



## GDA-F

### Gas Detector Array - Fumigation

#### Technical Data

##### Important characteristics of the GDA

- Security by detecting a very wide range of chemical substances: the hazardous substances will be detected.  
Besides the defined fumigants the GDA can also detect other toxic substances.
- Easy to use, 2 buttons operation
- Results given within seconds (about 15 sec)
- Wide dynamic detection range (ppb up to upper ppm)
- Security of alarms: no false negative
- Short training and instruction time
- Continuous operation
- Time-saving compared to other measurement procedures (GC/MS or colorimetric tubes...); no sample degradation



Customs



Logistic



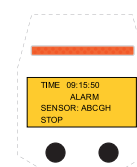
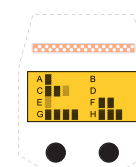
Container  
Port authorities

#### Features

- Operating temperature is -20°C to 45°C
- The instrument is portable (about 4.5 kg)
- Battery operating time is 4 hours

#### Permanent Supervision during Unpacking

GDA-F Channel	Substances	Formula	Action
A	Ammonia	NH <sub>3</sub>	Yellow
B	Methyl Bromide Chloropicrin Chloroform Prussic Acid 1,2-Dichlorethane	CH <sub>3</sub> Br CClNO <sub>2</sub> CHCl <sub>3</sub> HCN C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub>	Red
C	Ethylene Oxide	C <sub>2</sub> H <sub>4</sub> O	Yellow
D	Carbon Disulfide	CS <sub>2</sub>	Yellow
E	Formaldehyde	H <sub>2</sub> CO	Yellow
F	Hexane, Butane	NOx, CO	Yellow
G	Phosphine	PH <sub>3</sub>	Red
H	Benzene	C <sub>6</sub> H <sub>6</sub>	Yellow



Visual Warning

During the measurement, the sensor response is given by an eight-channel representation. The result is displayed within seconds.

The GDA has been tested and is in use by German authorities and logistic companies.

#### Please check your Guidance Book

- Yellow: Ventilation: A, C, D, E, F or H
- Red: Degassing: B or G



In case of alarm, please check your internal Guidance Book for details. AIRSENSE Analytics recommends wearing full Personal Protection Equipment during inspection.



## LS-ID

### Liquids and Solids - IDentifier



Chemical  
defense



Explosive  
defense

#### On-Site Identification of Liquids and Solids: Drugs, Explosives, Illicit Narcotics and Hazardous Materials

The pocket size **LS-ID** is the smallest Raman spectrometer of its kind. Developed for fast identification of illicit narcotics, drugs, explosives as well as other suspicious samples.

#### LS-ID in Action

Designed to provide an on-site answer to unknown materials, this "pocket" spectrometer allows identifying very small quantities of samples in a simple and fast way. Provides safety beyond defined target gases by alarming on hazardous concentrations.

#### Seconds for your Life

Within few seconds the **LS-ID** compares the individual spectroscopic signature of the sample with the spectra stored in the library, displaying automatically the identified compound and the degree of correspondence. The particular design of the **LS-ID** offers an optimal repetitive spectra acquisition.

#### Smart Detection

To improve the measurement of samples there are three different sampling tools available which enable optimum spectrum acquisition under varying conditions.



Without needing to expose oneself to a direct contact with the compounds, the user can obtain an enhanced fingerprint spectrum from enclosed substances in most transparent plastic sachets or glass vials using one of the three optical collection attachments.

#### Advantages

An easy design and a simple menu offers the possibility of viewing the taken spectrum prior to the identification. The clear advantage is that the user may optimize the sampling and therefore also improves the identification results.

Collected field data can be analyzed at any moment using the dedicated software. Besides full instrument control and calibration, the software also allows comparing the collected spectrum with other library entries, overlapping different spectra and issuing automatic reports.