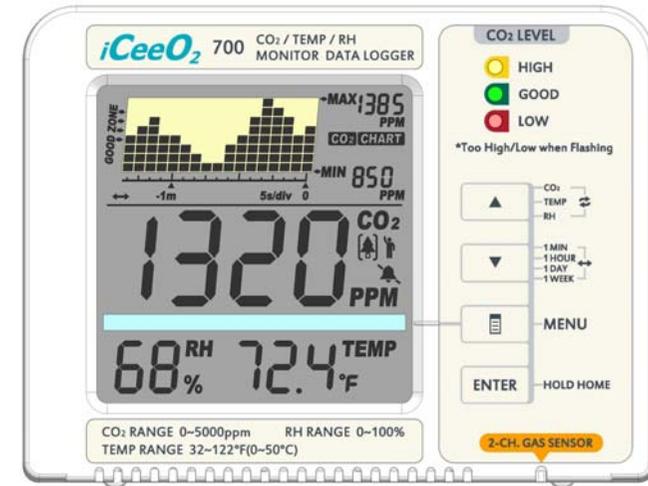
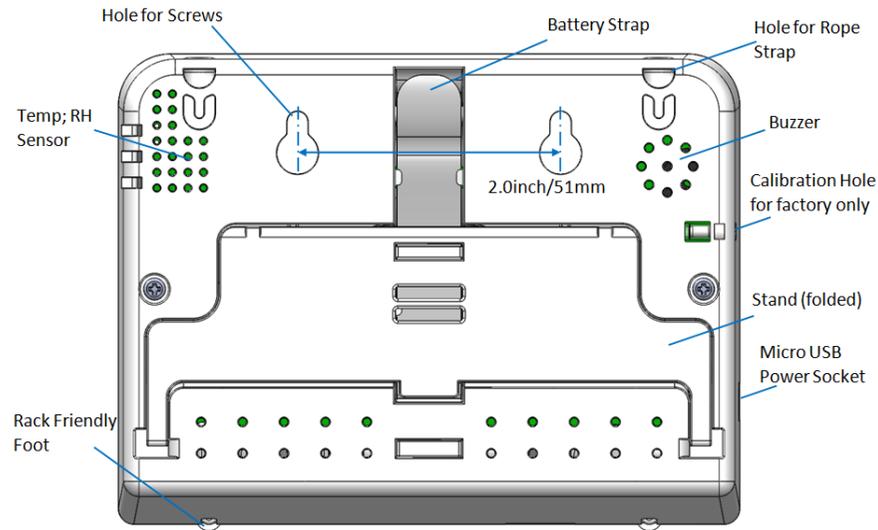


	below is calculation by theory: (reference only, not a guarantee) For 5000mAh battery, 200Hr/8.3day
Dimension	120*91.2*27mm (4.7*3.6*1.1inch)
Weight	148g (5.22oz) Device only, AC Adapter not included



Instruction manual CO₂ / Temp / RH Monitor models -700

Rear View:



Product may vary from picture.

Disclaimers:

USB connection is for power supply only; no communication with PC. Unplugging the device may result in loss of most recent logged data on the chart.

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

iCeeO₂ and the manufacturer assumes no responsibility for any damage or loss suffered by the user or any third party arising through the use of this product or its malfunction.

iCeeO₂ reserve the right to change the spec without notice.

Note:

Recommend Battery capacity: larger or equal to 4000mAh (3000mAh still works, with reduced battery life)
Recommend battery size: smaller than 101x60x22mm / 4.0x2.4x0.87inch, larger battery still works, but not easy to fit in.

- To ensure safety, please read this manual carefully before installation and follow the instructions herein.
- Store this manual in a secure place for future reference
- WARNING: CHOKING HAZARD - Accessories contain small parts
- Printed by color ink, water will smudge

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* * * *

Getting Started

Hello there! Congratulations on your new iCeeO₂ product! Our products are packaged and shipped with the utmost care. In the unlikely event that your item is incorrect, incomplete, or unsatisfactory, please contact us and we will see to fix it immediately. Feel free to contact us at [www.iCeeO₂.com](http://www.iCeeO2.com); [service@iCeeO₂.com](mailto:service@iCeeO2.com)

Package Contents

CO2 Monitoring Unit
 Micro USB Cable for power x2
 AC adapter (optional)
 User Manual
 Rope Strap; Screws

Features at a Glance

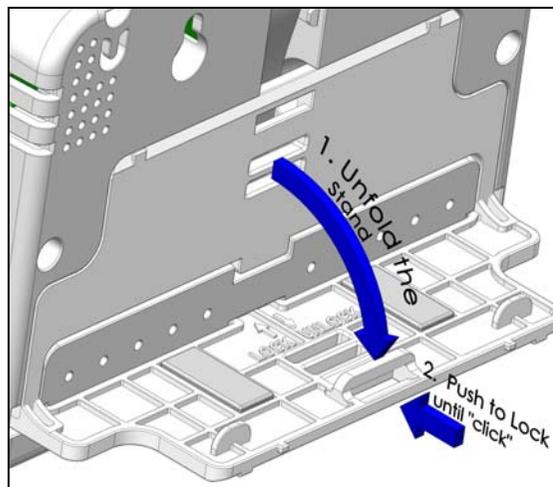
CO2/Temperature/RH Monitor; Tracer
 Chart with variable time Zoom Levels
 2-Channel Low Drift NDIR Sensor
 Build-In Plant Types Directory
 3 color LEDs for Easy-Reading
 Foolproof “Hold Home” function
 CRR, CO2 Replenish Reminder

Operating Instructions

Initial Setup : When first unboxing, plug in the unit to the included Micro USB (or one of your own) to almost any cell phone charger or USB power source. If successfully connected, 3 things will happen while booting up:

- 3 LEDs flash one by one
- Chart display shows the current software version & “Warm Up”
- 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.



1. Deploy the Stand

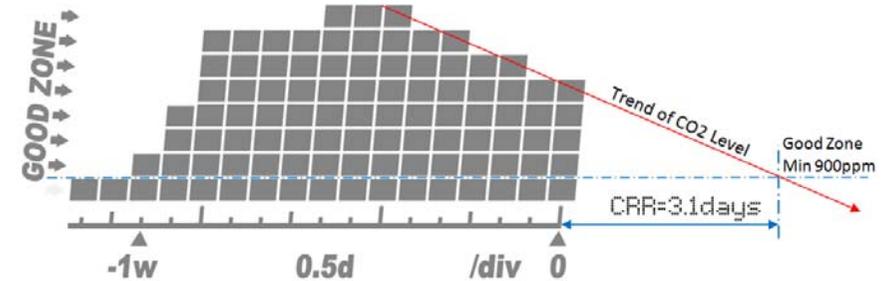


2. Plug in USB Power Cable

(Return)	Exits the main menu. No options will be displayed on the green bar. A different audible beep be heard in this option.
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CRR

Predicts the remaining CO₂ supply and reminds the user to add or replace the CO₂ generator. For example, hydrocarbon fuel, fermentation (sugar + yeast), etc.



note: If the trend of CO₂, does not go downward, CRR become "NA"

Specifications

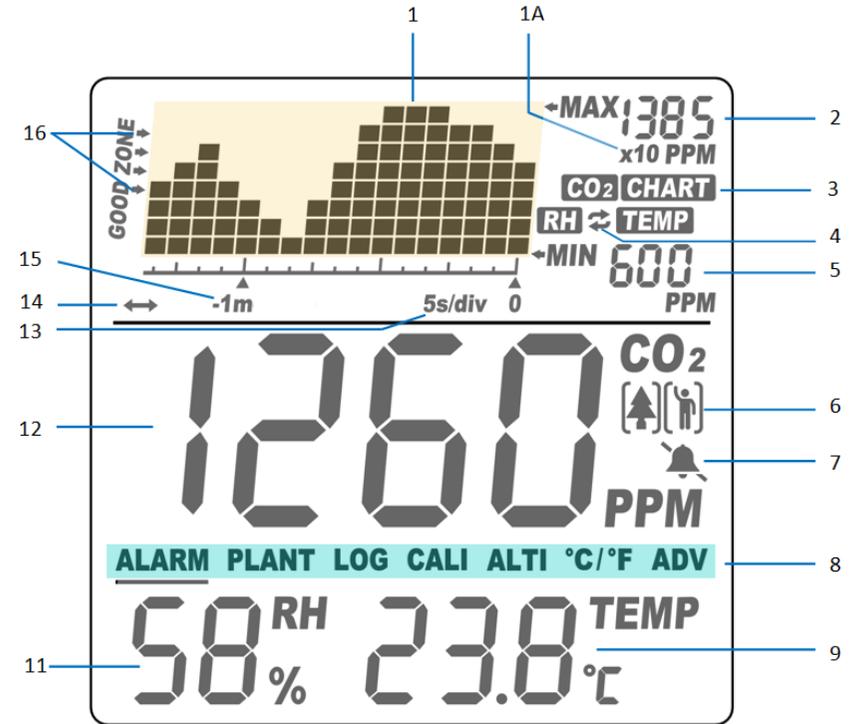
Typical test conditions, unless otherwise specified: Ambient Temp =23+/-3°C, RH=50%-70%, Altitude=0~100 meter

Measurement	Spec
Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Operating & Storage RH	0-95%, non-condensing
CO₂ Measurement	
Accuracy at 0~3000ppm	±50ppm or ±5% of reading, whichever is greater
Accuracy over 3000ppm	±7%
Repeatability	20ppm at 400ppm (standard dev. of 10 readings in 1 minute)
Measurement Range	0-5000ppm
Display Resolution	1ppm (0-1000); 5ppm (1000-2000); 10ppm (>2000)
Temp Dependence	±0.1% of reading per °C or ±2ppm per °C, whichever is greater, referenced to 25°C
Pressure Dependence	0.13% of reading per mmHg (corrected by user's altitude input)
Response Time	<2min for 63% of step change or <4.6min for 90% step change
Warm-up Time	<30 sec
Temp Measurement	
Operating Temperature	32°F to 122°F (0°C -50°C)
Display Resolution	0.2°F (0.1°C)
Accuracy	±1°F (±0.5°C)
Response Time	<20min (63%)
RH Measurement	
Range	0-100%
Accuracy	±5%
Resolution	1% on Main Reading, 0.1% on Max Min Reading
Power Requirements	
Power Requirements	160mA Peak, 15mA average at 5.0V
Battery Life	Battery is not included.

Below is a table showing what main menu selection is made by pressing **MENU** multiple times as well as their functions. Note that the device will display “Done,” followed by the confirmed selection if selected correctly.

Function	Directions
ALARM	By default , an audible alarm will resound if the CO2 level exceeds varying levels in Plant Mode (depending on the plant selection) or 1000ppm in Human Mode. Once ALARM is selected (by pressing ENTER), use either UP or DOWN to toggle the selection from ON to OFF or vice versa. Press ENTER one more time to confirm. A regular bell icon will be displayed if alarm is on; a silenced bell icon will appear on the screen if the alarm is set to be off.
PLANT	This function allows the user to select between types of plants for optimal setting. Once selected, the chart area will display the current plant setting. Use UP and DOWN to toggle to the desired plant. In order, the selections are: Bean, Chillies, Custom Plant, Cucumber, General Plant, Grape, Orchid, Potato, Strawberry and Tomato. Press ENTER on the desired plant to confirm. Note that selecting a plant will automatically change the unit’s mode to For Plant instead of For Human. To change it back, see function ADV. With Custom Plant, the user can define the low and high Good zone for custom optimum CO2 levels. After selecting this option, Low Good Zone selection will appear. Press ENTER , then use UP and DOWN to define Low. Press ENTER to confirm. The device will now emit alarms (if enabled) and display the 3 corresponding LED indicators according to the defined range.
LOG	This feature allows the user to see historical data recorded in the log at any point that is displayable on the chart. First make sure the desired Zoom Level is selected before enabling this function. Then once LOG is enabled, use UP and DOWN toggle between the time divisions to see all parameters’ measurements for each division. Press ENTER once more to exit this mode.
CALI	Use this function to calibrate your device with outside atmospheric CO2 level ~ 400ppm. Select this mode, hold ENTER for 3 seconds until a beep and the chart will read “Calibrating”, then place the device outside for 20min. To escape, press MENU . Make sure the device is far from a source of CO2, not in direct sunlight, and not exposed to water.
ALTI	This feature provides an altitude correction to the CO2 level for increased accuracy. Select this feature, then use UP and DOWN to input the current altitude (look it up if unknown) in meters. Press ENTER once altitude is correct.
°C/°F	Use this feature to toggle between Celsius and Fahrenheit for the temperature display. First use UP and DOWN , then ENTER when the desired one is selected.
ADV	This function toggles between 3 things when selected: changing the alarm and lights to suit levels For <u>Plant</u> , or For <u>Human</u> , or <u>Restore</u> factory setting. Restore factory setting will reset the device to factory settings and erase all stored data in the chart. To use any of these modes, hold ENTER for 3 seconds until an audible beep.

LCD Display



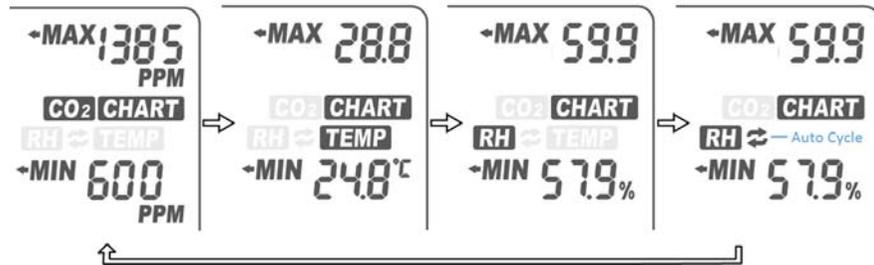
1. CO2 Chart
- 1A. x10 multiplier for ppm reading
2. Max Reading of Chart
3. Indicates what the chart will show: CO2, TEMP or RH
4. Automatic cycle between CO2, RH, and Temperature on the chart
5. Min Reading of Chart
6. Plant or Human mode
7. Audible Alarm On/Off
8. Main Menu
9. Temperature Reading
10. CO2 Reading
11. RH Reading
12. Time per Division – indicates the chart’s time per unit division
13. Automatic cycle between zoom levels of time
14. Zoom Level of Time – indicates the chart’s span of time
15. Good Zone Indicator

CO2, Temperature, RH Readings

The device has three built-in main measurable parameters: ambient carbon dioxide(12), temperature (9), and RH (11). They are constantly displayed on screen.

Trend Chart

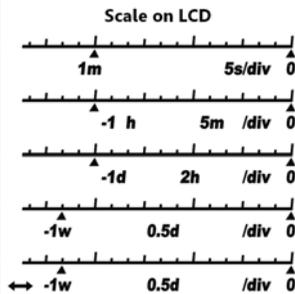
The trend chart (1) displays the past readings for any of the three parameters (CO2/Temp/RH). There are 4 modes that can be toggled by using **[UP]** key: CO2, TEMP, RH, and Cycle (automatically cycles through CO2/Temp/RH), as shown below



Trend Chart Zoom

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

Zoom Level (Time Span) (15)	Time Per Division (13)
1m (minute)	5sec /div
1h (hour)	5m /div
1d (day)	2h /div
1w (week)	0.5d /div
Auto Cycle Zoom	Cycle

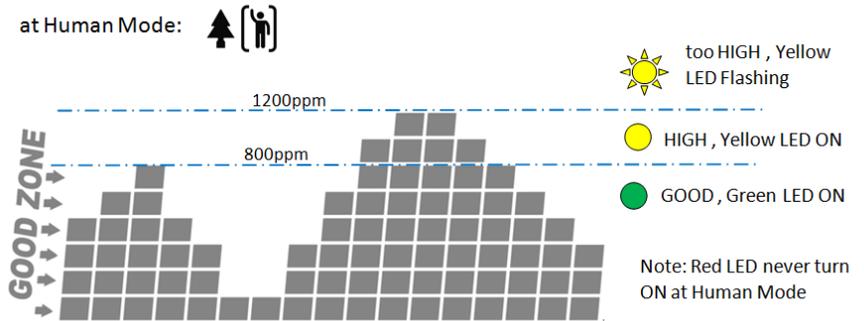
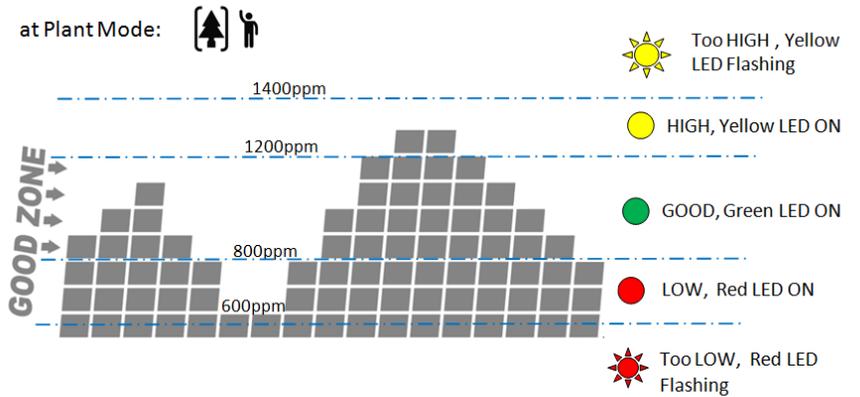


Using **[DOWN]** will toggle the available Zoom Levels for each parameters. Note that in addition to the Zoom Levels for each parameter, there is an option that will automatically cycle between the Zoom Levels. This can be achieved just by pressing **[DOWN]** until icon(14) appears at the bottom left of the chart.

Max/Min

At the top right corner of the display, there are two numerical indicators: Max (2) and Min (5). 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; Temp and RH). At startup, the unit will automatically display values for CO2.

LED Display



Main Menu Functions

The Main Menu (8) functions can be toggled through by using **[MENU]**. If the main menu is not brought up, the green bar will remain blank, leaving the **[UP]** / **[DOWN]** buttons to toggle between parameters and Zoom Levels, respectively.

ALARM PLANT LOG CALI ALTI °C/°F ADV

Pressing **[MENU]** once will bring up the main menu, with an underlining flashing bar indicating the current choice.

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.

HOLD HOME

To revert to start up settings at any point, hold **[ENTER]** for 3 sec until an audible beep. The device will revert to Home Setting, as if the power was reset, displaying "Back Home done." Note that this is not the same as Restore to factory settings.