

# MAB

## BIOLOGICAL AEROSOL MONITOR

**Continuous monitoring ensures no missed threats, triggering collection only when a high probability of biological threats exists, greatly reducing sample processing costs.**

The MAB is a biological aerosol detector designed to detect and classify bio-threats. It provides continuous early alerts and discerns atmospheric changes from natural variations. By launching collection only if there is a high probability of a biological risk, the MAB reduces sample processing costs considerably.

With its specialized air intake vein, the MAB individually analyzes particles and aerosols with potential bio-agents: bacteria, viruses, and toxins. Its unique design combined with advanced algorithms ensures precise and highly sensitive detection of harmful aerosols, minimizing the false positive and negative rates. The MAB's capabilities for continuous monitoring ensure that no biological hazards are overlooked.



### KEY FEATURES & BENEFITS

- Continuous & real-time measurement
- Universal biological agent detection & classification
- Quick response time
- Unrivalled threat detection performance
- External sampling
- Measurement of inhalable fraction aerosols
- Performs under harsh conditions (dust, humidity, temperature)
- Rugged design

### IDEAL FOR

- Land platforms
- Military shelter
- Critical infrastructure

# MAB

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### SPECIFICATIONS<sup>1</sup>

<b>Dimensions:</b>	300 x 160 x 895 mm / 11.8 x 6.3 x 35.2 inch
<b>Weight:</b>	~14kg (31 lbs) with 4 hydrogen cylinders ~14kg (31 lbs) with hydrogen bottle
<b>Sensing Technology:</b>	Hydrogen Flame Spectrometry (FPD)
<b>Detection:</b>	BWA, biological materials and encapsulated Bio threats (bacteria, viruses, toxins)  Aerosols: 0.5 – 10 microns
<b>Sensitivity:</b>	20 ACPLA
<b>Response Time:</b>	≤30 seconds
<b>Measurement Frequency:</b>	Continuous
<b>Air Flow Rate:</b>	>16 liters per minute
<b>Sampling Air Flow Rate:</b>	≥1 liter per minute
<b>Storage Temperature:</b>	-39°C to +72°C / -38°F to +162°F
<b>Operating Temperature:</b>	-10°C to +50°C / 14°F to +122°F
<b>Operating Humidity:</b>	95% HR (non-condensing) @T49°C (120.2°F)
<b>Power Supply:</b>	12-32V DC (30W maximum)
<b>H2 Running Time:</b>	From 48 hours <sup>2</sup> up to 8 days <sup>3</sup> (@ room temperature)
<b>Connectivity:</b>	MIL Grade RS-485 connector to a third-party solution or Proengin software solution
<b>Communication:</b>	MODBUS protocols RTU
<b>Regulation/Performance Test:</b>	STANAG 4370 / CE tests (EN 50270)
<b>Warranty:</b>	1 year

<sup>1</sup> Specifications subject to change

<sup>2</sup> Only on MAB 4 cylinders model

<sup>3</sup> Only on MAB H<sub>2</sub> bottle

### KIT OPTIONS

MAB is available in 2 versions:

- **MAB 4 cylinders** with its pelican case for transportation
- **MAB H<sub>2</sub> bottle** (compressed hydrogen cylinder) with its pelican case for transportation

### ACCESSORIES & SERVICES

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

Proengin does offer turn key CBRN integration solutions such as the biological air sampler; please do not hesitate to contact us for more details.



Bio Air Sampler

# Proengin

### FOR MORE INFORMATION:

WORLDWIDE

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