ANEMOMETER

PCE-AM 31



- **Wind speed measurement**
- **Temperature measurement**
- **Volume flow**
- **Measurement functions: Min, Max, real-time measurement**
- **Switchable backlight**
- **Automatic switch-off**
- **USB-C interface**
- **Compact, waterproof housing**
- **Rechargeable lithium battery**
- **With built-in compass**

The anemometer enables precise measurements of wind speed and temperature. It reliably and conveniently measures wind speeds from 0.3 to 40 m/s. The integrated temperature sensor also enables measurements in the range from -10 to 45°C / 14 to 113°F, thus offering optimal conditions for applications in ventilation, air conditioning and environmental technology. In addition to pure flow measurement, the device automatically calculates the volume flow based on the measured air velocity and an individually adjustable area. The volume flow can be displayed in a range from 0 to 999,900 m^3/min.

The anemometer's important technical functions include min, max and real-time measurement, display in multiple units (°C, °F, knots, m/s, km/h, mph, ft/min, ft^3/min, m^3/min, m^3/s), switchable backlight, compact, waterproof housing, integrated compass, USB-C interface and a rechargeable lithium battery that ensures long operating times. The anemometer also offers various measurement modes and convenient operation via touch buttons, which enable intuitive control of all functions. A special highlight of the anemometer is the integrated compass, which provides accurate directional information. This is particularly useful for outdoor measurements, environmental research or ventilation applications where the direction of air flow is crucial.

Specification

Speed	
Measuring range	0,3 ... 40 m/s
Resolution	0.1 m/s
Accuracy	±5 % of Rd
Speed	
Measuring range	2 ... 90 km/h
Resolution	0.3 km/h
Accuracy	±5 % of Rd
Speed	
Measuring range	59 ... 5905 ft/min
Resolution	19 ft/min
Accuracy	±5 % of Rd
Speed	
Measuring range	1 ... 55 knots
Resolution	0,2 knots
Accuracy	±5 % of Rd
Speed	
Measuring range	1 ... 65 mph
Resolution	0,2 mph
Accuracy	±5 % of Rd
Volume flow	
Measuring range	0 ... 999900 m^3/min
Resolution	0,001 m^3/min
Accuracy	±5 % of Rd
Volume flow	
Measuring range	0 ... 999900 m^3/s
Resolution	0,001 m^3/s
Accuracy	±5 % of Rd
Volume flow	
Measuring range	0 ... 999900 ft^3/min
Resolution	0,001 ft^3/min
Accuracy	±5 % of Rd
Temperature	
Measuring range	-10 ... +45 °C
Resolution	0,2 °C
Accuracy	±2 °C
Temperature	
Measuring range	14 ... 113 °F

General technical data	
Measuring functions	MIN, MAX
Units	°C, °F, m/s, km/h, mph, ft/min, knots, m^3/min, m^3/s, ft^3/min
Display type	LCD with backlight
Display size	2,3 Inch
Interface	USB-C
Charging time	3 h
Automatic power-off	5 min
Menu language	English, English (GB)
Protection class (device)	IP43
Power supply	5 V DC
(Rechargeable) battery	1 x 3,7 V internal , Lithium-ion polymer battery
Capacity	400 mAh
Performance	1,48 Wh
Operating conditions	-10 ... 45 °C , 0 ... 90 % RH
Storage conditions	-20 ... 50 °C , 0 ... 90 % RH
Dimensions (L x W x H)	210 x 87 x 87 mm
Weight	188 g

Resolution	0,36 °F
Accuracy	±3.6 °F
Sensor	
Battery type	Cup cross
Housing	plastic
Dimension	Ø 63 mm