Air Quality Monitor

Instruction Manual



24-04-V3-69 WIFI

Protect Your Air

This is an advanced multifunctional 9 in one air quality monitor that detects carbon dioxide (CO2), particulate matter (PM2.5/10), formaldehyde (HCHO), total volatile organic compounds (TVOC), air quality index (AQI), temperature, and humidity with time function. 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.

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

Time Setting

a) Single-press **Power Button** 3 times to enter the hour/minute mode sequentially, and the selected value will flash.

b) Single-press **Left Button** to increase the hour/minute value；
Single-press **Right Button** to decrease the hour/minute value.

c) Single-press **Power Button** to confirm/enter the next mode or to complete the time setting.

Temperature Unit

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

Calibration Data

a) Calibration data are HCHO and TVOC.

b) Long-press **Left / Right Button** for 3 seconds will emit a beep sound, and the values are reset to zero.

CO2 Alarm

a) The CO2 Alarm value is 1000ppm

b) The CO2 Default alarm sound is ON.

c) Double-press **Left Button** to turn on / off the alarm sound.

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
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	Green	Yellow	Orange	Red
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 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	190 x 80 x 52mm
Product Weight	350g (12.35 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 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.

Product List

Air Quality Monitor	x 1
USB Charging Cable	x 1
Product Manual	x 1

How to connect your device to an Android or Apple iOS smartphone via Tuya Smart App

1. Download and install the Tuya Smart App through the Google Play Store or Apple App Store.Or to scan QR code （Picture 1） to download the Tuya APP, then registration and login it.

2. Turn on the air quality monitor by long pressing the center button.

3. Connect your phone to a WiFi network and open the Tuya Smart App.

4. Select Add Device, then Click the scan icon in the upper right corner of Tuya interface (Picture 2), and scan the QR code (Picture 3) to connect and follow the instructions of Tuya interface.

Picture 1

Picture 2

Picture 3