CO$_2$ MONITOR-DESKTOP

Instruction Manual
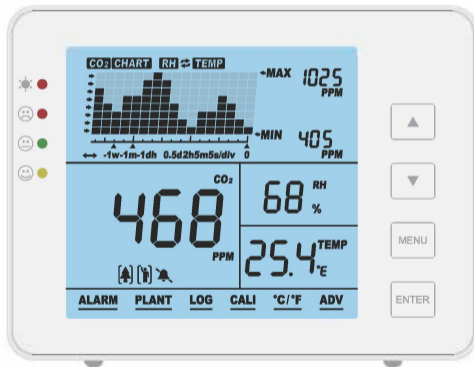
Contents

Getting Started

This product is used to monitor CO_2 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
Auto-Calibration
Max/Min Value Display in Certain Time

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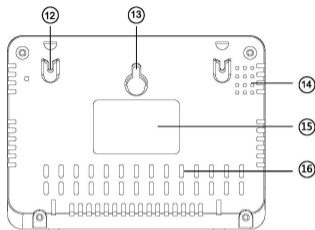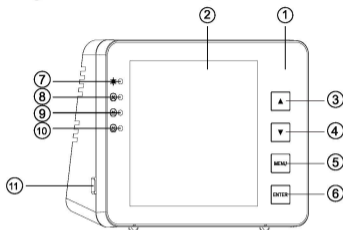
Item	Description	Item	Description
①	Front Panel	⑨	Good Level
②	LCD	⑩	Low Level
③	▲ Button	⑪	USB Port
④	▼ Button	⑫	Hole for Rope
⑤	MENU Button	⑬	Hole for Screws
⑥	ENTER Button	⑭	Hole for Buzzer
⑦	Power Indicator	⑮	Label
⑧	High Level	⑯	Hole for Sensors

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 ENTER for 3 seconds until an audible beep is heard.
- Press MENU once will bring up the main menu. To select the function, press MENU / ▼ button. See detail in Page 7.
- Select PLANT to switch human 🧍 and plants 🌱 modes. See detail in Page 8.
- Select ADV to change the high/low alarms for human 🧍 and plant 🌱. See detail in Page 11.
- Enter ALARM to switch alarm 🔔 and mute 🔕. See detail in Page 8.
- Enter °C/°F 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.
3. 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.
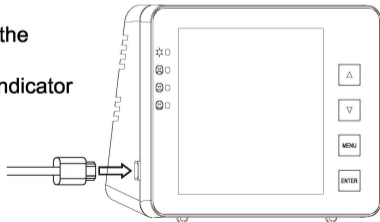
LCD Display
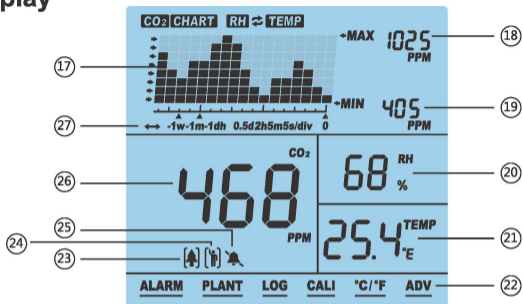
Item	Name	Item	Name
⑰	CO2/RH/TEMP Chart	㉓	Plant Mode
⑱	Max Reading of Chart	㉔	Human Mode
⑲	Min Reading of Chart	㉕	Audible Alarm On/Off
⑳	RH Reading	㉖	CO2 Reading
㉑	Temperature Reading ℃ / ℉	㉗	Time per Division- indicates the chart's span of time
㉒	Main Menu		

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 ▲ key: CO2, TEMP, RH, and Cycle(automatically cycles through CO2/Temp/RH).
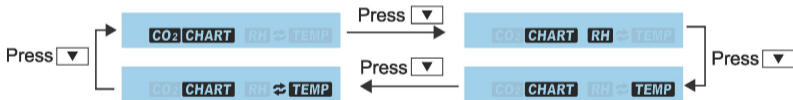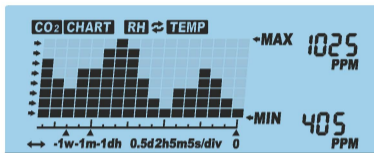
Press ▼ will toggle the available Zoom Levels for each parameters.(Minute/Hour/ Day/Week)
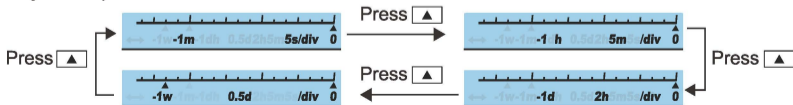
Below is a table that shows the available Zoom Levels for all parameters CO2/RH/Temp,as well as the duration of each division for corresponding Zoom Levels:

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

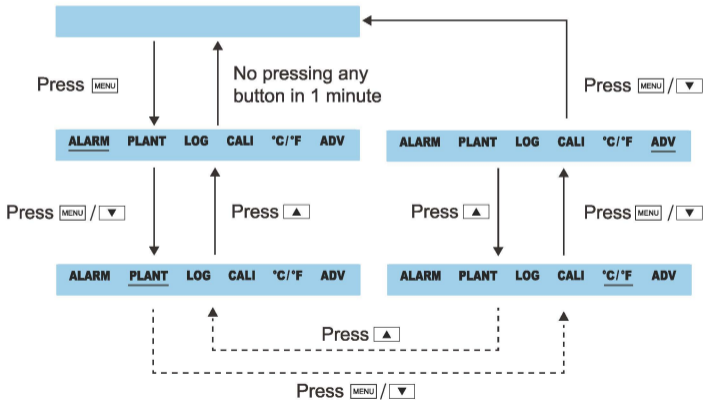At the top right corner of the display, there are two numerical indicators: MAX and MIN.As the Zoom Level is changed, the MAX and MIN values will reflect the maximum and minimum values on the chart of the selected parameter(CO2, RH and Temp).
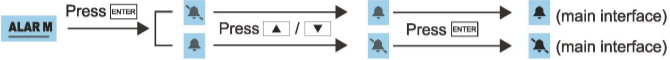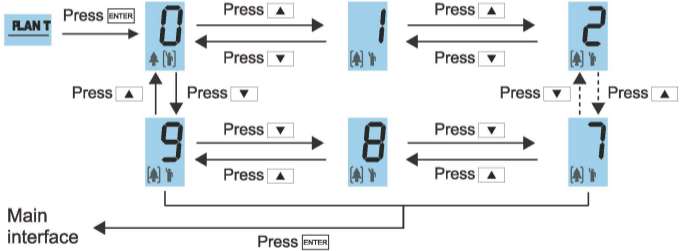
Main Menu Functions

ALARM PLANT LOG CALI °C/°F ADV

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

Press MENU

No pressing any button in 1 minute

Press MENU / ▼

ALARM PLANT LOG CALI °C/°F ADV

ALARM PLANT LOG CALI °C/°F ADV

Press MENU / ▼

Press ▲

Press ▲

Press MENU / ▼

ALARM PLANT LOG CALI °C/°F ADV

ALARM PLANT LOG CALI °C/°F ADV

Press ▲

Press MENU / ▼

To select the function, press ENTER when it is underlined by the flashing bar. Note that after 1 minute if nothing is pressed, the Main Menu will disappear and the device will revert to the normal state.

Function	Description
ALARM	When ALARM display 🔔, an audible alarm will sound if the CO2 level exceeds preset CO2 alarm value; 🔕 means MUTE.
PLANT	Main interface
	Select number 0 to enter human mode. 0 is defaulted as human mode, unchangeable. The preset Low and high alarm are 800 and 1200ppm. Enter "ADV" to adjust them if necessary. In plant mode, it allows user to select between types of plants for optimal setting by using ▲ / ▼ cycles through 1~9. See number references with corresponding alarm settings in High and low alarms in Page 14.

Function	Description
LOG	

This function allows the user to see historical data records.

Function	Description
ADV	

Use this function to set high and low alarm values of human mode (0) as well as the first option of plant mode (1). High and low alarms for options 2-9 under plant mode are not adjustable.

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)
Accuracy	(0~3000)ppm: ± 50ppm ± 5% of reading (take the Maximum)
	(>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 ~ 195°F (0°C ~90°C)
Display resolution	0.1°F (0.1°C)
Response time	<20 minutes (63%)
RH Measurement	
Measuring range	5~95%
Accuracy	±5%
Display resolution	1% Main interface display，0.1% Max/Min display
Operating Voltage	DC(5±0.25)V
Dimension	120*90*35mm
Weight	170g（3.6oz）device only, not including AC adapter