



GDA-S Gas Detector Array - Stationary version

Supervision on Critical Infrastructure Detector 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 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 since GDA technology offers the possibility to detect a very broad range of compounds in the gaseous phase.

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

- a broad detection range and thus giving a high level of safety
- improved specificity through combined sensor responses 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 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



The detector is rugged, reliable and dependable, even 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
- Database is expandable
- Outdoor operation



Chemical
defense



Explosive
defense



Radiological
Nuclear
defense



GDA-S

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Technical Data

Sampling

System	continuous vapor sampling through internal pumps, internal sample dilution system
Recovery time	less than typically 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 Agents detected	GDA mode for hazardous compounds and chemical warfare agents 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	typical: -30°C – +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	serial port – RS 232, USB, Ethernet, Wireless communication and GPS optional
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Devise Control / Data Handling

Requirements Software	Win98SE, 2000, XP, Vista, Windows 7 WinMuster GDA
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Options

Wireless communication GPS

Safety Class

Compliant to EN50270 / 1999 / type 1 & 2 device
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Warranty

12 months



50 kg
with batteries
and UPS
included

Dimension
600x600x200
mm