AIR QUALITY METER

PCE-RCM 02



- **LCD screen 3.5"**
- **WiFi connection**
- **data retrievable via app**
- **wake - up sensor**
- **battery rechargeable via USB-C**
- **compact size**
- **modern design**
- **fine dust measurement (PM 1 / PM2.5 / PM10)**
- **measurement of CO2, formaldehyde, TVOC**
- **adjustable alarm for CO2 and PM2.5**

Our air quality meter is the ideal solution for monitoring air quality in homes, businesses or public buildings. The air quality meter impresses with its modern design and compact size. This makes it versatile and easy to use.

Various measurement parameters such as CO2, formaldehyde and TVOC can be read on the 3.5-inch LC display. In addition, the air quality meter displays room temperature and humidity and measures particulate matter (PM 1 / PM 2.5 / PM 10). The display uses three colours - green, orange and red - to show the user immediately when the values become critical. The air quality meter enables a Wi-Fi connection with other devices and allows the user to make individual settings via the Smart Life app. Thanks to the Smart Life app, the air quality meter can be accessed from anywhere. In addition, the data can be called up as values and displayed as a curve. This data shows the progression of the measurements and can be called up on a daily, weekly or monthly basis. This allows the user to track the development of air quality over a certain period of time.

The air quality meter is also equipped with a wake-up sensor. This wakes up the display from sleep mode when approached or by waving. This function can be deactivated in the app. The brightness of the display cannot be adjusted to increase the battery life. The same data is sent to the smartphone for evaluation. The operating time with a fully charged battery is approx. 4 hours.

Specification

CO^2	
Measuring range	400 ... 5000 ppm
Resolution	1 ppm
Accuracy	±(50 ppm +5 % of Rd)
Formaldehyde	
Measuring range	0 ... 1,999 mg/m³
Resolution	0,001 mg/m³
Accuracy	±15 % of Rd
Particle	
Measuring channel sizes	PM1, PM2,5, PM10
Measuring range	0 ... 1000 µg/m³
Resolution	1 µg/m³
Accuracy	±10 µg/m³ (0 ... 100 µg/m³) ±10 % of Rd (0 ... 500 µg/m³)
TVOC	
Measuring range	0 ... 9,999 mg/m³
Resolution	0,001 mg/m³
Accuracy	±15 % of Rd
Relative humidity	
Measuring range	0 ... 99 % RH
Resolution	1 % RH
Accuracy	±5 % RH
Temperature	
Measuring range	0 ... 50 °C
Resolution	1 °C
Accuracy	±1 °C

General technical data	
Display type	LCD
Display size	3,5 Inch
Interface	USB-C
Alarm	optical, Acoustic
Sensors	NDIR, Semiconductor TVOC, Laser scattered light
Menu language	German, English
Protection class (device)	IP20
Power supply	5 V DC, 2 A
Capacity	800 mAh
Operating conditions	0 ... 50 °C , 0 ... 99 % RH
Storage conditions	0 ... 50 °C , 0 ... 99 % RH
Dimensions (L x W x H)	85 x 70 x 35 mm
Weight	107 g