



Rubber Duckie Designs Nitrox/Oxygen Analyzer



The Rubber Duckie Designs Nitrox/Oxygen Analyzer has a number of great features:

- Water/Splash Resistant. (Don't submerge it in water, it's water resistant, not water proof)
- 3 Position power switch:
 - Up is On;
 - Middle position is Off ; and
 - Down position is On with Backlight.
- BC flowrate adapter plugs into standard low pressure inflator BC fitting. This makes it very easy to get a stable flowrate of gas to your oxygen analyzer (this is the preferred/most accurate method of calibrating and sampling).
- Can be used to sample directly from a SCUBA tank. Crack the valve on tank to establish a small flowrate, press the analyzer up to tank to sample (calibrated orifice controls rate at which gas enters sample section). Works with both Yoke and DIN style tank valves.
- Easy to surface mount. Analyzer Enclosure has mounting holes that are outside of the gasket seal. Mounting hole spacing is also

indicated on the back of the enclosure in both inches and centimeters.

- Available in both Right and Left handed versions. Left Handed version swaps the position of the on/off switch and the calibration knob, making it much easier for the left handed to use. Showing the south paws some respect...
- 4-5 year expected lifespan of sensor. Sensor has two year warranty. Lower overall cost of ownership.
- 2 year limited warranty against workmanship and material defects.
- Includes 9 volt Battery. Oxygen Analyzer ships fully assembled and ready to use.

Proudly made in the USA.

Sampling with BC Sample Adapter



Sampling Directly From Tank



Calibration and Use

Properly calibrating and using your oxygen analyzer will give you the best results. Oxygen comprises 20.93% of **dry** air. Any moisture (humidity) in the air used to calibrate your analyzer will dilute the remaining gases (Nitrogen, Oxygen and Argon) and result in the inaccurate calibration of your analyzer.

To get the most accurate reading from your oxygen analyzer, you should calibrate your analyzer with a known gas at a constant flowrate. The oxygen content of **dry** air is a known value (20.93% oxygen). Then analyze your Nitrox tank using the same flowrate you used to initially calibrate the

analyzer. This BC inflator adapter makes it very easy to accurately calibrate your oxygen analyzer using regular SCUBA air and subsequently analyze your Nitrox tank.

- 1) Hook your SCUBA regulator up to a SCUBA tank with air in it.
- 2) Plug in the BC Hose Flow Adapter to feed 3 lpm of air to your oxygen analyzer. Calibrate your analyzer to 20.9% using the calibration potentiometer (knob).
- 3) Transfer the SCUBA regulator to your Nitrox tank to analyze the contents.

Enjoy your Nitrox Dive!