

CO₂ Monitor-1200P

Instruction Manual









Getting Started

Thanks for purchasing our CO2 Monitor 1200P with memory and storage. Developed to detect CO2 concentration, temperature and relative humidity in ambient air, this device is smart, compact and easy to use. It automatically records data and can be easily exproted to a computer into an Excel file format.

GZAIR provides full after-sales service to any customers. If you have any questions or concerns, please email us via **gzairservice@outlook.com** and we will answer you within 24 hours.

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Tips

Icons description:



explain:

- The button only works when the backlight is on. Click any key to light the backlight.
- Please press quickly and gently, don't press hard, or hold for long.

1 Attention

Please read this manual carefully and keep it properly for future reference.

This device is not intended for workplace hazard CO2 monitoring, nor is it intended as a definitive monitor for human or animal health institutions, life sustenance, or in any medically-related situation.

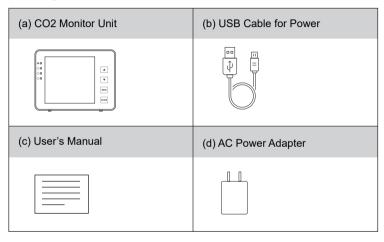
⚠warning

In order to avoid and reduce risks and equipment damage, please:

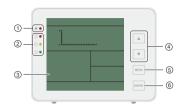
- Keep out of reach for children and use it under adult supervision.
- Do not store, use or set this product in or near inflammable or explosive places.
- Do not touch the device, USB cable, or power adapter with wet hands.

2 Product introduction

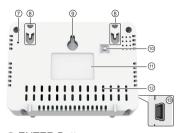
1 Packing list



2 Name



- ① Power indicator light (Green LED)
 - It is always on when the power is on and flickers when charging
- ② Tricolor indicator → 9
- ③ LCD Display \rightarrow 6-7
- ④ UP/DOWN Buttons
 - Used to toggle selection or adjust values
- **5 MENU Button**
 - Activate the menu bar and exit



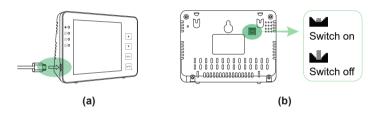
- **® ENTER Button**
 - Determine the menu items and set values in the selection
- 7 Hole for Buzzer
- Hole for Rope
 - Use for hanging the device on the wall
- Hole for Screws
 - Use for wall-mounted
- Switch button ② Vent
- 11 Label

USB Port

3 How to use

Initial setup

When first unboxing, plug the included USB cable into the unit and the other end into USB power source, then press the switch on the back.



If successfully connected, three things will happen while booting up:

- 1. 4 LEDs flash one by one
- 2. The interface will display low alarm point, high alarm point.
- 3. Main display shows a countdown from 30.

 Once the countdown is complete, your product is ready to use. No initial setup or calibration is needed.



(Detecting interface)

Power supply:

- 1. Direct power from power adapter and USB cord.
- 2. Built-in battery power.
- 3. Computer USB port and purchased regular and qualified cell phone charger.

2 LCD display

- (a) Battery icon →8Display battery level and battery status
- (b) Date/time
 Displays the current date and time
- (c) Chart

 Display the curve of CO2, temperature and humidity

(d) CO2 Reading areaDisplays the current CO2 concentration



- (e) Humidity Reading area
 - · Displays the current humidity
 - Display Lo and HI, indicating low / high alarm point
- (f) Temperature Reading area
 Displays the current temperature
- (g) Main Menu options



3 battery

Battery indicator

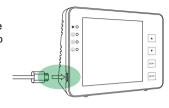
Low battery : steady green indicator (Charge

the device within 20 minutes to

avoid battery damage)

Charging : flashing green indicator

Fully charged: steady green indicator



Battery recharging

When the device is ON, plug in USB cable power

Charging time: 2.5 hours (Charge extra 30 minutes after the indicator turning from

red to green)

Working time: 8-10 hours

4 Alarm

(1) Buzzer sounds →13





When the buzzer icon displays . an audible alarm will sound if the CO2 level exceeds preset CO2 alarm value; `\(\) means MUTE.

- (2) Light tips
 - Human model

Red LED on : CO2 reading ≥ High alarm point

Yellow LED on: Low alarm point < CO2 reading < High alarm point

Plant model

Red LED on : CO2 reading ≤ Low alarm point

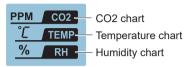
Yellow LED on : CO2 reading ≥ High alarm point

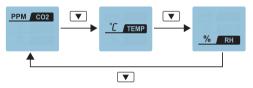
Green LED on : Low alarm point < CO2 reading < High alarm point</p>

Mode switching and high / low alarm point setting → 16

5 Trend Chart Display

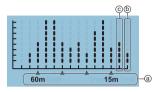
(a) Switching table objects





** The instrument default CO2 chart, when switching to temperature or humidity chart, no operation for a period of time will automatically jump back to CO2 chart.

(b) Switching the timeline and view the max/min value



- (a) m: minute; h: hour; d: day
 On this timeline, one column represents 5 minutes.
- ⑤ Indicates the data within 5 minutes from the current time
- © Indicates the data generated within the last 5 to 10 minutes based on the current time
- - *The default timeline is one minute per grid. When you switch to another timeline, after no operation for a period of time, it will return to the default.
- You can view the maximum and minimum values of CO2, temperature and humidity from startup to current period.

Method: Press to switch , press to switch to switch

(c) View the data in each column of the table $\rightarrow 14$

4 How to set up

1 Restore factory defaults

In detection panel, hold with until an audible beep is heard.

2 The menu Settings



- Press MeNU once to activate the menu bar, press A / T to cycle and switch function options. (Blinking Indicates the selection status)
- When ♠ blinks, press MENU to exit the menu bar.
 - ** The menu bar automatically exits after no operation is performed for a period of time.

(a) Alarm

 When ♣ / ♣ blinks, press য় to enter Settings, press ▲ / ▼ to switch, and press য় to complete.



(b) Set the time

When ⊕ blinks, press

 to enter the choice, press

 / ▼ to switch Options.

Example:



• When an item blinks, press NTER to enter the setting, press ▲ / ▼ to adjust the value, press NTER to switch to the next item, press NEW to exit.



If **AM** and **PM** are blinking at the same time, press even to set the mode to 24 hours.

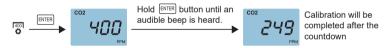
(c) View the data in each column of the table

When ₺ blinks, press rest to view the table, press ▲ to select the columns of the chart and ▼ to toggle the timeline.

- Data for each column of the chart will be displayed in the CO2, temperature and humidity display area.
- Press MENU or no operation for a period of time will exit.

(d) Calibration

Before calibration, run this device for at least 20 minutes with window open or in outdoor environment with backup battery to reach an atmosphere with 400ppm CO2. Wait till the CO2 reading is stable, then follow below steps for calibration. After calibration, leave it 10 minutes before normal use.

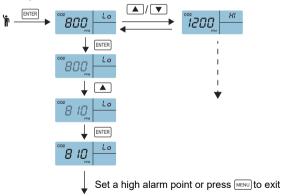


* Make sure enough electricity before calibration.

(e) Human/Plant model



Example:



15

Specifications

CO2 Measurement				
Measuring range	(0-5000)ppm			
Display resolution	1ppm (0-1000); 5ppm (1000-2000); 10ppm (>2000)			
Sensor lifetime	10-15 years			
Accuracy	(0~3000)ppm: ± (50ppm + 5% of reading) (>3000)ppm: ± 7% of reading			
Repeatability	20ppm at 400ppm			
Temp compensation	±0.1% of reading per °C ±2 ppm per °C, referenced to 25 °C			
Response time	< 2 min for 63% of step change or $<$ 4.6 min for 90% step change			
Warm-up time	<30 seconds			
Temperature Measurement				
Operating temperature	32°F ~ 122°F (0°C ~50°C)			
Accuracy	±2°F/±1°C			
Display resolution	1°F / 0.1°C			
Response time	<20 minutes (63%)			

RH Measurement		
Measuring range	5~95%	
Accuracy	±5%	
Display resolution	1% Main interface display , 1% Max/Min display	
Data storage capacity	2GB	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)	
Operating & storage RH	0-95%(non-condensing)	
Operating Voltage	DC(5±0.25)V	
Dimension	120*90*35mm	
Weight	190g	

^{¾ Typical test conditions: Ambient Temp: 23 ± 3°C, RH=50%~70%, Altitude= 0~10 meters}

6 Operation mode

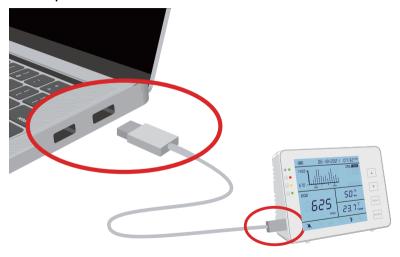
You can log in to https://www.gzair.top/data-logger/ to learn more

- 1 Set the time and date of the CO2 Monitor and synchronise it with your computer.
 - ** This step is important in order for your CO2 Monitor to be able to correctly record when each sample is received.

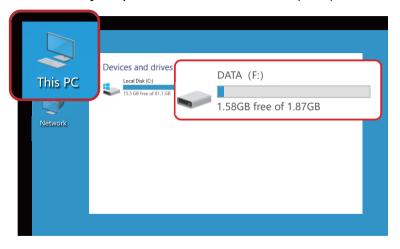




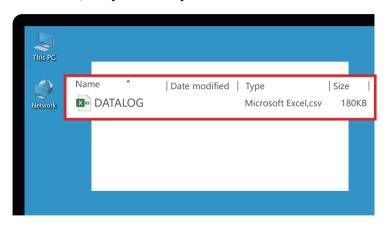
2 To check the recorded data, connect the CO2 Monitor to your computer with the provided USB cable.



3 Double-click 'My computer' and select the USB drive (DATA).



4 Find the file, copy it to a folder on your computer, open it and re-save it in Excel format, now you can analyse and edit the file.



5 Open the file.

The file is shown in the figure below

113	*						
	А	В	С	D	Е	F	G
1	DD-MM-YYYY	Time	CO2[ppm]	Temp[C]	RH[%]		
2	13-05-2022	8:33	667	26.1	16		
3	13-05-2022	8:38	651	26.1	16		
4	13-05-2022	8:43	587	26.1	15		
5	13-05-2022	8:48	694	26.1	17		
6	13-05-2022	8:53	670	26	16		
7	13-05-2022	8:58	586	26	16		
8	13-05-2022	9:03	596	26	16		
9	13-05-2022	9:08	637	25.9	17		
10	13-05-2022	9:13	633	25.9	16		
11	13-05-2022	9:18	654	25.9	16		
12	13-05-2022	9:23	715	25.8	17		
13	13-05-2022	9:28	662	25.8	17		
14	13-05-2022	9:33	668	25.8	17		

6 log in to https://www.gzair.top/data-logger/ to learn more.

- (a): Upload the copied files from the instrument
- (b): Select time precision for chart display
- (c): View the instructions

