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> AIROASIS AK16 9-in-1 Professional Indoor Air Quality Monitor User Manual

AIROASIS AK16

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Model: AK16 | Brand: AIROASIS

1. INTRODUCTION

Thank you for choosing the AIROASIS AK16 9-in-1 Professional Indoor Air Quality Monitor. This device is designed to provide accurate, real-time monitoring of various air quality parameters in your indoor environment. Understanding the air you breathe is crucial for maintaining a healthy living and working space. This manual will guide you through the setup, operation, and maintenance of your new air quality monitor.



Image 1.1: The AIROASIS AK16 Air Quality Monitor with its display showing PM2.5, PM1.0, PM10, TVOC, HCHO, Temperature, Humidity, and CO2 readings.

2. PRODUCT FEATURES

The AIROASIS AK16 monitor incorporates advanced sensor technology to provide comprehensive air quality data:

- **Multifunctional Display:** Monitors PM2.5, PM10, CO2, HCHO, TVOC, temperature, humidity, and time on an ultra-high definition color screen.
- **High Accuracy Sensors:** Equipped with a fast-responding, sensitive high-performance chip, including high-precision infrared (NDIR) sensor technology for CO2, PM2.5, PM10, and electrochemical sensors for HCHO and TVOC.
- **Fast Data Refresh:** Readings refresh every 1-2 seconds for real-time monitoring.
- **Long Battery Standby:** Built-in 2000mAh battery provides approximately 16 hours of continuous use on a full charge.
- **Temperature Unit Selection:** Easily switch between Celsius (°C) and Fahrenheit (°F).
- **Versatile Placement:** Features a hanging hole for wall mounting and a stand for desktop use.

Built-In Micro Laser Particle Sensor and Sweden Premium NDIR Sensor

Detects 9 Important Metrics



PM2.5



PM1



PM10



TVOC



HCHO



CO2



Temperature



Humidity



Time

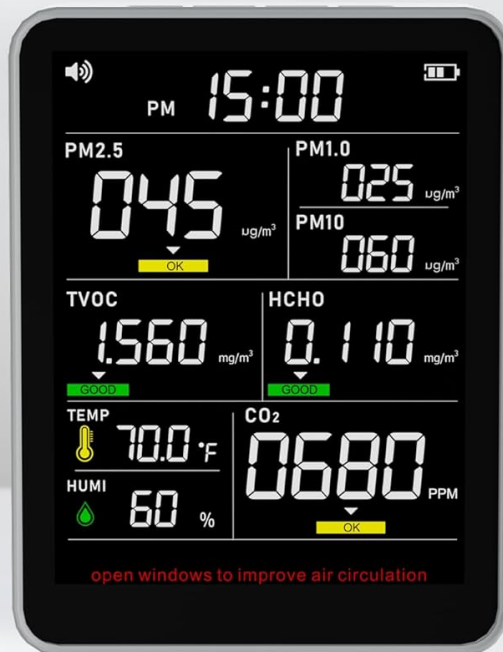


Image 2.1: Visual representation of the nine important metrics detected by the monitor: PM2.5, PM1, PM10, TVOC, HCHO, CO2, Temperature, Humidity, and Time.

3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- 1x AIROASIS Air Quality Detector
- 1x USB Type-C Charging Cable
- 1x User Manual (this document)

Air Quality Monitor Specification

Product Name: 9-IN-1 Air Quality Monitor

Detection Hardware: Electrochemical,
Semiconductor Temperature/Humidity

Detection Items: PM2.5、PM1、PM10、CO2、TVOC、
HCHO、TEMP、HUM、Time Display

Alarm Mode: Buzzer alarm

Product Size: 4.7*3.6*0.94 INCH

Product Weight: 0.5 LB

Battery Capacity: 2000mAh

Product Accessories:

- 1*Air Quality Detector
- 1*Type-C Charging Cable
- 1*User Manual



Image 3.1: The product packaging typically includes the air quality detector, a Type-C charging cable, and the user manual.

4. SETUP

4.1 Charging the Device

Before first use, fully charge the AIROASIS AK16 monitor. Connect the provided USB Type-C cable to the charging port on the device and plug the other end into a standard USB power adapter (not included) or a computer USB port. The battery indicator on the display will show charging status.

- A full charge typically takes several hours.
- Avoid using the device while charging or when the battery is critically low, as this may affect measurement accuracy.

Long Battery Life Type-C Fast Charging

Built-in 2000mAh lithium battery can be connected to USB charging cable to charge



Image 4.1: The AIROASIS AK16 monitor being charged via its Type-C USB port, illustrating the connection point.

4.2 Powering On/Off

To power on the device, press and hold the power button located on the side or back of the unit until the display illuminates. To power off, press and hold the same button until the display turns off.

5. OPERATING INSTRUCTIONS

5.1 Understanding the Display

The monitor's display provides real-time readings for various air quality parameters:

- **PM2.5, PM1.0, PM10:** Particulate Matter concentrations in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). These indicate the levels of fine inhalable particles.
- **TVOC:** Total Volatile Organic Compounds in milligrams per cubic meter (mg/m^3). These are gases emitted from certain solids or liquids.
- **HCHO:** Formaldehyde concentration in milligrams per cubic meter (mg/m^3). Formaldehyde is a common indoor air pollutant.
- **CO2:** Carbon Dioxide concentration in parts per million (ppm). High CO2 levels can indicate poor

ventilation.

- **TEMP:** Temperature in degrees Fahrenheit (°F) or Celsius (°C).
- **HUMI:** Humidity percentage (%).
- **Time:** Current time display.

High Precision NDIR & Particle Sensor

Monitor the indoor air quality anytime, anywhere
Make you see the air you breath



Image 5.1: The AIROASIS AK16 monitor in use, demonstrating its clear display for monitoring indoor air quality.

5.2 Interpreting Air Quality Levels

The device provides a 6-grade air quality level indicator based on the current Air Quality Index (AQI) for PM2.5:

- **Good:** Air quality is satisfactory, and air pollution poses little or no risk.
- **Moderate:** Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.
- **Poor:** Members of sensitive groups may experience health effects. The general public is less likely to be affected.
- **Unhealthy:** Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.

- **Severe:** Health warnings of emergency conditions. The entire population is more likely to be affected.
- **Hazardous:** Health alert: everyone may experience more serious health effects.

5.3 Unit Selection (Temperature)

The temperature unit can be switched between Celsius (°C) and Fahrenheit (°F). Refer to the device's on-screen menu or dedicated button (if available) for this setting. Typically, a short press of a specific button or navigation through a menu option will allow you to toggle the unit.

6. MAINTENANCE

6.1 Cleaning the Device

To ensure accurate readings and prolong the life of your monitor, keep it clean:

- Wipe the exterior of the device with a soft, dry cloth.
- Do not use abrasive cleaners, solvents, or immerse the device in water.
- Ensure the sensor vents are clear of dust and debris. Do not insert any objects into the vents.

6.2 Sensor Care

The sensors are delicate components. Avoid exposing the device to extreme temperatures, high humidity, or direct sunlight for extended periods. Do not attempt to open the device or tamper with the internal sensors, as this will void the warranty and may damage the unit.

7. TROUBLESHOOTING

If you encounter issues with your AIROASIS AK16 monitor, please refer to the following common solutions:

- **Inaccurate Readings:** Ensure the device is placed in a well-ventilated area, away from direct drafts, heat sources, or strong chemical fumes. Allow the device to stabilize for a few minutes after powering on. Ensure the battery is sufficiently charged.
- **Device Not Powering On:** Check if the battery is charged. Connect the device to a power source using the USB Type-C cable and try again. If the issue persists, contact customer support.
- **Display Not Working:** Ensure the device is powered on and fully charged. If the screen remains blank, try restarting the device.
- **Short Battery Life:** Ensure the device is fully charged before use. Battery life can vary based on usage patterns and environmental conditions.

For issues not covered here, please contact AIROASIS customer support.

8. SPECIFICATIONS

Detailed technical specifications for the AIROASIS AK16 Air Quality Monitor:

Feature	Specification
Product Dimensions	3.66 x 0.95 x 4.72 inches
Item Weight	9.6 ounces

Feature	Specification
Model Number	AK16
Battery Type	1x 9V battery (included), 2000mAh rechargeable
Power Source	Battery Powered (USB Type-C charging)
Sensor Type	Electrochemical, NDIR (Infrared)
Material	Plastic
Color	Dark Grey
Operating Humidity	Up to 50% (typical operating range)
Upper Temperature Rating	60°C (140°F)
Alarm	Audible, Visual
PM2.5 Measure Range	0~999 µg/m ³
PM2.5 Accuracy	0~100 µg/m ³ ±10 µg/m ³ ; 100~500 µg/m ³ ±10%
PM2.5 Resolution	1 µg/m ³
Indoor Temperature Range	14 to 140 °F (-9.9 to 60 °C)
Indoor Humidity Range	1% ~ 99%



Image 8.1: The physical dimensions of the AIROASIS AK16 monitor, showing its height, width, and depth.

9. WARRANTY AND SUPPORT

9.1 Product Warranty

The AIROASIS AK16 Air Quality Monitor comes with a 12-month warranty from the date of purchase, covering manufacturing defects. This warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

9.2 Customer Support

If you have any questions, concerns, or require technical assistance with your AIROASIS AK16 monitor, please contact our customer support team. We are committed to resolving any issues you may encounter within 24 hours.

For support, please refer to the contact information provided on the product packaging or the official AIROASIS website.

