Air Quality Monitor Instruction Manual



Product Description

This product is a multifunctional air quality detector that detects Ozone(O3), Total Volatile Organic Compounds (TVOC), Particulate Matter <2.5 micron-sized particles (PM2.5/1.0/10), Temperature, and Humidity with clock and record function. As a scientific air quality detection device, it combines multiple air sensors with a built-in fan to allow real-time monitoring of Ozone(O3), total volatile organic compounds (TVOC), PM2.5/1.0/10, temperature, and humidity on its digital LCD display.

Description of accessories Air Quality Monitor Micro USB Charging Cable

Product Manual

air quality readings.

TVOC (To Please read the instructions carefully before using this device. Please calibrate the device outdoors before use for most accurate results.

Organic C Please keep the manual handy for quick reference and troubleshooting Battery

Avoid covering the air intake areas during use to avoid inaccurate

Power But Avoid use of solvents to clean the product as residual fumes will skew

Avoid water or other liquids near the product to avoid electrical damage.

Do not allow unauthorized modification or repair of this product.

Start Up Long-press power or power button, the air quality monitor will boot up. Detector will proceed through its warm-up sequence for about 3 minutes to allow sensors to preheat and fan to draw in fresh ambient air. This is necessary for accurate results. Countdown timer showing remaining time for warm-up sequence is shown in the TVOC display area. **Note 1 :** If you can't turn on the monitor, please plug in and chargeit for a Note 2: To ensure the accuracy of readings, please keep the product standing when using it and do not lay it flat, which may block the ventilation opening. In the power on state, press and hold the power button for 3 seconds 000 to turn it off **Switch Display Formats**

| 1 | PM2.5 Value | 2 | Ozone(O3)Value | Press the up or down buttons to switch among data display formats (figures 1-3) that displays air quality readings in various formats: | | | |
|----|---|----|-----------------|--|--|--|--|
| 3 | TVOC (Total Volatile Organic Compound) Value | 4 | Temperature | 2023/10/01 11:00 11 2023/10/01 11:00 11 2023/10/01 | | | |
| 5 | Battery | 6 | Humidity | PM2.5 | PM2.5 027 up/m² PM1.0 017 up/m² PM1.0 035 up/m² Good ug/m³ | 30 | |
| 7 | Up Button | 8 | Exit Button | 028 | | Good ug/m³ | |
| 9 | Power Button | 10 | Down Button | 0 / /399 ug/m³ | TVOC 0.031 mo/m² | $\begin{array}{cccc} \textbf{O3} & 0.16 & ppm \\ \textbf{TVOC} & 0.027_{mg/m^3} \end{array}$ | |
| 11 | PM2.5 pollution grade | 12 | Time | O3 0.13 ppm TVOC 0.023 mg/m ³ | ним 69 % | 1 TEMP | |

1. Switching Among Data Display Formats (Figure 1-3)

2023/10/01 11:00

Press powe button to enter the Menu or Options screen.

2. Menu Interface (Figure 4)



(4) Press power button to confirm the selection

3. System Settings (Figure 5)

After navigating to and highlighting "System Set" icon with up/down button (2) Press power button to enter within the Menu screen (figure 4), press power button to select and enter (3) Choose between the following options with up/down button: never, "Configure System" screen. 30minutes, 60 minutes, 90 minutes



(2) Press power button to enter

Interface Style

(1) Navigate to "Style"

Alarm Threshold

Record Clearing

Shutdown Time

(1) Navigate to "Alarm HTL"

with up/down button

(1) Navigate to "Clear Log"

(1) Navigate to "Off Time"

(2) Press power button to enter

(2) Press power button to enter

(4) Press power button to confirm the selection

(4) Press power button to confirm the selection

- (3) Choose preferred background style using up/down button there are 6 options: Black.Purple.Red.Yellow.Blue.Pink.
- (4) Press power button to confirm the selection

Note: the screen will shut off automatically if there is no user input to help

preserve battery life. However, device itself will remain active if set to " never."

(3) Choose among 4 alarm threshold levels for O3: 1.00,2.00,4.00,8.00 ppn

Language Switching

- (1) Navigate to "Language"
 - (2) Press power button to enter (3) Choose language options using up/down button
- (4) Press power button to confirm the selection

Screen Brightness

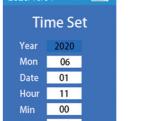
- (1) Navigate to "Brightness"
- (2) Press power button to enter
- (3) Use up/down button to choose from 10% to 80% brightness
- (4) Press power button to confirm the selection

Buzzer

- (1) Navigate to "Buzzer Set"
- (2) Press power button to enter
- (3) Use up/down button to choose the options : open , close
- (4) Press power button to confirm the selection (3) Use up/down button to choose among options : Keep , Clean

4. Time Setting (Figure 6) After navigating to and highlighting "Time Set" icon with up/down button within

the Menu screen (figure 4), press power button to select and enter "Time Set" screen (figure 6).



Change the Year, Month, Date, Hour, Minute, and Seconds using up/down button and confirm each change by pressing power button. When finished. press the Exit key (slender minus-shaped button), after which the following will

Press the power button to confirm and save changes. Press the Exit key to

5. History (Figure 7) After navigating to and highlighting "History" icon with up/down button within

the Menu screen (figure 4), press power button to select and enter "History" screen (figure 7). Graph shows the last 10 data values for O3, temperature. humidity, and PM2.5 taken every 10 minutes over the previous 100 minutes.



6. Real-Time Measurement (Figure 8)

After navigating to and highlighting "Actual Data" icon with up/down button within the Menu screen (figure 4), press power button to select and enter "Real-Time Detection" screen (figure 8). This screen shows the raw data from the TVOC and O3 sensors without any averaging over time that reduce variations and signal noise in the air quality readings.

Pollution level

Figure ®

After navigating to and highlighting "About Us" icon with up/down button within the Menu screen (figure 4), press power button to select and enter "About Us" screen to view our company information.

When low battery icon is displayed, the device needs to be charged. Insert the

included or another compatible micro USB 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.

Measurement
RangeMeasurement
MethodResolutionMeasureme
Accuracy PM2.5/1/10 0-999 ug/m³ Laser Scattering 0.001-9.999 mg/m³ Semiconductor Temperature Semiconductor

PM2.5 pollution grade

Humidity 20%-85% Semiconductor

| Grade | Good | Slight | Moderate | Serious |
|-------------|-----------|-------------|--------------|--------------------------|
| Value Range | 0~75ug/m³ | 76~150ug/m³ | 151~300ug/m³ | 301~999ug/m ³ |

O3(Ozone) ideal range: <1.00ppm TVOC ideal range: <0.6 mg/m³

PM2.5 ideal range: ≤75ug/m³

Note 1: The default alarm value of Ozone: 1.00 ppm. The Ozone alarm threshold can be setted to 1.00ppm .2.00ppm .4.00ppm or

8.00 ppm. When the levels of O3 exceed the setted alarm threshold, the device will alarm with short beeps.

Detection method for TVOC Concentration unit for PM ug/m³ Concentration unit for O3 ppm Concentration unit for TVOC -10°C to 60°C; 14°F to 140°F 86Kpa - 106Kpa Atmospheric pressure Lithium battery with 1200 mAh

(6.1 x 3.4 x 1.7 Inches) 350g (12.35 oz) 2.8" LCD screen display, 320 x 240 pixels 1.5 seconds Detection method for PM Laser Scattering Detection method for O3 | Electrochemistry Semiconductor PM2.5/1/10 :0-999 ug/m³ Ozone:0.00-50.00 ppm/m³ TVOC: 0.001-9.999 mg/m³ 20% - 85% -10°C to 50°C: 14°F to 122°F

Product Specifications

Note 2: If the "Buzzer Set" is in the "Close" state, the alarm will not be activated even the Ozone (O3) concentration reaches the (set) alarm threshold. Detection range Relative humidity

24-11-V3-502-O3

Temperature Unit

1) Navigate to "Temp Unit"

(2) Press power button to enter

(3) Choose between °C or °F with up/down button

(4) Press power button to confirm the selection

Power source

capacity; 5V DC power charging via