

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% O₂ to 1%-25% O₂ has an accuracy of 0.01% O₂ on the low range and 0.1% O₂ 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 (O₂) and moisture (displayed as H₂O) from two individual locations within a glove box. The system is pre-configured with detection levels for O₂ 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 O₂ sensor range, the percentage O₂ and the moisture level in parts per million (ppm). A typical LCD output is shown as Figure 1.

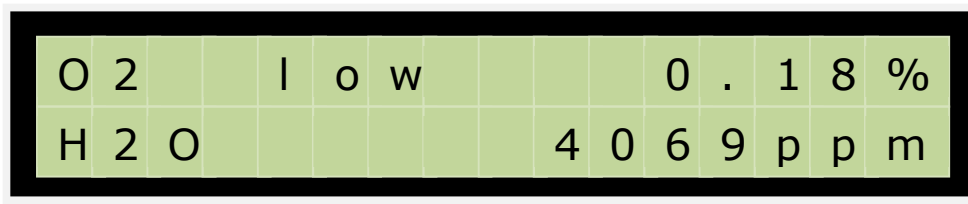


Figure 1 LCD Output - Normal Operation

Automatic Operation

If the value of O₂ or moisture exceeds the corresponding threshold level, the system automatically sets the relevant outputs. When the value of O₂ 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

Raymond Coupland Environmental

Unit W1

Technology Court

Whinbank Park

Newton Aycliffe

County Durham

DL5 6DA

United Kingdom

Tel: (44) 0800 7720894

www.ox-an.com