PARTICLE MASS CONCENTRATION DETECTOR

PCE-RCM 11



- **measurement of formaldehyde**
- **indication of the room temperature and humidity**
- **particulate matter measurement (PM2,5 / PM1)**
- **changing display of the measured values**
- **memory for up to 5 measuring groups**
- **date and time display**
- **USB interface**
- **3 "large TFT-LCD display**
- **safe and easy handling**

Air Quality Meter / Particle Counter
The air quality monitor serves the indicative examination of environmental parameters. The air quality monitor enables the measurement of fine dust, temperature and relative humidity. The bright display of the air quality monitor provides information about the already mentioned parameters. Environmental monitoring can be done continuously with the Air Quality Monitor for up to five hours without the device being connected to a power source.

For permanent measurement, the air quality monitor can be connected to the mains via a USB interface. The rechargeable battery will be recharged within two hours if the air quality monitor is turned off. The display of the concentrations is further simplified by the use of a color rating scale, as this directly provides information about the air quality to the user.

In addition to the indicative measurement of formaldehyde, which can be harmful to health, there is also an orienting measurement of particulate matter pollution to be carried out. A distinction is made between particles with a maximum diameter of up to 10 µm (PM10) and particles up to a diameter of 2.5 µm (PM2.5).
Health problems with paints, furniture and adhesives
Eye irritation, headache or concentration problems: paints, furniture and adhesives can outgas the pollutants that affect the health. Therefore, the quality of the room air should be continuously monitored.

Specification

Formaldehyde	
Measuring range	0 ... 5 mg/m³
Resolution	0,01 mg/m³
Accuracy	±5 % of range
Particles	
Measuring channel sizes	PM2,5, PM10
Measuring range	2,5 ... 10 µm
Resolution	1 Particles
Accuracy	10 %
Particles	
Measuring range	0 ... 2000 µm
Resolution	1 µg/m³
Accuracy	10 %
Measuring channel sizes	PM2,5, PM10
TVOC	
Measuring range	0 ... 9,99 mg/m³
Resolution	0,01 mg/m³
Accuracy	±5 % of range
Relative humidity	
Measuring range	0 ... 20 %RH
Resolution	0,1 %RH
Accuracy	±5 % RH
Relative humidity	
Measuring range	20 ... 80 %RH
Resolution	0,1 %RH
Accuracy	±3.5 % RH
Temperature	
Measuring range	-20 ... +70 °C
Resolution	0,1 °C
Accuracy	±2 °C

General technical data	
Display Typ	TFT-Color Display
Display size	3 Inch
Display resolution	240 x 400 pixels
Storage medium	Internal memory
Storage capacity	5000 Data records
Interface	Micro-USB
Operating time	5 h
Automatic shutdown adjustable	10 ... 120 min.
Menu language	English (US), Chinese
Power supply	Battery: 3.7V USB: 5V
Connector type	Device Europlug
Battery capacity	2400 mAh
Operating conditions	0 ... 50 °C , 10 ... 90 %RH
Storage conditions	-10 ... 60 °C , 10 ... 90 %RH
Dimensions (L x W x H)	155 x 85 x 75 mm
Weight	360 g