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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 specifity 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



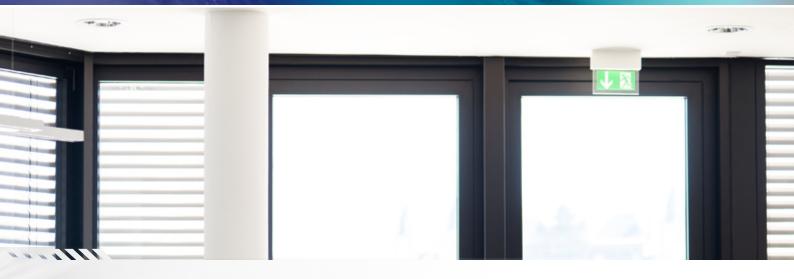
The detector is rugged, reliable and dependable, even operating in adverse environments, but quickly and easily maintained at yearly service intervals.

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

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Technical Data

Sampling

Sampling			
System	continuous vapor sampling system	AIRSENS	
Recovery time	less than typically 5 min		
Measurement time	seconds to less than 1 minute (depending on the compound)		21-3
Operation Principles			
Detection principles	Orthogonal technology for i - Ion Mobility Spectrometer - Photo Ionization Detector - Electrochemical Cell - 2 Metal Oxide Sensors	50 kg with batteries and UPS included	
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		Dimension 600x600x200 mm
Environment Require	nents		
Temperature Humidity (relative)	typical: 0°C to +50°C 5 % to 95 %, non-condens		
Power Requirements			
Main power Battery back-up	30 W, powered by power supply of 100 – 240 Volt Operation on Backup Battery Battery to be recharged by internal charging circuit (UPS)		
Communication			
Computer interface	Internal IPC		
Devise Control / Data	Handling		
Operating system Software	Windows XP, Vista, Windows 7 WinMuster GDA-S		
Safety Class		Warranty	
Compliant to EN50270 / 1999 / type 1 & 2 device		12 months	

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