

# Analox 1000 series Saturation diving analysers

# ANALOX

looking after the air **YOU** breathe®



## Why **YOU** need the Analox 1000 series

### Accurate and reliable readings of diving gasses

- Unique O<sub>2</sub> and CO<sub>2</sub> sensors fully temperature compensated.
- Easy read displays for quick interpretation.
- Full analyser range including He and N<sub>2</sub>.
- Adjustable audio/visual alarms.

### Minimum user downtime

- Designed to be user serviced and maintained.
- Common fixings and connections speeds installation.
- Easy to use - recognisable world wide by 99% of diving technicians.
- Familiarity - needs no re-training to operate all versions due to a commonality of user functions.
- Battery back-up option - in the event of interrupted power supplies.

## Analox 1000 Analyser - Oxygen

The Analox 1000 oxygen analyser is available for ambient monitoring or for measuring gas samples from a chamber or diving bell. The Analox 1000 oxygen analyser is available with either an electrochemical or paramagnetic sensor.

<b>Electrochemical sensor range:</b>	0-100%, 0-200mBar ppO <sub>2</sub> ,	0-2 Bar ppO <sub>2</sub>
<b>Paramagnetic sensor range:</b>	0-100%	
<b>Resolution:</b>	High: 0.01% O <sub>2</sub> or 0.1 mBar ppO <sub>2</sub> Low: 0.1% O <sub>2</sub> or 1.0 mBar ppO <sub>2</sub>	
<b>Accuracy:</b>	±1% of full scale at constant temperature and pressure.	
<b>Power supply options:</b>	115v to 230v AC 50/60 Hz without switching 12v to 24v AC 12v to 32v DC max ripple 1v	



## Analox 3000 Analyser - Carbon Monoxide

The Analox 3000 carbon monoxide analyser is recommended for use with air diving systems, for monitoring the CO content in the gas supplied in the diver. The sensor can be mounted remotely from the 3000 display panel.

<b>Sensor range available:</b>	0 - 100ppm
<b>Resolution:</b>	High: 1 ppm Low: 0.1ppm
<b>Electronic accuracy:</b>	± 0.02% full scale
<b>Power supply options:</b>	115v to 230v AC 50/60Hz without switching 12v to 24v AC 12v to 32v DC max ripple 1v



## Analox 4000 Analyser - Temperature

The Analox 4000 temperature analyser, is designed to monitor air temperature within a living chamber or diving bell. It is also available with a water temperature transmitter for monitoring hot water to dive suits, or for monitoring sea water temperature outside the diving bell.

<b>Sensor range available:</b>	0 - 100 deg°C/-32 - 212°F
<b>Resolution:</b>	High: 0.01°C Low: 0.1°C
<b>Electronic accuracy:</b>	± 0.02% full scale
<b>Power supply options:</b>	115v to 230v AC 50/60 Hz without switching 12v to 24v AC 12v to 32v DC max ripple 1v

## Analox 5001 Analyser - Carbon Dioxide

The Analox 5001 carbon dioxide analyser uses the unique temperature compensated Analox 5S infra red sensor. The 5001 is available with a number of sensor ranges, to ensure optimal performance for air and heliox chambers.

<b>Sensor range available:</b>	0 - 5000ppm, 0 - 10000ppm, 0 - 1%, 0 - 2% Ranges are available in both He and N <sub>2</sub> atmospheres
<b>Operating temperature:</b>	-5 to 40°C
<b>Accuracy:</b>	±3% full scale at constant temperature and pressure
<b>Power options:</b>	110V – 240V AC universal 12v to 24v AC 12v to 32v DC max ripple 1v



## Analox 6000 Analyser - Depth

The Analox 6000 is available with a gauge pressure sensor in a choice of readouts, either feet of seawater (FSW), metres of seawater (MSW) or Bar. The gauge pressure sensor is recommended for monitoring chamber pressure. Whilst the Bar pressure sensor is recommended for monitoring internal pressure inside the chamber or diving bell.

<b>Sensor range available:</b>	0.0 - 400 MSW 0.0 - 1250 FSW (contact Analox for alternative ranges)
<b>Resolution:</b>	Low: 1 metre or foot SW High: 0.1 metre or foot SW
<b>Accuracy:</b>	± 0.3% Full Scale
<b>Power supply options:</b>	115v to 230v AC 50/60 Hz without switching 12v to 24v AC 12v to 32v DC max ripple 1v

## Analox 7000 Analyser - Humidity

The Analox 7000 humidity analyser has sensors for both 0 -100% relative humidity or -100 to +20 deg°C dewpoint. The analyser utilises the highest standards in solid state electronic design. The sensing element is a thin capacitive element of chromium mosaic plates with a polymer dielectric. This changes capacitance directly proportional to the relative humidity. Signal conditioning circuits give a 4-20mA output for the range 0-100% RH.

<b>Range:</b>	0.0% - 100.0%
<b>Resolution:</b>	High: 0.1%RH Low: 0.1%RH
<b>Accuracy:</b>	± 1% of readout
<b>Temperature effect:</b>	± 0.1% of readout per°C
<b>Power supply option:</b>	115v to 230v AC 50/60Hz without switching 12v to 24v AC 12v to 32v DC max ripple 1v

## Analox 8000 Analyser - Helium

The Analox 8000 helium analyser provides a continuous digital display of helium concentration. The analyser incorporates the Analox thermal conductivity helium sensor plus an electrochemical oxygen cell to accurately calculate helium concentration in the 0-100% range.

<b>Range:</b>	0-100% He
<b>Accuracy:</b>	± 0.5% FS@STP
<b>Operating temperature:</b>	0 - 40°C
<b>Relative humidity:</b>	95% at 40°C non condensing
<b>Power supply option:</b>	12-32 VDC, 12-24 VAC, 85-264 VAC 0-1 v output as standard. Optional 4-20mA & alarm relays and battery back-up.



## Analox 9000 Analyser - Nitrogen

The Analox 9000 nitrogen incorporates the Analox thermal conductivity helium sensor plus an electrochemical oxygen cell to accurately calculate nitrogen concentration in the 0-100% range.

<b>Sensor range available:</b>	0 - 100% N <sub>2</sub>
<b>Accuracy:</b>	± 0.5% FS@STP
<b>Operating temperature:</b>	0 - 40°C
<b>Humidity:</b>	95% at 40°C non condensing
<b>Power supply option:</b>	12-32 VDC, 12-24 VAC, 85-264 VAC 0-1 v output as standard. Optional 4-20mA & alarm relays and battery back-up.

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.



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