AIR QUALITY METER

PCE-AQD 6



- **Comprehensive 18-in-1 measurement (climate, gases & particulate matter)**
- **Detailed pollutant and particle recording**
- **24-hour parameter trend curve**
- **Color-coded traffic light system from green to red**
- **Integrated rechargeable battery for flexible mobile use**
- **USB-C port for easy data export**

This versatile air quality meter enables seamless, high-precision monitoring of indoor climate conditions and potential pollutant exposure in interior spaces. The device measures not only classic parameters such as temperature and relative humidity, but also the overall air quality index (AQI) as well as critical gaseous contaminants, including CO2, CO, TVOC, HCHO, and C6H6. In addition, the advanced air quality meter provides differentiated particle measurement, breaking down particulate matter in detail across six different size classes from PM 0.3 to PM 10.

A clear, color-coded display provides quick and intuitive orientation in everyday use. The respective measured values are automatically classified based on the current load: from green for excellent air quality through yellow and orange to red, which signals an acute hazard. This visual warning system makes it possible to respond immediately to poor air conditions and initiate targeted ventilation measures, allowing the air quality meter to be used optimally as a safety monitor.

Thanks to the integrated rechargeable battery, the compact air quality meter can be used flexibly and is not tied to a permanent power source, making spontaneous spot checks easier at changing locations. For further documentation and long-term analysis, the collected measurement data can be easily transferred to a computer in .txt format via the modern USB-C interface.

Specification

CO2	
Measuring range	400 ... 5000 ppm
Resolution	1 ppm
Accuracy	±50 ppm or ±5% of reading
Formaldehyde	
Measuring range	0 ... 1,99 mg/m³
Resolution	0,001 mg/m³
Accuracy	±0.05 mg/m³
Particles	
Measuring channel sizes	0.3, 0.5, 1.0, 2.5, 5.0, 10
Measuring range	0 ... 999 µg/m³
Resolution	1 µg/m³
Accuracy	±10 µg/m³
TVOC	
Measuring range	0 ... 9,99 mg/m³
Resolution	0,001 mg/m³
Accuracy	±0.05 mg/m³
CO	
Measuring range	0 ... 999 ppm
Resolution	1 ppm
Accuracy	±10 ppm
Benzene	
Measuring range	0 ... 1,999 mg/m³
Resolution	0,001 mg/m³
Accuracy	±0.05 mg/m³
Relative humidity	
Measuring range	0 ... 99 %
Resolution	1 %
Accuracy	±5 % of the measured value (of m.v.)
Temperature	
Measuring range	-10 ... +50 °C
Resolution	1 °C
Accuracy	±2°C / 3.6°F

General technical data	
Display Typ	TFT-Color Display
Display size	2,8 Inch
Storage medium	Internal memory
Storage capacity	2 GB
Memory capacity Additional information	Data recording every 5 seconds, one memory file per month, data storage period 1 year
Data transmission	USB-C
Sensor additional information	CO sensor service life: 3-4 years
Housing	Plastic
Alarm	optical, Acoustic
Menu language	English (US), English (GB)
Protection class (device)	IP20
Power supply	5V DC, 1 A
Battery/battery	1 x 3,7 V intern , Lithium-ion battery
Battery capacity	2000 mAh
Performance	7,4 Wh
Operating conditions	-10 ... 50 °C , 10 ... 90 %RH
Storage conditions	-20 ... 55 °C , 10 ... 90 %RH
Dimensions (L x W x H)	90 x 70 x 35 mm
Weight	134 g

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