

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 m³/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, ft³/min, m³/min, m³/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

Measurement range up to 0,3 ... 40 m/s

Resolution 0.1 m/s

Accuracy $\pm 5\%$ of Rd

Speed

Measurement range up to 2 ... 90 km/h

Resolution 0.3 km/h

Accuracy $\pm 5\%$ of Rd

Speed

Measurement range up to 59 ... 5905 ft/min

Resolution 19 ft/min

Accuracy $\pm 5\%$ of Rd

Speed

Measurement range up to 1 ... 55 knots

Resolution 0,2 knots

Accuracy $\pm 5\%$ of Rd

Speed

Measurement range up to 1 ... 65 mph

Resolution 0,2 mph

Accuracy $\pm 5\%$ of Rd

Volume flow

Measurement range up to 0 ... 999900 m³/min

Resolution 0,001 m³/min

Accuracy $\pm 5\%$ of Rd

Volume flow

Measurement range up to 0 ... 999900 m³/s

Resolution 0,001 m³/s

Accuracy $\pm 5\%$ of Rd

Volume flow

Measurement range up to 0 ... 999900 ft³/min

Resolution 0,001 ft³/min

Accuracy $\pm 5\%$ of Rd

Temperature

Measurement range up to -10 ... +45 °C

Resolution 0,2 °C

Accuracy $\pm 2\%$ °C

Temperature

Measurement range up to 14 ... 113 °F

General technical data

Measuring functions MIN, MAX

Units °C, °F, m/s, km/h, mph, ft/min, knots, m³/min, m³/s, ft³/min

Display type LCD with backlight

Display size 2,3 Inch

Interface USB-C

Charging time 3 h

Automatic power-off 5 min

Automatic power-off can be deactivated Yes

Menu language English, English (GB)

Protection class (device) IP43

Power supply 5 V DC

(Rechargeable) battery 1 x 3,7 V internal , Lithium-ion battery

Capacity 400 mAh

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