
ROCIS: Low-Cost Monitoring Project

Setting Up the CO₂ Meter

- 1) Plug in the device. If the time and date are reading correctly go to step #7
- 2) Press in "Set" button for 2 seconds.
- 3) Display should say "CO2". If it does not, push esc, and go back to #2
- 4) Press Set 4 times, until P 1.4 shows in the bottom right corner. Use the "Log/^" and "MinMax/v" buttons to select "OFF", to turn off the alarm. When "Off" shows on the screen, press the "set" button.
- 5) Display should say "CO2". Press "Log/^" once. Display should say "Unit" with p2.0 in the bottom right corner, press "Set". Use the "Log/^" and "Min-Max/v" buttons to select "F", to set temperature to Fahrenheit. When "F" shows on the screen, press the "set" button.
- 6) Display should say "Unit". Press "Log/^" once. Display should say "rtc", press "Set". Use the "Log/^" and "Min-Max/v" buttons to set the date, and time, using 24 hour time. Use the up and down buttons to set the correct number, choose set to select and move on to the next number. When finished, press set.
- 7) Display should say "rtc". Press "Log/^" **TWICE**. Display should say "rate" with p5.0 in the bottom right corner, press "Set". Use the "Log/^" and "Min-Max/v" buttons to set the sampling rate to 15 minutes. When finished, press set.
- 8) Press esc to move back to the main screen.
- 9) Press in "Log/^" and hold for 2 seconds. The display will flash the current reading and "rec", and the green light on the bottom left corner will flash. It is now recording. (To stop recording, hold in the "esc" button for 2 seconds, then press in the "esc" button for 2 more seconds).

When you view the CO₂ meter after it is set up and running, make sure that the date and time is correct, and that it is showing "rec". If you do not see "rec" or if you see "end", that means it has stopped recording, and you need to go to step 7 above to reset it.

- 10) If you are a data geek, download and submit your CO₂ data each week:
- a Download the software from the website:
<http://www.co2meter.com/pages/downloads>
 - b Scroll down to TIM12 Data Logger Software.
 - i Download the **Silicon Labs USB/UART Cable OEM Driver for Windows PCs**
click 2nd *Download (zip)*
 - ii Download the software: click the 1st *Download (zip)*
 - c Plug in the CO₂ meter to the computer via USB 2.0 cord
 - d In **Programs** open "**CO2LOGGER**"
 - e In the task bar above, select "**Communication**", then "**AutoConnect**"
 - f On the upper left-hand side, click "**Download**"
 - g When the data has finished logging, click "**File**" then "**Save**"
 - i Use this format for the file name: Your initials_room abbreviation_CO2-8__(equipment ID last two digits)_mm-dd-yy
 - h Review your data, then click "**Clear**" in the upper right-hand corner
 - i Disconnect the machine

The meter will hold 3 weeks of 15-minute interval data, so doing the download yourself is optional.

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