



## GDA-P Enhanced Personal Detection



Chemical  
defense

For chemical agents and hazardous chemicals

Modern defense operations face much higher requirements on detectors which go beyond detecting standard warfare agents. The GDA-P provides reliable and sensitive detection of chemical agents and is expanded for the detection of TICs and further hazardous compounds. When demands for military and civil security operations get merged, an instrument has to provide higher analytical capability to provide safety and safe information.

### Technology

- **Ion Mobility Spectrometer (IMS)**  
Provides compound-specific information on a large number of chemicals down to ppb range.
- **Photoionization Detector (PID) or**
- **Electrochemical Detector (ECD)**  
Provides additional detection and alarming capability on many additional hazardous chemicals.

### Display

**Indication** of status and alarm by LED and acoustic alarm.

**Substance name and response indication** on large color display.

### Library based identification

Libraries are adapted and managed in easy way.

### In Action

Depending on the current threat the GDA-P 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.



### Operations

- No calibration required
- Easy to understand display information
- Active cleaning is included in the fluidic system which allows to clean the sensors to baseline for consecutive accurate measurements
- Noise reduced operation with acoustic alarm and display turned off
- Open library system allows flexible adaptation
- Intuitive Operator menu, large color display
- Communication on RS232 and Bluetooth™
- External Windows software assists in offline data evaluation and basic service procedures
- flexible battery system:  
rechargeable NiMH Standard AA  
non rechargeable Standard AA



## GDA-P Enhanced Personal Detection



### Technical Data

#### Product Description

- IMS and PID or IMS and ECD, simultaneous detection, PID and ECD user interchangeable
- high resolution Ion Mobility Spectrometer (Ni63 ion source, positive and negative mode)
- intense self check
- Offline Data Analysis software

- Detection range: ppb to ppm
- Temperature range: -30°C ... 50°C (operating), -35°C ... 70°C (storing)

- Wireless: Bluetooth™
- Data logger 4GB

#### Power Requirements

Main power 11– 20 VDC, 8 Watt  
rechargeable battery (8 hrs) or  
standard AA battery \*14 pcs (8 hrs)

#### Communications

Computer interface Serial RS-232 and Bluetooth™

#### System Requirements

Operating system Windows  
Software WinMuster for instrument control and data analysis  
Offline Data System and Library management  
Basic maintenance operations



1.3 kg  
+ battery  
160g-250g

Dimension  
L258 x W93/72  
x H75 mm

#### Features

Wireless Bluetooth™

#### Safety Class / Standards

Mil Std 810 G, 461G  
IP65

#### Warranty

12 months