Air Quality Monitor

Instruction Manual

24-02-V3-306

Protect Your Air

This is a multifunctional air quality monitor that detects particulate matter (PM2.5/1.0/10), formaldehyde (HCHO), total volatile organic compounds (TVOC), air quality index (AQI), temperature and humidity. As a scientific air quality testing device, it combines numerous different types of high-quality air sensors and a built-in fan to allow real-time monitoring of all values on its digital LCD display.
It is easy to operate, quality assured and worth buying.

How To Use

Turn On/Off Monitor

a) Long press **Power Button** for 3 seconds to turn on / off the monitor.

Note1: If your can't turn on the monitor, please plug in and charge it for a while first.

Note2: When the air quality monitor is turned on, it will proceed through its warm-up sequence for about 3 minutes to allow sensors to preheat and fan to draw in fresh ambient air. This is necessary for accurate results. The HCHO has 200-second warm-up countdown time, which is shown in the HCHO value display area.

PM2.5/1.0/10 Switch

a) Single-press **Power Button** to switch the display of PM2.5/1.0/10 values.

Temperature Unit

a) The default temperature unit is Celcius(°C).
b) Temperature unit don't support switching.

HCHO Alarm

a) The HCHO alarm value is 0.1mg/m³.
b) The HCHO default alarm sound is ON.
c) Alarm sound don't support setting on/off
Note: If levels of HCHO exceed this formaldehyde alarm threshold, the monitor will alarm with short beeps.

Calibration Data

a) Calibration data is HCHO.
b) Double-press **Power Button** will emit a beep sound, and the value is reset to zero (0.000), the calibration is completed.

Charging

When low battery icon is displayed, the device needs to be charged. Insert the included or another compatible USB charging cable into the device. Attach the other end to a USB DC charger (such as a smart phone 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.

Prameters

	Measurement Range	Measurement Method	Resolution	Measurement Accuracy
PM2.5	0-999 ug/m³	Laser Scattering	1ug/m³	±10%
HCHO	0.001-1.999mg/m³	Semiconductor	0.001mg/m³	±10%
TVOC	0.001-9.999mg/m³	Semiconductor	0.001mg/m³	±10%
Temperature	-10°C - 50°C	Semiconductor	1°C	±1°C
Humidity	20% - 85%	Semiconductor	1%	±4%

Air Quality Standard

AQI Level Reference Table :

AQI Level	AQI Quality Index	Pollution Level	Corlor
GRADE 1	0-50	Excellent	Green
GRADE 2	51-100	Good	Yellow
GRADE 3	101-150	Mild	Orange
GRADE 4	151-200	Moderately	Red
GRADE 5	201-300	Severe	Purple
GRADE 6	>300	Serious	Deep Purple

Note: The AQI Level is taken as the maximum value of PM2.5

PM2.5 Standard Reference Table :

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

HCHO (Formaldehyde) Standard Reference Table :

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

Tips

Tip 1: Strange Readings? Do This:

1. Turn the device off for some time and then turn it on back on again (effectively allowing the monitor to reset). After continuous use for extended periods, the device may simply need to be reset.
2. Open a window or bring the device outdoors to allow the sensor to exhaust any accumulated fumes and to allow the readings to adjust back down to more normal levels.

Tip 2: Not Using It? Turn It Off:

For the most consistently accurate readings and longest product life, it is recommended to turn the monitor off while it is not in use. This will preserve the battery, sensor, and fan.

Tip 3: Open a Window:

Often the quickest and most practical way to get readings back into the desired range is to simply open a window to ventilate more clean outdoor air into your home. This obviously does not apply if you are located in a Wildfire area or any other area with compromised outdoor air quality.

Tip 4: Cooking Impacts Air Quality:

Cooking often releases increased amounts of unhealthy pollutants into the air including but not limited to CO2, PM2.5 and 10, and VOCs. Furthermore, how and what you cook determines the types of pollutants which will be released into the air.

Considerations & Precautions

- **Sampling Frequency:**
  The sampling frequency of the monitor is 1.5 seconds.
  This means that your monitor is providing you with updated readings every 1-2 seconds. Please note that, in order to provide constantly-updated, real-time readings, it contains a continuously running mini fan which gives off a very slight buzzing sound.
- Upon turning off the monitor, you will see a brief " Power Off " appear on the screen. This is normal. This is not an error message.
- This air monitor should be used indoors and kept dry at all times. It is strongly recommended to store in a cool, dry place.
- **DO NOT** expose to sunlight or use in an extremely polluted, dusty, or smoky environment for prolonged periods as doing so may damage the sensors over time.
- **DO NOT** cover the air intake areas during use to avoid inaccurate measurements.
- **DO NOT** use chemicals or solvents to clean the product as residual fumes will skew air quality readings.
- **DO NOT** put water or other liquids on or near the product to avoid electrical damage.
- **DO NOT** allow unauthorized modification or repair of this product.
- **DO NOT** take apart or disassemble this monitor. Doing so may damage the product and will invalidate the warranty.

Product Specifications

Item	Air Quality Monitor
Product Size	90 x 90 x 50mm
Product Weight	200g (7.05 oz)
Display Method	LCD Screen
Measuring Item	PM2.5, PM1.0, PM10, AQI, HCHO (Formaldehyde), TVOC, Temperature, Humidity
Detection Method for PM	Laser Scattering
Detection Method for HCHO/TVOC	Semiconductor Sensor
Concentration Unit for PM	ug / m³
Concentration Unit for HCHO and TVOC	mg / m³
PM Measuring Range	0-999 ug / m³
HCHO Measuring Range	0.001 - 1.999 mg / m³
TVOC Measuring Range	0.001 - 9.999 mg / m³
Atmospheric Pressure	12.5 PSI - 15.4 PSI
Sampling Time	1.5 Seconds
Temperature Range	-10°C - 50°C
Storage Temperature	-10°C - 60°C
Relative Humidity	20%-85%
Humidity Range	20%-85%
Power Source	2000 mAh Rechargeable Lithium Battery. 5V DC Power Charging via USB Port

Warning:

While this product can reduce your risk of harm by increasing your awareness of air quality, it can in no way guarantee your health or safety. Please instead take a comprehensive approach to living healthy and do not depend on this monitor alone to improve your health or save your life.

Legal Disclaimer:

The use or misuse of this monitor is conditioned upon the user's agreement that in no event shall the manufacturer, importer, reseller, or distributor of this monitor be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever arising out of or connected with the use of this monitor.

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