



## Model O2 Quick Reference Guide

**FILTER.** Always protect the sensor from water damage by connecting a 25mm diameter hydrophobic gas filter at the sample inlet (see Manual for vendors).

**POWER.** With power switch on back panel in off position (O depressed), connect 12 volt, 2 amp power module to back panel power jack and then plug power cable to 95 to 250 VAC/47 to 63 Hz power. Turn on power switch.

**OXYGEN MEASUREMENT MODE.** After 1 minute, the display reads approximately the 21% atmospheric oxygen concentration; after 5 minutes the sensor stabilizes. The O2 key will return or exit all other displays to this default display.

**ALARM.** Press the ALARM key to set Low O2, High O2, and Low Flow alarms and to set alarm volume. The NEXT key steps through the selections. Adjust the value with the PLUS/MINUS keys, record the selected value with the SET key.

**FLOW.** Press the FLOW key to choose the sampling flow rate in mL/min. Adjust the value with the PLUS/MINUS keys, record the selected value with the SET key. Pressing NEXT in the Flow Mode gives a flow On/Off/Max choice selected by the PLUS/MINUS keys. A positive pressure gas inlet gas may cause a flow higher than the flow set-point, which turns off the pump. Any positive pressure inlet gas must be controlled with external pressure and flow regulator valves not to exceed 120 kPascal (1200millibar, 900 mm Hg, 36 in Hg); the flow meter display can be used to adjust the inlet flow to a maximum of 350 ml/min.

**CALIBRATION.** Pressing the Cal key changes the lower display to show the Low Cal set-point, which can be adjusted if desired with the PLUS/MINUS keys. The calibration parameters will only be changed if SET and NEXT are pressed simultaneously.

The NEXT key steps to the High Cal set-point, where again the High Cal set-point visible in the lower display may be adjusted if desired with the PLUS/MINUS keys and the SET and NEXT keys must be pressed at the same time to change the calibration scale factors.

If the oxygen concentration reading differs from the set-point by more than 1%, be certain that the inlet gas is indeed intended to match the set-point before calibrating. The NEXT key will also lead to a display of cell pressure and cell temperature (normally 45 degrees C) for diagnostic purposes. Do not calibrate until the 5 minute warm up is complete. Make sure that the inlet calibration gas is not over the pressure limit (see Flow above) or contaminated by expired breath or any other calibration gas.

**OTHER.** Please read the manual for more features and important precautions.