

AP4C-V

CHEMICAL THREAT DETECTOR

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

Thanks to its advanced core detection technology, the AP4C-V is ideal for use either as an independent detector for infrastructure protection or as an integrated solution within vehicles and combat systems. The system features an open communication protocol, allowing seamless integration into third-party CBRN defense architectures. The AP4C-V also benefits from an upgradeable firmware architecture, enabling future evolution toward combined chemical and biological threat detection capabilities.



KEY FEATURES & BENEFITS

- Continuous & real-time monitoring, even at while in movement
- Universal chemical airborne threat detection
- Future-proof detection architecture
- Versatile adaptability across diverse environments
- Immune to common interferents & no false alarms
- External & airtight sampling
- Easy and flexible system integration
- Minimal maintenance requirements

IDEAL FOR

- Military vehicles
- CBRN vehicles
- Military and civilians shelters
- Protected events
- Critical Infrastructure

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SPECIFICATIONS¹

Dimensions:	342 x 218.4 x 170 mm / 13.5 x 8.6 x 6.7 in
Weight:	~4.9 kg (10.8 lbs) with 2 x hydrogen cylinders
Sensing technology:	Hydrogen Flame Spectrometry (FPD)
Chemical detection performance:	CWA (including fourth-generation), TIC & TIM in the form of Gas, Vapor and Aerosol. Sub µg/m ³ (ppb) range in a few seconds.
Biological detection capabilities²:	BWA, biological materials and encapsulate threats (bacteria, viruses, toxins).
Alarm capabilities:	Simultaneous Chem & Bio ² alarm mode. Audible and Visual (External). User-adjustable alarm settings.
Measurement frequency:	Real-time continuous monitoring
Operating wind:	Detect up to 110 km/h (68 mph) while in motion or at a 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:	95% RH (non-condensing) @49°C (120.2°F)
Power supply:	24V DC
Hydrogen autonomy:	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.
Communication:	MODBUS RTU and TCP
Regulation/ Performance test:	CE IP65 MIL-STD-810-H MIL-STD-461-G MIL-STD-1275-F
Warranty:	1 year

¹ Specifications subject to change

² Optional upgrade subject to device configuration

ACCESSORIES & SERVICES

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

Take command of your CBRN response with Proengin's modular and scalable system portfolio.



Turnkey system solutions

Proengin

FOR MORE INFORMATION:

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