

ASPIDA

Your personal **shield**

by **ANALOX**



Do you need protection from carbon dioxide (CO₂), inert gases, or enriched oxygen (O₂) on the move? **Then the Aspida is the portable for you.**

This robust personal protection alarm can detect **enriched levels of CO₂** and both **enriched and depleted levels of O₂**.

Featuring a **man down alarm** it is ideal for lone workers and with its **data logging capabilities** you have full traceability of the health and welfare of your team. The data logging function also offers the benefit of proving adherence to short and long term exposure limits for CO₂ and O₂ as outlined in **legislation such as EH40 and OSHA**. In the medical field, it also ensures safe practices in line with **Standard Operating Procedures such as the NHS SOPS for O₂ enrichment**.

The Aspida, ([Greek for Shield](#)) helps you comply with the regulations, will remind you when maintenance is needed and it safeguards the user from the gas risks.

So when you need hassle free, personal protection, **choose the Aspida.**

Benefits

- **Safeguards your team** and monitors their exposure limits
- Enables you to **comply with legislation** and keep accurate health and safety records
- **Ideal for emergency situations** - if there is no power source to charge the unit, you can simply use AA batteries
- Ideal for **confined space monitoring**
- The **man down alarm** offers additional protection for lone workers
- The **automatic maintenance reminders** help you to keep your unit in top condition
- **Simple to use and calibrate**, the O₂ sensor can be calibrated on fresh air - no need for gas cylinders
- **Intelligent software** allows 2 users to be registered on one unit - perfect for shift working

Features

- OLED (Organic Light Emitting Diode) display
- Available as CO₂ only, O₂ only or Dual CO₂ and O₂
- Rechargeable battery operated (NiMH) or externally powered
- Data Logging feature
- Man-down alarm
- Panic button to manually raise an alarm
- Offers both continuous monitoring and spot checking
- Audio, visual and vibration alarms
- TWA (Time Weighted Average) Alarm
- Can be worn on the belt or an optional wall mount is available
- Automatic maintenance reminders and fully user maintainable

Gas Monitored

- Carbon Dioxide (CO₂) and Oxygen (O₂)

Your Challenge, **Our Passion**

Speak to **our team today** UK/Global: +44 (0)1642 711 400
US Office: (714) 891 4478
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ASPIDA

Tech Spec

System Specification	
Operating temperature	-5°C to +50°C
Humidity Range	0 to 99% RH
Display	High-visibility, Organic Light Emitting Diode (OLED) display
Alarm horn	95dB @ 30cm (110dB - man-down alarm)
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	15 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
Electronics warranty	2 years
IP rating	IP65
Dimensions	127 x 44 x 90 mm / 5 x 1.7 x 3.5 inches (HxDxW)

	CO ₂ Sensor	O ₂ Sensor
Sensor Type	Analox infrared MIR	Electrochemical
Range	0.01 to 5%	0.1 to 25%
Accuracy (at standard temperature and pressure):	±2% of full scale between 0.01% and 2.5%, ±3%	±3% of full scale between 0.1% and 25%
Response time:	T90 <60 seconds	T90 <30 seconds
Sensor life span:	5 years	2 years (expected)

FACT

TWA is a person's average airborne exposure in any 8 hour shift. Standards around the world like **EH40** and **OSHA** stipulate the permissible limits of this exposure to hazardous gases and oxygen levels.

Applications

- Ventilation
- Fast food, restaurants, pubs and bars
- Breweries
- Gas delivery drivers
- Hospitals (ER, ICU, COVID wards and A&E)
- Laboratories
- IVF & Medical clinics
- Pharmacies
- Dry Ice users and shipping
- Horticulture, including cannabis and tomato farms
- Gas manufacturing & blending
- Biomass & Biogas plants
- Carbon capture facilities

Why Analox?

...because safety is at the heart of everything we do!

The Analox team understand how their roles impact on safety critical products. We have a dedicated, specialist team ensuring millions of lives are protected across the globe.

Want to discuss your **application needs?** Give us a call!

You can call us

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You can email us

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