AIRSENSE
ANALYTICS

GDA-F

Gas Detector Array - Fumigation

Screens Containers for Hazardous Gases before being entered

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.

Not only are the designated fumigation gases used in containers handling found, but also non-conforming chemicals or other gases due to evaporation from goods, all of which may cause a health risk.

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

The level of chemicals and thus the risk potential of the air inside a container can be assessed in seconds. The best way of handling and treating the gases can be determined instantly.

The GDA Fumigation

- detects the relevant fumigation gases and other toxics
- Provides safety beyond defined target gases by alarming on hazardous concentrations

Chemical defense

Explosive defense

Radiological Nuclear defense

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 10 to 20 secs)
- 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

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Technical Data

Some important characteristics of the GDA

- Security by detecting a very wide range of chemical substances: the hazardous substances will be definitively detected.
  Besides the defined fumigants the GDA is able to detect other toxic substances.
- Easy to use, 2 button operation
- Results are given within seconds (about 10 sec)
- Wide dynamic detection range (ppb up to upper ppm)
- Security of alarms: no false negative
- Short training and instruction time
- Continuous operation
- Time win when comparing this with other measurement procedures (GC/MS or colorimetric tubes...); no sample degradation

Customs

Logistic

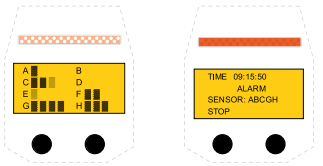
Container
Port authorities

Features

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

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_3Br $CCINO_2$ $CHCl_2$ HCN $C_2H_4Cl_2$	
C	Ethylene Oxide	C_2H_4O	
D	Carbon Disulfide	CS_2	
E	Formaldehyde	H_2CO	
F		NOx, CO	
G	Phosphine	PH_3	
H	Benzene	C_6H_6	



Visual Warning

During the measurement the response is given by an eight channel representation. The result is displayed at the end of the measurement – after seconds only.

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

Please check your Guidance Book

- Ventilation is recommended if A, C, D, E, F or H
- Degassing is recommended if B or G

In case of alarm, please check your Guidance Book for details. AIRSENSE Analytics recommends to wear fully gas equipment while measuring.

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