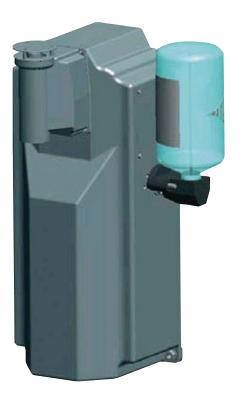
AP4C-F



Chemical Warfare Agents and Toxic Industrial Material Detector for fixed sites



Feature Highlights

- Simultaneous detection of mixed agents
- · Very short response time and reset time
- Adapted to harsh environmental conditions
- Networking with up to 10 detectors
- No maintenance for one year.

AP4C-F is a chemical warfare agent detector to be used in a battle_eld or urban environment on moving platforms for reconnaissance missions. AP4C-F detects in real time and simultaneously all category 1 chemical warfare agents and numerous toxic industrial materials. All nerve agents, blister agents, and blood agents can be detected thus making the AP4C-F an instrument of safety. AP4C-F can detect all those agents under vapour, aerosol or liquid form.

AP4C-F is installed as a fixed alarm system and does not require any other maintenance or human intervention during one year, other than the addition of one litre of water per month. AP4C-F has the same capacity of chemical detection and the same specifications as the AP4C. It is typically installed at the air intake of buildings or critical infrastructures.

Set up procedure, calibration, filter change, purge procedure, and switch off procedure are NOT necessary. AP4C-F can be networked with other instruments. Upon alarm it can trigger the closing of the building ventilation system.

Operating principle

It is based on flame spectrophotometry technology. It operates by in analysing the light spectrum of aflame of hydrogen. If chemical warfare agents or industrial toxic materials are present in the atmosphere, some specific chemical bonds will emit a characteristic light spectrum that will be recognized by the AP4C optical system.

CHARACTERISTICS		LIST OF DETECTED CHEMICALS	
Application	Control of contamination, surveil - lance of sites	Tabun GA	Arsine SA
		Sarin GB	Diphenylchloroarsine DA
Principle	Flame spectrophotometry	Soman GD	Adamsite DM
Detected Gasses	Chemical warfare agents (CWA): GA (Tabun), GB (Sarin), GD (Soman), HD (Yperite), VX, Runcol (HT), Cyanhydric acid (HCN), Chlorine cyanogen (AC)	Cyclo-sarin GF	Deiphenylcyanoarsine DC
		Vx BZ	VX CNS
	Toxic Industrial materials: Ammonia (NH3), NOx, H2S	Distilled mustard HD	Bromobenzylcyanide CA
		Nitrogen mustard HN-1 CS	Chloropicrin PS
Detection Time	2 seconds	Nitrogen mustard HN-2 CR	Runcol
Power Supply	24 VDC x 3 A max	Nitrogen mustard HN-3	Phosgene CX
		Lewisite L	Precursor of OPA
Size	321 mm x 170 mm x 223 mm (12.63" x 6.69" x 8.77")	Mustard lewisite mixture HL	Precursor of DF
Lifespan	1 month	Phenyldichloarsine PD	EDMP
Weight	15kg	Ethyldichloarsine ED	Lewisite
Tempratures	-25°C to +50°C (operation) -32°C to +71°C (storage)	Methyldichloarsine MD	Hydrogen cyanide AC
		Cyanogen chloride CK	