02EII 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 Ell 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 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

How to take a reading



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.



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



Remove the front cover from the unit.



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



Secure the sensor to the front cover.



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



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



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



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



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



Connect the BCD to the tank.



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



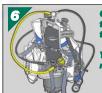
Connect the other end of the pipe work to the analyser flow restrictor.



Connect the analyser flow restrictor to the tank hose.



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



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

TEMPF	32	40	50	60	70	80	90	100	110	120
TEMP C	52	40		200	24	27	32			
	0	4	10	16	-61	61	V-6.	38	43	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 ₂ 0 at 100% RH	0.6	0.8	1.2	1.8	2.5	3.4	47	6.5	8.6	11.5

If the temperature and RH axis meet in this part of the chart, calibrate to the chart O₂level or with dry air to maintain 0.5% O₂ accuracy in NITROX.

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Analox 15 Ellerbeck Court, Stokesley Business Park, Stokesley North Yorkshire, TS9 5PT UK Tel: +44 (0)1842 711400 Info@analox.net Analox USA 5981 Engineer Drive Huntington Beach, CA 92649 Tel: 714 891-4478 or (877) SAFE-AIR (723 -3247) Info@analox.net