



GDA-F

Gas Detector Array - Fumigation



Chemical
defense

Screening for hazardous gases in containers before entry

Many studies have been carried out around the world showing that the air in containers coming from abroad may contain hazardous concentrations of various gas compounds.

Besides recognizing the typical/standard fumigation gases used in cargo-containers the GDA is able to detect unusual chemicals or other gases due to evaporation from goods, all of which may pose a health risk.

The inspection of Import-Containers for a possible presence of gas compounds is made easy by the GDA detection system.

The concentration of chemicals and the potential risk posed by air inside a container can be detected within seconds. The best way of handling and treating the gases can be determined instantly.

The GDA Fumigation

- Detects the relevant fumigation gases and other toxic substances
- Provides safety beyond the defined target gases

Weight
5.2 kg / 4.2 kg
without
batteries

Dimension
L395 W112 H210
mm

30W
powered by battery
or through RS-232

Wireless
Connectivity
GPS



The GDA system is based on a Hybrid Sensor Array comprising different detection technologies.

This unique set allows:

- coverage of a broad range of chemicals
- detect and alarm at relevant concentration levels
- running of an analysis in seconds (typically 15 sec)
- receipt of an easy result in a fail safe procedure
- supervision of the working environment during unpacking with continuous measuring

The internal cleaning procedure provides short measurement cycles and prevents system overloads.

- Broad coverage of chemicals
- Easy handling, short training, self supervision, high availability
- Handheld operation
- Data logger
- Off-line data evaluation

Made in Germany

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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



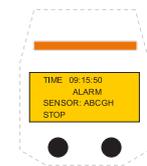
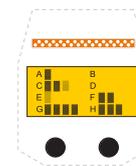
Container Port authorities

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 ₃	■
B	Methyl Bromide Chloropicrin Chloroform Prussic Acid 1,2-Dichlorethane	CH ₃ Br CClNO ₂ CHCl ₂ HCN C ₂ H ₄ Cl ₂	■
C	Ethylene Oxide	C ₂ H ₄ O	■
D	Carbon Disulfide	CS ₂	■
E	Formaldehyde	H ₂ CO	■
F	Hexane, Butane	NOx, CO	■
G	Phosphine	PH ₃	■
H	Benzene	C ₆ H ₆	■



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

- Ventilation: A, C, D, E, F or H
- 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.