

QUICK SHEET

VERNIER CO2 Gas Sensor (CO2-BTA)

LOCATION of EQUIPMENT:

Hardware: See lab attendant

Software: Requires handheld Vernier LabQuest 2 unit; see lab attendant

INSTRUCTIONS FOR USE:

1. Plug sensor into one of the three side analog ports of the handheld unit (Vernier LabQuest 2)
2. The unit will automatically enter the appropriate screen to observe Carbon Dioxide levels
 - a. If it does not, press the home button in the bottom right corner of the handheld unit's display, then press the LabQuest App option in the top left corner
3. Allow sensor to adjust to given CO2 levels.
4. The wand will be taking readings as it is plugged in.
5. To isolate given air situations, use the provided bottle to "capture" air from the environment.
 - a. To capture air accurately, fill bottle with water and empty at the site. This will allow for air from the site only.
6. For data logging options, refer to the quicksheet on the Vernier LabQuest 2
7. When done recording/logging, unplug the sensor from the handheld unit

OVERVIEW:

The Vernier CO2 Gas Sensor measures gaseous carbon dioxide levels by monitoring the amount of infrared radiation absorbed by carbon dioxide molecules. The sensor has two ranges: Low (0–10,000 ppm) and High (0–100,000 ppm).

SUGGESTED APPLICATIONS:

- Air Quality

RELEVANT TOPICS:

Post Occupancy Studies, Observing Air Change Cycles