

# The IMS Technology Company in CRBNE detection.



## ❯ PRESENCE

- ✓ Service and Support around the globe
- ✓ Hubs in South America and Asia
- ✓ Headquarter in Germany



**GDA-P**



## Enhanced Personal Detection

Modern defense operations face much higher requirements which go beyond detecting standard warfare agents. The GDA-P provides reliable and sensitive detection of CWA 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 capabilities to protect and secure accurate 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)**  
Provide additional detection and alarming capabilities

### Display

Indication of status and alarm by LED and acoustic alarm.

Substance name and response indication



### 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: -32°C...49°C (operating), -40°C ... 71°C (storing)

- Wireless: Bluetooth™
- Data logger 4GB



1.4 kg  
+ battery 440 g  
+ Damping Boot  
275 g

Dimensions  
L261 x W92  
x H75  
mm

#### Power Requirements

Main power	8,5W, nominal 12 VDC, 9-20 VDC rechargeable battery (8 hrs) or standard AA battery *12 pcs (8 hrs)
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#### Communications

Computer interface	Serial RS-232 and Bluetooth™
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#### System Requirements

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

#### Safety Class / Standards

#### Warranty

Wireless Bluetooth™	MIL STD 810-G, 810-H, 819-H 461G / IP65	12 months
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## GDA-P

## A Plus in Substances

## 1 (CWAs)

## area points

Nerve agent
Skin agent
Blood agent
Choking agent

## chemical substance

GA
GB
GD
VX
HD (sulfur mustard)
L (Lewisite I)
AC (Hydrogen Cyanide)
CK (Cyanide chlorine)
CG (Phosgene)

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This list is an excerpt of chemical agents.

The GDA-P libraries are customizable for a broader range of hazardous materials.

## 2 (TICs)

## area points

Statutory poison
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## chemical substance

Hydrogen cyanide
Hydrogen fluoride
Cyanogen Chloride
TDI
Arsine
Hydrazine
Meth Mercapt
Dimeth Sulfate
Phosphine

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# GDA-P

**Versatile Utilization with  
Docking Station**

**DOCK**

**SWM**

**LWM**

**CWM**

## ➤ FEATURES AT A GLANCE

- ✓ Expanded detection range on gaseous chemicals
- ✓ Integrated networking solutions
- ✓ Customizable library
- ✓ Military hardened
- ✓ Flexible adaptation to operational environment



orthogonal sensor array



## ONE DETECTOR Multiple applications

### ➤ VARIABLE WAYS OF USE



Man-at-Arms  
Personal Safety  
Detector



In-the-field  
autonomous  
Operations



Operation  
on Platforms &  
Vehicles



Operation  
in shelters &  
infrastructure



Maintained  
Operational  
Readiness

## GDA-P DOCK Autonomous Operation

### ➤ SUPERVISION & ALARMING

- Additional battery
- Remotely controlled
- Long range (wireless) communication
- Long term (e.g. 24hrs) autonomous operation
- For example: Supervision of base camps



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Made in Germany

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## VEHICLE PLATFORM SOLUTIONS

### Protection inside, supervision outside

#### GDA-P-LWM

LIGHT WALL MOUNT



#### GDA-P-SWM

SLIM WALL MOUNT



#### ADVANTAGES

- Always ready for operation
- Interface to vehicle information system
- Fast pick up for deployed operation
- Adaptation to vehicle power system
- Rugged sampling port for gas in/out

