

## Dual Range Oxygen and Moisture Glove Box Monitoring System Datasheet

Based around the accurate 16 bit electronics and software of our well proven gas monitoring systems, we have developed and supplied to clients a 19" 3U rack mounted system for the accurate measurement of oxygen and moisture in glove boxes. The dual range oxygen measurement channel with automatic range change for 0-1% O<sub>2</sub> to 1%-25% O<sub>2</sub> has an accuracy of 0.01% O<sub>2</sub> on the low range and 0.1% O<sub>2</sub> on the high range. The measurement of moisture is in the range of 0-20000ppmvv



Configurable outputs are available from rear mounted LEMO connectors, typically these can be nitrogen purge, high oxygen and moisture alarm, oxygen channel and moisture channel fault. The unit is available as 110 v ac and 230 v ac

The OX-AN Oxygen and Moisture Glove Box Monitoring System continuously monitors and displays the level of Oxygen (O<sub>2</sub>) and moisture (displayed as H<sub>2</sub>O) from two individual locations within a glove box. The system is pre-configured with detection levels for O<sub>2</sub> and moisture which provide audible, visual and control outputs.

A key switch located on the front panel enables a selection of user accessible features. The key switch is set to the OFF position (vertical) when the system is operational.

During normal operation the LCD displays the O<sub>2</sub> sensor range, the percentage O<sub>2</sub> and the moisture level in parts per million (ppm). A typical LCD output is shown as Figure 1.

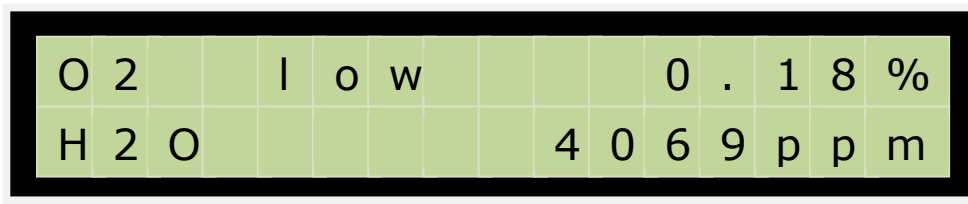


Figure 1 LCD Output - Normal Operation

### Automatic Operation

If the value of O<sub>2</sub> or moisture exceeds the corresponding threshold level, the system automatically sets the relevant outputs. When the value of O<sub>2</sub> or moisture returns to a value below the threshold the system automatically resets the outputs.

No user action is required for normal operation.

*For more system details download the user manual from the resources page on our website*

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