Instruction Sheet: Carbon Dioxide

The carbon dioxide sensor must be used in conjunction with a Logbook datalogger.

Calibrating the carbon dioxide sensor using a Logbook datalogger:

- In order to calibrate the carbon dioxide sensor accurately place it in a well ventilated room where the CO_2 levels are at background level.
- Leave the sensor for 15 minutes before starting the calibration process. If the sensor has been exposed to high levels of CO_2 then leave it for 60 minutes.
- Connect the carbon dioxide sensor to a datalogger.
- Press and hold the Set 400 button on the sensor for roughly 6 seconds.
- Release the button and wait for the reading to fall to around 400ppm. This shows that the sensor is calibrated and ready for use.

Setting the carbon dioxide sensor up in Logbook Graphing using a Logbook GLE datalogger:

- Plug the carbon dioxide sensor into the Logbook GLE.
- Connect the GLE to the PC via USB and open Logbook Graphing.
- A meter screen will appear and will show the carbon dioxide sensor in one of the channels.
- There are two sensing ranges available on this sensor which can be swityched between using the range button.
    - Fast: Reacts quickly to changes in CO2 levels. This is best for measuring exhaled air.
    - Slow: This range reacts slower to the changing levels of CO2. This is recommended for use with extended length experiments and will produce a smoother graph.