English



User Manual

PCE-A 430 | Anemometer

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Last change: 3 May 2024
v1.0

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Contents

1 Safety notes 1

2 Technical specifications 2

3 Delivery scope 3

4 Device description 3

4.1 Device 3

4.2 Screen 4

5 Operation 5

5.1 Power supply 5

5.2 Switch on the meter 5

5.3 Switch off the meter 5

5.4 Automatic power off 5

5.5 Backlight 5

5.6 Low battery 5

5.7 MAX/AVG function 5

5.8 Temperature units 5

5.9 Air velocity units 5

5.10 Overrange or underrange 5

6 Contact 6

7 Disposal 6

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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.

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2 Technical specifications

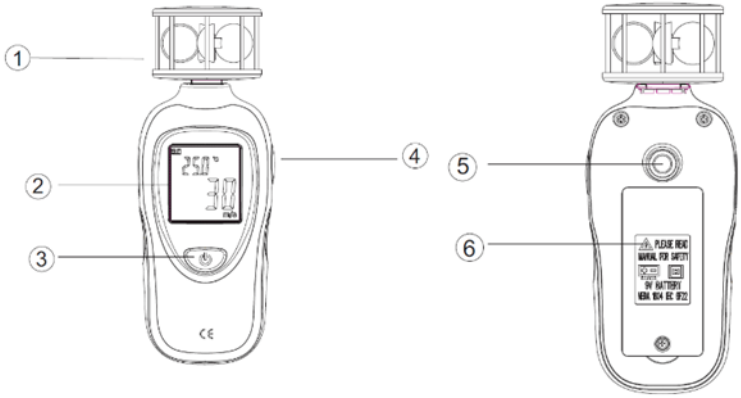
Air velocity in m/s	
Measurement range	0.7 m/s ... 30 m/s
Resolution	<20: 0.1 m/s / >20: 1 m/s
Accuracy	±(4 % +2 digits)
Air velocity in km/h	
Measurement range	2.5 km/h ... 105 km/h
Resolution	<20: 0.1 km/h / >20: 1 km/h
Accuracy	±(4 % +2 digits)
Air velocity in mph	
Measurement range	1.5 mph ... 67 mph
Resolution	<20: 0.1 mph / >20: 1 mph
Accuracy	±(4 % +2 digits)
Air velocity in knots	
Measurement range	1.3 knots ... 58.3 knots
Resolution	<20: 0.1 knots / >20: 1 knot
Accuracy	±(4 % +2 digits)
Temperature in °C	
Measurement range	-20 °C ... +50 °C
Resolution	0.1 °C
Accuracy	±1.5 °C
Temperature in °C	
Measurement range	-4 °F ... +122 °F
Resolution	0.1 °F
Accuracy	±2.7 °F
General technical data	
Measuring functions	MAX, average value
Units	m/s, km/h, kn, mph
Display type	LCD with backlight
Sensor	cup cross
Automatic power off	15 min
Menu language	English
Protection class (device)	IP20
Weight	36.5 g
Dimensions (L x W x H)	145 x 55 x 48 mm
Operating conditions	-20 ... 60 °C, 10 ... 90 % RH
Storage conditions	-20 ... 60 °C, 10 ... 75 % RH

3 Delivery scope

1 x PCE-A 430 anemometer
1 x 9V block battery
1 x device bag
1 x user manual

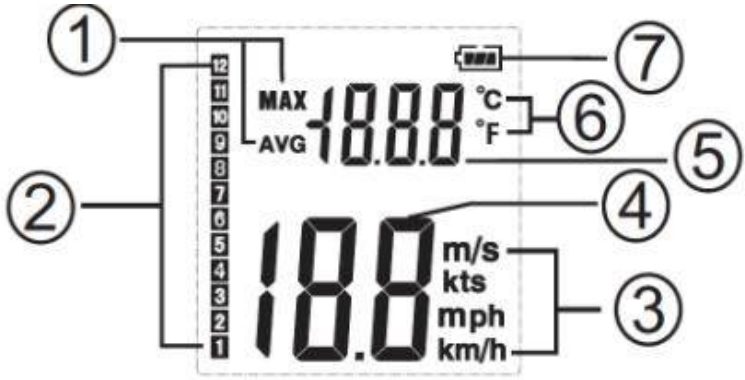
4 Device description

4.1 Device



1	Vane sensor
	Display
	ON/OFF key
	MAX/AVG key
5	Thread for tripod mounting
	Battery compartment

4.2 Screen



1	Display of the maximum value (MAX) / average value (AVG)
2	Beaufort scale
3	Air velocity unit
4	Air velocity reading
5	Temperature reading
6	Temperature unit
7	Battery level

5 Operation

5.1 Power supply
Open the battery compartment and insert a 9 V battery.

5.2 Switch on the meter
Press and hold the ON/OFF key for about 3 seconds until the LCD has switched on. You can then release the key.

5.3 Switch off the meter
Press and hold the ON/OFF key for about 3 seconds until the LCD has switched off. You can then release the key.

5.4 Automatic power off
The anemometer switches off automatically after about 15 minutes of inactivity.

5.5 Backlight
After starting the anemometer, press any key to activate the display backlight. The backlight switches off automatically after about 30 seconds of inactivity.

5.6 Low battery
If the low battery icon appears, replace the battery.

5.7 MAX/AVG function
Press the MAX/AVG key to display the maximum value on the screen. Press the MAX/AVG key again to display the average value on the screen.

5.8 Temperature units
You can display the temperature value in the units ºC and ºF. To change the unit, press and hold the MAX/AVG key for 3 seconds.

5.9 Air velocity units
You can display the air speed value in the units m/s, km/h, mph and kn (knots). To change the unit, briefly press the ON/OFF key.

5.10 Overrange or underrange

Temperature
If the measured temperature value is below the measurement range, "OL" is displayed. If the measured temperature value is higher than the measurement range, "OH" is displayed.

Air velocity
If the measured air velocity value is above the measurement range, "OL" is displayed.

6 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.

7 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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