

MAB

Biological alarm monitor

FEATURE HIGHLIGHTS

- Adapted to harsh environmental conditions
- Very short response time
- Networking with up to 10 detectors
- Easy maintenance on the field

MAB is a biological alarm monitor to be used on a battlefield or urban environment.

The mission of the **MAB** is to detect any biological life rapid evolution that could be due to a biological attack. If the concentration of specific particles increases rapidly in the air, the **MAB** will give an alarm. This alarm can not only be used directly, but also to trigger a bio sampler to get a sample for further analysis and identification.

MAB does not identify the type of particles but categorizes them by their chemical signature. The presence of chemical signatures of suspicious bacteria (anthrax, for example) is constantly monitored.



GENERAL DESCRIPTION

MAB is a one piece ruggedized system that can be deployed in a few minutes anywhere on a battlefield. It can be connected either to a display box for a direct view of alarms, or to a laptop (through a network) to view alarms and data about the categories of particles, and/or to a bio sampler (ideally the **Coriolis[®] MS**).

MAB analyzes the particles in the air 83 times per second and therefore gives a continuous monitoring of the type of particles present in the air. Alarm thresholds are preset in terms of number of particles, or rapidity of concentration increase. These thresholds can be adjusted by the user to cope with the type of environment.

It requires low power (max.45W) and hydrogen. Hydrogen can be supplied by cylinders or an electrolyser.

SPECIFICATIONS

Specifications	MAB
Size	300mm x 160mm x 450mm (11.8" x 6.3" x 17.7")
Height	800 mm (31.5")
Weight	13 kg
Temperatures	-20°C to +50°C (-4°F to +122°F) (operation) -39°C to +55°C (-38.2°F to +131°F) (storage)
Lifespan	up to 10 days (refillable hydrogen cylinder included in the appliance)
Power supply	19-32VDC or 110-220 VAC
Remote control	can be remote controlled
Remote data	by RS 485 outlet
Response time	less than 1 minute

Air sampler

Detection Module

Hydrogen Module



PRINCIPLE

The **MAB** is based on flame spectrophotometry technology. It operates by analysing the light spectrum of a flame of hydrogen. **MAB** analyses the chemical composition of each particle and measures their relative content of potassium, sodium, as well other elements. Particles are then categorized by their chemical signature and their concentration.

QUALIFICATION

Reports available from international independent and recognized laboratories on demand.

