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- › PERFORMANCE GURU 9-in-1 Indoor Air Quality Monitor (Model AK16) - User Manual

PERFORMANCE GURU AK16

PERFORMANCE GURU 9-in-1 Indoor Air Quality Monitor

Model: AK16

1. PRODUCT OVERVIEW

The PERFORMANCE GURU AK16 is a versatile 9-in-1 indoor air quality monitor designed to provide accurate readings of various environmental parameters. This device helps you assess the air quality in your surroundings by detecting PM2.5, PM10, Carbon Dioxide (CO₂), Formaldehyde (HCHO), Total Volatile Organic Compounds (TVOC), temperature, and humidity. It features an ultra-high definition color screen for easy readability and a compact, portable design.



Image 1: Front view of the PERFORMANCE GURU AK16 Air Quality Monitor.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x PERFORMANCE GURU AK16 Air Quality Monitor
- 1x USB Type-C Charging Cable
- 1x User Manual (this document)

3. PRODUCT FEATURES

- **9-in-1 Monitoring:** Measures PM2.5, PM10, CO2, HCHO, TVOC, Time, Temperature, and Humidity.
- **High Accuracy Sensors:** Equipped with high-precision infrared (NDIR) sensor technology for CO2, PM2.5, PM10, and electrochemistry sensors for HCHO and TVOC.

- **Fast Data Refresh:** Readings refresh every 1-2 seconds for real-time monitoring.
- **Long Battery Life:** Built-in 2000mAh battery provides approximately 16 hours of continuous use on a full charge.
- **USB-C Charging:** Conveniently rechargeable via the included USB Type-C cable.
- **Clear Display:** Ultra-high definition color screen for easy identification and reading of data.
- **Portable Design:** Compact and lightweight with a hanging hole for wall mounting or desktop holder for placement.

4. SETUP

4.1 Initial Charging

Before first use, fully charge the device using the provided USB Type-C cable and a compatible USB power adapter (not included). The battery indicator on the display will show charging status. Avoid using the device while charging or when the battery is low, as this may affect data accuracy.

4.2 Powering On/Off

- **To Power On:** Long press the power button located on the side of the device.
- **To Power Off:** Long press the power button again.

4.3 Initial Calibration

Upon first power-on, the device will initiate a countdown (e.g., from 400 seconds) to calibrate its sensors. Allow this process to complete for accurate readings. During this time, the CO₂, HCHO, and TVOC readings may display dashes until calibration is finished.

Application Scenarios



PM2.5



PM1



HCHO



PM10



Humidity



CO2



TVOC



Temperature



Time



Image 2: Product diagram highlighting the power button, USB-C interface, ventilation holes, and wall hanging hole.

5. OPERATING INSTRUCTIONS

5.1 Display Layout

The device features a clear display showing multiple parameters simultaneously:

- **Top Left:** Sound display icon, PM2.5 detection ($\mu\text{g}/\text{m}^3$).
- **Top Center:** Time display.
- **Top Right:** Power display icon, PM1.0 detection ($\mu\text{g}/\text{m}^3$).
- **Middle Left:** TVOC detection (mg/m^3).
- **Middle Right:** HCHO detection (mg/m^3), PM10 detection ($\mu\text{g}/\text{m}^3$).
- **Bottom Left:** Temperature detection ($^{\circ}\text{F}/^{\circ}\text{C}$).
- **Bottom Center:** CO2 detection (ppm).
- **Bottom Right:** Humidity detection (%).
- **Bottom Bar:** Overall air quality indicator (color-coded).

Air quality monitor



Image 3: Detailed view of the monitor's display, illustrating the location of each measurement and icon.

5.2 Button Functions

The device has multiple buttons for control:

- **Power Button (Side):** Long press to power on/off.
- **Temperature Unit Switch:** Short press the 'M' button (often labeled as 'Mode' or 'Menu') to toggle between Celsius (°C) and Fahrenheit (°F) for temperature display.
- **Sound On/Off:** Double-tap the 'M' button to turn the alarm sound on or off.
- **Display Brightness:** Use the '+' and '-' buttons (often located near the power button) to adjust the display brightness.
- **Time Setting:** Long press the 'M' button to enter time setting mode. Use '+' and '-' to adjust values and 'M' to confirm and move to the next setting.
- **Screensaver Toggle:** Press and hold the power button and the '-' key simultaneously for 3 seconds to disable the screensaver. Repeat the same action to re-enable it.

5.3 Understanding Air Quality Readings

The device provides an overall air quality rating indicated by a color bar at the bottom of the display. Green typically indicates good air quality, yellow indicates moderate, and red indicates poor.

Exceeds safety standards Siren warning

No need to watch the data all the time
Sound alarm when air quality exceeds the standard
Be your air quality "radar"



Image 4: The monitor displaying a visual and acoustic siren warning when air quality exceeds set standards.

5.4 Air Quality Pollution Level Reference Table

Refer to the table below for general guidelines on air quality status based on detected gas levels:

Air Quality Status	CO2	TVOC	HCHO	PM2.5
Good Air Quality (Green)	≤600ppm	≤0.6mg/m ³	≤0.08mg/m ³	≤75ug/m ³
Moderate Air Quality (Yellow)	>600ppm; ≤1000ppm	>0.6mg/m ³ ; ≤1.6mg/m ³	>0.08mg/m ³ ; ≤0.12mg/m ³	>75ug/m ³ ; ≤150ug/m ³
Poor Air Quality (Red)	>1000ppm	>1.6mg/m ³	>0.12mg/m ³	>150ug/m ³

Image 5: Air Quality Pollution Level Reference Table for various gases.

5.5 Operational Demonstration Video

Watch this video for a demonstration of the air quality monitor's features and operation. While the video may feature a similar model, the core functionalities and display readings are representative of the AK16.

Your browser does not support the video tag.

Video 1: Demonstration of an air quality monitor, showing various readings and button functions.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Ventilation:** Ensure the ventilation holes on the device are not blocked to allow for proper air circulation and accurate readings.

7. TROUBLESHOOTING

- **Device not powering on:** Ensure the device is fully charged. Connect it to a power source using the USB-C cable.
- **Inaccurate readings:** Allow the device to complete its initial calibration process. Ensure it is placed in an area with good air circulation, away from direct drafts or heat sources. Avoid using it while charging.
- **Display not visible:** Check the display brightness settings using the '+' button.
- **No sound:** Double-tap the 'M' button to ensure the alarm sound is enabled.

8. SPECIFICATIONS

Parameter	Detail
Model Number	AK16
Dimensions	7.19 x 11 x 27 cm (2.83 x 4.33 x 10.63 inches)
Item Weight	240 g (0.53 lbs)
Material	ABS
Power Source	Battery Powered
Battery Type	1 Lithium Ion battery (included)
Battery Capacity	2000mAh
Charging Interface	USB Type-C
Alarm	Visual
Manufacturer	PERFORMANCE GURU

9. WARRANTY AND SUPPORT

The PERFORMANCE GURU AK16 Air Quality Monitor comes with a **12-month warranty or refund policy**. If you encounter any issues or have questions regarding your purchase, please contact customer support for assistance. We are committed to resolving any problems within 24 hours.