

Analox MRC MKII Portable Chamber Monitor



Breathing Air monitoring on the move

If you use portable chambers ...



Analox MRC MKII



photo courtesy of Southern Oceanics Ltd

... you need an MRC MKII to monitor the carbon dioxide and oxygen gas levels for diver safety.

BENEFITS and FEATURES

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|---------------------------------|---|---|
| Convenient package | : | Rugged, compact CO ₂ and O ₂ monitor ideal for ship or shore use. |
| User Friendly | : | Easy to operate; simply connect to the chamber outlet and turn the monitor on. Backlit displays make viewing easier in poor light. |
| Extremely portable | : | Lightweight and easy to carry, the MRC MKII is suitable for monitoring multiple chambers and locations continuously 24 hours a day for 7 days before battery replacement. |
| Flexibility in the field | : | The MRC MKII operates from either external or internal power sources, and is able to accept a variety of sample pressures, up to a maximum of 8 BarG |

Description

Analox MRC MKII Portable Chamber Monitor

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 O₂ and CO₂ 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.

Specifications

Operating Range	:	Carbon Dioxide	0 - 5000ppm
		Oxygen	0.1-100%
Resolution	:	Carbon Dioxide	1 ppm
		Oxygen	0.1%
Accuracy	:	Carbon Dioxide	typically $\pm 3\%$ of range
		Oxygen	typically $\pm 1\%$ of reading $\pm 0.2\%$ O ₂
Pressure Inlet	:	0-8 Bar Gauge	
Power Supply	:	External:	8-40vDC
		Internal:	4D size Alkaline batteries providing a minimum of 7 days continuous operation.
Alarms	:	Audible and visual; High CO ₂ , High & low O ₂ , and flow	
Display	:	2 LCD's, character size 8mm x 5mm	
Temperature	:	Operating	0 to 40°C
		Storage	-5 to +50°C
Humidity	:	0-100% RH non condensing	
Enclosure	:	IP65	
Dimensions	:	235mm W x 190mm H x 100mm D (9.2 x 7.5 x 4 inches)	
Weight	:	2.2 Kg (4.8 lbs) including batteries	
Certification	:	CE marked	

Analox has a policy of continuous improvement and we reserve the right to upgrade or change specifications without prior notice. Full technical specifications are available upon request.

15 Ellerbeck Court, Stokesley Business Park, Stokesley, Cleveland TS9 5PT England
Telephone: +44 1642 711400 Fax: +44 1642 713900
www.analox.net info@analox.net

The MRC MKII can be provided with or without alarms. 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.

Accessories and Options

Calibration Kit
Data download kit

Applications

Manned Recompression Chambers

Warranty

CO₂ sensor : 5 years
O₂ cell : 2 year graded at NTP
Electronics : 2 years



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