

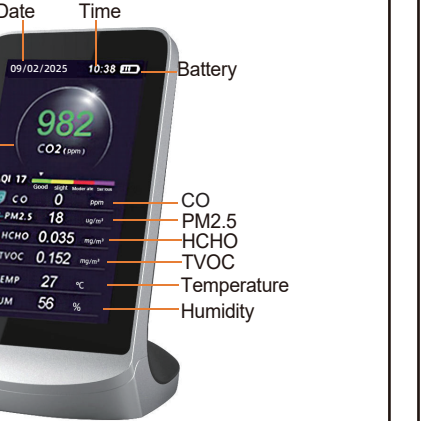
Air Quality Monitor Instruction Manual



25-08-V1-72

Product Description

This product is a multifunctional air quality monitor that combines various high-quality air sensors with a built-in fan to provide real time monitoring of Carbon Dioxide (CO₂), Particulate Matter (PM_{2.5}), carbon monoxide (CO), Formaldehyde (HCHO), Total Volatile Organic Compounds (TVOC), Temperature, Humidity and time on its digital LCD display. It supports data logging, export and download to computers for people to further study the patterns of air quality changes, thus taking effective measures.



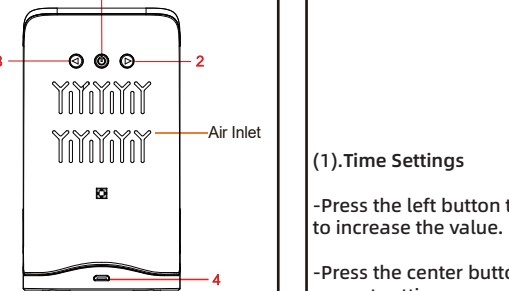
1

Instructions

Start Up

- In power-on state, long-press the center button to turn off the device.
- In shutdown state, long-press the center button to turn on the device.

Note: If you can't turn on the device, please plug in and charge it for a while first.



1	Center button	Confirms the current setting / advances to the next
2	Left button	Decreases values
3	Right button	Increases values
4	TYPE-C port	Charging Port

2

Setup Steps

Double-click the middle button. The screen will display Setup Mode, and you will first enter Time Settings

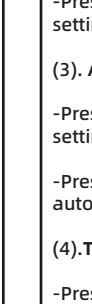


Figure 1

(1).Time Settings

-Press the left button to decrease the value; press the right button to increase the value.

-Press the center button to confirm the current setting.
-The system will automatically advance to the next setting item.

3

(2).Temperature Unit Switch

-Press the left or right button to switch between unit options (°C/°F).

-Press the center button to confirm and proceed to the next setting.

(3). Alarm On/Off

-Press the left or right button to toggle between ON/OFF (default setting is ON).

-Press the center button to confirm, and the system will automatically advance to the next setting.

(4).Temperature Compensation Setting

-Press the left or right button to set the "Temperature Compensation" (default value is 0.0°C).

-If the device displays a temperature higher than the actual value (e.g., actual is 25°C, device shows 26°C), press the left button to adjust the compensation value to "-1.0°C".

-If the device displays a temperature lower than the actual value (e.g., actual is 25°C, device shows 24°C), press the right button to increase the compensation value to "+1.0°C".

-After adjustment, press the center button to confirm the compensation value and proceed to subsequent settings.

4

(5).Interval Time Setting

-This interval time controls the time interval for data logging.

-Press the left or right button to toggle between options: 30 seconds, 60 seconds, 5 minutes, 10 minutes, 30 minutes, 60 minutes.

-Press the center button to confirm.

About Charging

When low battery icon is displayed, the device needs to be charged. Insert the included or another compatible Type-C 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.

Friendly Reminder:
The adapter must be 5V 1A or 5V 2A, using an adapter higher than 5V may damage the charging IC inside the device and affect its functionality.

5

Air Quality Standard

CO₂ Standard Reference Table :

CO ₂	Air Quality Level	CO ₂ Average Standard Value (ppm)
	Excellent	0-35
	Good	36-75
	Light Pollution	76-115
	Moderate Pollution	116-150
	Heavy Pollution	151-250
	Serious Pollution	>251

Note: The default alarm threshold for CO₂ is 1200ppm. When it reaches 1200ppm, the device will alarm sounds.

CO Standard Reference Table :

CO	Air Quality Level	CO Average Standard Value (ppm)
	Good	0-49
	Slight	50-99
	Moderate	100-200
	Serious	201-500

CO Alarm

- 50PPM-99PPM : Regular alarm
- 100PPM or more : Urgent alarm

6

PM2.5 Standard Reference Table :

PM2.5	Air Quality Level	PM2.5 Average Standard Value (ug/m ³)
	Excellent	0-35
	Good	36-75
	Light Pollution	76-115
	Moderate Pollution	116-150
	Heavy Pollution	151-250
	Serious Pollution	>251

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

HCHO(Formaldehyde) Standard Reference Table :

HCHO (Formaldehyde)	Air Quality Level	HCHO Average Standard Value (ug/m ³)
	Safety	<0.100
	Slight Pollution	0.101-0.200
	Moderate Pollution	0.201-0.300
	Heavy Pollution	>0.301

TVOC Standard Reference Table :

TVOC	Air Quality Level	TVOC Average Standard Value (ug/m ³)
	Safety	< 0.600
	Exceeding the standard can cause respiratory system abnormal, inflamed, cancerous, etc	> 0.601

7

How to export data to a Computer

1.Connect the device to computer by the coming USB data cable (see below)

Note: the product is in the powered on state.



2. Same time press and hold the Left and Right buttons simultaneously to enter data export mode.

3. Go to check computer, open (My Computer) - USB flash drive, you will find a file of MT-DATA, it is the historical data and records from the detector.



8

See below :

DATE	TIME	Temp (°C)	Temp (°F)	Hum (%)	PM2.5 (ug/m ³)	CO ₂ (ppm)	CO (ppm)	HCHO (mg/m ³)	TVOC (mg/m ³)	AQI
2025/7/23	3:23	0	0	0	0	420	0	0	0	0
2025/7/23	3:24	23.3	73.9	73.4	56	898	0	0.023	0.023	76
2025/7/23	3:24	23.4	74.1	72	59	1160	0	0.022	0.015	80
2025/7/23	3:25	23.6	74.5	73.1	59	1266	0	0.023	0.015	80
2025/7/23	3:25	23.8	74.8	70.8	60	1360	0	0.019	0.015	81
2025/7/23	3:26	0	0	0	0	420	0	0	0	0
2025/7/23	3:26	24	75.2	66.9	65	1380	0	0.017	0.068	87
2025/7/23	3:27	24.3	75.7	74.4	73	1224	0	0.022	0.016	97
2025/7/23	3:28	24.5	76.1	69.4	83	928	0	0.022	0.015	110
2025/7/23	3:29	24.5	76.1	70.1	79	846	0	0.021	0.019	105
2025/7/23	3:29	24.6	76.3	70.6	56	936	0	0.022	0.026	76
2025/7/23	3:30	24.7	76.5	70.7	54	861	0	0.021	0.025	73
2025/7/23	3:30	24.7	76.5	70.5	60	823	0	0.022	0.041	81
2025/7/23	3:31	24.7	76.5	70.2	59	775	0	0.021	0.04	80

Note:

- Quantity stored
The tester can store up to 4,000 pieces of data.
- Interval
The interval for storing data is 30 seconds.
- Storage format
The default storage data format is "CSV"
- Reading method
Connect the charging port of the device to the USB of the computer, and view the data stored in the "USB drive" in "My Computer" to store the data content.
Note: Please do not make any changes or edits to this file on the USB drive. We suggest that you copy it directly to your computer and then view and analyze the data.
- Precautions
Note that when the data reaches 4000 entries, the previous data will be automatically overwritten before continuing to be stored.
- Same time press and hold the Left and Right buttons simultaneously to Exit data export mode.

9

Tips

Tip 1: Strange Readings? Do This:

- Turn the device off for some time and then turn it back on again (effectively allowing the monitor to reset). After continuous use for extended periods, the device may simply need to be reset.
- 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, PM_{2.5}, and VOCs. Furthermore, how and what you cook determine the types of pollutants which will be released into the air.

10

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.

11

Product Specifications

Item	Air Quality Monitor
Product Size	145 x 78 x 97.2mm
Product Weight	235g
Display Method	LCD Screen
Measuring Item	CO ₂ , AQI, CO, PM _{2.5} , HCHO (Formaldehyde), TVOC, Temperature, Humidity
Detection method for CO ₂	Infrared (NDIR)
Detection method for CO	Electrochemistry
Detection method for PM _{2.5}	Laser Scattering
Detection method for HCHO	Electrochemistry
Detection method for TVOC	Semiconductor
Concentration unit for CO ₂	ppm
Concentration unit for CO	ppm
Concentration unit for PM _{2.5}	ug / m ³
Concentration unit for HCHO and TVOC	mg / m ³
CO ₂ measuring range	400-5000 ppm
CO measuring range	0-500 ppm
PM _{2.5} measuring range	0-999 ug / m ³
HCHO measuring range	0.001 - 1.999 mg / m ³
TVOC measuring range	0.001 - 9.999 mg / m ³
Atmospheric Pressure	12.5 PSI - 15.4 PSI
Sampling Time	1.5 Seconds
Temperature Range	-10°C - 50°C (14°F - 122°F)
Storage Temperature	-10°C - 60°C (14°F - 140°F)
Relative Humidity	20%-85%
Humidity Range	20%-85%
Power Source	3000 mAh Rechargeable Lithium battery, 5V DC Power Charging via TYPE-C Port

12

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.

Product List

Air Quality Monitor x 1

TYPE-C Charging Cable x 1

Product Manual x 1

13