

# AP4C-V

CBRNegetics Ltd



## Fixed Position Chemical Agent Detector

The AP4C-V is a chemical agent detector for fixed or mobile applications. It is used to detect Chemical Warfare Agents and Toxic Industrial Chemicals

### Purpose

The AP4C-V is used in fixed positions (shelters, storage areas) or mobile (reconnaissance vehicles, light vehicles). The AP4C-V detects all nerve, all blister and all blood agents.

### Features

- Fast and remote controlled turn-on
- Immediate identification and measurements
- Remote report of information
- Dynamic filtration of dust
- Fast response time and fast return-to-zero time
- Flameproof

### Operating Principle

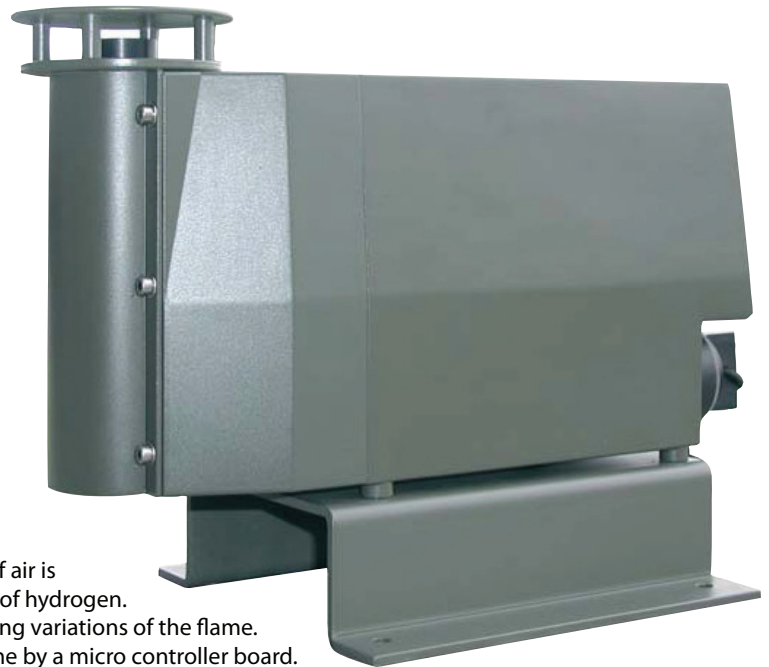
The AP4C-V is a flame spectrophotometer. A continuous stream of air is burned into a combustion chamber, which has a constant supply of hydrogen. A miniaturized spectrophotometer measures the luminous emitting variations of the flame. The electrical signal from the photo sensor is processed in real time by a micro controller board.

### Detection

- Detects simultaneously agents on the four channels
- Detects agents in all forms: vapor – aerosols – droplets – dust agents and frozen agents
- Capability to detect TIC's: PH3, PARATHION on P channel – PCI3, NH3, NOx on HNO channel – SO2, SF6, CS2, H2S, H2SO4 on S channel – AsH3 on As channel

### Use Specifications

- Ultra fast response time: 2 seconds at the high sensitivity
- Ultra fast return-to-zero after detection even in high concentration
- Starts up within 2 minutes
- Detects continuously: no need to change filter after positive detection
- Built-in test included
- Very low false alarms rate
- Starts up within 2 minutes
- Restart in 30 seconds. No calibration



### LIST OF DETECTED CHEMICALS

Tabun GA	Arsine SA
Sarin GB	Diphenylchloroarsine DA
Soman GD	Adamsite DM
Cyclo-sarin GF	Deiphenylcyanoarsine DC
Vx BZ	VX CNS
Distilled mustard HD	Bromobenzylcyanide CA
Nitrogen mustard HN-1 CS	Chloropicrin PS
Nitrogen mustard HN-2 CR	Runcol
Nitrogen mustard HN-3	Phosgene CX
Lewisite L	Precursor of OPA
Mustard lewisite mixture HL	Precursor of DF
Phenyldichloarsine PD	EDMP
Ethyldichloarsine ED	Lewisite
Methyldichloarsine MD	Hydrogen cyanide AC
Cyanogen chloride CK	

### TECHNICAL SPECIFICATION

Size (L x W x H):	335mm x 170mm x 223mm (13.2" x 6.7" x 8.78")
Weight (with 2 hydrogen storage devices):	4kg
Response time:	2 seconds
Temperature range (in operation):	-32°C to +50°C (-25,6° F to +122° F)
Temperature range (in storage):	-39°C to +71°C
Sensitivity in vapors, aerosols, droplets and dust in the air:	10 µg/m3 for all G, V agents 0.5 mg/m3 for H, HD and HL 1.5 mg/m3 for L, SA 10 mg/m3 for HN, HCN
Operational height:	up to 10 000 feet altitude (3 000m)
Lifespan:	24 hours
Power supply:	24 V x 3 A max