



Multifunctional Air Quality Detector



Description

The KLABS Multifunctional Air Quality Detector (Model: KAQM-500) is designed to monitor multiple air quality parameters in indoor environments. The device detects formaldehyde (HCHO), total volatile organic compounds (TVOC), particulate matter (PM1.0, PM2.5, PM10), temperature, and humidity, providing reliable real-time information about environmental conditions.

This scientific air quality monitoring instrument integrates multiple air sensors with a built-in fan to draw ambient air into the device for accurate measurements. The detector continuously analyzes air quality and displays the results on a 2.8-inch color LCD screen, allowing users to easily monitor environmental parameters.

With its compact design and rechargeable lithium battery, the device is suitable for homes, offices, laboratories, and other indoor environments where air quality monitoring is required.



KAQM-500

Features

- 2.8-inch color LCD display (320 × 240 resolution)
- User-adjustable HCHO alarm threshold
- Measures PM1.0, PM2.5, PM10 particulate matter
- Detects formaldehyde (HCHO)
- Measures TVOC
- Displays temperature and humidity
- Built-in fan for real-time air sampling
- Rechargeable 3000 mAh lithium battery
- Micro USB charging support
- Low battery warning indicator

Applications

- Indoor air quality monitoring
- Home and office environments
- Laboratory testing
- Industrial indoor monitoring

Uses

- Monitoring PM1.0, PM2.5, PM10
- Detecting formaldehyde (HCHO)
- Measuring TVOC
- Monitoring temperature and humidity
- Evaluating indoor air quality

Technical Specifications

Parameter	Specification
Display Method	2.8-inch LCD Screen, 320 × 240 pixels
TVOC Sensor Technology	Semiconductor Sensor
Processor	ARM High-Speed Processor
CO ₂ Sensor	Integrated CO ₂ Sensor
Detection Range (AQI)	0 – 500
Detection Range (PM2.5)	0 – 999 µg/m ³
Detection Range (CO ₂)	0 – 5000 ppm
Detection Range (TVOC)	0.001 – 9.999 mg/m ³
Detection Method for PM	Laser Scattering
Battery	Rechargeable Lithium Battery
Battery Capacity	3000 mAh
Power Supply	5 V Micro USB Charging
Product Weight	150 g