

ANALOX DEFENCE

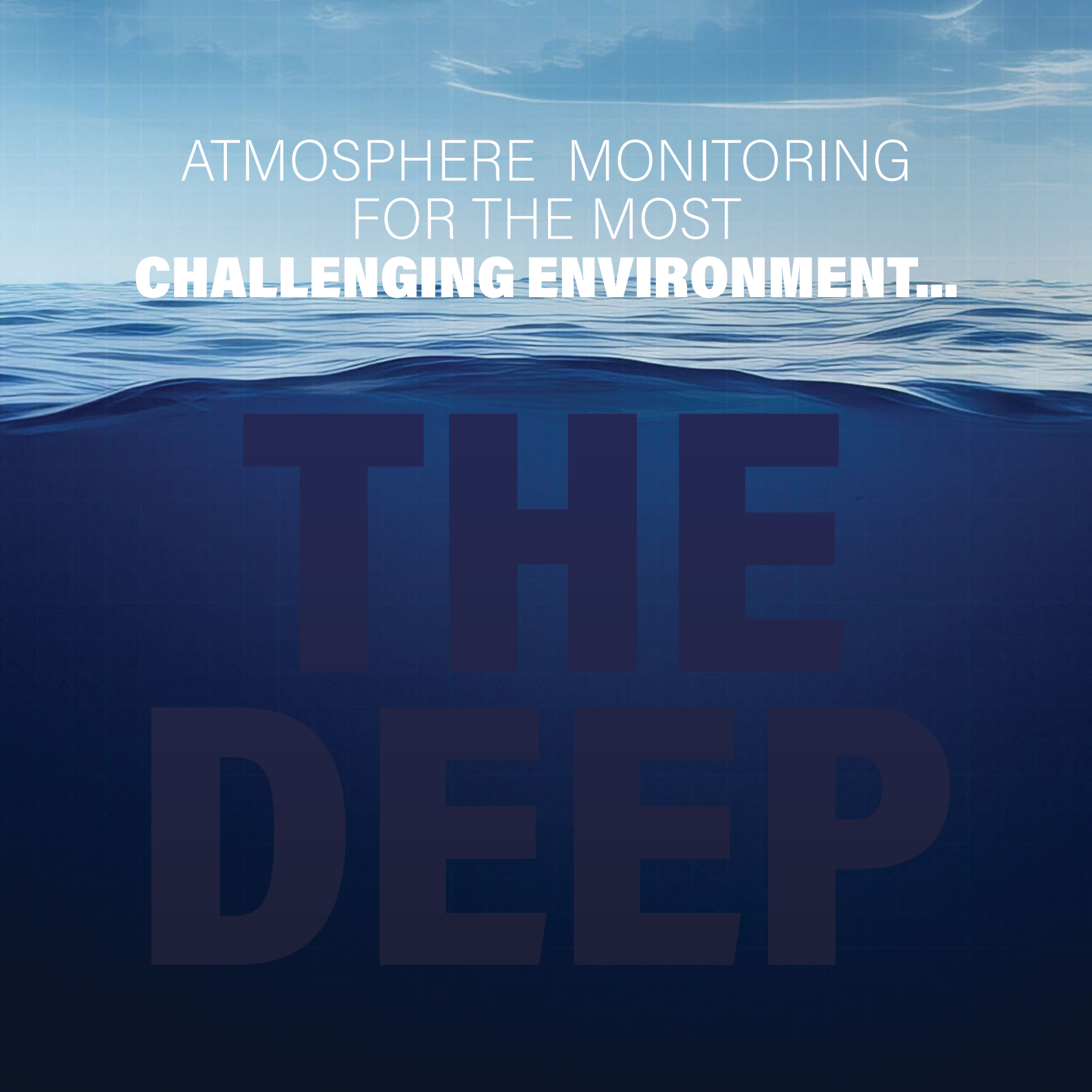


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V05 - June 2026



ATMOSPHERE MONITORING
FOR THE MOST
CHALLENGING ENVIRONMENT...

**THE
DEEP**

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OUR VALUES



Teamwork



**Commitment
to Excellence**



**Customer
Focus**



Pride



Integrity



Bold

WHY CHOOSE US?

We are **DEDICATED** to you: your safety, your process, your application.

We love a **CHALLENGE** and will develop a **SOLUTION** just for you.

We are **PROUD** to fly the flag for **SME's** in the defence sector.

[Click here](#) to read our recent announcement where Analox Group has been awarded a contract with the **UK Ministry of Defence (MOD)** for the manufacture and in service support of **submarine atmosphere monitoring systems**.

SUBMARINE ATMOSPHERE MONITORING

Your proven partner through life, by design

Analox has extensive knowledge in providing submarine atmosphere monitoring systems. Offering a 'cradle to grave' service; from inception to disposal, our capabilities span the specification of requirements, product design (including safety critical designs to IEC61508), through manufacturing, installation, commissioning and training. All systems are designed with a flexible system architecture ensuring your specific technical requirements, now and in the future, are achieved.

Supporting you in;

- Selecting the most appropriate, proven sensing techniques
- Designing for safety
- Designing for minimal on board maintenance ensuring submariners can concentrate on their primary roles

“

The word '**Improvement**' was mentioned several times in all areas of your business, that is very encouraging. It is clear that you are a good organisation with a **high quality way of working which is rarely seen in smaller companies.**

”

- Customer during an audit of Analox

CASE STUDY

Analox worked with the Royal Norwegian Navy to supply a carbon monoxide gas monitoring system for six Ula Class diesel electric submarines. Carbon monoxide (CO) detection is problematic on submarines due to the presence of hydrogen. Analox developed a new system

using an accurate infrared gas filter correlation (GFC) CO sensor which is not cross sensitive to hydrogen. The team developed, manufactured, installed and commissioned the system. Since the development, other nations now have the **COSAMS** unit fitted.



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Courtesy of BAE

Courtesy of BAE



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SUBMARINE ATMOSPHERE MONITORING

SUBMARINE ESCAPE & RESCUE

Delivering reliable information to allow you to make trusted decisions

For over 20 years, Analox has worked with the **Submarine Escape and Rescue** community ensuring our analysers meet and exceed NATO standards for submarines with an escape capability. These decision making tools provide critical information on the state of the atmosphere and are simple to operate, whilst providing vital information to the senior survivor during a **DISSUB incident**.

We are dedicated to working with you to ensure our products are designed to work in the most hostile environments. Using proven hyperbaric sensing technology, simple effective design and minimal on board maintenance ensures submariners can concentrate on their primary mission. For rescue systems Analox provides a range of hyperbaric monitoring systems for use within the submarine rescue vehicle (SRV), or surface decompression chambers, in addition to solutions for the support infrastructure.

“

The Sub MkIIP is a good piece of equipment, especially as it monitors partial pressure.

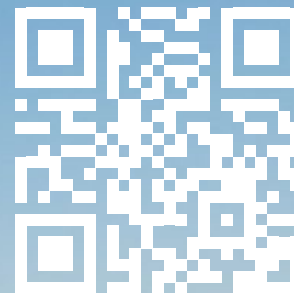
”

- Francis, Naval Group

CASE STUDY

In the early 1990's Analox produced its first hyperbaric continuous real-time analyser for submarine escape and rescue - the EIR15P. This unit was supplied to the Royal Navy for British Submarine escape compartments.

In 2000, the unit was replaced by the Sub MkIIP and then in 2021 we launched the **Sub Mk3P**. This is the only continuous analyser to meet ANEP/MNEP requirements. Nations utilising the Sub MkIIP include; UK, Canada, USA, Australia, Brazil, Netherlands, France and many more.



SUBMARINE ESCAPE & RESCUE



NAVY DIVING

Reliable information to enable trusted decision making

For over 30 years, Analox has worked with the diving industry providing a range of fixed and portable monitors and specialized original equipment manufacturer (OEM) partial pressure (pp) sensors ensuring military divers are kept safe whilst diving. Air, mixed gas and saturation divers are protected by proven systems which are NATO coded and authorized for navy use (ANU) listed.

We offer a full range of analysers that are designed to be simple and intuitive to use and maintain. As such they can be maintained on board in order to reduce cost and increase equipment availability.

“

We use the **SDA range** in our re-compression chambers. They have been working very well for us. Maintenance is minimal and they do a great job of monitoring the environment inside the chambers.

”

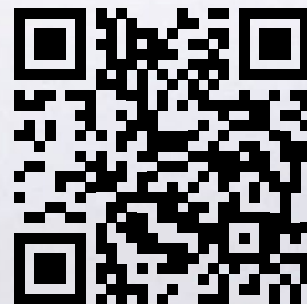
- Canadian Fleet Diving Unit

CASE STUDY

A sub-contract required Analox to manufacture and supply bespoke SDA units for a saturation dive system/submarine rescue system. Each rack mounted

set monitored depth, pp O₂, pp CO₂ and He and was designed to operate at 450 meter sea water (msw).

Call the Analox team on **+44 (0) 1642 711 400** and discuss your requirements.



NAVY DIVING

BREATHING AIR MONITORING

Delivering you continuous assurance of the quality of your compressed breathing air

Ensuring your compressed air is free from contaminants like carbon dioxide, carbon monoxide, oil mist and water is critical to ensuring the safety of your team. Our continuous on-line monitors can also be used as a portable and provide you with constant assurance that your compressed air is **free from contamination and safe to breathe**.

The instant, verifiable, recorded results provide reassurance to engineers testing compressed air. Our comprehensive training programme ensures you are fully self sufficient in the operation and maintenance of your equipment, reducing equipment downtime and saving you money.

The **ACG+** will also assist you in adhering to standards and regulations such as; DEF-STAN 68-284, EN12021, CGA, CSA and OSHA.

“

Analox have a proven track record with an excellent reputation. They offer a major step forward in air testing technology with best practice on a high level of assurance.

”

Des Mullan - Joint Service Sub Aqua Diving Centre - JSSADC

CASE STUDY

In 2020, **HMS Protector underwent a 10 month extensive overhaul program**. Installing the most-recent version of the Analox ACG+ gas monitoring system was part of that process. With multiple compressors on-board for SCBA

(self-contained breathing apparatus) and CABA (compressed air breathing apparatus) operations, there is an obvious need for reliable, consistent monitoring of the breathing gasses the sailors utilize. [Read more about our case study here.](#)

Email the team with your requirements on **info@analoxgroup.com**, we will be delighted to assist you.



BREATHING AIR MONITORING

THIS IS WHAT WE DO...

Whole boat
Primary &
Secondary
Atmosphere
Monitoring

Emergency
Atmosphere
Monitoring:
DISSUB,
Damage
Control

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Gas Monitoring for
Dedicated Ship Systems:
Decompression
Chambers, Breathing Air,
Confined Space Entry



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Hyperbaric
Atmosphere
Monitoring System
for Submersibles

ATMOSPHERE
MONITORING
FOR THE MOST
**CHALLENGING
ENVIRONMENTS**

THIS IS WHAT WE DO

OUR CAPABILITIES & PARTNERS

Analox has been working shoulder to shoulder with the military community for over 20 years and we are proud to work with, and supply, systems to numerous Navies and Prime Contractors globally.

Our experience and capabilities range from;

- Specification of suitable sensing techniques using our network of technology partners
- Consultation to support the design specification process
- Bespoke design solutions
- Safety critical designs to IEC 61508
- Information assurance (IA)
- Commercial off the shelf (COTS) products
- Onsite engineering support
- Training
- Through life support solutions

Each Analox customer works with a dedicated account manager to support their requirements.



*‘We need products
on time and of high
quality. I have
confidence in Analox
and trust that they will
deliver this.’*

Paul Bellis-Jones
BAE Systems Marine

BAE SYSTEMS

WHAT OUR CUSTOMERS THINK



“

We appreciate Analox's ability and willingness to respond to our requirements. The service Analox provides is commendable.

”

- Babcock Canada

“

BAE SYSTEMS

We need products on time and of high quality. I have confidence in Analox and trust that they will deliver this.

”

- Paul Bellis-Jones, BAE Systems Marine

“



I like the simplicity of the ACG and the speed of the Dewpoint sensor.

”

- US Navy



“

Speaking to people in Analox you sense the passion and pride and where you have a proud workforce you have a good company. Analox have a good name in the submarine community - good service, reliable products and easy to work with.

”

- Jos Bogaert

“

Staff at Analox are friendly, efficient, helpful and reliable.

”

- MSI Defence Systems

MSI™
MSI-Defence Systems Ltd



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APPROACH TO THROUGH LIFE SUPPORT

We know that if you are confident in the operation and maintenance of your atmosphere monitoring system it will maximize its effectiveness. Our goal is to work with all our customers to ensure we enable you to be fully self sufficient in the operation and through life support of your system.

Through life support includes:

- Product & configuration management
- Obsolescence management
- Refurbishment and overhaul capability
- Dedicated training & technical support
- Customer support - on site, remote and helpline
- Spares and service contracts to suit a range of requirements



ANALOX ACADEMY
Your **ROUTE** to all things Analox

To discuss your **through life support** requirements speak to an account manager today **call +44 (0) 1642 711 400**



ANALOX TRAINING; ENHANCING YOUR CAPABILITIES

Offering hands on training by a product expert

With all training our aim is to ensure that you are self sufficient in the operation and maintenance of your Analox product. We know that confidence in your product will enable its effective use, reducing downtime for you and your organization.

All Analox training is fully flexible and can be designed and delivered to meet your specific needs.

A typical training course includes:

Operator Training

- System overview
- User interface
- Alarms
- Data logging & downloads
- Troubleshooting

Maintainer Training

- System overview
- Installation
- Preventative maintenance
- Corrective maintenance
- **Fault finding including:**
 - Troubleshooting
 - Log files
 - System status screens

Contact the **Analox training department** to initiate your learning requirements call **+44 (0) 1642 711 400**

X

Replace the infrared source

1. Disconnect the infrared source from CN50 on the CO sensor.
2. Remove the two bolts and washers securing the infrared source to the motor plate.
3. Fit the replacement infrared source and secure using bolts and washers.
4. Re-connect the infrared source to CN50 on the CO sensor.
5. Once the system has been re-assembled, powered-up and the warm-up time has elapsed, calibrate the system.

[Back to COSAMS Maintenance](#)
[Back to COSAMS Faults](#)

Contact Us

Tools & Information

P0151-M003-00

95% of delegates would highly recommend a training course to anyone who has an Analox analyser.
 Why? **They can tell you themselves:**

“ The instructor is very knowledgeable on the product which is most helpful. ”

“ Training is delivered in terms that are easy to understand and was fun and captivating. ”

“ Hands on training makes it a lot easier to learn and get to know the equipment. ”

“ Training boosts your confidence in troubleshooting and repairs. ”

ABOVE & BEYOND

Analox is focused at operating to a high standard and we are **committed to continuous improvement**, ensuring you always receive the best from us.

Analox are leaders within the **SC21 supply chain programme**. We have been involved from the start; participating in trials as well as setting up the implementation.

In 2019 Analox was awarded **Cyber Essentials**. The scheme ensures rigorous testing of organisations cyber security systems.



sc21.org.uk



ncsc.gov.uk/cyberessentials



The background of the entire image is a dark blue, textured surface representing ocean waves. The waves are in motion, with white foam visible at the crests, creating a sense of depth and movement. The lighting is dramatic, with highlights on the wave crests and deep shadows in the troughs.

Designing for
SIMPLICITY

Designing for
AVAILABILITY

Designing for
SAFETY

Designing for
LIFE

GET IN TOUCH

You can call us

UK/Global: +44 (0) 1642 711 400

You can email us

defence@analoxgroup.com

24/7/365 Emergency Helpline

0800 211 8160 (UK and rest of the world)
(855) 711 4994 (US)

Analox takes pride in the **design, manufacture, and service support** of your products. We also value your contribution, we listen to your feedback and comments, helping us make sure that you have the **capability you need, when you need it.**

So please, get in touch and send us your feedback using the email below:

defence@analoxgroup.com

analoxgroup.com

Follow us on...



Analox Group

OUR PEOPLE, **KEEPING**
YOUR PEOPLE, **SAFE**



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MAKEuk
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