SUB Mk3P

by ANALOX

DISSUB Decision Making Tool



Introducing the Sub Mk3P DISSUB analyzer, now with the added benefit of being **user maintainable, in country**.

In a DISSUB (Distressed Submarine) situation, senior survivors need to be equipped with the **best decision making tools** to help protect and save the lives of their crew. Analox are specialists in submarine escape and rescue analyzers and the Sub MkIIP has been a submariners No.1 choice since its release. We are now launching our upgraded version, the Sub Mk3P.

Using **proven hyperbaric partial pressure sensing**, the SubMk3P continuously measures the O_2, CO_2, pressure, temperature and humidity on board the submarine so you know when to take action. This compact, intuitive atmosphere analyzer also meets the applicable requirements of the NATO STANAG1476 : 2014 (ANEP/MNEP-86).

Benefits

- Using proven hyperbaric sensing technology, this life saving decision making tool is the only continuous gas monitor capable of meeting **NATO STANAG 1476:2014** requirements, making it the No 1 choice.
- At only 2kg and featuring a backlit display it can be transported to and used in any area of the sub even in low light conditions
- Specifically designed for DISSUB situations, the unit has a 10 day battery life
- It has been designed with **simplicity in mind**, ensuring any crew member can operate it in a DISSUB situation.
- The waterproof enclosure is now **international orange**, making it quick and easy to locate
- The system will give accurate and stable readings up to 10 bar absolute.
- The units datalogs are held on a micro SD which can be easily removed for post event analysis
- Putting you in control - the Sub MK3P is designed to be maintained in-country, minimising downtime and reducing the total cost of ownership.
- Analox offer comprehensive training courses to ensure competence of personnel responsible for managing the maintenance of this essential kit.

Features

- Portable & lightweight (2kg)
- Robust, saltwater resistant carry case
- LCD display with backlight feature
- Measurement of O_2, CO_2, pressure, temperature & humidity
- Battery powered
- Pressure & temperature compensated
- Event datalogging via micro SD card
- Fully user maintainable

Add-ons

- 24V DC (9-36V DC) external power cable
- MODBUS RTU comms cable
- 1 year service kit
- 5 year service kit
- Return to factory servicing agreements

Applications

- Submarines
- Submarines rescue vehicles

Gases Detected

Oxygen (O_2), Carbon Dioxide (CO_2)

Your Challenge, **Our Passion**

Speak to our team **today**
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SUB Mk3P

Tech Spec

General	
Battery power	4 x 'D' alkaline cells (Hyperbaric)
External power	24V dc (9-36V dc), <0.5A
Backup batteries	2 x LR43 alkaline manganese cells
Displays	6 x 4 character LCD, with symbols and LED backlights.
Operating temperature	-5 to 50°C
Storage temperature	-5 to 50°C
Operating pressure	0.7 to 10barA
Operating humidity	0 to 100%RH (Non-condensing)
Standards/ compliance	NATO STANAG 1476:2014 ANEP/MNEP 85 & 86 (2014) DEF STAN 59-411:2014 (EMC) IACs E10:2014 (MarED) type tested IP65 CE marked (RoHS)
Dimensions (W, H, D)	240mm x 198mm x 127mm
Weight	2kg with batteries installed

Oxygen (O_2) sensor specification	
Range	0 to 2000mbar pO_2
Accuracy	±10mbar (0 to 300mbar pO_2) ±50mbar (300 to 2000mbar pO_2)
Response time (t90)	20s
Detection mode	Electro-chemical
Shelf life (in sealed packaging)	6 months
Expected life (in air)	12 months

Carbon dioxide (CO_2) sensor specification	
Range	0 to 100mbar pCO_2
Accuracy	±10mbar
Response time (t90)	60s
Detection mode	Infrared
Expected life	5 years

Pressure sensor specification	
Range	0.7 to 10barA (-3 to 90MSW or -10 to 300FSW)
Accuracy (including annual drift)	-0.07bar +0.04bar
Response time (t90)	<1s
Detection mode	Piezoresistive
Expected life	>12 months (Replaced as a part of the O_2 sensor)

Temperature and humidity sensor specification	
Temperature range	-5 to 50°C
Accuracy	±1°C
Response time (t63)	30s
Humidity range	0 to 100%RH (Non-condensing)
Accuracy	±10%RH
Response time (t63)	8s
Detection mode	Digital IC, capacitive RH and band gap temperature
Expected life	5 years

Get in contact today,
be DISSUB ready

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