Proengin

EXCELLENCE IN CBRN THREAT MANAGEMENT

AP4C-VB

COMBINED CHEMICAL AND BIOLOGICAL THREATS DETECTOR

The AP4C-VB is a unique, ready-to-mount system for vehicles, shelters, and critical infrastructure, designed to provide early warning of combined chemical and biological threats. Its compact and rugged design enables continuous monitoring of airborne agents in the environment, ensuring fast and reliable detection.

Thanks to its advanced core detection technology, the AP4C-VB 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 real-time adaptation to complex variations in both outdoor and indoor environments, ensuring a fast and low-regret response. The system features an open communication protocol, allowing seamless integration into any CBRN defense architecture

KEY FEATURES & BENEFITS

- Dual chemical-biological sensor
- Continuous & simultaneous monitoring
- Universal detection of airborne threats
- Versatile adaptability across diverse environments
- 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

AP4C-VB

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SPECIFICATIONS[1]

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)
Chemical Detection Performance:	CWA (including 4th generation), TIC & TIM in the form of Gas, Vapor and Aerosol. Sub µg/m3 (ppb) range in few seconds.
Biological Detection Performances	BWA, biological materials and encapsulated threats (bacteria, viruses, toxins) Aerosols: 1 – 10 microns ≤100 ACPLA[2] in less than 60 seconds.
Alarm Capabilities:	Simultaneous Chem & Bio alarm mode Audible and Visual (External) Adjustable alarm settings by the user
Measurement Frequency:	Real time continuous monitoring
Operating Wind:	Detect up to 110 km/h (68 mph) while in motion or fixed site.
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/Perfomance 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.

Proengin SHIELD

Turn key system solutions

Bio Air Sampler

Proengin

FOR MORE INFORMATION:

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