

# **O2EII Pro**

## **Oxygen Analyser**

### **Quick Start Guide**

**IT IS IMPORTANT THAT THESE INSTRUCTIONS  
ARE READ BEFORE USING THE O2EII Pro**

#### **Packaging & contents:**

**On opening your O2EII Pro, please check you have the following items:**

- a) O2EII Pro.**
- b) Dome adaptor with spigot.**

#### **About the O2 EII Pro:**

**The O2EII Pro includes an Analox 9100-9220-9B type Electro Chemical Sensor, this has an expected life span of 4-5 years in air and a 36 month graded warranty. The battery within is a 9V alkaline (PP3) and has an approximate life of 12 months.**

#### **Safety Notes Sensor Handling:**

**The sensor in the O2EII Pro is an electrochemical device and contains an acidic electrolyte. Always check to make sure that it is not leaking and do not allow it onto any part of your body or clothing. In the event that you do come into contact with the electrolyte wash the contaminated part with plenty of water.**



#### **Technical manual details:**

**Visit our commercial website for the full technical manual [www.analoxsensortechnology.com](http://www.analoxsensortechnology.com) and search for O2EII Pro in the search bar and the associated pages will appear, the download section is where you will find the user manual.**

## Fitting the O2 Sensor

1



Take the O2EII Pro and oxygen sensor, carefully cut open the bag to obtain the sensor and allow the sensor to settle for 24hrs prior to use.

2



Remove the front cover from the unit.

3



Secure the sensor to the front cover.

4



Connect the JST cable connector to the JST header on the PCB of the oxygen sensor as shown.

5



Gently place the cover back onto the unit taking care not to trap any wires and secure.

## How to take a reading

1



With the O2EII Pro in your left hand, press the button to turn on.

2



Adjust the calibration knob until the display reads the correct value, using the O2 compensation chart on the back page.

3



Open the tank until you hear the gas gently hissing out.

4



Hold the O2EII Pro in left hand, press the sample dome firmly against the cylinder outlet.

5



Once you have a stable reading, press the power button to hold it.



### **Warning:**

**If a flow rate in excess of 2 litres per minute is passed over this sensor when taking a reading, this will pressurise the sensor and make the reading inaccurate. Best accuracy is achieved with a flow between 0.5 to 1 litres per minute.**

**It is the users responsibility to purchase the correct connection equipment in order to do so. For more information please contact us.**

**Note: Tank contents can be checked either during setup of rig or just before dive.**

## **Fitting the BCD adaptor and taking a reading**



**1** Connect the BCD to the tank.



**2** Prior to fitting the tank hose to the BCD, connect pipe work to the spigot on the dome adaptor on the O2EII



**3** Connect the other end of the pipe work to the analyser flow restrictor.



**4** Connect the analyser flow restrictor to the tank hose.



**5** Allow the O2EII Pro reading to settle, then take a reading by pressing the power button.



**6** Connect the tank hose up to the BCD.

**You are now ready to dive.**

### **Accessories:**

**The O2EII Pro can be supplied with any of the following accessories:**

- a) Storage case (SA2EII MINICASE).**
- b) Sensor Saver (Available in packs of 5—SSP1, or packs of 10—SSP2)**
- c) Replacement Tubing (Per metre, 1817-5000).**
- d) Dome adaptor with spigot (MO2-475).**

### **Oxygen compensation chart for moisture in the atmosphere**

ATMOSPHERE OXYGEN PERCENT IN RELATION TO TEMPERATURE AND RELATIVE HUMIDITY										
TEMP F TEMP C	32 0	40 4	50 10	60 16	70 21	80 27	90 32	100 38	110 43	120 49
RELATIVE HUMIDITY	ATMOSPHERIC OXYGEN PERCENT									
10	20.9	20.9	20.9	20.9	20.8	20.8	20.8	20.8	20.7	20.7
20	20.9	20.9	20.8	20.8	20.8	20.8	20.7	20.6	20.5	20.4
30	20.9	20.8	20.8	20.8	20.7	20.7	20.6	20.5	20.4	20.2
40	20.8	20.8	20.8	20.7	20.7	20.6	20.5	20.4	20.2	19.9
50	20.8	20.8	20.8	20.7	20.6	20.5	20.4	20.2	20.0	19.7
60	20.8	20.8	20.7	20.7	20.6	20.5	20.3	20.1	19.8	19.5
70	20.8	20.8	20.7	20.6	20.5	20.4	20.2	19.9	19.6	19.2
80	20.8	20.8	20.7	20.6	20.5	20.3	20.1	19.8	19.5	19.0
90	20.8	20.7	20.7	20.6	20.4	20.3	20.0	19.7	19.3	18.7
100	20.8	20.7	20.6	20.5	20.4	20.2	19.9	19.5	19.1	18.5
H <sub>2</sub> O at 100% RH	0.6	0.8	1.2	1.8	2.5	3.4	4.7	6.5	8.6	11.5

If the temperature and RH axis meet in this part of the chart, calibrate to the chart O<sub>2</sub> level or with dry air to maintain 0.5% O<sub>2</sub> accuracy in NITROX.

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