Air Quality Monitor

Instruction Manual

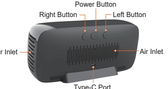


24-04-V2-197-WiFi

PROTECT YOUR AIR

This product is a multifunctional 9 in one air quality monitor with big digital LCD screen display, rechargeable Lithium-Ion battery, coming with Type-C charge cable.
It combines numerous different types of high-quality air sensors, real-time monitoring of carbon dioxide(CO2), formaldehyde(HCHO), total volatile organic compounds(TVOC), particulate matter(PM2.5/10), air quality index(AQI) indication, temperature, and humidity with clock. It is easy to operate, quality assurance worth buying.





HOW TO USE

Step 1: Long press Power Button to turn on the monitor.

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

Step 2: 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.

Note : This is necessary for accurate results. The HCHO has 200-second warm-up countdown time, which is shown in the HCHO value display area.

Step 3: The monitor with CO2(Carbon Dioxide) alarm function. See step-by-step details instructions on the next page.

Note : When you keep the CO2 alarm on, if the set alarm threshold is exceeded, the monitor will alarm with short beeps. And please be aware that the CO2 alarm will also automatically stop beeping when the CO2 value is decreasing while still above the specified threshold.

Step 4: Enjoy the added benefits of having a good air quality monitor in your home!

CO2 ALARM

The default CO2 alarm sound is OPEN. CO2 alarm value is 1000ppm. Double-press **Left Button** to turn on/off CO2 alarm sound.

CO2 CALIBRATION

In the power-on state, put the device in the outdoors or a place with good air.

Long-press **Right Button** for 8 seconds, and the CO2 value will flash when you hear a beep sound.

At this state, CO2 value flashes will stop automatically and finish calibration after flashing lasts for 5 minutes. Do not touch any buttons during calibration.

HCHO CALIBRATION

In the power-on state, put the device in the outdoors or a place with good air.

After 5–10 minutes, long press **Left Button** for 3 seconds will emit a beep sound and the HCHO/TVOC value will reset to zero.

TEMPERATURE UNIT

The default temperature unit is Celcius(°C).
Double-press **Right Button** to to switch between Celcius(°C) and Fahrenheit(°F).

TIME SETTING

In the power-on state, double-press **Power Button** to enter the time setting mode.
Single-press **Left / Right Buttons** to set the hour, then Single-press **Power Button** to enter the minute setting.
Single-press **Left / Right Buttons** to set the minute.
After setting well, single-press **Power Button** to confirm.

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 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.

PARAMETERS

	Measurement Range	Measurement Method	Resolution	Measurement Accuracy
CO2	400-5000ppm	Infrared(NDIR)	1 PPM	±50 PPM or 5%
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 (14°F - 122°F)	Semiconductor	1°C (1.8°F)	±1°C (±1.8°F)
Humidity	20% - 85%	Semiconductor	1%	±4%

HOW TO INTERPRET READINGS

	Good	Acceptable	Unhealthy	Very Unhealthy
CO2	400 - 1000	1001 - 2000	2001 - 3000	3001+
TVOC	0-0.5	0.6-1.0	1.1-3.0	3.1+
PM10	0-100	101-200	201-350	351+
Temperature	18°C-26°C, 65°F-79°F	<18°C or >26°C, <65°F or > 79°F		
Humidity	30-60%	<30% or >60%		

AQI LEVEL INDICATOR



AQI Level Indicator				
PM2.5	0-75	76-150	151-300	301+
HCHO	0-0.100	0.101-0.200	0.201-0.500	0.501+

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

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 readings.

- **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	188 x 42 x 88mm
Product Weight	331g (11.68 oz)
Display Method	LCD Screen
Measuring Item	CO2, PM2.5, PM10, AQI, HCHO (Formaldehyde), TVOC, Temperature, Humidity
Detection method for CO2	Infrared (NDIR)
Detection method for PM	Laser Scattering
Detection method for HCHO/TVOC	Semiconductor sensor
Concentration unit for CO2	ppm
Concentration unit for PM	ug / m³
Concentration unit for HCHO and TVOC	mg / m³
CO2 measuring range	400-5000 ppm
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 (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

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

How to connect device to an Android or Apple iOS smartphone via TuyaSmart App

1.APP Download

Quick download APP by scanning QR code as following.

Or Download and install the Tuya Smart App through the Google Play Store or Apple App Store, or scan the above QR code to download the Tuya APP, then register and login.

This device supports 2.4GHz WiFi, not support 5GHz WiFi router. Make sure the router is 2.4GHz connection.

2.Add Device

① Turn on the Bluetooth function of your mobile phones
Make it sure your mobile phones have connected a WiFi network

② Turn on the device,when pairing mode is enabled,
the Wi-Fi icon on the device will blink rapidly

③ Open the tuya APP home page,
click on 'Add device' or press ' + ' in the upper right Corner,
the app will start searching for nearby devices,
then the nearby device symbol will display,
follow the instruction step by step to the connect.

④ After connect successfully,click "Done".