

- ✓ Environmental monitoring
- ✓ Workplace supervision
- ✓ Critical infrastructure
- ✓ Permanent supervision

## APPLICATIONS

## GDA-S Gas Detector Array - Stationary

Critical infrastructure supervision for hazardous gases and chemical agents.

The **Gas Detector Array Stationary** version is a continuously operated chemical agent detection system. It is used to supervise sensitive public structures, buildings and workplace areas.

The benefit of using GDA technology is that, not only chemical warfare agents (CWAs) are selectively supervised but also the whole range of hazardous and less hazardous volatile compounds can be supervised. GDA technology offers the possibility to detect a very broad range of compounds in the gaseous phase.

The **GDA-Stationary** has been developed on the basic idea of combining several detection principles in order to achieve:

- a broad detection range and thus provide a high level of safety
- improved specificity through combined sensor responses that can be used for library comparison

**The changes of the specifications made for the stationary GDA are:**

- Fail safe flow system  
(e. g. pumps allowing for long term continuous operation, redundancy included)
- Maintenance interval designed to be 1 year
- Connectivity – personal computer connectivity offers all common kind of data interfacing
- Adaptable library system



Chemical  
defense



The detector is rugged, reliable and dependable, while operating in adverse environments, but quickly and easily maintained at yearly service intervals.

### Features

- Detection and identification of all the main hazardous gases and chemical warfare agents within seconds
- **Hybrid Sensor Array:**  
Unique combination of different detectors (IMS, PID, EC, MOS)
- Safe alarming concept
- Alarm and communication interface
- 24/7 operation / data stored
- Internal sensor protection system
- Easy to install
- Expandable Database
- Outdoor operation



## GDA-S

### Gas Detector Array - Stationary

#### Technical Data

##### Sampling

System	Continuous vapor sampling through internal pumps, internal sample dilution system
Recovery time	Less than 5 min
Measurement time	Seconds to less than 1 minute (depending on the compound)

##### Operation Principles

Detection principles	Orthogonal technology for improved interferent rejection - Ion Mobility Spectrometer (Ni63 ion source, positive and negative mode) - Photo Ionization Detector (10.6 eV) - Electrochemical Cell - 2 Metal Oxide Sensors
Modes of operation	GDA mode for hazardous compounds and chemical warfare agents
Agents detected	Nerve, blister, blood & choking agents, toxic industrial chemicals, data base is expandable
Identification	Based on pattern recognition methods, individual alarm thresholds are possible

##### Environment Requirements

Temperature	typically: 0°C to +50°C
Humidity (relative)	5 % to 95 %, non-condensing

##### Power Requirements

Main power	30 W, powered by power supply of 100 – 240 Volt
Battery back-up	Operation on Backup Battery Battery to be recharged by internal charging circuit (UPS)

##### Communication

Computer interface	Internal IPC
--------------------	--------------

##### Device Control / Data Handling

Operating system	Windows XP, Vista, Windows 7
Software	WinMuster GDA-S

##### Safety Class

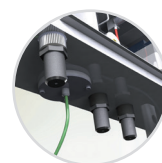
Compliant to EN50270 / 1999 / type 1 & 2 device

##### Warranty

12 months



Chemical  
defense



50 kg  
with batteries  
and UPS  
included

Dimensions  
600x600x200  
mm

Made in Germany

AIRSENSE Analytics GmbH

Hagenower Straße 73 · Germany · 19061 Schwerin Phone +49 (0) 385 3993280 · Fax +49 (0) 385 3993281 email: info@airsense.com · www.airsense.com