



PCE Instruments PCE-AM 85 Air Flow Meter User Manual

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PCE Instruments PCE-AM 85 Air Flow Meter



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.

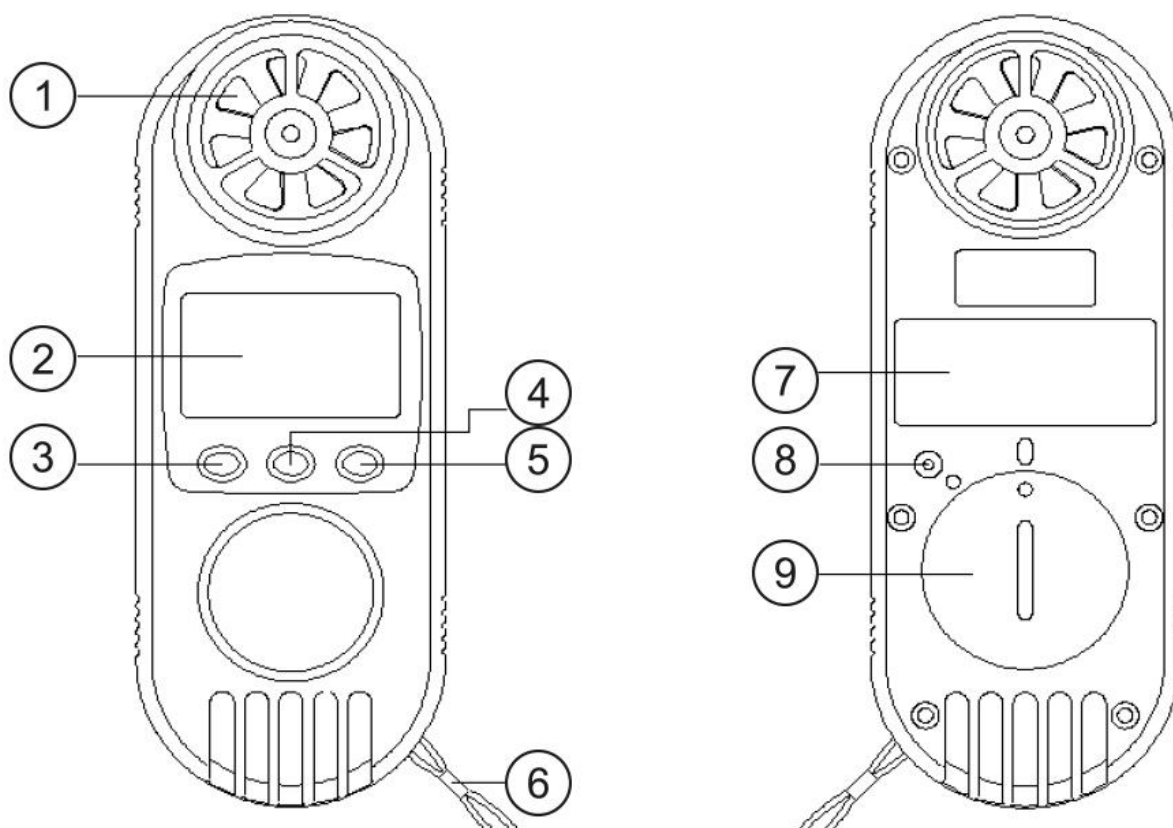
Specifications

Measuring function	Measurement range	Resolution	Accuracy
Wind speed	80 ... 3937 ft/min	1 ft/min	±3 % of range
	0.4 ... 20 m/s	0.1 m/s	
	1.4 ... 72 km/h	0.1 km/h	
	0.9.... 44.7 mph	0.1 mph	
	0.8.... 38.8 knots	0.1 knots	
Barometric air pressure	10.... 999.9 hPa	0.1 hPa	±1.5 hPa
	1000 ... 1100 hPa	1 hPa	±2 hPa
Elevation above sea level	-2000 ... 9000 m	1 m	±15 m
General technical data for the climate/weather meter			
Display	LC display, 8 mm digit height		
Measurement functions	Wind speed		
	Air pressure		
	Elevation above sea level		
Power supply	CR 2032 3 V battery		
Power consumption	approx. 5 mA		
Operating conditions	0 ... 50 °C / max. 80 % RH		
Dimensions	120 x 45 x 20 mm		
Weight	approx. 160 g		

Delivery scope

- 1 x air flow meter PCE-AM 85,
- 1 x CR2032 battery,
- 1 x protective bag
- 1 x user manual

System description



1. Vane
2. LC display
3. Hold key (freeze display)
4. Power key (On)
5. REC key (recording min, max)
6. Hand strap
7. Short description of key function
8. Pressure sensor barometer
9. Battery compartment

Measuring functions

Measuring function	Display text	Unit of measurement
Wind / airspeed	AN	m/s, km/h, mph, knot, FPM
Air pressure	bAr	hPa (HPA), mmHg (mHg), inHg (inHg)
Altitude above sea level	Hi9H	m, ft

The units of measurement in brackets are the different display representations of the units of measurement.

Operation

Open the battery compartment on the back of the device by turning it slightly to the left and insert the CR 2032 3 V battery, observing correct polarity. Close the battery compartment.

Functions

Switch on / off

- Press the “Power” key to switch on the meter.
- To switch off the meter, press and hold the “Power” key until it switches off.

Display backlight

- Press and release the “Power” key when the meter is switched on.
- The display backlight switches on for 5 seconds.

Select measuring function

- Press and hold the “Hold” key when the meter is switched on.
- The display shows the measuring functions one after the other.
- Release the key as soon as the desired measuring function is displayed.

Select unit of measurement

- With the meter switched on, press and hold the “REC” key until the display shows “Unit”.
- Press the “Power” key repeatedly until the desired unit of measurement appears on the display.
- Confirm the selection with the “REC” key.

Hold function

- Press and release the “Hold” key to freeze the current reading on the display.
- Press and release the “Hold” key again to return to normal measuring mode.
- The hold function is not available when the memory function is enabled.

Rec. function

- Briefly press the “REC” key to save the maximum and minimum readings of the current measurement.
- To call up the max value, press and release the “REC” key.
- To call up the min value, press and release the “REC” key again.
- To exit the Rec function and delete the saved values, press and hold the “REC” key for more than 2 seconds.

Automatic power off

The unit powers off after approx. 10 minutes of inactivity to save battery power. Automatic power off is not active in “REC” mode.

Measurement

Wind/airspeed

- Switch on the meter and select the wind / air speed measurement function as described above.
- Select the desired units of measurement as described above.
- Hold the meter in such a way that the vane is placed in wind direction.

Air pressure

- Switch on the meter and select the air pressure measuring function as described above.
- Select the desired unit of measurement as described above.
- Do not cover or enclose the opening of the pressure sensor on the back of the unit. This will lead to incorrect measurement results.

Attention!

The actual air pressure depends on the weather-related atmospheric air pressure and the altitude above sea level. The unit is set to sea level when delivered. To adjust the altitude above sea level to your location, proceed as follows.

- With the air pressure measuring function selected, press the “Hold” key.
- When the hold indicator is displayed, press and hold the “REC” key until “m” or “F” appears at the bottom of the display.
- With the “Hold” and “Power” keys, you can increase or decrease the site altitude above sea level.
- Press the “REC” key to confirm the entry.

Altitude above sea level

- Switch on the meter and select the function for the altitude above sea level measurement as described above.
- Select the desired unit of measurement as described above.
- Do not cover or enclose the opening of the pressure sensor on the back of the unit. This will lead to incorrect measurement results.

Attention!

The altitude measurement depends on the air pressure. The higher your location is above sea level, the lower the air pressure. For an accurate altitude measurement, it is therefore necessary to set the device accordingly. For an accurate setting, it is necessary to know the current altitude above sea level or the current air pressure.

Setting via “Altitude above sea level”

- With the altitude above sea level measurement function selected, press the “Hold” key.
- When the hold indicator is displayed, press and release the “REC” key. “m” or “F” appears at the bottom of the display.
- With the “Hold” and “Power” keys, you can increase or decrease the current site altitude above sea level.
- Press the “REC” key to confirm the entry.

Setting via “Air pressure“

- With the altitude above sea level measurement function selected, press the “Hold” key.
- When the hold indicator is displayed, press and hold the “REC” key until “HPA”, “mmHg” or “inHg” appears at the bottom of the display.
- Use the “Hold” and “Power” keys to increase or decrease the current air pressure value.

Press the “REC” key to confirm the entry.

Warranty

You can read our warranty terms in our General Business Terms which you can find here: <https://www.pce-instruments.com/english/terms>.

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 that disposes of the devices in line with the 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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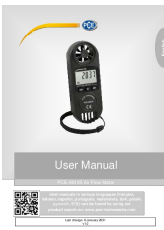
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Documents / Resources

	<p>PCE Instruments PCE-AM 85 Air Flow Meter [pdf] User Manual PCE-AM 85 Air Flow Meter, PCE-AM 85, Air Flow Meter</p>
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