

ALPHAPEC 800 hand-held chemical agent detector

Product overview

The ALPHAPEC 800 hand-held chemical agent detector is a portable hand-held instrument for detecting chemical agent and toxic industrial gases. Adopting the world mainstream ion mobility spectrometry (IMS), it can detect specific kinds of toxic compounds quickly and accurately.



Technical indicators

Detection principle	Ion mobility spectrometry (IMS)
Species that can be detected	Sarin, Tabun, Soman, VX, mustard gas, lewisite, phosgene, hydrocyanic acid, hydrogen sulfide and other common chemical agents and toxic industrial gases.
Detection precision	< 1 mg/m ³ (Sarin)
Response time	<15s
Working temperature	-20°C ~ +40°C
Storage temperature	-40°C ~ +55°C
Environmental test	Meet the environmental adaptability requirements specified in GJB1751A-2007 and GJB3641-1999
Interference immunity	Will not produce false positives for smoke, engine exhaust and grass smoke in battlefield environment
Communication mode	RS485
Power requirement	2 ICR18650 battery cells
Working hours	>6 hours at room temperature, >4 hours at low temperature
Size	215 mmX102 mmX 66mm
Weight	<2 Kg



- I. Able to detect a variety of chemical agents, such as Sarin, Tabun, Soman, VX, mustard gas, lewisite, phosgene, chlorine, hydrocyanic acid, hydrogen sulfide and other common chemical agents and toxic industrial gases;
- II. High detection sensitivity, with the lowest limit of detection (LoD) of Sarin of 0.1mg/m³;
- III. High interference immunity, thus avoiding false positives for smoke, engine exhaust and grass smoke in battlefield environment;
- IV. Portable and the smallest hand-held IMS agent detector in China;
- V. Easy to maintain, with software upgradeable, and expandable in species detected.

Application area

The ALPHAPEC 800 hand-held chemical agent detector can be widely used in national defense, customs.

