



ADK INSTRUMENTS
Where Technology Exists

AIR QUALITY





ADK INSTRUMENTS
Where Technology Exists

Setting Standards, Today And Tomorrow



We set new principles in client experience and aim to create future-ready products. We take great pride in our products, that reek of quality, and our industry-best personalized services.



We, at ADK Instruments, work on the most important things that an industrial enterprise needs, which include Industrial Measurement Tools. Our tools are designed with utmost precision, and are tested under rigorous conditions, in order to provide a one-stop, fuss-free solution to all our dear patrons.



All our products are meticulously crafted and manufactured, and that personal touch ensures that you never have to worry about the instrumental needs in your work domain.

ALL CATEGORIES



Air quality



Water Quality



Measuring Devices



Hydrology



Meteorology



Waste Water



Oceanography



Rugged Systems



Constructional Tools



Modems/Routers



Laboratory Technology



Personal Tracking

HIGH VALUES

Our Success is not only due to the quality of our work. It's down to attitude, our approach and the way we treat our clients.

Focus

We Have A 100% Commitment To Making All Our Sites The Best They Can Possible Be, No Matter What It Takes To Get There.

Passion

Our Desire To Produce Good Work Runs Deep- That's What Lets Us Handle Every Project With Fresh Energy And Enthusiasm.

Empathy

Our Desire To Produce Good Work Runs Deep- That's What Lets Us Handle Every Project With Fresh Energy And Enthusiasm.



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AIR QUALITY METER GASMAN-O2 "OXYGEN"



Description

This Air Quality Meter is a unique gas meter which protects against a specific gas, inflammable or toxic. The Air Quality Meter Gasman warns with a penetrating alarm and an optical signal (useful when there are loud noises in the surrounding area) of the existence of dangerous gas concentrations and shows on screen the value of the gas measurement. In addition with this gas meter you are able to save measurements and transmit them onto the computer for evaluation. For that, it is necessary to require the additional option of data logger and optional software. The function of logger will allow you to keep all the values in the meter with a quota of measurement from 1 minute to a total of 900 hours.

Specification\Parameter/Gas	Symbol	Range	Alarm
Inflammable gas	CH4	0 ... 100%	20% LEL
Oxygen	O2	0 ... 25% v/v	19% and 23% v/v
Hydrogen sulfide	Symbol	Range	Alarm
Inflammable gas	H2S	0 ... 100 ppm	5 ppm
Carbon dioxide	CO2	0 ... 5 % v/v	0.5 and 1.5% v/v
Carbon monoxide	CO	0 ... 500 ppm	30 ppm
Sulfur dioxide	SO2	0 ... 20 ppm	1 ppm
Chlorine *	CL2	0 ... 5 ppm	0.5 ppm
Sulfur dioxide	SO2	0 ... 20 ppm	1 ppm
Nitrogen dioxide*	NO2	0 ... 10 ppm	1 ppm
Sensors	Response time (T90)	Life	
Methane	20 s	5 years	
Toxic	20 s	3 years	
Oxygen	10 s	minimum 1 year	
Acoustic alarms	85 dB (a) to 1 m of distance (adjustable tone) Tone of regular control that can be disconnected Prolonged tone in case of low battery in the gas me		
Display	LCD with backlight		
Weight	max. 130 g / 0.29 lbs (battery included)		

GASES IN AIR

Related Divides



FORMALDEHYDE METER

PCE-HFX 100



Description

Formaldehyde (HCHO) is thought to be a carcinogen and is nevertheless found in many products such as furniture, clothing and toys. In addition, HCHO is used in the areas such as cosmetics, textile finishing, polymer production, disinfection, adhesives, binders, fertilizers or preservatives. In the case of all of these substances HCHO can outgas in the later use, which can lead to contamination of the ambient air.

The gas has a toxic effect, it evaporates only slowly and in such a way pollutes the air sustainably and for a longer term. Since 2015, HCHO has been classified as a likely carcinogen for the humans (Category 1B according to the CLP Regulation). With the HCHO measuring device, PCE Instruments has a measuring device in the program that can quickly, conveniently and precisely check the formaldehyde content in the room air. At the same time, the HCHO meter records temperature and humidity and also displays the date and time.

Specification

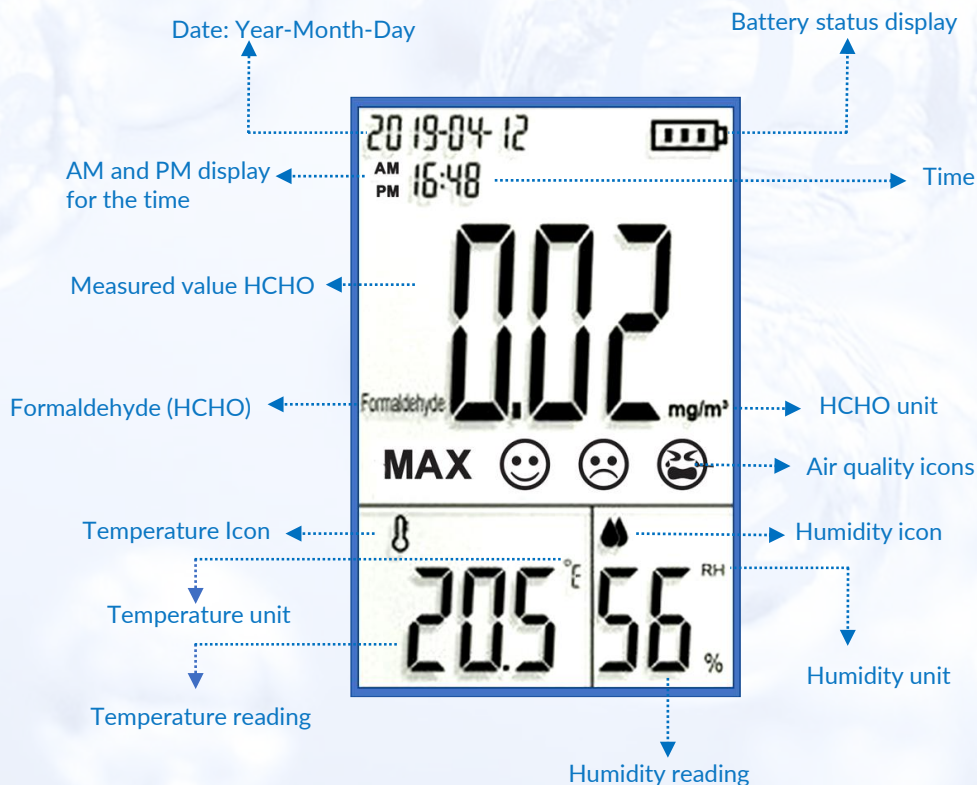
Measuring Function Formaldehyde HCHO		Measuring Function Temperature	
Measuring range	0 ... 2 mg/m ³	Measuring range	-10 ... 50 °C / 14 ...122 °F
Resolution	0.01 mg/m ³	Resolution	0.1 °C / 0.18 °F
Accuracy	<0.6 mg/m ³ : ±0.06 mg/m ³	Accuracy	± 1 °C / 1.8 °F
Measuring range	0 ... 2 mg/m ³	Measuring range	-10 ... 50 °C / 14 ...122 °F
Measuring Function Humidity			
Measuring range	0 ... 99% r.H.		
Resolution	1% r.H.		
Accuracy	30 ... 80% r.H.: ± 5% r.H.		
Display	LCD with lighting		
Power supply	3.7V Li-Ion battery		
Weight	195 g / < 1 lb		
Dimensions	75 x 55 x 130 mm / 2.9 x 2.1 x 5.1 in		



Limit Value Table

Concentration	Icon	Comment
0 ... 0.1 mg/m ³		Safe environment
0.1 ... 0.3 mg/m		Increased formaldehyde concentration present. It is recommended to let fresh air enter the room.
0.3 ... 2.0		Poor air quality. Provide fresh air

Display Description



AIR QUALITY PARTICLE COUNTING METER PCE-RCM 10

Description

PCE-RCM 10 is a portable handheld air quality particle counting meter or particle counter used to monitor particulate matter (PM) concentrations in the air. Designed to aid in indoor air quality (IAQ) assessments, this particle counter also measures air temperature and relative humidity (RH). The particle counter can be powered either by the built-in rechargeable battery or the USB port. The USB port also is used to charge the battery. At full charge, the battery provides up to 5 hours of continuous operation or unlimited operation when plugged into a USB power source. The particle counter displays all measurements simultaneously on the device's 2.4" full-color LCD screen. PM values appear the largest in the colors green, yellow, gold, orange, pink and red. This visual color-coding system makes it easy to recognize when PM concentration levels become dangerous, allowing for quick action.

When inhaled, PM 2.5 and PM 10 particles can settle deep into the lungs and result in damaging health effects. Since the PCE-RCM 10 particle counter monitors PM 2.5 and PM 10 particles, the device has many practical health and safety applications. Heating, ventilation and air conditioning (HVAC) technicians use PM 2.5 and PM 10 particle counters for HVAC system performance and filtration audits. In addition, industrial hygienists and workplace safety professionals rely on PM 2.5 and PM 10 particle counters when evaluating occupational health and safety risks related to hazardous and combustible dust.



Characteristics

- Easy to carry
- 240*320 pixels
- Auto Power Off
- Air temperature and humidity
- 2.4 inch TFT colour LCD display
- Detecting the particulate matter PM2.5/PM10



General Device Specifications	
Display	2.4" full-color LCD
Display resolution	240 x 320 pixels
Power supply	Built-in 1000 mAh rechargeable battery or 5 V USB port
Battery life	Up to 5 hours of continuous use at full charge
Charging time	Up to 2 hours with device power off
Charging interface	USB port
Operating conditions	0 ... +50 °C / +32 ... +122 °F
Storage conditions	-10 ... +60 °C / +14 ... +140 °F
Display resolution	240 x 320 pixels
Particle Specifications	
Particulate matter channels	PM 2.5 / PM 10
Particle sizes (in micrometers)	2.5 µm, 10 µm
Particle concentrations	0 ... 2000 µg / m ³
Resolution	1 µg / m ³
Temperature Specifications	
Temp. measuring range	-20 ... +70 °C / -4 ... +158 °F
Accuracy	± 1 °C
Resolution	0.1 °C
Temp. measuring range	-20 ... +70 °C / -4 ... +158 °F
Relative Humidity (RH) Specifications	
Humidity measuring range	0 ... 100 % RH
Accuracy	± 3.5 % RH (20 ... 80 % RH) ± 5 % RH (0 ... 20 % RH / 80 ... 100 % RH)
Resolution	0.1 % RH
Humidity measuring range	0 ... 100 % RH



AIR QUALITY PARTICLE COUNTING METER PCE-PCO 2

Description

PCE-PCO 2 Air Quality Particle Counting Meter

Portable handheld device for monitoring particulate matter (PM) concentrations in the air / 0.3 μm , 0.5 μm , 1.0 μm , 2.5 μm , 5.0 μm and 10 μm particle sizes, Measures air temperature, dew point and relative humidity.

The particle counter is ideal for monitoring clean rooms, exposure to exhaust, smoke and other harmful air pollutants, and levels of airborne combustible dust such as agricultural dust, carbonaceous dust, chemical dust, metal dust, plastic dust and wood dust.

This is a portable handheld particle counter used to monitor particulate matter (PM) concentrations in the air. Designed to aid in indoor air quality (IAQ) assessments, this particle counter also measures formaldehyde air temperature, dew point and relative humidity.



Characteristics

- Captures 6 particle sizes
- 2.8" TFT full-color LCD screen
- Power-saving automatic shutdown feature
- Built-in camera for image and video recording
- Free software download on PCE Software web page
- Measures air temperature, dew point and relative humidity
- PM channels: PM 2.5, PM 10, including mass concentration mode ($\mu\text{g}/\text{m}^3$)
- Cumulative, differential and concentration particle counting modes
- Stores up to 5,000 data sets to memory

Specifications

Particle specifications		Particle counter specifications	
Particulate matter concentrations	PM 2.5 / PM 10 0 ... 2000 $\mu\text{g} / \text{m}^3$	Particle sizes (in micrometers)	0.3 / 0.5 / 1.0 / 2.5 / 5.0 and 10 μm
Resolution	1 $\mu\text{g} / \text{m}^3$	Flow rate	2.83 l / min
Temp. and humidity measurement specifications		Coincidence error	< 5 % at 2,000,000 particles per cubic foot
Air temp. measuring range	0 ... +50 °C / +32 ... +122 °F	Counting efficiency	50 % at 0.3 μm ; min 100 % with particle size > 0.45 μm
Dew point temp. measuring range	0 ... +50 °C / +32 ... +122 °F	Memory capacity	Stores up to 5,000 data sets
Humidity measuring range	0 ... 100 % RH	Counting modes	Cumulative, differential, concentration
Air temp. accuracy	+10 ... +40 °C / +50 ... +104 °F: $\pm 0.5^\circ$	General device specifications	
Dew point temp. accuracy	0 ... +10 °C / +32 ... +50 °F: $\pm 1^\circ$	Operating conditions	0 ... +50 °C / +32 ... +122 °F, 10 ... 90 % RH,
		Storage conditions	10 ... +60 °C / +14 ... +140 °F, 10 ... 90 % RH,
		Display	2.8", 320 x 240 pixel,
		Power supply	P1 x rechargeable battery
		Memory capacity	Stores up to 5,000 data sets
		Battery life	Approx. 4 hours of continuous operation at full charge
		Battery	recharge time Approx. 2 hours



System Description

1. Display
2. Function buttons
3. Arrow up
4. Enter
5. Start / Stop button
6. ESC button
7. Arrow down
8. On / Off button
9. Particle sensor
10. Temp. / RH sensor
11. Camera sensor
12. USB Interface
13. AC / DC connection
14. Battery compartment

COMMON PARTICULATE MATTER (PM) SIZES

PM₁₀

All particles with aerodynamic diameter < 10 micrometre

Most commonly measured size fraction

PM_{2.5}

All particles with aerodynamic diameter < 2.5 micrometre

Size fraction linked to various health impacts

PM₁

All particles with aerodynamic diameter < 1 micrometre

New research linked to health impacts

PM contains microscopic solids or liquid droplets that are so small that they can be inhaled and cause serious health problems. Some particles less than 10 micrometres (microns) in diameter can get deep into your lungs and some may even get into your bloodstream. Of these, particles less than 2.5 micrometre in diameter, also known as fine particles or PM_{2.5}, pose the greatest risk to health.

$$1 \text{ micrometre} = 1 \mu\text{m} = 10^{-6} \text{ m}$$



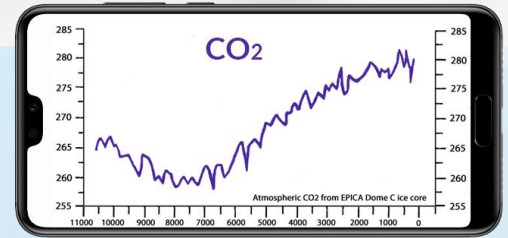
SOURCE: USEPA

WIRELESS CARBON MONOXIDE (CO) LOGGER - BLUETOOTH LOW ENERGY

Description

Wireless carbon monoxide (CO) logger measures and transmit gas concentration over Bluetooth Low Energy. On top of the concentration of CO (in ppm) in the air, the sensor also measures temperature and humidity. You can use a free mobile application to configure the device and read the data from its memory. If you add Efento Gateway, you can build a remote monitoring system for objects which need supervision such as smart cities, public buildings, workshops, assembly halls, industrial companies, etc.

- Temperature: -35 to +70°C, accuracy: up to 0.4°C in the range from -20°C to +70°C and up to 0.5°C in the range - 35 to -20°C
- Humidity: 0 to 100% RH, accuracy 4% in the range of 0 to 80% and 7% in the range of 81 to 99%
- Measurement period: 1 minute - 10 days (configurable by the user)
- The device stores 40,000 measurements in its memory, when the memory is full, the oldest measurements are overwritten
- Battery ensures up to 5 years of maintenance-free operation
- Add Efento Gateway and Efento Cloud to build a real time monitoring system. The maximum distance between the sensor and the Gateway is 100 m in the open space and 20 - 30 m in the buildings
- Use a free mobile application to configure the logger, read the data from its memory, generate reports and set alert thresholds.



Related Products



Wireless carbon dioxide (CO₂) logger



Wireless nitrogen dioxide (NO₂) logger - Bluetooth low energy



Wireless hydrogen sulfide (H₂S) logger - Bluetooth low energy

Specification \ GAS SENSOR

Range	0 - 450 ppm
Accuracy	At -20°C (% output at -20°C/output at 20°C) at 5ppm CO 50 to 85, at: 50°C (% output at 50°C/output at 20°C) at 5ppm CO 110 to 125
Measurement interval	1 minute to 10 days, configurable
Memory size	60 000 measurements

TEMPERATURE SENSOR

Range	-35° to 70°C
Accuracy	up to 0.25°C in the -20°C to +70°C
Resolution	0.1°C
Drift	<0.1°C / year
Measurement interval	1 minute to 10 days, configurable

RADIO MODULE

Communication: Bluetooth Low Energy (BLE)	Communication: Bluetooth Low Energy (BLE)
Radio frequency	2,4 GHz
Power	2,5 mW (4 dBm)
Transmission frequency	1 s

BATTERY

Battery	3,6 V, size AA, capacity 2 700 mAh (replaceable)
Dimensions	27 x 71 x 71 mm
Weight	80 g

AIR QUALITY METER PCE-PQC 20EU INCL. TEMPERATURE AND HUMIDITY SENSOR

Description

CE-PQC 2xEU series air particle counters are portable detection systems that include particles of specific sizes in the air. Furthermore, the air temperature and the relative humidity are monitored. The fixed flow rate of 2.83 l / min complies with current standards for air particle counter ISO 21501-4 and JIS B9921. Due to the compact design, the air particle counter of the PCE-PQC 2xEU series can be used in a variety of ways.

These include the monitoring and inspection of clean rooms, filter systems in operating theaters and bottling plants in the pharmaceutical industry.

The internal memory of the air particle counter is sufficiently large for up to 45000 data sets. These data sets each include the metering parameters, temperature and humidity sensor readings, locations, and timestamp.



Characteristics

- Flow rate 2.83 l / min
- 4.3" color touch display
- Captures 6 particle sizes
- Including software package
- Ethernet and USB interfaces
- Installed in a stainless steel housing
- Incl. temperature and humidity sensor



Specifications	Description
Measuring range	0.3 ... 25 µm
Measuring channel sizes	Factory calibrated at 0.3, 0.5, 1.0, 3.0, 5.0, 10.0 µm
Counting efficiency	50% at 0.3 µm, 100% at > 0.45 µm according to JIS
Flow	2.83 l / min (0.1 ft ³ / min)
Random loss	5% at 4,000,000 particles / ft ³
Battery	>8 h
Light source	Long-life laser diode
Counting modes	Automatic, manual, real-time, cumulative
Alarms	1 ... 9999999 counts, adjustable
Calibration	Traceable to NIST
Display	4.3" WQVGA color touch display, 480x272 px
Printer	External thermal printer
Aspiration	Internal pump with automatic
Air outlet	Internal HEPA filter
Battery pack	Replaceable Li-Ion battery
Charging time	About 4 hours
Reports	ISO 14644-1
Configuration	Memory for 50 custom configurations
Standards	ISO 21501-4 and JIS B9921
Dimensions	13.3 x 10.5 x 21 cm
Weight	1.8 kg
Storage	45000 data sets (ring memory)
ample locations	up to 1000 places can be stored
Sample duration	1 s ... 99 h adjustable
Power supply	110 ... 240V AC 50/60 Hz
Operating conditions	5 ... 40°C / 41 ... 104°F
Temp. / Humidity sensor intern	0 ... 50°C (32 ... 122°F), 15 ... 90% rh
Resolution	0.5°C / ± 0.9°F
Accuracy	± 0.5°C / ± 0.9°F, ± 2% RH
Interface	Ethernet, USB
Optional interfaces	Wifi 802.11 b / g, RS485 or RS232

Included Accessories

Description	Part Number	Images	Description	Part Number	Images
Temperature / RH Probe 32-122°F (0-60°C) ±1°F (0.5°C), 15 - 90% ±2%	EE-80014A		Wireless 802.11 b/g Output with Internal Antenna	EE-80092	
Isoprene Barbed 0.1 CFM (2.83 LPM) Stainless Steel	PS-12022		External Thermal Printer with 2 rolls of paper	AS-99011	

Product Views



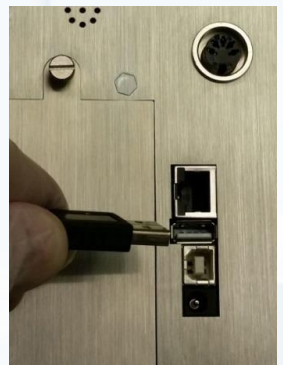
Connecting Ethernet Cable



Connecting USB - B Client



Connecting USB - A Host



Related Divides



**Air Quality Meter PCE-PQC
30EU Measuring Range - 0.3
to 25 μ m**



**Air Quality Meter PCE-PQC
32EU Incl. Data logger
function, Measurement range
- 0.3 to 25 μ m**



**Air Quality Meter PCE-PQC
22EU Incl. CO2 sensor,
Temperature and humidity
measurement**



**Air Quality Meter PCE-PQC
23EU Incl. CO2 sensor, PID
sensor & Temperature and
humidity measurement**



**Air Quality Meter PCE-PQC
31EU Measuring Range - 0.5
to 25 μ m**



**Air Quality Meter PCE-PQC
32EU Incl. Data logger
function, Measurement range
- 0.3 to 25 μ m**



**Air Quality Meter PCE-PQC
33EU Incl. Data logger
function, Measurement range
- 0.5 to 25 μ m**



**Air Quality Meter PCE-PQC
34EU Incl. CO2 Sensor & PID
Sensor (Optional)**



**Air Quality Meter PCE-PQC
35EU Incl. CO2 Sensor & PID
Sensor**

AIR QUALITY METER W/ CALIBRATION CERTIFICATE PCE-HT110-ICA WITH 2 CHANNEL RECORDER

Description

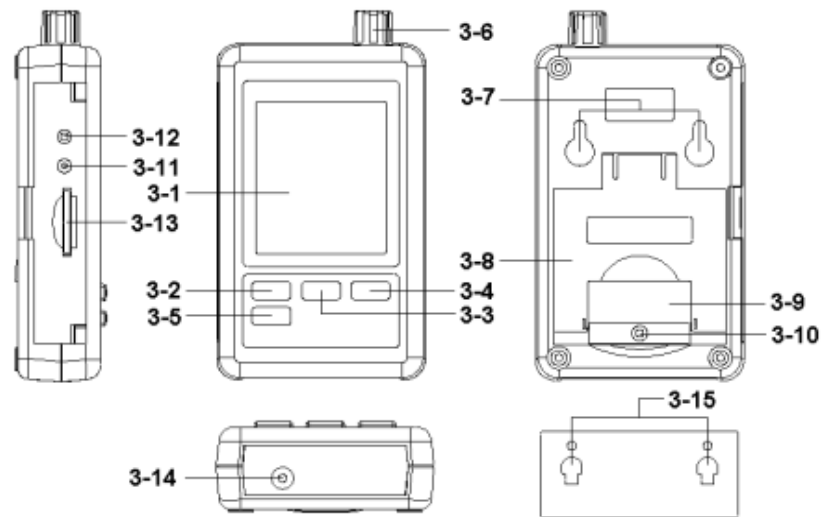
The PCE-HT110-ICA Air Quality Meter or Humidity Detector precisely measures air temperature and relative humidity. This accurate and reliable device shows the current measurements on the large LCD display and saves the measurement data directly to an SD card (included). The PCE-HT110-ICA is equipped with two channels, accommodates an SD card memory of up to 16 GB, offers an adjustable measurement rate / sampling interval, and includes a wall mount, making the device ideal for logging data over an extended period of time.

The PCE-HT110-ICA Air Quality Meter can be used to monitor climate-controlled environments such as supermarket refrigerators, refrigerated / reefer trucks and cold storage units. It is also useful for monitoring home HVAC systems, wood floor installations, cigar humidors, industrial heating and cooling processes, machine operating temperatures and product storage / warehouse conditions.



Front Panel Description

- 3-1 Display
- 3-2 Logger button, Enter button
- 3-3 ▲ button, Time button
- 3-4 ▼ button
- 3-5 SET button
- 3-6 Humidity/Temp. sensor
- 3-7 Hanging holes
- 3-8 Stand
- 3-9 Battery cover/Battery compartment
- 3-10 Screw of the battery cover
- 3-11 Reset button
- 3-12 RS-232 output terminal
- 3-13 SD card socket
- 3-14 DC 9V power adapter input socket
- 3-15 Hanging unit (with sticker)



Specifications	Description
Measurement ranges	0 ... 50°C / 32 ... 122°F, 10 ... 90% r.H.
Accuracy	± 0.8°C / ± 1.4°F ± 4% r.H.
Resolution	0.1°C / 0.18°F, 0.1% r.H.
Memory	SD card 1 ... 16 GB (2 GB SD card in delivery)
Date and time	Programmable
Power supply	6 x 1.5V batteries (AAA) / 9V power adapter (optional)
Operating conditions	0 ... 50°C / 32 ... 122°F, 0 ... 90% r.H.
Dimensions	132 x 80 x 32 mm / 5.2 x 3.1 x 1.3 in
Weight	282 g / < 1 lb

AIR QUALITY CARBON DIOXIDE METER

PCE-WMM 100-ICA INCL. ISO CALIBRATION CERT

Description

Air Quality Carbon Dioxide Meter PCE-WMM 100-ICA incl. ISO Calibration Certificate CO₂ warning device for carbon dioxide and oxygen / Adjustable alarms / 4-digit LC display / Consisting of main and remote unit / Relay contacts / Analog output

The CO₂ warning device PCE-WMM 100 consists of a main unit and a remote display. The CO₂ gas detector PCE-WMM 100 is used to measure carbon dioxide and oxygen in a fixed location. The CO₂ warning device protects people from the odorless gas CO₂ and also warns of low oxygen content in the air. The gas warning system displays the measured values on an LCD. The PCE-WMM 100 CO₂ warning device has two relays that can be used to control alarm lights or sounders. Furthermore, the CO₂ warning device has an integrated, acoustic alarm, which emits an audio signal of 80 db in the event of an alarm. The warning device is used wherever CO₂ can be released.



Specifications

Measuring function		CO ₂	
Measuring range		0 ... 50000 ppm	
Resolution		<10000 ppm: 10 ppm	
Accuracy		± 100 ppm / 5 % of measured value	
Measuring function		O ₂	
Measuring range		O ₂ : 0 ... 30 %	
Resolution		0.1 %	
Accuracy		< 3 % of measured value	
Measuring function	Temperature	Measuring function	Temperature
Measuring range	0 ... 50 °C / 32 ... 122 °F	Alarm 1	CO ₂ : 5000 ppm, 1 %, 1.5 %, 2 %
Resolution	0.1 °C	Alarm sound volume	80 db / 0.1 m
Accuracy	± 1 °C	Heating time	< 60 s at 22 °C ambient temperature
Repeatability	CO ₂ : ±20 ppm at 400 ppm	analog output	2 x 4 ... 20 mA
Pressure dependence	0.13 % of measured value / mmHg	Load	<150 Ohm
Response time	CO ₂ : T ₉₀ < 60s	Relay	max. 2 A / 30 V DC / 250 V AC
Dimensions	Main unit: 170 x 63 x 26 mm / 6.6 x 2.4 x 1.0"	Storage conditions	-20 ... 60 °C / -4 ... 140 °F / max. 95 % r.H.
Weight	Main unit: 1200 g incl cable	Degree of protection	Main unit: IP54

AIR QUALITY METER PCE-CMM 5-ICA INCL. CO2 ANALYZER, TEMPERATURE AND HUMIDITY



Description

The CO2 Analyzer is a CO2 measuring device for desktop use. The carbon dioxide meter measures the CO2 content in the air and shows the measured value on a large LC display.

The CO2 content in the air is an important measure for checking the ventilation behavior in offices, classrooms, lecture halls, etc. The CO2 / carbon dioxide measuring device helps to ensure that, for example, there is regular ventilation for employees in the office. The CO2 / carbon dioxide measuring device checks indoor air quality via the CO2 content. If the CO2 concentration is below 1000 ppm, the indoor air quality is optimal. Good indoor air quality helps to promote concentration. It is also ensured that the aerosol concentration in the air is low, as the aerosols are repeatedly mixed with fresh air.

The CO2 / carbon dioxide measuring device shows the air quality as a numerical measured value and as a traffic light indicator. At the push of a button, the CO2 content of the last five hours can be shown on the display.

The CO2 / carbon dioxide measuring device shows the air quality as a numerical measured value and as a traffic light indicator. At the push of a button, the CO2 content of the last five hours can be shown on the display. In addition to the CO2 measuring function, the CO2 / carbon dioxide measuring device is equipped with a sensor for temperature and humidity. The sensors for monitoring the air quality are subject to different requirements than those in industrial or scientific laboratory use.

Specification \ Measured variable CO2	Description
Measuring range	400 ... 5000 ppm
Accuracy	± 75ppm or ±5% of measured value
Resolution	1ppm
Sensor type CO2	NDIR Sensor
Measured variable temperature	
Measuring range	-10 ... 50°C / 14 ... 122°F
Accuracy	±1°C / 1.8°F
Resolution	1°C / 1.8°F
Measured variable air humidity	
Measuring range	20 ... 95% r.H.
Accuracy	±4% r.H.
Resolution	1% r.H.
Sampling rate	1.5 s
Display	4.3" LCD Display
Battery life	ca. 6 h
Charging time	ca. 2 h
Ambient conditions	-10 ... 50°C / 14 ... 122°F, 20 ... 85% r.H.
Dimensions	145 x 78 x 97.2 mm / 5.7 x 3.1 x 3.8 in
Weight	210 g / < 1 lb

AIR QUALITY METER PCE-CMM 10

CO2 METER

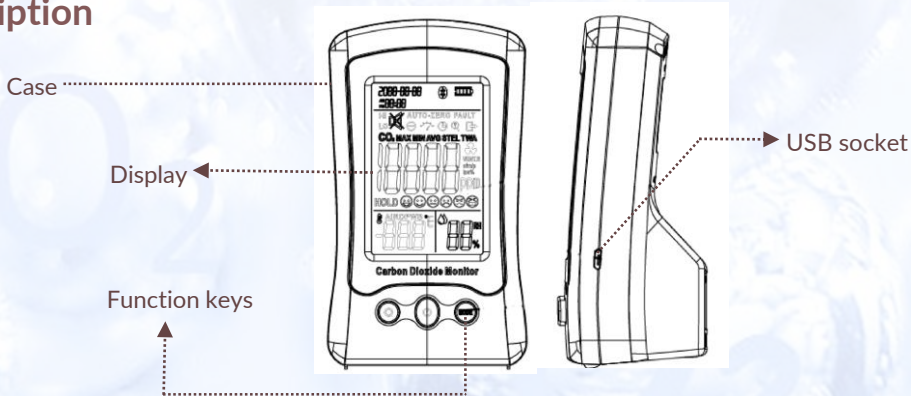


Description

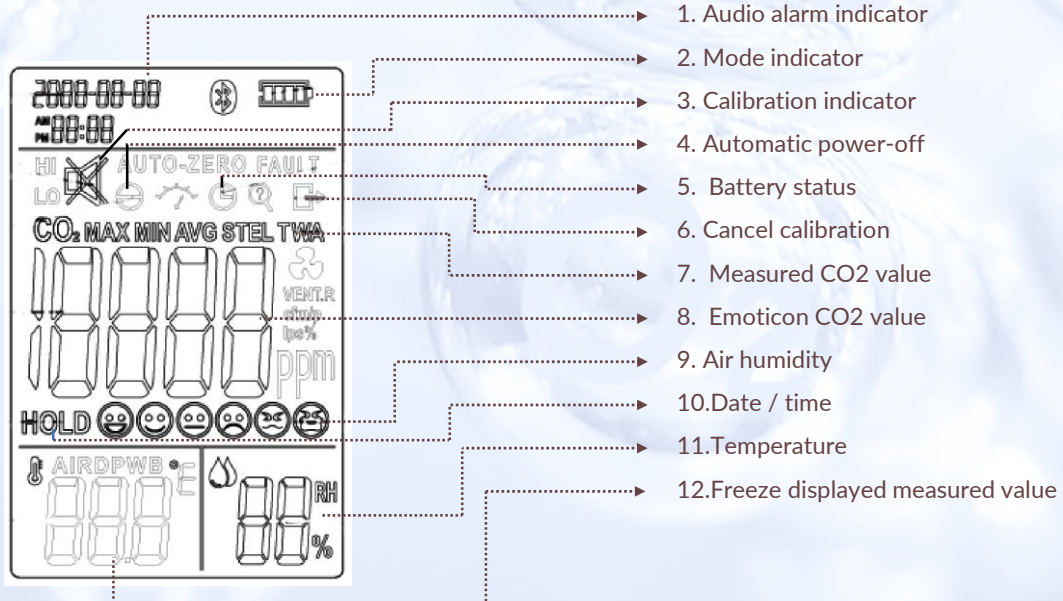
CO2 meter / Battery operation / Alarm limits / 400 ... 5000 ppm / Temperature measurement / Visual and acoustic alarm / Automatic switch-off / USB charging / Units can be changed / LC display / Temperature range -10 ... 50°C (4 ... 122°F)

The CO2 measuring device PCE-CMM 10 is a multi-function measuring device for measuring the air quality. This CO2 meter measures synchronously the CO2 concentration, the air temperature and the humidity. In addition, the CO2 meter has permanently programmed alarm limits. As soon as the currently measured CO2 measured value exceeds the alarm limit, the alarm is activated. The user is alerted to the CO2 meter by an audible and visual signal. Using the built-in USB interface, you can continuously charge the CO2 meter to your PC workstation, for example. Thanks to the small blue shape, you can optimally position the CO2 meter at your workplace.

System Description



Display



Specification	Description
Measuring range CO2	400 ... 5000 ppm
Resolution	1 ppm
Accuracy	± (5% + 50 ppm) between 400 ... 2000 ppm
Measuring range temperature	-10.0 ... 50.0°C / 14 ... 122°F
Resolution	0.1°C / 0.18°F
Accuracy	± 1°C / 1.8°F
Measuring range humidity	0 ... 99% rh
Resolution	1% rh
Accuracy	± (5% at 25°C / 77°F) between 10 ... 90% r
Sensor	NDIR principle
ABC	Automatic baseline correction
Audio alarm	Buzzer
Visual alarm	Red backlight
Display	3 inch LC display
battery indicator	Four-level display
display frequency	3 seconds
Automatic shutdown	turns itself off after 2 hours
Backlight	White backlight
Working conditions	0 ... 50°C / 32 ... 122°F, 0 ... 85% rh
Storage conditions	-20 ... 60°C / -4 ... 140°F, 0 ... 95% rh
Power supply	Built-in 3.7V DC battery
Weight	195 g / < 1 lb
Dimensions	75 x 55 x 130 mm / 3 x 2.2 x 5.1 in



AIR QUALITY METER PCE-RCM 05 DUST MONITOR FOR PM2.5, TEMPERATURE AND HUMIDITY MEASUREMENT

Description

The PM2.5 particulate matter monitor PCE-RCM 05 is used to continuously measure the particulate matter content at the workplace. The PCE-RCM 05 PM2.5 monitor displays PM2.5 particulate matter as well as temperature and humidity on the display. The measuring range of the PCE-RCM 05 monitor ranges from 0 ... 500 $\mu\text{g} / \text{m}^3$ PM2.5. This makes the PM2.5 meter an optimal test instrument to constantly have an overview of the fine dust content. Below the large measured value display of the PM2.5 content, the PM2.5 monitor provides quick information about the air quality with the aid of pictograms.



Characteristics

- Beep
- Humidity
- Backlight
- Table housing
- Limit Exceeded
- Air temperature
- Battery operation
- CO2 measurement

Specification	Description
Measuring range PM2.5	0 ... 500 $\mu\text{g} / \text{m}^3$
Resolution	1 $\mu\text{g} / \text{m}^3$
Accuracy	<100 $\mu\text{g} / \text{m}^3$: $\pm (10 \mu\text{g} / \text{m}^3 + 10 \text{ digits})$
Measuring range temperature	-10 ... 50°C / 14 ... 122°F
Resolution	0.1°C / 0.18°F
Accuracy	$\pm 1^\circ\text{C} / 1.8^\circ\text{F}$
Measuring range humidity	0 ... 99% rh
Resolution	1% rh
Accuracy	30 ... 80% RH: $\pm 5\% \text{ RH}$
Display	LC display
Backlight	White (standard)
Battery indicator	Four-level display
Automatic shutdown	After 2 h
Power supply	3.7V Li-ion battery
Operating conditions	0 ... 50°C / 32 ... 122°F, 0 ... 85% rh
Storage conditions	-20 ... 60°C / -4 ... 140°F, 0 ... 95% rh
Weight	195 g / < 1 lb
Dimensions	75 x 55 x 130 mm / 3 x 2.2 x 5 in

AIR QUALITY METER PCE-RCM 11

DETERMINATION OF HCHO, FINE DUST (PM2.5 / PM10)



Description

The air quality meter from PCE Instruments is a true all-rounder when it comes to indoor air quality assessment. The air quality measuring device quickly and accurately determines several environmental parameters that are of a crucial importance for health and well-being. The air quality measuring device enables effective and uncomplicated measurement of volatile organic compounds (TVOC), fine dust (PM2.5 / PM10), temperature, formaldehyde (HCHO) and relative humidity. The display also has a date display with time specification.

The room air contaminated by volatile organic compounds can, among other things, lead to headaches, tiredness or respiratory irritation. According to one study, people in Europe spend about 90% of their time indoors. In such case, between 10 and 20 cubic meters of air per person are inhaled, which corresponds to an air mass of 12 to 24 kg, considerably more than a daily consumption of food and liquid. Air quality is therefore a very important factor in terms of health and well-being.

Air Quality Monitor Application

Good indoor climate is important as it has a significant impact on the ability to concentrate, performance, overall well-being and health. In particular, the fact that the indoor air is often much more polluted than the outside air is increasingly putting the monitoring of the indoor air quality into focus.

Specification	Description
Measuring range fine dust	PM2.5 / PM10
Measuring range particle measurement	0 ... 2000 µg/m ³
Resolution particle measurement	1 µg/m ³
Measuring range CO2	0 ... 9999 ppm
Accuracy CO2	±5% of measured value or ±75 ppm
Resolution CO2	1 ppm
Measuring range formaldehyde	0.00 ... 5.00 mg/m ³
Accuracy formaldehyde	±5% of measured value
Resolution formaldehyde	0.01 mg/m ³
Measuring range humidity	0 ... 100% r.H.
Accuracy humidity	±3.5% r.H. (at 20 ... 80% r.H.)
Resolution humidity	0.1% r.H.%
Measuring range temperature	-20 ... 70°C / -4 ... 158°F
Accuracy temperature	±2°C / 3.6°F
Resolution temperature	0.1°C / 0.18°F
Sound sensor	Wake up function to APO
Power supply	2400-mAh, rechargeable battery
Battery life	Continuous measurement for up to 5 hours
Charging	Via USB 5V / 1 A
Charging time	2 hours (when switched off)
Automatic sleep mode	Adjustable if necessary
Display	3" TFT LCD Display, 240 x 400 pixel
Data storage	5000 measurement groups
Operating temperature	0 ... 50°C / 32 ... 122°F
Storage temperature	-10 ... 60°C / 14 ... 140°F
Dimensions	1. 85 x 75 x 155 mm / 3.3 x 2.9 x 6.1 in
Weight	360 g / < 1 lb



System Description



Air Quality Standard Color Table

PM2.5
Concentration and Corresponding Index Color Table

Color	Green	Yellow	Orange	Red	Purple	Deep Purple
Concentration	0~35 $\mu\text{g}/\text{m}^3$	35~75 $\mu\text{g}/\text{m}^3$	75~150 $\mu\text{g}/\text{m}^3$	150~200 $\mu\text{g}/\text{m}^3$	200~250 $\mu\text{g}/\text{m}^3$	>250 $\mu\text{g}/\text{m}^3$
Air Quality	Good	Normal	Mid Polluted	Middle Polluted	Heavy Polluted	Serious Polluted

PM10
Concentration and Corresponding Index Color Table

Color	Green	Yellow	Orange	Red	Purple	Deep Purple
Concentration	0~75 $\mu\text{g}/\text{m}^3$	75~150 $\mu\text{g}/\text{m}^3$	150~300 $\mu\text{g}/\text{m}^3$	300~400 $\mu\text{g}/\text{m}^3$	400~500 $\mu\text{g}/\text{m}^3$	>500 $\mu\text{g}/\text{m}^3$
Air Quality	Good	Normal	Mid Polluted	Middle Polluted	Heavy Polluted	Serious Polluted



AIR QUALITY METER / AIR QUALITY GAUGE

PCE-RCM 15 FOR INDOOR AIR QUALITY MEASUREMENT

Description

Air quality always under control: the PCE Instruments Air Quality Gauge has been specifically designed to monitor the quality of the indoor air. The air quality measuring device simultaneously determines seven environmental parameters, particularly important for your health and well-being, quickly and accurately. The air quality measuring device enables the efficient and simple measurement of volatile organic compounds (TVOC), fine dust (PM1, PM2.5 and PM10), temperature, formaldehyde as well as relative humidity. The large display of the air quality gauge displays all measured values and also has a date and time display.

The room air contaminated by fine dust, formaldehyde or volatile organic substances can cause severe damage to health and well-being. Increased pollutant concentration in the air can lead to headaches, fatigue, respiratory irritation and other health problems. Therefore, you should always pay attention to the quality of the indoor air. This is particularly easy with the help of the large color display of the air quality gauge from PCE Instruments.



Air Quality Gauge Application Areas

The air quality measuring device from PCE Instruments is compact and, thus, flexible in use. It is therefore excellently suited to check and regularly control the quality of the room air in different indoor areas in the professional or private sector. Due to its design, the dust measuring device is suitable, for example, for a setting-up on the table or shelf which one always has in view, in order to read the current values.



Specification	Description
Measured quantity of formaldehyde	
Measuring range	0 ... 1.999 mg / m ³
Resolution	0.001 mg / m ³
Accuracy	± 5%
Measured TVOC	
Measuring range	0 ... 999 µg / m ³
Resolution	1 µg / m ³
Accuracy	± 15%
Measured variable temperature	
Measuring range	-10 ... 45°C / 14 ... 113°F (Only displays in °C)
Resolution	0.1°C / 0.18°F (Only displays in °C)
Accuracy	± 1°C / 1.8°F (Only displays in °C)
Measured variable air humidity	
Display	LC display
Power supply	Li-ion battery 3.7V / 5000-mAh
Storage conditions	-20 ... 50°C / -4 ... 122°F, max. 90% rh
Dimensions	24.5 x 11 x 12.5 cm / 9.6 x 4.3 x 4.9 in
Weight	About 515 g / 1.1 lbs

AIR QUALITY METER

PCE-PTH 10

Description

Air quality meter with a measuring range of -10 ... 50 °C / Units can be selected / MIN, MAX / Long battery life / LC display / Small and compact design



The air quality meter is a measuring device for orienting measurement of temperature and relative humidity. With a temperature measuring range of -10 ... 50 °C and a humidity measuring range of 20 ... 90% RH the thermo-hygrometer covers a wide range of tasks. The thermo-hygrometer is used, for example, to monitor climatic conditions at workplaces, in cold stores or in the environment.

In addition to the normal measuring mode, the air quality meter has a MIN / MAX function. This means that the thermo-hygrometer can continuously display the largest or smallest measured value. The low power consumption of <10 µA guarantees a long battery life.

Characteristics

- Small and compact design
- Measuring range -10 ... 50 °C / 14 ... 122 °F
- Various measurement functions
- Temperature and humidity sensor
- Low power consumption
- Selectable units



Specification	Description
Measuring range temperature	-10 ... 50 °C / 14 ... 122 °F
Measuring range humidity	20 ... 90 % RH
Resolution	1 %
units	°C, °F
Functions	normal measuring mode, MIN / MAX
Measuring rate	a value every 10 seconds
Display	LC display
Power supply	1.5 V, LR44 batteries
Power consumption	<10 µA
Operating conditions	-10 ... 50 °C / 14 ... 122 °F, <90 % RH non condensing
Storage conditions	-10 ... 60 °C, <90 % RH non condensing
Dimensions	138 x 27 x 19 mm / 5.4 x 1.0 x 0.7"
Weight	40 g / 1.4 oz

AIR QUALITY METER PCE-AQD 50

MEASURES TEMPERATURE, HUMIDITY, ATMOSPHERIC PRESSURE, CO2



Description

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..

The measured values are displayed numerically on the 2.7" display of the air quality meter. For a better analysis of the last measured values, the display can be switched to a histogram display. The energy-saving e-paper display enables a long battery life for the air quality meter. Depending on the setting the battery can operate the air quality meter for about 10 months before it has to be recharged. In addition to the possible power supply via the built-in battery, the air quality measuring device can also be operated continuously via the 12 V DC power supply unit.

Specification	Description
Temperature	
Measuring range	0 ... +50 °C / 32 ... 122 °F
Resolution	0.1 °C
Accuracy	±0.15 °C @ 0 ... 20 °C / 32 ... 60 °F
Ambient Humidity	
Measuring range	0 ... 100 % RH
Resolution	0.1 % RH
Accuracy	±1.5 % RH @ 0 ... 80 % RH
Atmospheric Pressure	
Measuring range	300 ... 2000 hPa
Resolution	0.1 hPa
Accuracy	±2 hPa @ 25 °C / 77 °F and 750 ... 1100 hPa
CO2	
Measuring range	0 ... 40000 ppm
Resolution	1 ppm
Further Specifications	
Power supply	battery 7.4 V DC / 3400 mAh, Li-Ion battery
Power supply	mains power adapter 12 V DC / 1.5 A
Dimensions	128.5 x 88.5 x 41 mm / 1.1 x 3.4 x 1.6"
Weight	300 g / 10.5 oz

AIR QUALITY VOC METER PCE-VOC 1 / VOLATILE ORGANIC COMPOUND (VOC) AND FORMALDEHYDE (HCHO) GAS LEAK DETECTOR



Description

Portable handheld volatile organic compound (VOC) and formaldehyde (HCHO) gas leak detector for indoor air quality (IAQ) monitoring

PCE-VOC 1 is a portable handheld volatile organic compound (VOC) and formaldehyde (HCHO) meter or gas leak detector for indoor air quality (IAQ) monitoring applications. This easy-to-use VOC meter is ideal for measuring total volatile organic compound (TVOC) and formaldehyde (HCHO) levels in homes, offices, factories, laboratories, hotels, schools and other indoor environments.

Characteristics

- Audible and visual alarms
- Large, easy-to-read LCD screen
- User-friendly three-button operation
- Compact and lightweight yet heavy-duty design
- Long-lasting rechargeable lithium-polymer (LiPo) battery
- Displays units in parts per million (ppm) or milligrams per cubic meter (mg/m^3)
- Measures total volatile organic compound (TVOC) and formaldehyde (HCHO) levels

Specification	Description
HCHO	0.00... 5.00 ppm or mg/m^3
Resolution	0.01 ppm or mg/m^3
Accuracy	$\pm 5\%$ of measured value
TVOC	0.00... 9.99 ppm or mg/m^3
Response time	< 2 seconds
Operating temperature	32... 104 °F / 0... 40 °C
Storage temperature	14... 140 °F / -10... 60 °C
Power supply	7.4 V / 1200 mAh LiPo battery
Charging time	Approx. 2 hours
Weight	Approx. 1.3 lbs / 584 g
Dimensions	6.5 x 2.4 x 1.0 in / 165 x 60 x 25 mm

AIR QUALITY FORMALDEHYDE GAS METER

HFX205



Description

This Air Quality Meter is designed to detect formaldehyde in air. The Air Quality Meter shows the formaldehyde-concentration on site and thereby avoids time-consuming and expensive analysis in laboratories. The formaldehyde Air Quality Meter runs with help of an electro-mechanical sensor and is designed to determine the current permitted limit. A measurement can be accomplished in less than 30 seconds. The concentration is measured in ppm units. Some substances such as ethanol, propanol or methanol can interfere with the measuring data. An optionally purchasable hygrometer-sensor allows for a correction of the measured data in order to achieve accurate measurements. The Air Quality Meter can be connected to a computer or laptop by means of the USB-Interface, thereby allowing an automatic and continuous measuring over a long period of time. Time and battery status are shown continuously on a display. Information on all the gass-measuring devices of PCE Instruments is shown below. For further information, please feel free to read the following technical data. Our engineers and technicians will gladly advise you on the measuring device for formaldehyde concentration or any other product in terms of regulation and control, or scales and balances of PCE Instruments.

Characteristics

- High-speed USB
- Real-time display
- Short reaction time
- Manual and auto data storage
- Operating time up to 6 hrs
- No warm-up time necessary
- Software for Online Data transfer
- Alarm signal if level of limit is reached

Specification	Description
Technical data of Formaldehyde Air Quality Meter	
HCHO	0.00... 5.00 ppm or mg/m ³
Resolution	0.01 ppm or mg/m ³
Accuracy	± 5% of measured value
TVOC	0.00... 9.99 ppm or mg/m ³
Response time	< 2 seconds
Formaldehyde	
Chemical	Formaldehyde equivalent
100 ppm methanol	1 ppm
100 ppm ethanol	1 ppm
100 ppm isopropanol	0.5 ppm
100 ppm CO	1 ppm
Operating temperature	32... 104 °F / 0... 40 °C
Storage temperature	14... 140 °F / -10... 60 °C
Power supply	7.4 V / 1200 mAh LiPo battery
Charging time	Approx. 2 hours
Weight	Approx. 1.3 lbs / 584 g
Dimensions	6.5 x 2.4 x 1.0 in
25 ppm phenol	0.05 ppm
100 ppm acetaldehyde	0.5 ppm
100 ppm hydrogen	3 ppm
50 ppm hydrogen sulphide	0.5 ppm
50 ppm sulphur dioxide	0.5 ppm

AIR QUALITY METER PCE-RCM 16 FOR HOMES, BUSINESSES & PUBLIC BUILDINGS

Description

PM10, temperature, humidity measurement / Rechargeable battery / For enclosed spaces / Limit alarm

The air quality meter PCE-RCM 16 is ideal for monitoring the air quality in homes, businesses or public buildings where people are staying. The 4.3-inch TFT display on the air quality meter is dimensioned so that all measured values can be read directly. Supported measurements on the air quality meter are CO₂, TVOC, PM1, PM2.5, PM10, temperature and ambient humidity. On the display of the air quality meter, the measured values are updated every second. As soon as a measured value exceeds the fixed limit, this is visually indicated to the user.

To power the air quality meter can be operated directly via the micro USB port on the back. The built-in battery with the air quality meter is charged via this interface. Thus, the air quality meter is versatile. It should be noted that the measured values settle within 24 hours after switching on the air quality meter.



Measurement function	Measurement range	Resolution	Accuracy
TVOC	0.000 ... 9.999 mg / m ³	0.001 mg / m ³	± 10% of the measured value
PM1, PM 2.5 PM10	0 ... 999 µg / m ³	1 µg / m ³	± 10% of the measured value
Temperature	0 ... 50°C / 32 ... 122°F	1°C / 1.8°F	± 1°C / 1.8°F
Moisture	20 ... 90% rh	1%	± 4%
CO ₂	0 ... 5000 ppm	1 ppm	± 10% of the measured value
General			
Display	TFT display, 4.3 inches		
Connection	Micro USB for charging the battery		
Power supply	5V / 2A		
Battery pack	3000-mAh		
Casing	Metal		
Dimension	191 x 78 x 67.5 mm / 7.5 x 3 x 2.7 in		
Weight	336 g / < 1 lb		

Display Screens



Key Connections



AIR QUALITY STATION

PCE-VDL 16I



Description

Air Quality Station With up to 800 Hz / Temperature, Humidity, Air pressure, Vibration, and Light

The Air Quality Stations of the PCE-VDL series are available in two versions. The air quality meter contains sensors for the following physical units: temperature, humidity, air pressure, light and 3-axis acceleration. The max. sampling rate of the acceleration sensor is 800 Hz, the remaining sensors are sampled with max.

Specification	Measuring range	Accuracy	Resolution	Max. Sampling rate
Temperature	-20 ... 65°C / -4 ... 149°F	± 0.2°C / ± 0.36°F	0.01°C / 0.018°F	1 Hz
Humidity	0 ... 100% r.H.	± 1.8% r.H.	0.04% r.H.	1 Hz
Air pressure	10 ... 2000 mbar	±2 mbar	0.02 mbar	1 Hz
Light	0.045 ... 188,000 Lux.	----	0.045 Lux	1 Hz
3 Axes Acceleration	± 16 g	0.24 g	0.00390625 g	800 Hz

Display Screens



AIR QUALITY METER

PCE-RCM 8

Description

Indoor / Battery-powered multi-function particle counter / LC display / Mass concentration PM 1.0, PM 2.5, PM 10 / Formaldehyde / Alarm function / Temperature measurement / Foot stand / Switchable display



Characteristics

- Battery operation
- LC display
- Measurement of TVOC
- Temperature measurement
- Alarm function
- Mass concentration
- Setting foot
- Formaldehyde in mg / m³

The multi-function particle counter PCE-RCM 8 performs many measuring tasks. For example, the multi-function particle counter can measure mass concentration, formaldehyde and TVOC. This multi-function particle counter is specially designed for indoor measurement. The 320 x 240 Due to its ease of use and the large display, this multi-function particle counter is optimally suited for measuring in offices, schools and living spaces. With the help of the data logger function, you can view the last parameters at any time. Thanks to the built-in lithium ion battery, you can position the multi-function particle counter freely at your workplace. pixel display shows you directly the current measured values.

Measuring Function	Measuring range	Accuracy	Sensor technology
PM 1.0	0 ... 999 µg / m ³	0 ... 999 µg / m ³	1 Hz
PM 2.5	0 ... 999 µg / m ³	0.04% r.H.	1 Hz
PM 1.0	0 ... 999 µg / m ³	0.02 mbar	1 Hz
HCHO	0.001 ... 1.999 mg / m ³	0.045 Lux	1 Hz
TVCO	0.001 ... 9.999 mg / m ³	0.00390625 g	800 Hz

General	
Measuring range temperature	-10 ... 60°C / 14 ... 140°F
Resolution	0.1°C / 0.18°
Accuracy	± 15%
Measuring range humidity	20 ... 99% rh
Resolution	1% rh
Accuracy	± 15%
Air Quality Index	0 ... 500
Measuring rate	1.5 s
Display	LCD display 320 x 240 pixels
Power supply	Built-in lithium ion battery 1000-mAh
Dimensions	155 x 87 x 35 mm / 6.1 x 3.4 x 1.4 in
Storage conditions	-10 ... 60°C / 14 ... 140°F, 20 ... 85% rh
Weight	About 160 g / < 1 lb



AIR QUALITY METER PCE-PQC 15EU

MEASURING RANGE - 0.5 TO 75 MM

Description

Measurement of particle sizes up to 75 µm / Up to 6 parallel measuring channels / Internal memory / Reporting according to ISO 14644-1, EU GMP Annex I, FS 209E / Extrapolation of the mass concentration in µg / m³ / USB or (optional) Ethernet or (optional) Wifi connection

The particle counters of the PCE-PQC 1xEU series measure the concentration of particles such as dust, soot, pollens and many other aerosols in the air. To accurately determine the degree of pollution of the air, the particle counters were developed. Pollution is mainly generated by combustion, material processing, manufacturing, power generation, vehicle engine emissions and the construction industry. With the help of the PCE-PQC 1xEU series particle counters the exact amount of dirt particles in the air can be measured. Of greater importance is the degree of pollution of the air with pathogenic particles such as soot, which are released by the industry and especially by diesel vehicles without special filtering in the air. Such dispersion particles are responsible inter alia for reduced visibility, the inhalation of toxic substances and thus reduced labor productivity. It has also been known for some time that the particles also make a not inconsiderable contribution to many medical diseases such as asthma, bronchitis, skin and lung diseases. The particle counters are designed for easy and quick use. The particle counters of the PCE-PQC 1xEU series operate in different modes (real-time, cumulative, differential, mass concentration, ...) and display the results on the display,



Characteristics

- Handy
- Colour display
- Internal memory
- Mass concentration
- 6 measuring channels
- Particle sizes up to 75 µm

Specification	Description	Specification	Description
Measuring range	0.5 ... 75 µm	Charging time	About 4 hours
Measuring channel sizes	Factory calibrated at 0.5, 1.0, 2.5, 5.0, 10.0, 30.0 µm	Reports	ISO 14644-1
Counting efficiency	50% at 0.5 µm 100% at > 0.75 µm according to JIS	Configuration	Memory for 50 custom configurations
Flow	2.83 l / min (0.1 ft ³ / min)	Standards	ISO 21501-4 and JIS B9921
Random loss	10% at 10,000,000 particles / ft ³	Dimensions	25.4 x 12.9 x 11.4 cm
Battery	10 h	Weight	1.0 kg
Light source	Long-life laser diode	Storage	45000 data sets
Alarms	1 ... 9999999 counts, adjustable	Configuration	Memory for 50 custom configurations
Calibration	Traceable to NIST	Standards	ISO 21501-4 and JIS B9921
Display	4.3" WQVGA color touch display, 480x272 px	Resolution	0.5 °C
Printer	External thermal printer	Accuracy	±0.5 °C (±1 °F), ±2 % r.H.
Aspiration	Internal pump with automatic	Resolution	0.5 °C
Display	4.3" WQVGA color touch display, 480x272 px	Sample locations	Up to 1000 locations can be stored
Air outlet	Internal HEPA filter	Samples duration	1 s ... 99 h adjustable
Battery pack	Replaceable Li-Ion battery	Power supply	110 ... 240V AC 50/60 Hz
		Operating conditions	5 ... 40°C / 41 ... 104°F
		Sample locations	Up to 1000 locations can be stored

Product Views



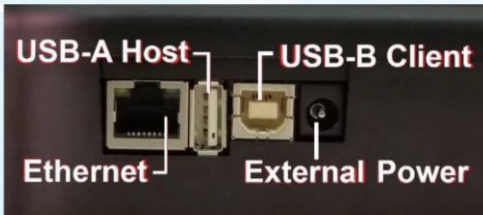
Front View



Rear View



Left Side View - Input / Output Connections



Connecting Ethernet Cable



Connecting USB - B Client



Connecting USB - A Host



Power Considerations and Connecting to AC Power

To install the country specific plug adapter, simply slide the adapter into the power supply



Related Divides



AIR QUALITY METER PCE-PQC 10EU
MEASURING RANGE 0.3 TO 25 MM,
FACTORY CALIBRATED AT 0.3, 0.5,
1.0, 2.5, 5.0, 10.0 MM



AIR QUALITY METER PCE-PQC 11EU
MEASURING RANGE - 0.5 TO 25 MM,
FACTORY CALIBRATED AT 0.5, 0.7,
1.0, 3.0, 5.0, 10.0 MM



AIR QUALITY METER PCE-PQC 12EU
MEASURING RANGE - 0.3 TO
25 MM, FACTORY CALIBRATED
AT 0.3, 0.5, 5.0 MM



AIR QUALITY METER PCE-PQC 13EU
MEASURING RANGE - 0.5
TO 25 MM, FACTORY
CALIBRATED AT 0.5, 1.0, 5.0 MM



AIR QUALITY METER PCE-PQC 14EU
MEASURING RANGE - 0.5 TO 55 MM, FACTORY
CALIBRATED AT 0.5, 1.0, 2.5, 5.0, 10.0, 20.0 MM

AIR QUALITY TEMPERATURE HUMIDITY METER PCE-G1A

Description

PCE-G1A is an air quality temperature humidity meter with a large display. This IP54-rated wall-mountable device measures both relative humidity (%RH) and temperature (°C only). The PCE-G1A air quality temperature humidity meter has a large LED display with a number height of 100 mm / 3.9 in, so measurement values can be seen at a distance of up to 50 m / 164 ft away. Relative humidity and temperature measurements are displayed every 5 seconds (in 5-second intervals). Sensors are mounted by means of connectors with 1 m / 3.2 ft long cable to measure relative humidity and temperature when sensors and display are in different places. The PCE-G1A also has a 2-channel analog output of 4 ... 20-mA. The two channels convert relative humidity and temperature values into 4 ... 20-mA signals before displaying them. This means that measurements can be recorded, controlled and regulated by means of the analog output.

Characteristics

Long life
High accuracy
Excellent readability
Ready for wall mounting

Ingress protection type: IP 54 rating
Analog output: 4 ... 20-mA external sensors
Large, easy-to-read 100 mm / 3.9 in tall LED digits
Displays temperature in degrees Celsius (°C) only



Specification	Description
Technical specifications	
Measurement ranges	10 ... 95% relative humidity (RH) / 0 ... 60 degrees Celsius (°C) only
Resolution	1% RH / 1°C
Accuracy	± 2% RH / ±1°C
Visible distance	Display can be read from 50 m / 164 ft away
Sensor types	HC1000 (RH) / PT1000 (°C)
Response time T ₉₀	Approx. 4 seconds
Display	100 mm / 3.9 in tall LED digits (alternates values)
Analog output	Two channels, 4 ... 20-mA
Power supply	110V ... 230V / 50 ... 60 Hz
Dimensions	Sensor = 50 x 70 x 20 mm / 2 x 2.8 x .8 in Display = 175 x 250 x 75 mm / 6.9 x 9.8 x 3 in
Ingress protection	IP 54 rating
Weight	1.3 kg / 2.9 lbs (with sensor and cable)
Air outlet	Internal HEPA filter
Battery pack	Replaceable Li-Ion battery

AIR QUALITY TEMPERATURE HUMIDITY METER PCE-HT110



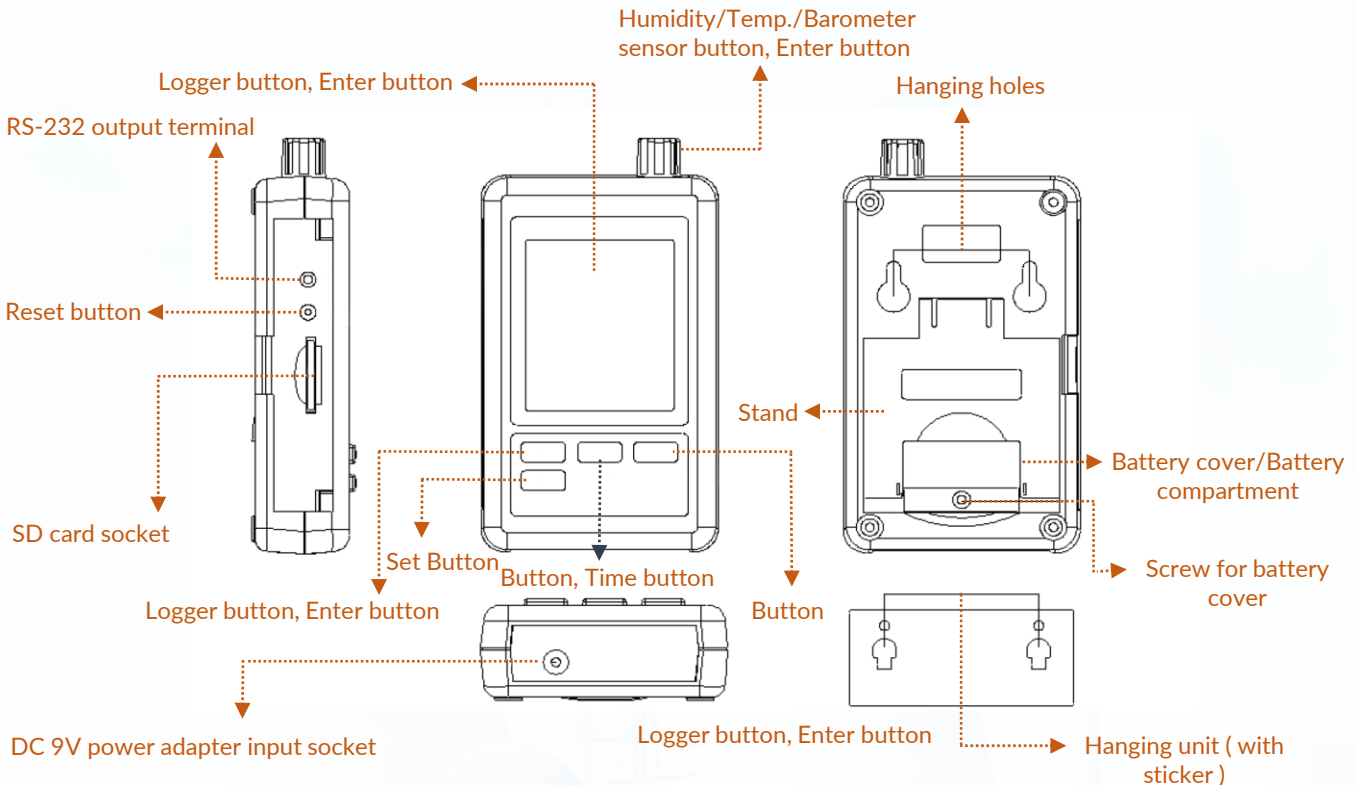
Description

The PCE-HT110 Air Quality Meter or Humidity Detector precisely measures air temperature and relative humidity. This accurate and reliable device shows the current measurements on the large LCD display and saves the measurement data directly to an SD card (included). The PCE-HT110 is equipped with two channels, accommodates an SD card memory of up to 16 GB, offers an adjustable measurement rate/sampling interval, and includes a wall mount, making the device ideal for logging data over an extended period of time.

The PCE-HT110 Humidity Detector can be used to monitor climate-controlled environments such as supermarket refrigerators, refrigerated / reefer trucks and cold storage units. It is also useful for monitoring home HVAC systems, wood floor installations, cigar humidors, industrial heating and cooling processes, machine operating temperatures and product storage / warehouse conditions.

Specification	Description
Measurement ranges	0 ... 50°C / 32 ... 122°F, 10 ... 90% r.H.
Accuracy	± 0.8°C / ± 1.4°F ± 4% r.H.
Resolution	0.1°C / 0.18°F, 0.1% r.H.
Memory	SD card 1 ... 16 GB (2 GB SD card in delivery)
Measurement ranges	0 ... 50°C / 32 ... 122°F, 10 ... 90% r.H.
Date and time	Programmable
Power supply	6 x 1.5V batteries (AAA) / 9V power adapter (optional)
Operating conditions	0 ... 50°C / 32 ... 122°F, 0 ... 90% r.H.
Dimensions	132 x 80 x 32 mm / 5.2 x 3.1 x 1.3 in
Weight	282 g / < 1 lb

Front Panel Description



MOISTURE METER PCE-CMM 8-ICA INCL. ISO CERTIFICATE



Description

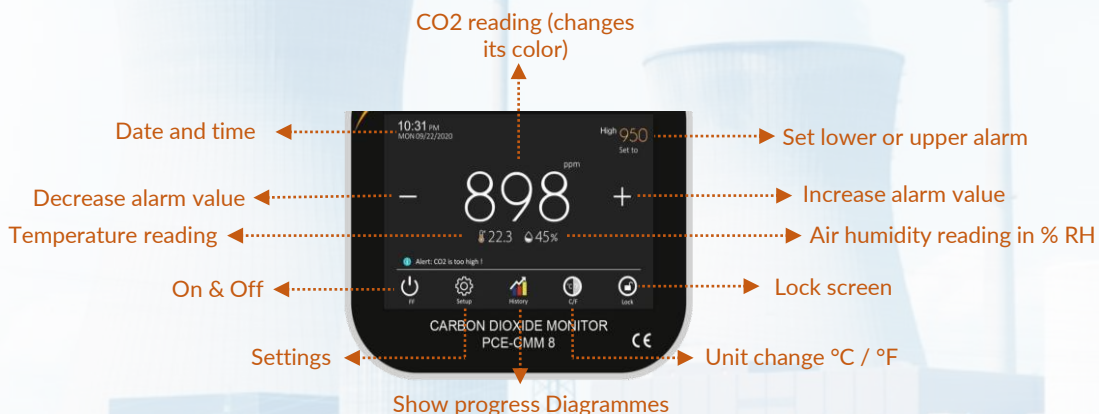
With the CO2 meter you can ensure the right climate in your office. In addition to the CO2 content of the air, the CO2 meter measures the relative humidity and room temperature. The CO2 meter shows carbon dioxide concentrations up to 9999 ppm, temperatures from -10... 50 °C, and relative humidity values from 20 ... 95%. On the 3.5" display of the CO2 meter, the corresponding values can be read off directly, and the color of the CO2 display changes to provide an objective statement about the quality of the room air based on the CO2 content. This makes it particularly easy to assess the indoor air quality using the CO2 meter. For these reasons, the CO2 meter is particularly suitable for offices, schools, public buildings or hospitals, and in general for all buildings and rooms in which people are present.

The CO2 meter displays the measured values numerically and graphically on the touchscreen. Operation is intuitive. The menu structure is simple and user friendly. In addition to setting the date and time, the user can parameterize offsets for the measured values of temperature, humidity and the CO2 content. The display can be dimmed automatically, for example at night. The CO2 meter is operated via the mini-USB interface with a 5 V / 2 A power supply unit (not included).

Characteristics

- USB supply
- Innovative design
- Touch display with lighting
- Progress display for °C, r.h., CO2
- Maintenance-free NDIR CO2 sensor
- Numerical display of the CO2 measured value

Specification	Description
Temperature sensor	Range: -35° to 70°C Accuracy up to 0.25°C in the -20°C to +70°C range and 0.5°C in the -35°C to -20°C range Resolution: 0.1°C Drift: <0.1°C / year Measurement interval: 1 minute to 10 days, configurable Memory size: 60 000 measurements
Humidity	Range: 0 to 100% RH, Accuracy: 4% in the range of 0 to 80% and 7% in the range of 81 to 99%
Air Quality	0-500 IAQ
Pressure	300 to 1100 hPa, absolute accuracy +/- 3 hPa at 0 to + 65°C, relative +/- 0.12 hPa at 0 to + 65°C, p = 800 - 900 hPa
Radio module	Communication: Bluetooth Low Energy (BLE) Radio frequency: 2,4 GHz Power: 2,5 mW (4 dBm) Range: up to 100 m (LOS) Communication standard: Bluetooth Smart (Bluetooth Low Energy, Bluetooth 4.0) Transmission frequency: 1 s
Battery	Battery: 3,6 V, size AA, capacity 2 700 mAh (replaceable) Battery operating time: at least 5 years (measurement interval: 15 min)
Dimensions	27 x 71 x 71 mm Weight: 80 g



WIRELESS INDOOR AIR QUALITY, TEMPERATURE AND HUMIDITY LOGGER - BLUETOOTH LOW ENERGY

Description

Wireless temperature, humidity and air quality logger is designed to monitor indoor climate conditions. The device measures air quality based on the concentration of volatile organic compounds (VOC) and calculates IAQ (Indoor Air Quality) representing air quality in the room based on the Bosch patented algorithm. Volatile organic compounds are substances derived from many indoor products, including from paints, cleaning agents, solvents, alcohol or glue. Some volatile organic compounds are carcinogenic.

In addition, the sensor measures the temperature and relative humidity of air, which, in combination with the VOC concentration, gives a full picture of the room conditions.

You can use a free mobile application to configure the device and read the data from its memory. If you add Efento Gateway, you can build a remote monitoring system.

- **Air quality:** 0-500 IAQ 0-50 - Good 51-100 - Average 101-150 - Little bad 151-200 - Bad 301-500 - Worse 500+ Very bad
- **Temperature:** -35 to +70°C, accuracy: up to 0.4°C in the range from -20°C to +70°C and up to 0.5°C in the range -35 to -20°C
- **Humidity:** 0 to 100% RH, accuracy 4% in the range of 0 to 80% and 7% in the range of 81 to 99%
- **Measurement period:** 1 minute – 10 days (configurable by the user)
- The device stores 40,000 measurements in its memory, when the memory is full, the oldest measurements are overwritten
- Battery ensures up to 5 years of maintenance-free operation
- Add Efento Gateway and Efento Cloud to build a real time monitoring system. The maximum distance between the sensor and the Gateway is 100 m in the open space and 20 – 30 m in the buildings
- Use a free mobile application to configure the logger, read the data from its memory, generate reports and set alert thresholds



Specification	Description
TEMPERATURE SENSOR	
Measuring range	0 ... 9999 ppm
Accuracy	± 75ppm or ±5 % of measured value (whichever is greater)
Resolution	1ppm
CO2 sensor type	NDIR Sensor
Measured variable temperature	
Measuring range	-10 ... 50 °C / 14 ... 122 °F
Accuracy	±1 °C
Resolution	0.1 °C
Measured variable air humidity	
Measuring range	20 ... 95 % r.H.
Accuracy	±5 % r.H.
Resolution	1 % r.H.
Display	3.5" touch LC display
Power supply	5 V Mini-USB
Standby power	<0.5 W
Ambient conditions	1 ... 85 °C / 34 ... 185 °F / 20 ... 85 % r.H.
Degree of protection	IP21



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