



## Model O2T Quick Reference Guide

### QUICK GUIDE TO OPERATION



CAUTION: Inlet pressures should not exceed 17 PSI (120 kPascal).

**POWER.** Connect the power module to the Oxygen Analyzer 12 VDC power jack. Connect the power module to an AC outlet. Turn the power switch ON.

**OXYGEN DISPLAY.** After 1 minute with room air sampled, the upper display will read atmospheric oxygen concentration. After 5 minutes, the display stabilizes at a value between 20.3 and 20.9% depending on the ambient relative humidity. The lower display shows units as % oxygen.

**FLOW DISPLAY.** Press the FLOW key to check the sample flow. An internal sampling pump is set to 50 mL/min. High inlet pressures may cause higher flow, and shut off the sample pump. The higher flow is displayed and may be adjusted with an external needle valve to any value between 50 and 350 mL/min.

#### **CALIBRATION.**

1. Allow the Oxygen Analyzer to warm up for five minutes.
2. Connect the 21.00% oxygen low cal gas to the sample inlet. Check the flow. (Adjust the flow to about 200 mL/min, if necessary.)
3. Press the CAL key. Check that the lower display matches the cal gas being used. (If cal gas has changed, see Manual for adjustment.)
4. The upper display now shows the measured oxygen concentration, which should be close to the cal gas value. When the measurement value is stable, press the SET key to store the new cal factors.
5. Connect the 99.99% high cal gas to the sample inlet. Check the flow. (Adjust the flow to about 200 mL/min, if necessary.)
6. Repeat step 3 pressing the CAL twice if necessary to get the correct cal gas value in the lower display. Repeat step 4.

**NOTE:** Calibrate within four hours of use to assure accuracy of  $\pm 0.1\%$ .

**NOTE:** Calibration gases must be instrumentation grade, with a Certificate of Analysis indicating an accuracy  $\pm 0.03\%$ .

**ANALYSIS OF TRANSFILLED GAS.** Connect the sample of transfilled gas to the sample inlet. Adjust the flow as described above. Record the value presented in the upper display. A measurement of 99.1% or higher qualifies the lot as USP oxygen.

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