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The Analox Sub MKIIIF is a hyperbaric atmosphere monitoring system capable of measuring oxygen (O₂), carbon dioxide (CO₂), pressure (depth), temperature and relative humidity.

It is ideal for use in hyperbaric chambers for HBOT or diving and monitoring the atmosphere in Submarine Rescue Vehicles (SRV's).

The Sub MKIIIF can also be configured as an O₂ controller to automatically maintain oxygen concentrations to a preset level. The O₂ controller would typically be used to maintain the chamber oxygen concentration or the oxygen concentration delivered from a bibs system in an SRV.

The Sub MKIIIF consists of a main control panel (operator console) and a number of remote sensor modules (REM's).

A large graphic display on the operator console shows the value of each measured parameter its units of measurement and alarm set points. Two audio/visual alarm channels are available for each measured parameter. The REM's provide local, in chamber displays of the monitored parameters and repeat the audio visual alarm status.

The Sub MKIIIF is powered from a 9 to 24vDC supply, however an option to power from a mains AC is available.

The operator console is designed to provide power to the REM's. 5 cores through a penetrator would be required to enable this (2 power, 3 comm's). Alternatively the REM's could be powered locally.

Analox Sub MKIIIF Hyperbaric Analyser

In its standard mode of operation the Sub MKIIIF monitors the atmosphere via diffusion. This removes the need for pumps and their associated maintenance.

The Sub MKIIIF consists of a main operator console, designed to be mounted in the control room, at atmospheric pressure, and up to 3 remote sensor blocks (REM's). The REM's are designed to be installed inside the hyperbaric environment.

The operator console provides the user interface for changing alarm setpoints, calibration and serial data output.

The REM1 Sensor Unit is designed to continuously monitor:

- Carbon Dioxide
- Oxygen
- Pressure

The REM2 Sensor Unit is designed to continuously monitor:

- Temperature
- Humidity

Each parameter is displayed on an individual display on the REM1 & REM2 and repeated on the main control panel. The REM is fitted with audio visual alarms.



GA-MDS-556 R0

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Specification

General

Range CO ₂	0 to 20.00mBar, 0 to 100.0mBar
Range O ₂	0 to 1500mBar PO ₂ , 0 to 3000mBar PO ₂
Range Depth	0.50 to 10.00 BarA, 0.50 to 60.00 BarA
Range Temperature	0 to 50°C
Humidity	0 to 100% RH
Operating Temp	0 to 50°C
Power Options	12 to 30 VDC
	110 to 230 VAC (option)
Outputs	8 x 4 to 20mA channels
	Voltage outputs (0 to 10V option.)
Alarms	1 alarm indicator for gas/environment alarms,
	1 fault indicator for communications, calibration and general system faults.
Dimensions	Operator Console 260 x 160 x 90
	Sensor Modules 90 x 140 x 55
Data Output	Real time data output on serial port for logging or display on external system.

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**Analox Sub MKIIIF Hyperbaric Analyser with
REM1 & REM2**

Order Code SE 35485

**Analox Sub MKIIIF Hyperbaric Analyser with
REM1**

Order Code SE 36560

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