

Advantages of the VN202 over other Oxygen Analyzers:

External Sensor

Sensors have two membranes and the sensor requires ambient pressures on the rear to equalize pressures. Sensors respond to Partial Pressure changes so any build up of pressure inside the sensor will appear as an increased electrical output .

The remote sensor is easily changed by the user. To many people the sensor is the least understood and therefore the first thing to be suspect when things go wrong. VN202 sensors can be quickly exchanged without opening the instrument case. No tools are required. The user can change sensors in seconds.

The Analyzer is always vulnerable during measurement. Single handed calibration can be difficult in certain diving activities. The lightweight sensor can be left on the cylinder and the analyzer can be laid on a nearby surface allowing both hands to be free.

Moving gas always generates pressure which is interpreted by the instrument as an Oxygen percentage so ideally the calibration and measurement should always be made in a still gas.

This is the reason for advising the use of either the DIN Kit or a Plastic bag with small holes. Any system with a restrictor and continuous flow requires a constant pressure to produce constant flow. This flowrate must also be used during calibration in air for true accuracy. Most of the currently available flow restrictors depend on their ability to reduce the flow to between 0.5 and 2.0 Ltr per minute either direct from the cylinder or from the direct feed.

With either method time is required to achieve an accurate measurement

1. Flush system out with air or the recommended time (a minimum of 30 secs)
2. Connect the cylinder to be measured
3. Flush out with gas for recommended time
4. Calibrate in Air to check calibration has not changed
5. Long periods in high flow rates will effect the temperature control on the sensor causing drift.

Auto switch off on the VN202:

Attention during measurement is rightly concentrated upon accuracy and correct use. Auto switch off removes one more problem for the diver. A by-product is increased battery life.

Instruction Booklet supplied with the VN202:

This booklet is specifically written for divers and gas mixers.

Carrying/Storage Case

This is the safest place to carry and store the Oxygen analyzer and its accessories

Web site <http://dSPACE.dial.pipex.com/vandagraph/>

Email vandagraph@dial.pipex.com