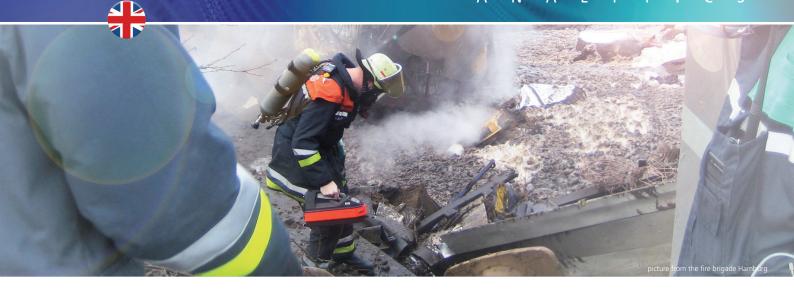
AIRSENSE ANALYTICS



GDA-FR

Gas Detector Array - First Response

Portable detector for hazardous gases and chemicals



The GDA has been designed for the detection and identification of Toxic Industrial Compounds (TICs) and Chemical Warfare Agents (CWAs) – with optional expansion to the range of the most common explosives.

With its Hybrid Sensor Array it alerts to a wide range of hazardous gases. It offers high level safety without the need to select the "right" detector.

Alarms are released as soon as gases appear in dangerous concentrations – whether it is in ppb or ppm range. Compounds matching with the adaptable libraries are automatically displayed on the screen. The GDA is permanently ready-to-use. A specialized gas-flow control allows for faster deployment while the unit retains its sensitivity and reliability.





30W powered by battery or through RS-232





Chemica defense



Radiologic Nuclear defense



The GDA set allows

- High security through a wide coverage of a variety of gases and chemicals at a low concentration level
- Security and surveillance at public or highlevel events
- Risk monitoring of workers in chemical industries

Advantages

- Increased selectivity
- Portable instrument with integrated display, visual and audible alarm
- High level of safety through broad detection range of hazardous gases
- Detection and identification in seconds
- Works with computer or in standalone mode
- Substance identification possible using methods of pattern recognition
- Provides reliable results with easy operation
- Data logger and offline data analysis





GDA-FR

Gas Detector Array - First Response

Hazardous compounds / GDA-Mode List with tolerable concentrations*

Substance	Concentration limit* [ppm]	Sensor type
Acetic acid	20	IMS
Acetone	500	IMS, PID
Acroleine	0.2	
Acrylonitrile	20	MS
Ammonia	50	IMS, EC
Benzene	20	PID, SC
Carbon dioxide	10000	-
Carbon disulfide	10	IMS
Carbon monoxide	100	
Chlorine	1	IMS, EC
Chlorobenzene	100	PID
Chlorocyane	0.3	IMS
Hydrazine	1	IMS
Ethanol	3000	IMS, PID
Formaldehyde	1	
Hexane, n-	200	PID
Hydrogen chloride	5	IMS, EC
Hydrogen cyanide	5	IMS, EC
Hydrogen fluoride	5	(IMS), EC
Hydrogen sulfide	10	IMS, EC
Methanol	500	IMS
Nitrogen dioxide	1	IMS
Phosgene	0.1	EC
Phosphine	0.5	EC
Styrene	40	IMS, PID
Sulfur dioxide	1	IMS, EC
Tetrachloroethylene	100	IMS
Toluene	100	PID
Toluene diisocyanate	0.02	IMS
Trichloroethane, 1,1,1-	300	IMS
Trichloroethane, 1,1,2-	25	IMS
Trichloroethylene	100	IMS, PID
Vinyl chloride	100	PID, EC

* Selection of chemical compounds (comparable to ERPG), tolerable concentration values for firefighter working 4 hours without breathing apparatus

Chemical Warfare Agents (IMS-Mode)

Nerves GA (Tabun)	Blister HD (S-Lost)	Blood AC
GB (Sarin)	HN (N-Lost)	(Hydrogen
GD (Soman) GF (Cyclosarin)	L (Lewisite)	Cyanide)
VX		

Technical Data

Sensor technology:

- unique combination of different detectors
- Ion Mobility Spectrometer (Ni63 ion source, positive and negative mode)
- Photo Ionization Detector (10.6 eV)
- Electrochemical Cell
- 2 Metal Oxide Sensors

Sampling System:

- internal pumps
- internal sample dilution system

Measurement Time:

• a few seconds to less than 1 minute

Identification:

- different pattern recognition methods available Display:
- graphical display integrated

Power:

• 30W, powered by rechargeable battery and/or power supply (serial port – RS-232)

Weight:

- 4.5kg / 4.2 kg (8.4 lb) (without batteries) Dimensions:
- ca. 395 x 112 x 210 mm (ca. 15.7 x 4.5 x 8.4 in)
- Windows XP, Vista, Windows 7

Software:

• WinMuster GDA

Operating system:

Options:

- Wireless
- GPS
- Gamma detection
- Explosive

