong magnetic environments will affect the measuring accuracy.

## 10 Delivery content

- 1 x anemometer PCE-MAM 2
- 1 x user manual
- 3 x 1.5 V AAA battery



## 11 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.

## 12 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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