

AP4B

BIOLOGICAL THREAT DETECTOR

The AP4B is a unique, fully automated real-time bio-alert system designed to provide early warning of potential biological threats. Its compact and rugged design enables continuous monitoring of airborne agents in the environment, allowing for the detection of suspicious biological materials.

Thanks to its advanced core detection technology, the AP4B is ideal for use either as an independent detector for infrastructure protection or as an integrated solution within vehicles and combat systems. Its machine learning based alarm algorithm enables continuous adaptation to complex variations in both outdoor and indoor environments, ensuring a low-regret response by minimizing false alarms while maintaining high sensitivity to real threats. The system features an open communication protocol, allowing seamless integration into any CBRN defense architecture.



KEY FEATURES & BENEFITS

- Continuous & real-time monitoring
- Universal biological airborne threat detection
- Versatile adaptability across diverse environments
- Low-regret response for confident decision-making
- Immune to common interferents & no false alarms
- Easy and flexible system integration
- Minimal maintenance requirements

IDEAL FOR

- Military vehicles
- CBRN vehicles
- Shelters
- VIP conferences
- Public events
- Critical Infrastructure

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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 Performance:	BWA, biological materials and encapsulated threats (bacteria, viruses, toxins) Aerosols: 1 – 10 microns
Sensitivity:	100 ACPLA ²
Response Time:	≤60 seconds
Alarm Capabilities:	Audible and Visual (External) Adjustable alarm settings by the user
Measurement Frequency:	Real time continuous monitoring
Storage Temperature:	-39°C to +71°C / -38°F to +160°F
Operating Temperature:	-32°C to +50°C / -26°F to +122°F
Operating Humidity:	93% RH (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 3rd party solution or Proengin software solution
Communication:	MODBUS Protocol RTU and TCP
Regulation/Performance Test:	CE IP 65 -pending MIL-STD-810-H -pending MIL-STD-461-G -pending MIL-STD-1275-F -pending
Warranty:	1 year

¹ Specifications subject to change

² Tested under ACPLA equivalent conditions. Contact us for details

ACCESSORIES & SERVICES

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

Take command of your CBRN responses thanks to Proengin fully modular and scalable systems offering.



Turn key system solutions



Bio Air Sampler

Proengin

FOR MORE INFORMATION:

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