Air Quality Monitor

Instruction Manual



24-02-V3-73B WIFI

Protect Your Air

This is an advanced multifunctional 10 in one air quality monitor that detects carbon dioxide (CO2), particulate matter (PM2.5/1.0/10), formaldehyde (HCHO), total volatile organic compounds (TVOC), air quality index (AQI), temperature, and humidity with time, records and WiFi 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 your can't turn on the monitor, please plug in and charge it for a while first.

Switching Data Display Formats (Figure 1-5)

a) Single-press **Left / Right Button** to switch among data display formats (figures1-5) that displays air quality readings in various formats:



Figure 1

Figure 2

Figure 3



Figure 4

Figure 5

Setting

a) Long-press **Menu Button** to enter the **SETUP** interface.

b) Single-press **Left / Right Button** to increase / decrease values or to select options in Setup.

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

Unit: press **Left / Right Button** to switch the temperature unit (°C/°F).

Buzzer Set: press **Left / Right Button** to switch the HCHO alarm sound (on/off).

Note:

Default factory value alarm threshold levels for HCHO : 0.1mg/m³. When reaching 0.1mg/m³ , monitor will alarm.

HCHO (formaldehyde) ideal range: ≤0.10 mg/m³.

if you feel that the alarm sounds is noisy, you can turn "Buzzer : off".

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 >=100mA. Fully charge for at least 2-3 hours before use. Avoid charging with a USB computer port which only outputs 500mA.

Air Quality Standard

CO2 Standard Reference Table :

	Air Quality Level	CO2 Average Standard Value (ppm)
CO2	Good	400-800
	OK	801-1200
	Poor	1201-5000

PM2.5 Standard Reference Table :

	Air Quality Level	PM2.5 Average Standard Value (ug/m³)
PM2.5	Excellent	0-35
	Good	36-75
	Light Pollution	76-115
	Moderate Pollution	116-150
	Heavy Pollution	151-250
	Serious Pollution	>251

HCHO(Formaldehyde) Standard Reference Table :

	Air Quality Level	HCHO Average Standard Value (ug/m³)
HCHO (Formaldehyde)	Safety	<0.100
	Slight Pollution	0.101-0.200
	Moderate Pollution	0.201-0.300
	Heavy Pollution	>0.301

TVOC Standard Reference Table :

	Air Quality Level	TVOC Average Standard Value (ug/m³)
TVOC	Safety	< 0.600
	Exceeding the standard can cause respiratory system abnormal, inflamed, cancerous, etc	> 0.601

AQI Standard Reference Table :

	Pollution Level	AQI Quality Index
AQI	Good	0-50
	Slight	51-100
	Moderate	101-200
	Serious	201-500

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

Tips

Tip 1: Strange Readings? Do This:

1. 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.
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 determine 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	132.5 x 79 x 82.3mm
Product Weight	275g (9.7 oz)
Display Method	LCD Screen
Measuring Item	CO2, PM2.5, PM10, PM1.0, 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 3

Picture 2