

AP4-C

CBRNegetics Ltd



Hand Held, Portable Monitoring & Detection Unit

AP4C - Hand held, portable monitoring and detection unit used by military, Civil defense, and Environmental agencies. The AP4C is a portable chemical contamination control device used to detect directly chemical agents in the form of vapor, aerosols, dust and with the S4PE in the form of liquid.

The AP4C is particularly suitable for military use in rough conditions:

- Fast turn on
- Immediate identification and measurement
- Single-handed operation
- Simplicity of use
- Ability to be turned off without precautions
- Flameproof

The AP4C detects the atoms of phosphorus (contained in all G, V agents: GA, GB, GD, GE, GF, VE, VX), the atoms of sulfur (contained in H, HD, HL agents), the HNO spectrum (used to detect HN, HCN), the As spectrum (contained in L, SA, DM). The AP4C use a fifth channel to detect the CH spectrum and to indicate, at 10% of the level, the flammability of the air. The high sensitivity and fast response time make the AP4C especially suitable to check up contamination. It also fits check up after decontamination.

Operating Principle

The AP4C is a flame spectrophotometer. A continuous stream of air is burned into a combustion chamber (called a burner), 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.



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	

