

Air Quality Monitor Instruction Manual

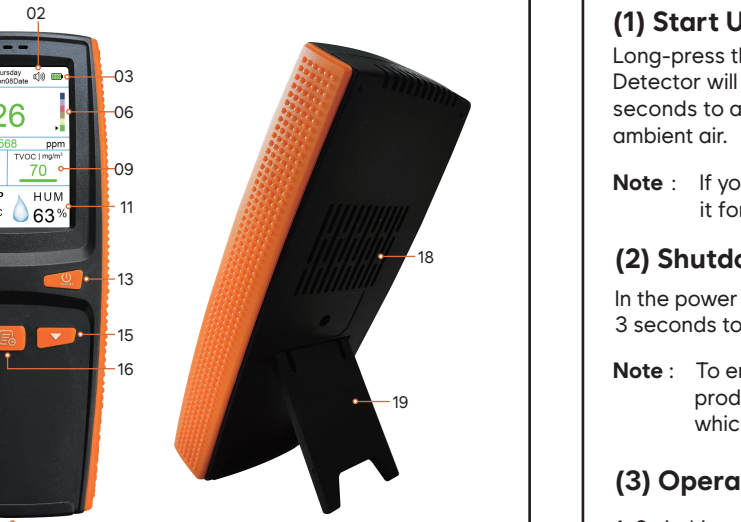


Product Description

It is a 10-in-1 multifunctional air quality detector that not only monitors various air quality indicators in real time, but also has data storage, export, and download functions, allowing you to have a thorough understanding of the air around you. Accurately detecting key indicators CO₂, PM_{2.5}/10/1.0, formaldehyde, TVOC, temperature, humidity, AQI to comprehensively present the real situation of air quality for you. It is built in storage space, capable of continuously recording air quality data, it can faithfully preserve historical information of air quality, providing you with long-term and reliable reference. Through simple operations, stored data can be quickly exported. Provide you with data analysis to clearly understand the changing trends of air quality and provide scientific basis for improving the environment. When the air quality exceeds the healthy range, you can quickly take corresponding measures to protect your own and your family's respiratory health.

Description of accessories

Item	Quantity
Device	1
USB cable	1
English Manual	1



01 Time	02 Alarm
03 Battery	04 Calendar
05 PM2.5	06 PM2.5 Level
07 CO2	08 HCHO (Formaldehyde)
09 TVOC	10 Temperature
11 Humidity	12 Exit Button
13 Power Button	14 Up Button
15 Down Button	16 Menu Button
17 Micro USB port	18 Air Inlet
19 Back Bracket	

Instructions

(1) Start Up

Long-press the power button, the air quality monitor will boot up. Detector will proceed through its warm-up sequence for 200 seconds to allow sensors to preheat and fan to draw in fresh ambient air.

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

(2) Shutdown:

In the power on state, press and hold the power button for 3 seconds to turn it off.

Note : 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.

(3) Operation:

1. Switching Among Data Display Formats (Figure 1-2): Press the up or down buttons to switch among data display formats.

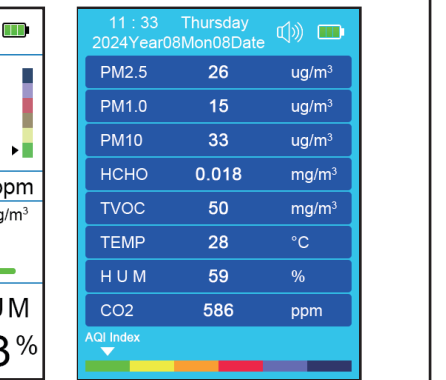


Figure 1

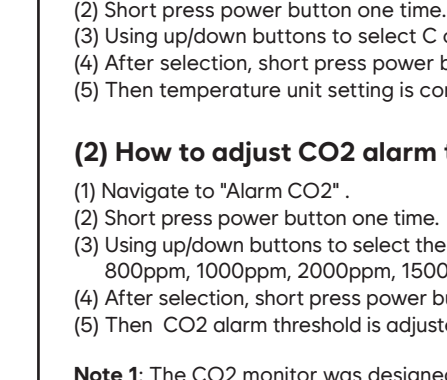
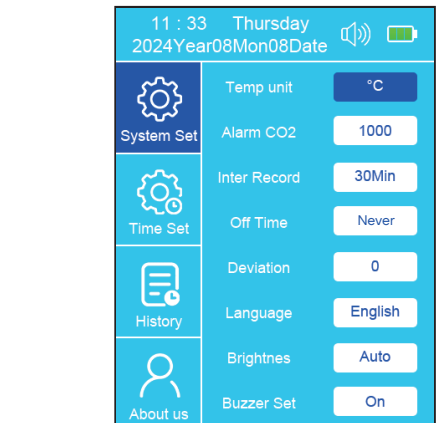


Figure 2

System set

Press Menu Button to enter the settings interface (see below)



(1) How to Switch Temperature Unit

- Navigate to "Temp Unit".
- Short press power button one time.
- Using up/down buttons to select C or F.
- After selection, short press power button one time again.
- Then temperature unit setting is complete.

(2) How to adjust CO2 alarm threshold

- Navigate to "Alarm CO2".
- Short press power button one time.
- Using up/down buttons to select the alarm threshold options: 800ppm, 1000ppm, 2000ppm, 1500ppm.
- After selection, short press power button one time again.
- Then CO2 alarm threshold is adjusted completely.

Note 1: The CO2 monitor was designed with a built-in CO2 alarm, this CO2 alarm beeps when the CO2 levels surpass the threshold which you set.

Interval time

- Navigate to "Inter Record".
- Short press power button one time.
- Using up/down buttons to select the time options: 10 seconds, 1 minute, 5 minutes, 10 minutes, 30 minutes, 50 minutes.
- After selection, short press power button one time again.
- Then the interval time is setted completely.

Off Time

- Navigate to "Off Time".
- Short press power button one time.
- Using up/down buttons to select the time options: "Never", "30 minutes", "20 minutes", "10 minutes".
- After selection, short press power button one time again.
- Then the Off Time is setted completely.

Temperature Numerical Compensation Settings

- Navigate to "Deviation".
- Short press power button one time.
- Using up/down buttons to select the options: "0,+1,+2,+3,+4,+5,-5,-4,-3,-2,-1".
- After selection, short press power button one time again.
- Then the temperature compensation is adjusted completely.

Language

- Navigate to "Language".
- Short press power button one time.
- Using up/down buttons to select the options: "Chinese,English".
- After selection, short press power button one time again.
- Then the Language is completely setted.

Brightness

- Navigate to "Brightness".
- Short press power button one time.
- Using up/down buttons to select the options: "Auto, 30%, 50%, 80%".
- After selection, short press power button one time again.
- Then the Brightness is completely adjusted.

Buzzer set

- Navigate to "Buzzer set".
- Short press power button one time.
- Using up/down buttons to select the options: "Off, On".
- After selection, short press power button one time again.
- Then the Buzzer set is complete.

History record

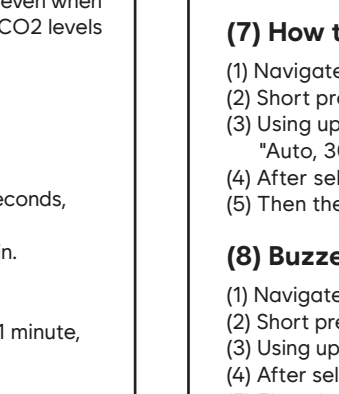
- Navigate to "History".
- Press menu button again, Press up and down button to switch to view the Graphs show the last 30 data values of CO2 PM2.5 \ Formaldehyde \ Temperature\Humidity.

Note 2: The CO2 alarm's default setting is ON . The CO2 alarm can be turned on or off by setting Buzzer "off / on ". Exposure to less-than-optimal CO2 levels for an extended period of time may not be healthy and it is therefore recommended to keep this CO2 alarm function turned on.

Note 3: If you have elected to keep the " Buzzer Set " on, please be aware that the CO2 alarm will stop beeping automatically even when CO2 levels are still above your specified threshold if the CO2 levels are decreasing.

Time Setting

Press the Menu button, Navigate to " Time set " using Menu button again, Press up and down button to switch to view the Graphs show the last 30 data values of CO2 PM2.5 \ Formaldehyde \ Temperature\Humidity.



Company Profile

Diennern has focused on the field of gas detection and dust detection for years, persisting in independent research and production and constantly applying the latest technology to the product area. We adhere to the scientific technological innovation and the professional enterprise concept firmly believing that obtaining Customers recognition and trust through the product quality and our professional services

How to export data to a computer

- Press the power button to turn on the device.
- Connect the device to computer by the coming USB date cable.
- Quick press the power button twice.

Note: there is an icon of USB drive on the device's LCD display, which indicates that the datas are successfully exported to computer. (see below)



Press power button 2 times

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.

computer

USB Drive (E)
178 KB free of 366 KB

See below :

DATE	TIME	Temp (°C)	Hum (%)	PM2.5 (ug/m³)	CO2 (ppm)	HCHO (mg/m³)	TVOC (ug/m³)	PM10 (ug/m³)	PM1.0 (ug/m³)
2024/3/9	15:06	23.9	70.8	6	427	0	0	7	3
2024/3/9	15:06	24	71.5	39	426	0.024	0	52	25
2024/3/9	15:32	22.3	74.2	27	435	0.033	0.237	34	16
2024/3/9	15:33	22.2	74.3	28	436	0.034	0.24	37	17
2024/3/9	15:33	22.2	74.3	27	436	0.034	0.24	35	17
2024/3/9	15:33	22.3	74.5	27	436	0.033	0.242	35	17
2024/3/9	15:33	22.3	74.6	30	433	0.035	0.237	38	18
2024/3/9	15:33	22.3	74.5	29	437	0.033	0.242	37	17
2024/3/9	15:33	22.3	74.8	28	442	0.034	0.24	36	17
2024/3/9	15:34	22.3	74.5	26	443	0.032	0.245	34	17
2024/3/9	15:34	22.3	74.3	27	445	0.033	0.24	34	15
2024/3/9	15:34	22.4	74.2	28	443	0.033	0.242	37	18
2024/3/9	15:34	22.4	74.2	28	440	0.033	0.242	36	17
2024/3/9	15:34	22.4	74.3	28	437	0.034	0.242	36	17
2024/3/9	15:34	22.4	74.2	29	435	0.032	0.242	36	16
2024/3/9	15:35	22.5	74	27	431	0.033	0.25	35	16
2024/3/9	15:35	22.5	73.9	28	430	0.03	0.248	37	18
2024/3/9	15:35	22.5	73.7	27	429	0.033	0.252	35	17
2024/3/9	15:35	22.5	73.7	28	428	0.032	0.255	35	16
2024/3/9	15:36	22.6	73.6	27	425	0.035	0.258	35	16
2024/3/9	15:36	22.6	73.6	26	425	0.034	0.258	33	15
2024/3/9	15:36	22.6	73.4	27	426	0.032	0.252	34	15
2024/3/9	15:36	22.7	73.3	27	431	0.032	0.255	35	16
2024/3/9	15:36	22.7	73.3	27	430	0.033	0.254	35	17
2024/3/9	15:36	22.7	73	30	430	0.03	0.25	38	18
2024/3/9	15:37	22.7	72.8	33	431	0.033	0.255	44	21
2024/3/9	15:37	22.8	73	30	429	0.034	0.254	37	17
2024/3/9	15:37	22.8	73	26	426	0.033	0.255	32	14
2024/3/9	15:37	22.8	73.1	27	425	0.031	0.252	35	16

Note : If the data reaches 4000 entries, the previous data will be automatically overwritten before continuing to be stored.

Prameters

	Measurement Range	Measurement Method	Resolution	Measurement Accuracy
CO2	400-5000ppm	Infrared(NDIR)	1 PPM	50 PPM ±5%
PM2.5	0-999 ug/m³	Laser Scattering	1ug/m³	±10ug/m³(0-100ug/m³) ±10%(≥100ug/m³)
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 0.1°F	±2°C ±2°F
Humidity	20% - 85%	Semiconductor	1%	±4%

Power Source

1500 mAh Rechargeable Lithium battery, Charging via Micro USB Port

Product Specifications

Product Size

Product Weight

Display Method

Measuring Item

Detection method for CO2

Detection method for PM

Detection method for HCHO

Detection method for TVOC

Concentration unit for CO2

Concentration unit for PM

Concentration unit for HCHO and TVOC

CO2 measuring range

PM2.5/10 measuring range

HCHO measuring range

TVOC measuring range

Atmospheric Pressure

Sampling Time

Temperature Range

Storage Temperature

Relative Humidity

Humidity Range

About Charging

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.