

Air Quality Detector

User Manual



Please read this manual before switching the unit on.
Important safety information inside.

Air Quality Detector

PM2.5/10 Weight

Air temperature and humidity measurement

Contact :

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1-Products Description

This device is a sort of exquisite concise and efficient detector which is integrated with PM2.5, PM10, temperature and humidity detection function. This device has adopted laser scattering weight test method, professional structure design, good fan and advanced particulate matter algorithm, which can detect the PM2.5 & PM10 accurately and sensitively. The device is equipped with an accurate sensor that can detect the temperature and humidity at current environment. The operation is very simple. There's a high capacity rechargeable lithium battery inside, it is very convenient to carry, so that we can check air quality from time to time. In order to save the electricity, the device would power off automatically without any button operation in 30 minutes.

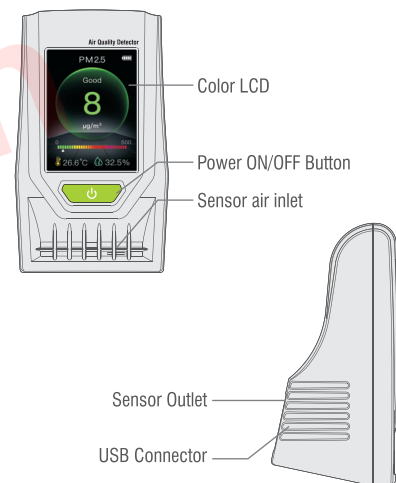
2-Characteristics

- 1-2.4 inches TFT colorful LCD display
- 2-240*320 pixel
- 3-Detecting the particulate matter PM2.5/PM10
- 4-Detecting HCHO(optional)
- 5-Air temperature and humidity
- 6-Auto Power Off
- 7-Exquisite outlook and easy to carry.

3-Specifications

Particulate matter detection	
Size Channels	PM2.5/PM10
Mass Concentration Range	0~2000µg/m³
Resolution	1µg/m³
HCHO detection(optional)	
HCHO Range	0.01~5.00mg/m³
HCHO Precision	±5%F.S
HCHO Resolution	0.01mg/m³
Temperature and humidity detection	
Temperature Range	-20~70°C
Temperature Precision	±1°C
Temperature Resolution	0.1°C
Humidity Range	0~100%RH
Humidity Precision	±3.5%RH(20~80%RH) ±5%RH(0~20%RH/80~100%RH)
Humidity resolution	0.1%RH
Power	
Battery	1000mAh rechargeable lithium battery
Charging	USB 5V charging
Charging time	2 hours power off charging
The others	
Displayer	2.4 inches TFT Color display 240*320resolution
Working temperature	0~50°C
Storage temperature	-10~60°C

4-Function Description



5-Power ON/OFF Mode

On the power off mode, press and hold  button, until the LCD is on, then the unit will power on.

On the power on mode, press and hold  button, until the LCD is off, then the unit will power off.

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6-Detection Mode

When the device opens, it comes to the detection interface 1 (pic1), the detection content is the mass concentration of PM2.5 at the present environment. The screen data refresh every seconds. The device has 5 seconds preheating time at the beginning of starting up. At the upper right of the screen is the device electric quantity, when the battery is in blank, please recharge in time, so that it won't affect the consumers. The numbers in the center of the screen indicates the mass concentration at PM2.5 environment, the color of the number changes according to the different air quality, the corresponding relationship please refer to table 1. At the bottom of the screen, there are 6 colors simulation lines corresponds to the different air quality levels. The pointer will point the present air quality level according with the changes under the PM2.5 mass concentration.



Pic 1

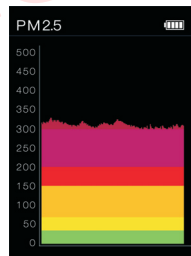
When the device comes to the interface 1, please press the power ON/OFF button in a short time, the device will switch to interface 2 (refer to pic 2). On this interface, the users can check the temperature and humidity data, PM2.5 and PM10. Besides, the colors of PM2.5 and PM10 data changes according to the corresponding mass concentration and air quality levels.

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Pic 2

When the device comes to the interface 2, please press the ϕ button, the device will switch to interface 3 (refer to pic 3). The histogram indicates the mass concentration under the present environment. The screen contains 9 data at most, indication range: 0~500ug/m³. Users can check the present air quality and tendency through this interface.



Pic 2

Air Quality Detector

When the device comes to interface 3, please press the ϕ button in a short time, the device will switch to interface 4 (refer to Pic 4), this interface will show the company two-dimensional code, users can get into the company website to get more info through scanning the two-dimensional code. On this interface, please press the ϕ button again, the device will switch back to interface 1.



Pic 2

7-Maintenance

Maintenance and service is not involved in this brochure, the products must be maintained by the professionals.

Please replace the specified components

If there are any changes in the brochure, please refer to the device without notice.

8-Attentions

1-In order to avoid massive granules dust getting into the device, please don't use it in the obviously dusty environment.

2-In order to keep accurate, please do not use it in heavy fog weather.

3-Do not use it in the explosive environment.

Please operate according to the operation instruction. Please do not disassemble without approval.

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9-Attachment

Air quality standard corresponds to colors showed by the device.

Air quality level	24 hours PM2.5 average values of standard values		Corresponding colors
	PM2.5(ug/m³)	PM10(ug/m³)	
Best	0~35ug/m³	0~70ug/m³	Green
Good	35~75ug/m³	70~150ug/m³	Yellow
Slight pollution	75~115ug/m³	150~250ug/m³	Orange
Medium pollution	115~150ug/m³	250~300ug/m³	Red
Heavy pollution	150~250ug/m³	300~500ug/m³	Purple
Serious pollution	Above 250ug/m³	Above 500ug/m³	Dark Purple

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