SUB ASPIDA

by ANALOX

Thrives under pressure



Whether you are measuring the atmosphere in an aircraft at altitude or in a submarine under the sea, the **Sub Aspida** can take the pressure.

The Sub Aspida is a personal, portable monitor which is used to detect levels of carbon dioxide (CO_2) and oxygen (O_2) in pressurized environments.

It is **critical to use pressure compensated sensors** in these environments, otherwise it's likely that you will get false readings, exposing your team to potentially dangerous levels of gas.

Relax, let the **Sub Aspida** take the pressure.

Benefits

- The **Sub Aspida** is the only pressure corrected gas monitor on the market making it the No.1 choice for pressurized environments
- **Ideal for emergency situations** - if there is no power source to charge the unit, you can simply use AA batteries
- A **cost effective** and more accurate alternative to colorimetric tubes
- **Fits perfectly** to the operator panel of a submersible
- **Ideal for confined spaces** such as a ballast tank or cargo hold
- The man down alarm offers **additional protection for lone workers**
- Simple to use and calibrate, the O_2 sensor can be calibrated in fresh air - **no need for gas cylinders**
- High performance in both **pressurized and non pressurized environments**
- Intelligent software allows 2 users to be registered on one unit - **perfect for shift working**

Gases Detected

Oxygen (O_2), Carbon Dioxide (CO_2)

Features

- OLED (Organic Light Emitting Diode) display
- Pressure compensated CO_2 & O_2 sensors
- Rechargeable battery operated (NiMH)
- Datalogging
- Man-down alarm
- Can offer continuous monitoring or spot checking
- Audio, visual and vibration alarms
- TWA (Time Weighted Average) Alarm
- User maintainable
- Can be worn on the belt or clipped to a panel
- Pressure range of 700-1200mbara
- Maintenance reminders as standard

Why Analox?

...because different environments don't scare us... we embrace them

Hostile or dangerous environments don't bring us out in hives, **we adapt** our sensor technology to monitor some of the **toughest atmospheres on and off the planet.**

Your Challenge, **Our Passion**

Speak to our team today

UK/Global: +44 (0)1642 711 400
US Office: (714) 891 4478
US Toll Free: (877) 723 3247

SUB ASPIDA

Tech Spec

System Specification	
Operating temperature	0°C to +50°C
Operating pressure	700 to 1200 mbara
Humidity Range	0 to 99% RH
Display	High-visibility, Organic Light Emitting Diode (OLED) display
Alarm horn	95dB @ 30cm
LED indicators	1 x Green - OK, 1 x Amber - Fault, 1 x Red - Alarm
Internal data log	1 log every 30 seconds for at least 7 days of continuous use
Batteries	2 x NiMH 2100mAh AA batteries (or suitable AA type batteries)
Battery discharge time	12 hours under normal operation (Passive atmospheric monitoring, minimal user interaction, no alarms)
Battery lifespan	2 years
Battery charge time	4.5 hours (from flat)
Charge power supply rating	9 V DC - 0.55A, DC jack 5.5x12.0x2.1mm centre +ve
Calibration adapter max flow	0.5 l/min
Electronics warranty	2 years
IP rating	IP65
Dimensions	127 x 44 x 90 mm / 5 x 1.7 x 3.5 inches (LxDxW)
Weight	335g/11.8oz , **O2** 350g/12.3oz, **CO2** 335g/11.8oz

Applications

- Cargo planes flight deck
- COVID vaccine distribution
- Dry ice shipping & logistics
- Clinical trials storage & shipping
- Submarine rescue vehicles
- Submarine escape & rescue
- Submarine atmosphere monitoring
- Military aircraft
- Commercial airlines
- Hyperbaric oxygen therapy (HBOT)

Want to talk about your **application requirements? Give us a call!**

FACT

Safety standards such as the CS-25 state that CO_2 concentration on a flight must not exceed 0.5% volume. CO_2 monitoring is recommended when transporting a product using dry ice and the regulations also advise that two units should be used in case of a sensor disagreement.

Sensor Spec

	CO_2 Sensor	O_2 Sensor
Sensor Type	Analox infrared MIR	Electrochemical
Range	0.01 to 50.0 mbar ppCO_2 (0.01 to 5% at 1000 mbara)	0.1 to 2000.0 mbar ppO_2 (0.1 to 100% O_2 at 1000 mbara)
Accuracy (At standard temperature and pressure):	±(1% of full scale + 2% of reading)	±1% of full scale *(For best performance, calibrate the Sub Aspida while on battery power only.)*
Response time:	T90 <60 seconds	T90 <30 seconds
Sensor life span:	5 years	1 year (expected)

You can call us
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You can email us info@analoxgroup.com

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