



GDA 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 container handling found, but also non-conforming chemicals or other gases caused by 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 easy by the GDA2 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 toxic
- Provides safety beyond defined target gases by alarming on hazardous concentrations

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

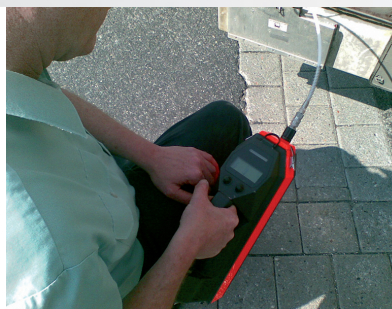
This unique set allows:

- 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 overload.

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

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



Permanent Supervision during Unpacking

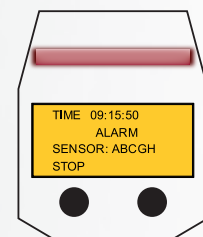
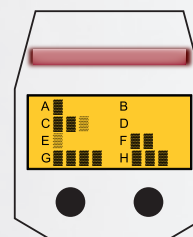
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FACTS AND INFORMATION

Some important characteristics of the GDA2:

- The instrument is portable (about 4,5 kg)
- Battery operating time 4hrs
- Security by detecting a very wide range of chemical substances: the hazardous substances will be definitively detected. Besides the defined fumigants the GDA2 is able to detect other toxic substances.
- Easy to use, 2 button operation
- Results are given within seconds (about 10s.)
- 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
- Operating Temperature is -20°C to 45°C



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

GDA2 Channel	Substances	Formula
A	Ammonia	NH ₃
B	Methyl Bromide	CH ₃ Br
	Chloropicrin	CCINO ₂
	Chloroform	CHCl ₃
	Prussic Acid	HCN
	1,2-Dichlorethane	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	NO _x , CO	
G	Phosphine	PH ₃
H	Benzene	C ₆ H ₆