

APM

ATMOSPHERE PROTECTION MODULE

by **ANALOX**

Protecting your crew in high-risk spaces



The Analox APM (Atmosphere Protection Module) is a unique, configurable, modular system, which can be used as a stand-alone atmosphere monitor and can be integrated with your existing PMS (platform management systems).

This device offers life saving, reliable sensing capability onboard both surface vessels & submarines including Frigates AIP, Diesel Electric and Nuclear and is optimized for both new vessel designs, or mid-life upgrades.

Integrated displays provide absolute clarity, notifying crew in the immediate area of hazards, helping to ensure their safety.

Benefits

- Configurable system ensuring it can be tailored to your needs and future proofing the system against a change in legislation or requirements
- Local notifications of a change in gas levels improves safety and response time
- Shock & vibration protected
- Fully user maintainable, in country, minimizes costs and downtime
- Capable of integrating with your existing PMS

Applications

- AIP Submarines
- Diesel Submarines
- Nuclear Submarines
- Frigates
- Minesweepers

Features

- Measure up to 2 gasses with a choice from the following:
 - O₂ (Oxygen)
 - CO₂ (Carbon dioxide)
 - R134a (Refrigerant gas)
 - VOC's (Volatile organic compounds)
- Crystal clear backlit display
- MODBUS RTU communications protocol
- Temperature compensated sensors with PressureSync technology
- 2 relays

Gases Detected

O₂ / CO₂ / R134a / VOC's

Your Challenge, **Our Passion**

Speak to our team **today**
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APM

FACT

The APM is designed to be compatible with our distributed atmosphere monitoring solution, the DAMS.

Technical Specifications

Atmosphere monitoring with NO LIMITS

Operating pressure	700-1300 mBar	
Operating temperature	0°C - 45°C (32°F - 113°F)	
Operating humidity	0-95% RH	
Power	24VDC (nominal) as standard	
Calibration interval	Before mission and / or every 3 months	
Communications	MODBUS RTU	
Relays	2 as standard	
Sensing method	Sample Draw	
Compliance	MIL-STD-740-2 Structure Borne Noise MIL-STD-167-1A Vibration RoHS	MIL-S-901D Shock MIL-STD-461G EMC CE & UKCA

Sensor Module Solutions

Gas	Danger	Source	Solution	Technology
O ₂ (Depleted)	Asphyxiation	Refrigerants / Crew Consumption	0-35% / 0-350mBar O ₂ Sensor	Electrochemical
O ₂ (Enriched)	Fire / Explosion	O ₂ Candles / LOX Plant	0-35% / 0-350mBar O ₂ Sensor	Electrochemical
CO ₂	Toxic	Crew Exhalation	0-5% / 0-50mBar CO ₂ Sensor	NDIR
R134a	Asphyxiation	Water Chiller / Refrigeration System	0-1000 ppm R134a Sensor	NDIR
VOCs	Toxic	Aerosols / Cooking / Machinery	0-20 ppm VOC Sensor	PID

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