

# ORBITAL WELDING EQUIPMENT



## ORB 1000

Oxygen Analyser for Inert Gases

Simple Interface to ORBIMAT C Power Supplies

Long Life Maintenance Free Sensor

Measuring Range of 10-1000 ppm



The ORB 1000 oxygen analyser has been designed to enable our customers to be able to perform to all the latest quality assurance regulations. With this instrument you will be able to give your client a guarantee that all welds performed will have an acceptable internal finish.

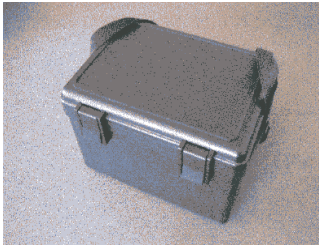
The ORB 1000 will plug into our standard ORBIMAT C power supplies. The power supply will then only weld if the internal purge level is acceptable. The power supply will also monitor the levels during welding and should a problem occur where the gas level rises the weld cycle will be interrupted and the operator will be notified.

The unit will give an accurate and reliable measurement of oxygen content down to 10 ppm. The sensor uses new technology which gives it a long life expectancy with little or no maintenance required.

### Features

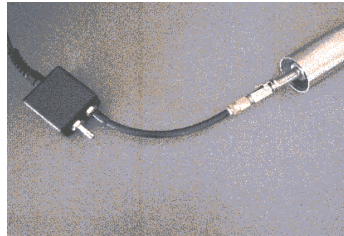
- ✚ Housed in Tough Carry Case
- ✚ Long Life Sensor
- ✚ Instant Sensor Reaction Time
- ✚ Direct Interface to Orbimat C Power Supplies
- ✚ RS232 Interface to PC
- ✚ Accurate Low Level Readings
- ✚ Bi-Lingual
- ✚ High & Low Alarm Levels
- ✚ Menu Driven for Easy Operation

The ORB1000 is supplied in a tough ABS case with room to house all accessories and leads. This makes the unit easy to transport and store.



The ORB 1000 has been designed and manufactured with orbital welding in mind, this means it is very user friendly and needs user input once set. The unit is controlled via a menu system can be operated in English or German.

To allow quality records to be maintained the unit also has an PC interface which allows the operator to store log files for behaviour of oxygen levels during the welding cycle.



The sensor is mounted into a tough housing with an input port for entry of the gas to be monitored with a universal inlet to allow connection to any purging equipment.

The ORB1000 gives a clear display of the oxygen content of the purge gas in ppm (parts per million).

The unit makes use of a unique compact sensor which can give very accurate readings, even down as low as 10 ppm (0.001 %). This sensor gives an almost spontaneous reaction to any change in gas level. As this sensor does not contain a liquid cell it will not absorb oxygen when left unused for a period of time.

This means the sensor will have a life expectancy of at least five years.

When combined with an ORBIMAT C Orbital Welding Power Supply you can get a comprehensive data logging system for QA and QC purposes, which gives complete peace of mind.

In addition to the data logging facility on the ORBIMAT C Orbital Welding Power Supplies, the ORB1000 can be connected to a PC via a RS 232 interface and this can be used for more detailed weld purge data log files.

#### Technical Specification

Input Power - 115 / 230 volts AC 50/60 Hz

Power Consumption - < 20 watts

Computer Interface - RS 232

Measuring Range – 10 to 1000 ppm Oxygen  
- (0.001 to 0.1%)

Insulation - IP65

Start Up Time - 2 Minutes

Dimensions – 220 x 160 x 150 mm

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