

# PM2.5 Air Quality Monitor Instruction Manual



2023-08-1013C-V1

## PROTECT YOUR AIR

The PM2.5 Monitor is an advanced, multifunctional PM2.5 monitor that combines high-quality air sensors to allow real-time monitoring of particulate matter 2.5 (PM2.5), temperature and humidity and on its digital LED display.



01

## HOW TO USE

Please read the instructions carefully before using this device. Please let the device work short mins outdoors before use for most accurate results . Please keep the manual handy for quick reference and troubleshooting.

### START UP

Press the power button to turn device on, and Long-press the power button to turn device off.

**Note:** If your PM2.5 monitor does not turn on, please plug in the PM2.5 monitor allow it some time to charge first .

### SET THE PM2.5 ALARM THRESHOLD

The PM2.5 alarm default threshold is 100ug/m<sup>3</sup>. It is recommended to keep the PM2.5 alarm set at this 100ug/m<sup>3</sup> threshold to ensure the highest probability of maintaining optimal PM2.5 levels (below 100ug/m<sup>3</sup>).

**Step 1:** Press the power button twice quickly. The PM2.5 value will start flashing.

**Step 2:** Press the left button to increase PM2.5 alarm threshold and right buttons to decrease PM2.5 alarm threshold to your desired level.

**Step 3:** Press the power button to finish setting the PM2.5 alarm level.

02

## PM2.5 ALARM

The PM2.5 monitor was designed with a built-in PM2.5 alarm. This PM2.5 alarm beeps when the PM2.5 levels surpass the threshold (which you can set). The purpose of the PM2.5 alarm is to notify you right away so the appropriate action can be taken immediately to improve PM2.5 levels.

### Note 1:

The PM2.5 alarm default setting is ON .

The PM2.5 alarm can be turned off by simply pressing the RIGHT button and holding it for 3 seconds;

The PM2.5 alarm can be turned on by simply pressing the RIGHT button again and holding it for 3 seconds.

Exposure to less-than-optimal PM2.5 levels for an extended period of time may not be healthy and it is therefore recommended to keep this PM2.5 alarm function turned on.



### Note 2:

If you have elected to keep the PM2.5 alarm on, please be aware that the PM2.5 alarm will stop beeping automatically even when PM2.5 levels are still above your specified threshold if the PM2.5 levels are decreasing.

03

## SCREEN BRIGHTNESS ADJUSTMENT

Press the left button to increase the screen brightness. Press the right button to decrease the screen brightness.

## TEMPERATURE

The temperature scale is Celcius and does not change to Fahrenheit.

## CHARGING

Please use any cell phone or other power adapter that outputs at >=1000mA (the output is directly stated on the adapter).

Please avoid charging with a USB computer port which only outputs 500mA.

It is recommended to fully charge for at least 2 - 3 hours before use for the longest battery life.

## PARAMETERS

	Measurement Range	Measurement Method	Resolution	Measurement Accuracy
PM2.5	0-999ug/m <sup>3</sup>	Laser Scattering	1ug/m <sup>3</sup>	±10 ug/m <sup>3</sup> or 10%
Temperature	-10°C - 50°C	Semiconductor	1°C	± 2°C
Humidity	20% - 85%	Semiconductor	1%	± 4%

## PM2.5 level indicate

0ug/M<sup>3</sup> - 75 ug/M<sup>3</sup>

76ug/M<sup>3</sup> - 150 ug/M<sup>3</sup>

151ug/M<sup>3</sup> - 999ug/M<sup>3</sup>



04

## PRODUCT SPECIFICATIONS

Item	PM2.5 Monitor
Power Source	1600 mAh Rechargeable Lithium-Battery Capacity
Charging Input	AC 100-240V, 5V Micro USB Connection
PM2.5 Range	0-999 ug/m <sup>3</sup>
Product Size	70*80*35 MM
Display Method	LED Screen Display
Atmospheric Pressure	86Kpa - 106Kpa
Sampling Time	1.5 Seconds
Operating Temperature / Humidity	-10°C - 50°C / 20%-85%,Non-Condensing
Storage Temperature / Humidity	-10°C - 50°C / 20%-85%,Non-Condensing
Concentration Unit for PM2.5	ug/m <sup>3</sup>
Product Weight	150g

05

## Tips

### Tip 1: Strange Readings? Do This:

1. Turn the device off for some time and then turn it on again. After continuous use for extended periods, the device may simply need to be restart .
2. Open a window or bring the device outdoors to allow 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, how and what you cook determines the types of pollutants which will be released into the air.

06

## CONSIDERATIONS & PRECAUTIONS

### • Sampling Frequency:

The sampling frequency of the PM2.5 monitor is 1.5 seconds. This means that your PM2.5 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 ON the PM2.5 monitor, you will see a brief "H-03" appear on the screen. This is normal. This is not an error message

• This air PM2.5 monitor is meant to 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.

### 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 PM2.5 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 carbon dioxide monitor.

## Product List

Air Quality monitor	x 1
Micro USB charging cable	x 1
Product Manual	x 1

08