

SDA O₂

by **ANALOX**

Protecting the **professional diver**



The dual SDA O₂ is a panel/rack mountable oxygen monitor with audio/visual alarms which comprises an SDA monitor and an MEC sensor module, including the oxygen cell. It is designed to be highly modular and flexible so it can be easily integrated into custom atmospheric monitoring solutions.

Analox offers two O₂ state-of-the-art sensing technologies for the SDA - an electrochemical sensor which is compliant with DNV, IMCA, Lloyds, ABS and ADCi requirements and a paramagnetic O₂ sensor, which can offer enhanced accuracy when monitoring low concentrations of O₂. Either version can be used for monitoring O₂ concentrations in decompression chambers, diving bells, O₂ delivered to divers through umbilicals or O₂ added to helium reclaim systems.

The Dual SDA Display has the ability to display O₂ readings in both partial pressure (mbar O₂) and as percent volume (%O₂). This will allow the end user to read the levels of oxygen in either parameter without having to carry out any conversion calculations.

A pressure sensor is required for the SDA O₂ to enable the display to be presented in partial pressure (mbar O₂), this must take a reading from the same location as the gas measurement. Information is communicated via Ethernet to the SDA O₂ display to calculate a partial pressure readout.

The unit monitors chambers internal atmosphere by the use of external sensors. The alarm set points and calibration can be achieved using the front panel user interface and the SDA O₂ provides audio/visual alarms, optional data-logging and 4-20mA/relay outputs.

Key Features

- Intelligent sensors flag when calibration and sensor change are due
- Designed with the latest digital technology
- Easily configurable with interchangeable sensors and software
- Large, bright, full colour display
- Datalogging option

Gasses Detected

Oxygen (O₂)

Applications

- Commercial Diving



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US Office: (714) 891 4478
US Toll Free: (877) 723 3247

SDA O₂

Tech Spec - SDA Monitor

Power source	External stabilised 12-32V DC supply, regulation <±300mV. (Optional universal 110-230V AC supply power supply)
Operating current	Maximum 640mA at 24V DC supply
Display panel	320 x 240 TFT colour graphic display with 10 brightness levels. Dual display shows current values of measured parameters using 8mm high large characters.
Alarm indicators	Onscreen visual indication of faults and 2 fully adjustable alarm levels per parameter. (Optional volt free contacts for individual alarms with SDA Output Module).
Outputs	RS485 serial data output. Ethernet data output (optional 4-20mA output with SDA Output Module, limited to one parameter).
Rating	IP22
Operating temperature	-5 to +55 °C
Storage temperature	-10 to +70 °C
Operating pressure	700 to 1300 mbar absolute
Humidity	0 to 95 %RH at +55 °C non-condensing
Dimensions	Rack: 106 x 129 x 31 mm Panel: 120 x 133 x 31 mm
Weight	Rack mount version: 595g Panel mount version: 665g
Audio	Speaker: 1W, used for user interface navigation, buzzer: 88dB at 10cm, alarm and fault indication
Operational life	The product is expected to achieve an operational life of 10 years

Tech Spec - MEC Oxygen Sensor

Detection technique	Electrochemical
Operating current	average 200mA at 24V DC supply
Range and accuracies	0 to 100% O ₂ ±0.035% O ₂ , ±1% of reading, ±0.5% of reading/°C
Response time	15 seconds to T90
Rating	IP65
Operating temperature	-5 to +55 °C
Storage temperature	-10 to +70 °C
Humidity	0 to 99 %RH at +55 °C non-condensing
Dimensions	65 x 50 x 35 mm

You can call us

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info@analoxgroup.com

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