

MAB MINI

REAL-TIME BIOLOGICAL ALARM MONITOR

The MAB Mini is an advanced, real-time Bio-alert system designed to provide early warning of potential biological threats. Its compact and rugged design allows for continuous analysis of particles in the atmosphere, enabling the system to detect specific chemical signatures associated with suspicious biological agents.

Thanks to its advanced core detection technology, the MAB Mini is ideal for use as a standalone system for infrastructure protection or as an integrated component for a vehicle: combat system. The system is equipped with an open communication protocol and can be easily integrated into CBRN systems. The MAB Mini is turnkey, fully automated and requires no action from the user. This ensures that potential threats are quickly detected and addressed, minimizing the risk of harm to personnel or infrastructure.



KEY FEATURES & BENEFITS

- Continuous & real-time measurement
- Universal biological agent detection
- Quick start-up and response time
- Performs under harsh conditions (dust, humidity, temperature)
- External sampling
- Flexible integration

IDEAL FOR

- CBRN vehicles
- Reconnaissance vehicles
- Land platforms
- Military shelter
- Critical infrastructure
- Site protection

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SPECIFICATIONS¹

Dimensions:	342 x 218.4 x 170 mm / 13.5 x 8.6 x 6.7 inch
Weight:	~4.9kg (10.8 lbs) with 2 x hydrogen cylinders
Sensing Technology:	Hydrogen Flame Spectrometry (FPD)
Detection:	BWA, biological materials and encapsulated Bio threats (bacteria, viruses, toxins) Aerosols: 0.5 – 10 microns
Sensitivity:	100 ACPLA
Response Time:	≤60 seconds on alert
Measurement Frequency:	Real time continuous measurement
Air Flow Rate:	>200 liters per minute
Sampling Air Flow Rate:	≥1 liter per minute
Storage Temperature:	-39°C to +71°C / -38°F to +159°F
Operating Temperature:	-20°C to +50°C / -4°F to +122°F
Operating Humidity:	95% HR (non-condensing) @T49°C (120.2°F)
Power Supply:	24V DC
H2 Running Time:	Up to 24 hours with 2 hydrogen cylinders (room temperature)
Connectivity:	MIL Grade RS-485 and Ethernet Amphenol connector to a third-party solution or Proengin software solution
Communication²:	MODBUS protocols RTU and TCP
Regulation/Performance Test:	CE
Warranty:	1 year

¹ Specifications subject to change

² Other solutions on request

KIT OPTIONS

MAB Mini is available in 2 versions:

- MAB Mini
- MAB Mini PRO with extended capabilities including:
 - Classification Bio particles into Bio-Groups marked (BG1, BG2 and BG3)
 - Alarm threshold adjustments

ACCESSORIES & SERVICES

Prepaid maintenance and extended warranty options are available upon initial acquisition.

Proengin does offer turn Key CBRN integration solutions, please do not hesitate to contact us for more details.



Proengin

FOR MORE INFORMATION:

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