ENVIRONMENTAL METER

PCE-AM 45



- **Battery operation for mobile use**
- **Telescopic probe with a length of 270 ... 540 mm / 10.63 ... 21.26“**
- **Impeller opening of 65 mm / 2.5"**
- **Velocity and volume flow measurement**
- **Measuring range 0.3 ... 45.0 m/s / 0.9 ... 147 ft/s**
- **Backlit LC display**

The environmental meter determines the wind speed via an impeller with a diameter of 65 mm / 2.5". The anemometer can reliably determine the speed in a measuring range of 0.3 ... 45.0 m/s / 0.9 ... 147 ft/s. In addition to the speed measurement with the anemometer, a volume flow measurement can also be carried out. In addition to the normal measured value display on the anemometer, a Beaufort scale is stored. The wind strength level is displayed directly on the Beaufort scale on the anemometer.

Depending on the orientation of the impeller, the environmental meter can also be used to determine the wind direction. This is made possible by the anemometer's built-in gyroscope. At the same time, the current ambient temperature between 0 ... 45 °C / 32 ... 113 °F is displayed on the anemometer. For optimal alignment, the telescopic arm of the anemometer can be extended up to 315 mm / 12.4".

With the integrated data memory of 960 measured values, individual measured values can be saved on the environmental meter at the touch of a button. All measured values can then be transferred to a PC via the micro USB data interface. With the software in the PCE download portal, the values measured by the anemometer can be analyzed and further processed. Live measurement on the PC is also possible with the anemometer and the software.

Specification

Speed	
Measuring range	0,3 ... 45 m/s
Resolution	0.01 m/s
Accuracy	±3 % of Rd ±0.1 m/s
Speed	
Measuring range	60 ... 8800 ft/min
Resolution	0.1 ft/min
Accuracy	±3 % of Rd ±20 ft/min
Speed	
Measuring range	0,6 ... 88 knots
Resolution	0.01 knots
Accuracy	±3 % of Rd ±0.2 knots
Speed	
Measuring range	1 ... 140 km/h
Resolution	0.01 km/h
Accuracy	±3 % of Rd ±0.4 km/h
Speed	
Measuring range	0,7 ... 100 mph
Resolution	0.01 mph
Accuracy	±3 % of Rd ±0.2 mph
Volume flow	
Measuring range	0 ... 999,9 m^3/min
Resolution	0,1 m^3/min
Accuracy	calculated from wind speed and area
Volume flow	
Measuring range	1000 ... 9999 m^3/min
Resolution	1 m^3/min
Volume flow	
Measuring range	10000 ... 99990 m^3/min
Resolution	10 m^3/min
Volume flow	
Measuring range	100000 ... 999900 m^3/min
Resolution	100 m^3/min
Wind direction	
Measuring range	0 ... 360 °
Resolution	1 °
Relative humidity	
Measuring range	10 ... 90 % RH

General technical data	
Measuring functions	HOLD, MAX, MIN, AVG
Display type	LCD with backlight
Display size	3 Inch
Display refresh rate	3 x per second
Storage capacity	960 Values
Interface	Micro-USB
Automatic power-off	5 min
Housing	ABS (acrylonitrile-butadiene-styrene copolymers)
Menu language	English, English (GB)
Protection class (device)	IP20
(Rechargeable) battery	4 x 1,5 V AAA battery , Alkali-manganese
Capacity	1200 mAh
Operating conditions	0 ... 50 °C , 40 ... 80 % RH
Storage conditions	-20 ... 60 °C , 0 ... 80 % RH
Dimensions (L x W x H)	194 x 70 x 38 mm
Weight	220 g

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Resolution	0,1 % RH
Accuracy	±5 % RH
Temperature	
Measuring range	0 ... 45 °C
Resolution	0,1 °C
Accuracy	±1.0 °C
Temperature	
Measuring range	32 ... 113 °F
Resolution	0,18 °F
Accuracy	±1.8 °F
Sensor	
Battery type	Vane
Dimension	Opening: Ø65 mm, length: 270 ... 545 mm, width: 75 mm, height: 36 mm