

# Air Quality Monitor Instruction Manual



## Product Specifications

Display method: LCD screen display  
 Atmospheric pressure: 86Kpa - 106Kpa  
 Detection method for PM: Laser Scattering  
 Sampling time: 1.5 seconds  
 Product Size: 90 x 90x50mm  
 Detection temperature: -10°C to 50°C  
 Relative humidity: 20% - 85%  
 Storage temperature: -10°C to 60°C  
 Concentration unit for PM2.5 : ug/m<sup>3</sup>  
 Concentration unit for HCHO and TVOC: mg/m<sup>3</sup>  
 Power source: Lithium battery with 2200 mAh capacity;  
 5V DC power charging via micro USB port  
 Product weight: 200g

## Product Description

This product is a multifunctional air quality monitor that detects Formaldehyde (HCHO), Total Volatile Organic Compounds (TVOC), Particulate Matter 2.5, Temperature, and Humidity. As a scientific air quality detection device, it combines multiple air sensors with a built-in fan to allow real-time monitoring of formaldehyde (HCHO), total volatile organic compounds (TVOC), PM2.5, temperature, and humidity on its digital LCD display.

## Considerations

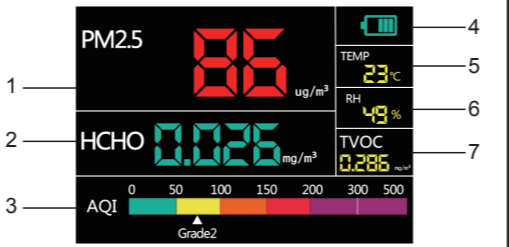
Please read the instructions carefully before using this device.  
 Please calibrate the device before use for most accurate results.  
 Please keep the manual handy for quick reference and troubleshooting.

## Precautions

Avoid covering the air intake areas during use to avoid inaccurate measurements.  
 Avoid use of solvents to clean the product as residual fumes will skew air quality readings.  
 Avoid water or other liquids near the product to avoid electrical damage.  
 Do not allow unauthorized modification or repair of this product.

## Instructions

**Start Up**  
 When you long-press the center power button, the air quality monitor will boot up. Detector will proceed through its warm-up sequence for 200 seconds to allow sensors to preheat and fan to draw in fresh ambient air. This is necessary for accurate results. If device is new, please calibrate first for most accurate results. Countdown timer showing remaining time for warm-up sequence is shown in the HCHO display area. HCHO and TVOC will not display level until 200 seconds preheating process is completed

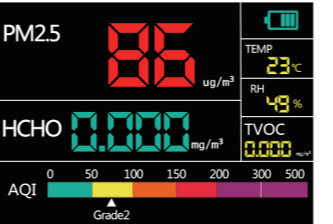


1. PM2.5 display area, showing the current PM2.5 level.
2. HCHO display area, showing the current Formaldehyde level.
3. Air Quality Index, which shows the current AQI pollution index value.
4. Battery symbol, showing the battery or charging indicator.
5. Temperature display area, showing the current temperature in Celsius.
6. Humidity display area, showing the current humidity level.
7. TVOC display area, showing the current Total Volatile Organic Compound level.

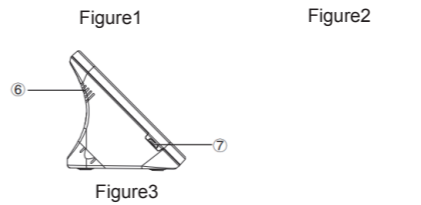
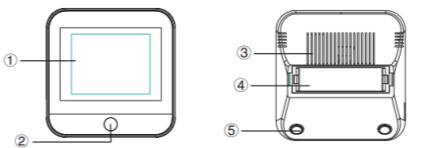
HCHO (formaldehyde) ideal range: <=0.10 mg/m<sup>3</sup> (0.08 ppm/m<sup>3</sup>)  
 TVOC ideal range: <= 0.6 mg/m<sup>3</sup> (0.45 ppm/m<sup>3</sup>)  
 The formaldehyde alarm threshold is 0.100 mg/m<sup>3</sup>. If levels of HCHO exceed this formaldehyde alarm threshold, the device will alarm with short beeps.

## Formaldehyde correction method

When the formaldehyde content is not in the normal range, the machine need to be calibrated. Correction method: Put the device into a place of good air quality, turn it on, then after 5-10 minutes, quickly click the power button twice. you will see the HCHO value is 0.000 and TVOC value is 0.000, the calibration is completed.



## Product Key function description :



- ① display screen
- ② Power/ calibration Button, used to turn device on/off by pressing for 3 seconds or to calibrate the device by double pressing
- ③ air hole of back
- ④ battery cover of back
- ⑤ foot pads
- ⑥ side air flow holes
- ⑦ USB charging port

## About Charging

When low battery icon is displayed, the device needs to be charged. Insert the included or another compatible micro USB charging cable into the device. Attach the other end to a USB DC charger (such as a smartphone charger) that outputs DC 5V at >=1000mA. Fully charge for at least 2-3 hours before use. Avoid charging with a USB computer port which only outputs 500mA.

## Air Quality Standard

AQI level reference table:

AQI:Level	AQI quality index	pollution level	color
AQI:1	0-50	excellent	green
AQI:2	51-100	good	yellow
AQI:3	101-150	mild pollution	orange
AQI:4	151-200	moderately pollution	red
AQI:5	201-300	severe pollution	purple
AQI:6	above 300	serious pollution	maroon

PM2.5 standard reference table :

PM2.5	0- 60	Excellent
	61-120	Good
	121-999	Poor

Formaldehyde standard reference table:

Formaldehyde	less than 0.1	Safety range
	Reach 0.1	Oder and discomfort
	Reach 0.5	Can irritate eyes and cause tears
	Reach 0.6	May cause throat discomfort or pain
	higher	Can cause and vomiting, cough, chest tightness, wheezing and even pulmonary edema.

## Packing List

- Main device \* 1
- Charging cable \* 1
- User manual \* 1
- Package Box \* 1