CO₂ Monitor-SA₁₂₀₀P

Instruction Manual











This manual and its contents are only for the operation and use of this product and cannot be used for other purposes.

This manual and its content inevitably contain errors or discrepancies from reality, and are for reference only. If there are discrepancies or doubts, please contact our company.

The functions and specifications are subject to change without prior notice.

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Getting Started

Thanks for purchasing our desktop CO2 monitor! This product is used to monitor CO2 concentration, humidity(RH) and temperature(TEMP) for indoor air quality monitoring.

Packing List

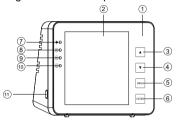
CO2 Monitor Unit USB Cable for Power User's Manual AC Adapter (Optional)

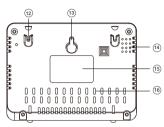
Features at a Glance

Large Display
Touch Button Operation
15° Bevel Design, Easy to Read
Low Drift NDIR Sensor, Long Lifespan
Audible and Visible Alarm
Chart with Variable Time Zoom Levels
CO2/RH/Temperature Monitor Tracer
Auto-Calibration and Manual Calibration
Max/Min Value Display in Certain Time

Overview

Drawing Sketch and Components List





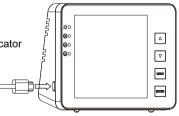
Item	Description	Item	Description
1	Front Panel	9	Good Level
2	LCD	10	Low Level
3	▲ Button	11)	USB Port
4	▼Button	12	Hole for Rope
(5)	MENU Button	13	Hole for Screws
6	ENTER Button	14)	Hole for Buzzer
7	Power Indicator	15)	Label
8	High Level	16	Hole for Sensors

General Operation and Settings

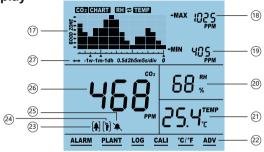
- Use provided USB cable to connect the device. Once the countdown is complete, your device is ready to use. See detail in Page 3.
- Use ▲ and ▼ buttons to switch timeline and CO2/RH/TEMP. The trend chart displays the history records for any of the three parameters. See detail in Page 5.
- To restore factory defaults, hold even for 4 seconds until an audible beep is heard.
- Press well bring up the main menu. To select the function, press well / v button. See detail in Page 7.
- Select PLANT to switch human 🖹 and plants 🛊 modes. See detail in Page 8.
- Select w to change the high/low alarms for human n and plant n. See detail in Page 11.
- Enter ALARM to switch alarm 🔔 and mute 🔌 . See detail in Page 8.
- Enter to switch temperature units °C and °F. See detail in Page 11.

Operating Instructions

- 1. When first unboxing, plug in the unit with the provided USB cable as shown on the right.
- 2. Once successfully connected, the power indicator and 3 LEDs flash one by one.
- Main display shows a countdown from 10.
 Once the countdown is complete, your product is ready to use. No initial setup or calibration is needed.



LCD Display

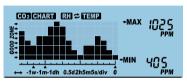


Item	Name	Item	Name
17)	CO2/RH/TEMP Chart	23	Plant Mode
18	Max Reading of Chart	24)	Human Mode
19	Min Reading of Chart	25)	Audible Alarm On/Off
20	RH Reading	26	CO2 Reading
21)	Temperature Reading °C / °F	(27)	Time per Division- indicates the
22	Main Menu	21)	chart's span of time

4

Trend Chart Display

The below chart displays the past readings for any of the three parameters (CO2/RH /TEMP). There are 4 modes that can be toggled by using velocity, key: CO2, TEMP, RH, and Cycle(automatically cycles through CO2/TEMP/RH).





Press
will toggle the available Zoom Levels for each parameters.(Minute/Hour/Day/Week)



Below is a table that shows the available Zoom Levels for all parameters CO2/RH/TEMP,as well as the duration of each division for corresponding Zoom Levels:

Zoom Level (Time Span)	Time per Division
1M(minute)	5sec /div
1H(hour)	5m/div
1D(day)	2h/div
1W(week)	0.5d/div

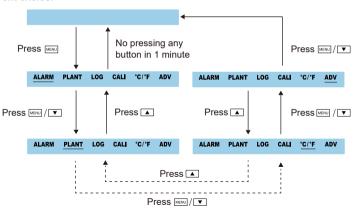
Max/Min

At the top right corner of the display, there are two numerical indicators: MAX and MIN.As the Zoom Level is changed, the MAX and MIN values will reflect the maximum and minimum values on the chart of the selected parameter(CO2, RH and TEMP).

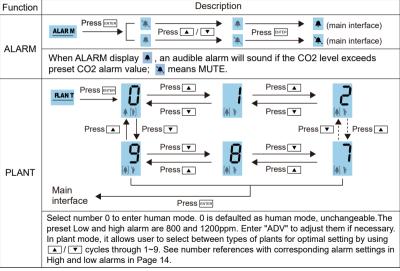
Main Menu Functions

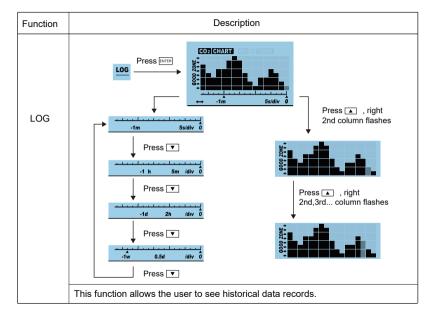
ALARM PLANT LOG CALI °C/°F ADV

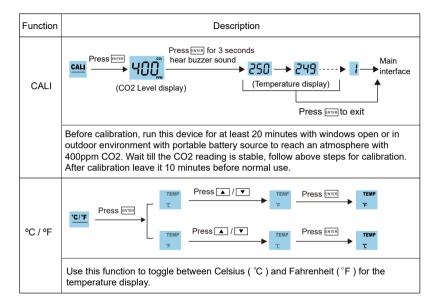
The Main Menu functions can be actived by pressing . Pressing v / www once will bring up the main menu, with an underlining flashing bar indicating the current choice.

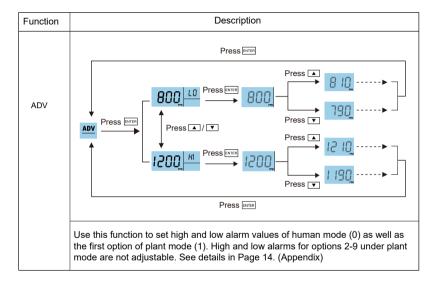


To select the function, press [with when it is underlined by the flashing bar. Note that after 30 seconds if nothing is pressed, the Main Menu will disappear and the device will revert to the normal state.









Specifications

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

Measurement	Specifications	
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)	
CO2 Measurement		
Measuringe range	(0-5000)ppm	
Display resolution	1ppm (0-1000); 5ppm (1000-2000); 10ppm (>2000)	
	(0~3000)ppm: ± 50ppm ± 5% of reading (take the Maximum)	
Accuracy	(>3000)ppm: ± 7% of reading	
Repeatability	20ppm at 400ppm	
Temp compensation	±0.1% of reading per °C	
Response time	<2 min for 63% of step change or < 4.6 min for 90% step change	
Warm-up time	<20 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	
Operating Voltage	DC(5±0.25)V	
Dimension	120*90*35mm	
Weight	170g (6.0oz)	

Appendix

No.	Refers	Low/High Alarm	Adjustable
0,	FOR Human	800-1200ppm	Yes
1,	FOR Customized Plant	600-900ppm	Yes
2,	FOR Bean	600-900ppm	No
3,	FOR Chillies	800-1000ppm	No
4,	FOR Cucumber	1000-1500ppm	No
5,	FOR Grape	800-1400ppm	No
6,	FOR Orchid	800-1400ppm	No
7,	FOR Potato	1200-1800ppm	No
8,	FOR Strawberry	800-1200ppm	No
9,	FOR Tomato	800-1200ppm	No