

AIR QUALITY METER

PCE-AQD 50A-ICA



- » **Battery life of up to 10 months**
- » **Measuring range up to 40,000 ppm CO2**
- » **32 GB data storage**
- » **Temperature and humidity sensor**
- » **.csv file format**
- » **E-paper display with histogram display**
- » **Display of atmospheric pressure**
- » **Good / medium / bad rating**
- » **Alarm limits**
- » **Carbon dioxide and absolute pressure sensor**
- » **incl. ISO-Calibration Certificate**

The air quality meter is specially designed for long-term monitoring of climatic conditions in, for example, offices, classrooms or lecture halls. The air quality meter has various sensors. Among other things, the air quality meter has a carbon dioxide sensor up to 40,000 ppm, a temperature sensor with a measuring range between 0 ... 50 °C, an ambient humidity sensor with a measuring range between 0 ... 100% RH and a barometer with a measuring range between 300 ... 2000 hPa. The air quality meter can therefore be used in many applications due to its large number of sensors. The measured values are shown directly on the e-paper display of the air quality measuring device. A good / medium / bad rating of the carbon dioxide content in the ambient air is also displayed.

During the measurement, the air quality meter can automatically record the measured values. The measured values are saved as .csv on the micro SD card.

Specification

CO ²	
Measurement range up to	0 ... 40000 ppm
Resolution	1 ppm
Accuracy	±(40 ppm +5 % of Rd) @ 400 ... 5000 ppm @ 25 °C / 77 °F
Relative humidity	
Measurement range up to	0 ... 80 % RH
Resolution	0,1 % RH
Accuracy	±1.5 % RH
Relative humidity	
Measurement range up to	80 ... 100 % RH
Resolution	0,1 % RH
Accuracy	±2 % RH
Air pressure	
Measurement range up to	300 ... 1250 hPa
Resolution	0,1 hPa
Accuracy	±50 hPa @ -20 ... 75 °C / 700 ... 1100 hPa
Temperature	
Measurement range up to	0 ... 50 °C
Resolution	0,1 °C
Accuracy	0.15
Temperature	
Measurement range up to	0 ... 20 °C
Resolution	0,1 °C
Accuracy	±0.15 °C
Temperature	
Measurement range up to	20 ... 50 °C
Resolution	0,1 °C
Accuracy	±0.1 °C
Temperature	
Measurement range up to	32 ... 60 °F
Resolution	0,1 °F
Accuracy	±0.15 °F
Temperature	
Measurement range up to	68 ... 122 °F
Resolution	0,1 °F
Accuracy	±0.1 °F

General technical data	
Display type	E-paper
Display size	2,7 Inch
Storage medium	Micro SD card
Storage capacity	32 GB
Interface	USB-C
Operating time	10 Month(s)
Operating time additional information	10 months when measuring intervals are: -temperature: 24 hours -ambient humidity: 24 hours -atmospheric pressure: 24 hours -CO2: 24 hours
Alarm	optical, Acoustic
Menu language	English, Dutch, French, German, Italian, Polish, Spanish, Turkish
Protection class (device)	IP30
Power supply	5 V/1.5 A
Weight	280 g
Operating conditions	0 ... 50 °C , 0 ... 100 % RH
Storage conditions	-20 ... 60 °C , 0 ... 100 % RH
(Rechargeable) battery	1 x 7,4 V 18650 , Lithium-ion battery
Capacity	3400 mAh
Dimensions (L x W x H)	130 x 90 x 40 mm