

## **Calibration of the End Tidal CO2 Monitor**

The system uses a 2 point calibration

The first calibration is at normal air

The second calibration is with a known concentration of CO2

### **To automatically calibrate the equipment:**

Click on the grey square containing the wave label

This selects the wave

Click on MP150—on the top of the window

Select Set Up Channels

Click on CO2 in the window

Click on setup

There will appear a chart

On the left of the chart are Cal 1 and Cal 2

The first calibration point will be for ambient air

Make sure the air tubes are flushed and contain only ambient air

Click on Cal 1

This enters the upper left number automatically

Enter .04 in the upper right square

This is the amount of CO2 in ambient air

The second calibration point will be for a known concentration of CO2

Make sure the air tubes are flushed and contain the CO2

Click on Cal 2

This enters the lower left number automatically

Enter the concentration of CO2 in the lower right square

10 for 10%, 5 for 5%, etc.

Click Ok

Exit out of the window.

The CO2 equipment should now be calibrated.

### **To manually calibrate the equipment:**

Click on the grey square containing the wave label

This selects the wave

Click on MP150—on the top of the window

Select Set Up Channels

Click on CO2 in the window

Click on setup

There will appear a chart.

Enter these numbers in to the chart (the calibration numbers done by Robin):

	Input Volts	Map Value
Cal 1	.6350	.04
Cal 2	2.0964	5

Click Ok  
Exit out of the window  
The CO2 equipment should now be calibrated

**Important things to remember:**

The sensor range is 0-10%  
It can't read above 10% CO2

Data units are percents

The gain settings on the front of the hardware  
Set to 1%  
This allows for the widest range of recordings

Make sure that no other amplifier is plugged into the same channel as the CO2 monitor

**Questions? Contact Taj at Biopac: 805-685-0066 ext. 115**

**Email: [support@biopac.com](mailto:support@biopac.com)** and the email can be forwarded to him