



GDA-P Enhanced Personal Detection

For chemical agents and hazardous chemicals

Modern defense operations with chemical threats face much higher requirements beyond standard warfare agents. Especially, when military demands and requirements for civil security overlap, an instrument has to provide higher analytical capability to provide safety and safe information.

The GDA-J provides reliable and sensitive detection of chemical agents and is expanded for the detection of TICs and further hazardous compounds.

Technology

Ion Mobility Detector (IMS)

Provides compound-specific information on a large number of chemicals down to ppb range.

Photoionization Detector (PID) or Electrochemical Cell (EC)

Provides alarming capability on many additional hazardous chemicals.

Output

A high level of safety is achieved by the expanded detection range.

Hazardous chemicals are stored in libraries which are adapted and managed in an easy way.

Depending on the current threat the GDA-J shows name and concentration. Up to two chemicals are indicated from the current sensor information.

A bar graph quickly informs about the current chemical load in sampled air.

LED lights at the top indicate the current alarming status without the need for operator interference. Acoustic Alarming is integrated.

Operation

- Fully automatic start after power on
- Easy to understand display information
- Automatic self check procedures can be carried out by operator
- A cleaning mode is included in the fluidic system which allows to clean the sensors to baseline for consecutive accurate measurements
- Silent mode operation with acoustic alarm and display turned off
- Open library system allow flexible adaptation
- Operator menu, large color display
- Communication on USB and Bluetooth™
- External Windows software assists in offline data evaluation and basic service procedures
- Rechargeable or standard battery operation



Various supplies: inlet tubing / w filter, bottom and side service covers with dopant cartridge, carrying pouch offers basic operational access

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Instrument Specifications GDA-Enhanced Chemical Detector

- IMS and PID or IMS an EC simultaneous detection
- PID and EC interchangeable
- system diagnosis by operator
- Fluidic system with cleaning mode
- Open Library System
- Analysis Software
- Wireless: Bluetooth™

- Detection range: ppb to ppm, varies with target compound
- GDA-J dimensions: (LxWxH) 240 x 85 x 85 mm
- GDA-J weight: 1,4 kg incl. batteries
- Power Consumption: Standard 15 W, 11-20VDC
- Rechargeable battery or Standard AA battery *10pcs

- Temperature range: -20 ... 45°C ** (Operating), -20°C ... 70°C (storing)
- Compliant IEC 60529: IP65
- EMC: MIL-Std 461F**
- Shock, Vibration: MIL-Std 810F**, NDS C 0110E

Example detection list
of compounds

Libraries are adaptable

Compounds Table	Cpd		
CWA	GA, GB, GD, VX, HD, L, AC, CK, CG		
TICs 1	HF, Diborane, Methyl – Mecaptane, H2S, SO2, CS2, Chloropicrine, HCl		
TICs 2	Benzene, Styrene		
TICs 3	Arsine; Hydrazine, Phosphine		