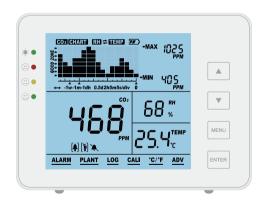
CO₂ Monitor-SA₁₂₀₀P

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, RH, and temperature for indoor air quality monitoring.

Packing List

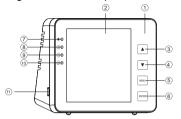
CO2 Monitor Unit USB Cable for Power User's Manual AC Adapter (Optional)

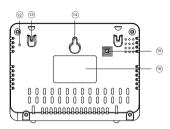
Features at a Glance

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

Overview

Drawing Sketch and Components List





Item	Description	Item	Description
1	Front Panel	9	Orange Condition Indicator
2	LCD	10	Green Condition Indicator
3	UP Button	11)	USB Port
4	Down Button	12	Hole for Buzzer
(5)	Menu Button	13	Hole for Rope
6	Enter/OK Button	(14)	Hole for Screws
7	Battery Indicator	(15)	ON/OFF Switch
8	Red Condition Indicator	16)	Label

General Operation and Settings

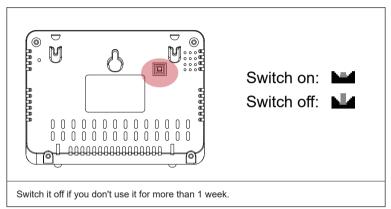
- Press down the switch on the back to activate this monitor. After 3 minutes' warm-up, your device is ready for use. See details in Page 4.
- Use the provided USB cable to connect the device for charging. See detail in Page 5.
- Use ▲ and ▼ buttons to switch timeline and CO2/RH/TEMP. The trend chart displays the history records for any of the three parameters. See detail in Page 7.
- Press would bring up the main menu. To select the function, press would button. See detail in Page 9.
- Select PLANT to switch human 🕽 and plants 🗐 modes. See detail in Page 10.
- Enter ALARM to switch alarm 🔔 and mute 🛝 . See detail in Page 10.
- Select № to change the high/low alarms for human 🗎 and plant 🖟. See detail in Page 13.
- Enter or to switch temperature units °C and °F. See detail in Page 12.

Restore Factory Defaults

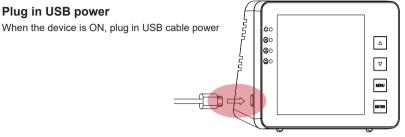
In Detection Panel, hold for 4 seconds until an audible beep is heard.

Switch On/Off

Press down the switch to activate this monitor, wait for 3 minutes for warm-up. Press the switch again to switch it off.



Power Source



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

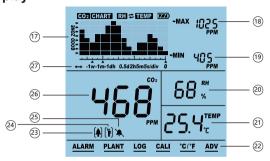
Battery recharging

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

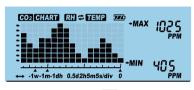
LCD Display

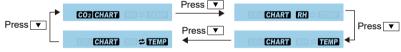


Item	Name	Item	Name
17)	CO2/RH/TEMP Chart	23	Plant Mode
18	Max Reading of Chart	24)	Human Mode
19	Min Reading of Chart	25)	Audible Alarm On/Off
20	RH Reading	26	CO2 Reading
21)	Temperature Reading °C / °F	(27)	Time per Division- indicates the
22)	Main Menu	21)	chart's span of time

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 very 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:

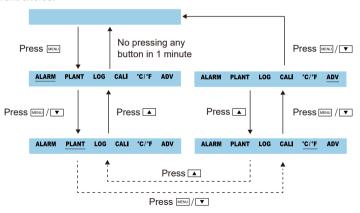
Zoom Level (Time Span)	Time per Division
1M(minute)	5sec /div
1H(hour)	5m/div
1D(day)	2h/div
1W(week)	0.5d/div

Max/Min

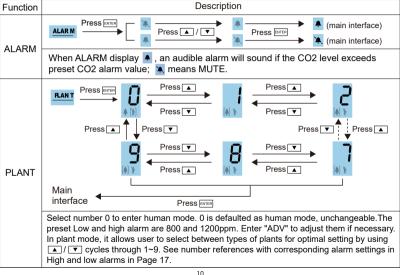
At the top right corner of the display, there are two numerical indicators: MAX and MIN.As the Zoom Level is changed, the MAX and MIN values will reflect the maximum and minimum values on the chart of the selected parameter(CO2, RH and Temp).

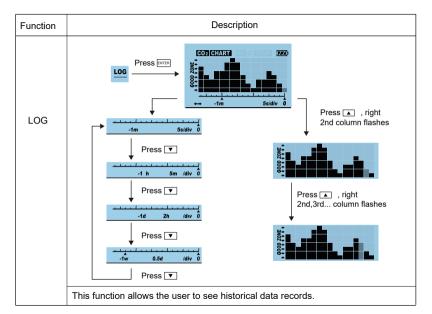
Main Menu Functions

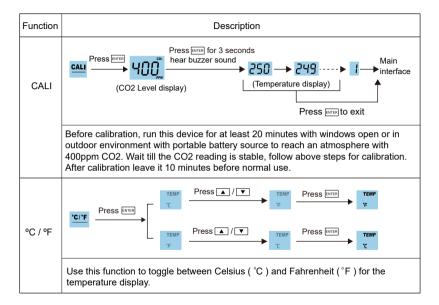
ALARM PLANT LOG CALI °C/°F ADV

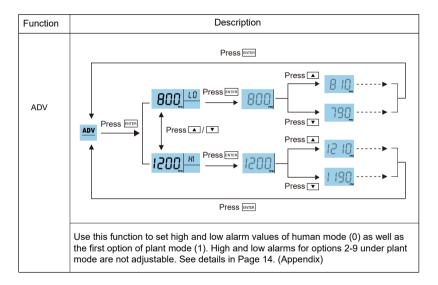


To select the function, press [ENTER] when it is underlined by the flashing bar. Note that after 30 seconds if nothing is pressed, the Main Menu will disappear and the device will revert to the normal state.





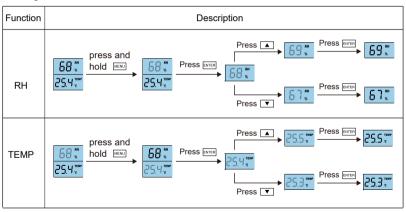




RH/TEMP Calibration

This function allows the user to calibrate the temperature or humidity manually. (RH=Humidity: TEMP=Temperature)

In the detection mode, press and hold [west] for 3 seconds to bring up an underlining flashing bar of RH.



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 ±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	<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	190g	

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