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## Analox MRC MkII Portable CO<sub>2</sub> & O<sub>2</sub> Monitor

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**The Analox MRC MKII is a battery powered portable monitor designed to monitor carbon dioxide and oxygen concentrations from manned one and two man recompression chambers, where calculating ventilation rates for such small chambers can be problematic. The MRC MKII is connected by a sample line from the chamber exhaust and will continuously monitor the chamber atmosphere to ensure it meets the required standards.**

The MRC MKII is a highly accurate solid state microprocessor driven portable monitor. It is designed to provide the operator with accurate and reliable information on the chamber atmosphere to ensure the correct O<sub>2</sub> and CO<sub>2</sub> levels are maintained. The monitor has an internal pressure reducer, to enable it to take samples at pressures up to 8 Bar G.

To offer additional flexibility the MRC MKII can be operated from an external power source, or its internal batteries which will provide a minimum of 7 days continuous use before replacement is needed. The monitor operates using two measuring principles, electrochemical for oxygen measurement and infra red absorption for carbon dioxide. Waterproof and dustproof membranes cover each sensor to prevent cell contamination which often causes inaccurate readings.

The Analox MRC MKII is fully temperature and drift compensated to provide short and long term reliability.

Individual liquid crystal displays each with a backlight offer high visibility and clarity even when operating in low light conditions.

When fitted the audible and visual gas alarms are adjustable to suit local operating standards. Audible alarms can be muted, and are latched to ensure gas alarms are not overlooked if the system is left temporarily unsupervised. An audible and visual flow alarm is a standard feature to ensure the operator is immediately alerted to any flow failure.

Calibration is easily performed by passing calibration gas through the sample inlet and using either the calibration software, or the push buttons on the front of the monitor.

The MRC MKII has an optional datalogging facility to provide historical analysis of the chamber atmosphere.



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## Specification

Operating Range	Carbon Dioxide 0 - 5000ppm Oxygen 0.1-100%
Alarms	Audible and visual; High CO <sub>2</sub> , High & low O <sub>2</sub> , and flow
Resolution	Carbon Dioxide 1 ppm Oxygen 0.1%
Display	2 LCD's, character size 8mm x 5mm
Temperature	Operating 0 to 40°C Storage -5 to 50°C
Accuracy	Carbon Dioxide typically $\pm$ 3% of range Oxygen typically $\pm$ 1% of reading $\pm$ 0.2% O <sub>2</sub>
Humidity	0-100% RH non condensing
Pressure Inlet	0-8 Bar Gauge
Enclosure	IP65
Power Supply	External: 8-40vDC Internal: 4D size Alkaline batteries providing a minimum of 7 days continuous operation.
Certification	CE marked

### Dimensions

Width	235mm (9.2")
Height	190mm (7.5")
Depth	100mm (4")
Weight	2.2 kg (4.8 lbs) including batteries

### Accessories & Options

Calibration Kit  
Data download Kit

### Applications

Manned Recompression Chambers

### Warranty

CO<sub>2</sub> Sensor: 5 year  
O<sub>2</sub> Cell: 2 year graded at NTP  
Electronics: 2 years

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**Analox Sub MRC MKII Portable Chamber  
Monitor**

Order Code GA100001