



## **CARBON DIOXIDE CALIBRATION PROCEDURE**

The CO<sub>2</sub> sensor and its digital signal processor are inherently stable and will maintain their calibration over extended period with minimal maintenance.

Zero (nitrogen) and Span calibration gases must be applied to the analyzer sample inlet to check its calibration. To supply gas from a pressurized bottle, a pressure regulator, needle valve, and flow meter will be needed.

- a) The CO<sub>2</sub> concentration of the span gas should be between 400 ppm.
- b) The inlet pressure should be 100 psig or less.
- c) The sensor should be powered for 30 minutes before checking its calibration.
- d) Next, attach the span gas to the inlet fitting and start the flow of span gas. After the reading is equilibrated, press the MODE button. The display will pass through the alarm and output screens and show CAL. The CAL light is now on. This value should be that observed in paragraph (a).
- e) Press the MODE button. CAL will show, then the value of the CO<sub>2</sub> concentration in the span gas will be displayed.
- f) Use the up/down switch to change the value to correspond to value of the know cal gas.

The monitor is now calibrated and ready to be placed into service. A monthly calibration cycle is recommended. To abort the procedure, press MODE.

NOTE: The calibration menu items have a time out interval which returns them to the display mode after about 6 seconds.