USER MANUAL

AIR QUALITY MONITOR

PCE-AQD 6

ENGLISH



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski) can be found via our product search on:
www.pce-instruments.com



Figure 1: Home



Figure 2:
Parameter Curve



Figure 3:
PM Data comparison



Figure 4: Calibration

GENERAL USE (KEY OPERATION SUMMARY)

Press and hold the POWER button for more than 3 seconds - power on, after powering on, warm up for 60 seconds, after counting, it will start to detect and display the current air quality parameters, 14 air parameters are displayed.

Short press the POWER button 1 time

» In Fig. 1 interface can switch the temperature unit (Celsius / Fahrenheit)

» In the interface of Fig. 2 you can switch the parameters to view the corresponding data curve

Press the POWER button for 2 times

» In the Interface of Fig. 1, you can turn on/ off the buzzer

» In the Interface of Fig. 3, the first double-click to record the average of the first group of 30 seconds, and then double click to record the average of the second gruop of 30 seconds.

Press the POWER button 3 times - the instruments enters the 120 seconds parameter calibration, as shown in Fig. 4.

Press the POWER button 4 times - so that the device to enter the rest screen monitoring state (the device is still working normally in this state, click the button to wake up the screen).

Press the POWER button 5 times

» Make the device enter the parameter data curve page, such as Fig. 2

» Press 5 times in a row in the interface of Fig. 2 and Fig. 3 to return to the main interface of Fig. 1

Press the POWER button 6 times - the device will enter the will enter the PM particulate data comparison page, as in Fig. 3. (Duoble-click the button in this interface to record PM particulate data)

PRODUCT FUNCTIONALITY EXPLANATION

Calibrate the device parameters: Press 3 buttons in a row in the main interface to enter the calibration page, and finish the device calibration after the 120s coumdown.
(**Note:** Before performing this calibration operation, you need to leave the device in a well-ventilated location with good air environment for 5 ... 10 minutes to achieve the best result. The device cannot be operated during calibration, i.e. pressing the buttons is not effective - you can only wait for the countdown to finish and exit automatically).

Hibernation monitoring: Pressing 4 keys in a row in the main interface and the curve page can make he device enter the hibernation monitoring state (i.e. the device will enter the hibernation monitoring state). Resting screen monitoring state (i.e. the device screen is off, but is still in normal working condition, in the monitoring of parameter exceeds the standard will automatically light up the screen and the value will change color and sound alarm), resting screen state, click the key to wake up the screen.

Parameter historical data curve recording: In the main interface press 5 keys to enter the historical data curve interface of PM2.5, click to switch the parameter curve to HCHO/TVOV/CO2, and then press 5 keys again to return to the main interface.

Vertical axis: 0 ... 999 µg/m³ represents the concentration value of PM2.5

Horizontal axis: 0 ... 24h represents the time span of the curve recording data is 24h

121µg/m³: refers to the current real-time PM2.5 concentration value



Comparison of PM particulate matter values: In the main interface, press 6 buttons to enter the initial interface of Fig. 5, and then press 2 buttons to start detecting and calculating the average value of particulate matter values in the air in the first 30 seconds after the device emits a drop sound. Then press 2 buttons to detect and calculate the average value of particulate matter values in the air in the 30 seconds and give the percentage of fluctuation of the value.



Figure 5: PM Particle Comparison Initial Screen

TF memory card storage data (can be imported into the computer): The size of the TF memory cards is 2G, the frequency of data storage is recorded every 5 seconds, the data storage period of 1 year, a total of 12 text data after export, corresponding to a monthly storage data text.

Note:

- Imported into the computer data line, you need to use a line with a data signal, cell phone charging line can be. (Tester connected to the computer when the display interface show PC MODE)
- The history of TXT files using computer notepad to open the optimal.
- The data records are saved for one year by default, the time lapse will cover the previous.

PRODUCT PARAMETERS

CO2 Detection Range	400 ... 5000PPM / ±50 ±5%PPM
CO2 Detection Sensitivity	1PPM
CO Detection Range	0 ... 999PPM / ±10PPM
CO Detection Sensitivity	1PPM
TVOC Detection Range	0 ... 9.99mg/m³ / ±0.05mg/m³
HCHO Detection Range	0 ... 1.99mg/m³ / ±0.05mg/m³
C6H6 Detection Range	0 ... 1.999mg/m³ / ±0.05mg/m³
PM2.5 Detection Range	0 ... 999µg/m³ / ±10µg/m³
PM2.5 Detection Sensitivity	1µg/m³
PM10 Detection Range	0 ... 999µg/m³ / ±10µg/m³0
PM5.0 Detection Range	-999µg/m³ / ±10µg/m³
PM1.0 Detection Range	0 ... 999µg/m³ / ±10µg/m³0
PM0.5 Detection Range	-999µg/m³ / ±10µg/m³0-
PM0.3 Detection Range	999µg/m³ / ±10µg/m³
Temperature Measurement Range	-10 ... 50°C
Temperature Measurement Accuracy	±2°C
Humidity Measurement Range	0% ... 99% RH
Humidity Measurement Accuracy	±5%RH

Charging Mode	DC5V/1A Type-C USB interface
Battery	Li-Ion battery 2000mAh
Working Current	180mA
Working Voltage	3.7V
Weight	160g
The above accuracy is a high-configuration version, and the error of the low-configuration version is increased by 30%.	

ENVIRONMENTAL POLLUTION INDEX REFERENCE

	GREEN	YELLOW	ORANGE	RED	STANDARD SOURCES
AQI	0 ... 50	51 ... 100	101 ... 250	>251	GB3095-2012
CO2 PPM	0 ... 699	700 ... 999	1000 ... 1599	>1600	GB37488-2019
C6H6 mg/m³	0 ... 0.01	0.011 ... 0.015	0.016 ... 0.025	>0.030	GB/T18883-2022
HCHO mg/m³	0 ... 0.08	0.081 ... 0.1	0.101 ... 0.3	>0.31	GB/T18883-2002
TVOC mg/m³	0 ... 0.5	0.501 ... 1	1.001 ... 1.6	>1.61	GB/T18883-2002
CO PPM	0 ... 30	31 ... 50	51 ... 160	>161	SYT6503-2022
PM2.5 µg/m³	0 ... 35	36 ... 75	76 ... 115	>116	GB3095-2012
PM10 µg/m³	0 ... 50	51 ... 150	151 ... 250	>251	GB3095-2012
PM5.0 µg/m³	0 ... 35	36 ... 75	76 ... 115	>116	GB3095-2012
PM1.0 µg/m³	0 ... 15	16 ... 35	36 ... 75	>76	GB3095-2012
PM0.5 µg/m³					
PM0.3 µg/m³	0 ... 100	101 ... 1000	1001 ... 10000	>10001	GB3095-2012

ATTENTION

This product belongs to household detector, please do not use it in professional testing scenarios such as laboratories and professional data testing comparison.

- Please pay attention to the following conditions before using the air detector.
- This product has a built-in lithium battery, please use standard DC-5V charger.
- When operating, the air inlet and outlet can not be blocked to avoid numerical deviation.
- Do not use it frequently in a dusty environment with poor air quality to prolong its service life.
- Do not use this device in high temperature, high humidity, dirty places or near strong magnetic fields to avoid inaccurate values or internal circuit failure of it.
- The device is available within the temperature range of -10°C ... 50°C
- Store the device and accessories in the temperature range of -20°C ... 55°C
- When the ambient temperature is too low or too high, it may cause equipment failure.
- Please avoid exposure, rain or moisture to the equipment and accessories, otherwise it may cause mafunctions or risks of display screen, battery, case and circuit.
- Do not use sharp objects like pins into the air inlet, outlet or charging space to avoid damage of decive.
- When the customer starts to take out the box, there is alcohol odor gas in the box, the facotry should be cleanes with alcohol when packaging, and it should be taken out and put in the window with good air ventilation for 1 ... 2 hours, the data will return to normal value.
- TVOC sensors will be affected by smoke, alcohol, formaldehyde, perfume and other odor interference, after a period of time to return to normal.
- Zero operation: put the device on the edge of the window with good air ventilation, restart the counting display for 10 ... 18 seconds, shut down, restart again, and clear the data to zero operation, will be normal.

This product has the detection and alarm function, but can not prevent dangerouse substances leakage, so the accident caused by the loss, we do not assume responsibility.

DISPOSAL

For the disposal of batteries in the EU, the (EU) 2023/1542 directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose. In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law. For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations. If you have any questions, please contact PCE Instruments.

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