Breathing Air Monitoring System: BAMS

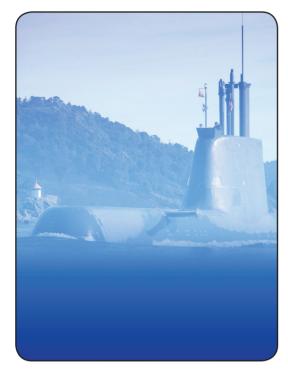


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System solution for monitoring the breathing air ingredients of a submarine and warning the crew for the dangerous concentration levels of the gases



Breathing Air Monitoring System is an independent system which operates automatically under several submarine mission conditions (underwater navigation, surface navigation, harbour, snorkel, etc.).

Breathing Air Monitoring System is composed of two independent systems.

Analyzer System:

Analyzer System performs the ingredient analysis of the sucked air from the different rooms of the submarine. 2 pumps serve for the gas sucking from the submarine rooms. Measurements, gas levels, condition warnings are displayed on the display by using a PLC controlled software.

Sensor System:

Sensors of the system are distributed at the submarine locations. Sensor system, measures the gas ingredient levels at the selected rooms. Measurements, gas levels, condition warnings are displayed on the display by using a PLC controlled software.

System components are located in a rack cabinet. Display on the cabinet provides the display and monitoring feature for the system.

FUNCTIONAL FEATURES

- System monitors the following gas ingredients (hydrogen (H2), oxygen (O2), carbon dioxide (CO2), carbon oxide (CO), refrigerant agents (R134A/R404A), Chlorine (Cl2), hydrogen sulfide (H2S)) and provides warning for the concentration levels above threshold levels.
- · System operates automatically.
- · Sensor system provides continuous measurements.
- Analyzer system measures the gases in 18 different rooms of the submarine.
- Sensor system measures the gases in 10 different rooms of the submarine.
- · Analyzer system can be calibrated automatically.
- Provides situation reports to the different systems of the submarine.
- System has been tested according to the environmental conditions defined for submarine platforms.
 - MIL-STD-810F Temperature, Humidity, Temperature Shock
 - MIL-S-901D Shock
 - MIL-STD-461E EMC
 - DOD-STD-1399 Magnetic

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