



Why Choose Gasmet

Gasmet is the number one FTIR analyzer and system manufacturer. We have supplied over 4000 FTIR analyzers worldwide, and have the highest installed base for on-site and industrial applications.

Front Seat

We are at the forefront of development. We have 30 years of FTIR experience and we have introduced several breakthrough innovations, such as launching the world's first in-situ FTIR gas analyzer and the world's first portable ambient FTIR analyzer. Our teams of experts provide continuous improvements of our products, ensuring that your FTIR analyzer investment is continually future-proofed.

Future First

The future belongs to everyone and we think that everyone has the right to clean air. Therefore, we are persistent to develop our future-proof solutions and support global actions in mitigating climate change. Our vision is to live on a green planet with less emissions.

Global Presence

We know the importance of local support, globally. With our service and support network covering more than 70 countries, we ensure local, high quality technical support for our customers and secure continuous availability of spare parts to our systems during their entire lifetime.



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> Know what's in the air.



Analyzer for toxic gases

DX4040 for hazardous gases

Gasmet DX4040 is the most powerful **portable solution** for measuring the concentration of hazardous gases inside enclosed spaces like shipping containers. The analyzer provides unparalleled cost-efficiency with a capability to **measure large number of gases in a few seconds**.

Background

The air inside shipping containers can be severely contaminated with hazardous gases, and the health of any workers involved in opening the containers is threatened. A solution is required to analyze the atmosphere in such a confined space, and the referring results will support further action, i.e. ventilation or use of personal protective equipment (PPE). Performing good measurements inside the shipping containers enables effective protection of workers, while also helps to avoid unnecessary ventilation when the atmosphere inside is safe.

Measuring the gases in shipping containers is challenging as it can be almost impossible to anticipate which gases can be present inside. Hazardous gases can originate from either fumigation of the containers or also often from the shipped goods themselves. A large amount of different gases can be found. Therefore, the analyzers for shipping container measurements need to be able to measure a lot of different gases, accurately and precisely, providing a result on-site.

A good multicomponent analyzer improves safety by measuring all relevant gases. An ability to **differentiate between individual measured gases** can also greatly **decrease the need to ventilate containers unnecessarily** due to false positive results.



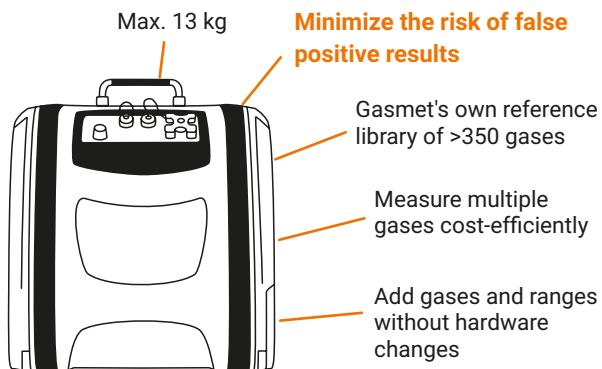
Gasmet Solution

Gasmet's solution to measuring hazardous gases in shipping containers is the portable, multicomponent FTIR gas analyzer DX4040, which is the most powerful and versatile tool for challenging gas measurements on the market. It offers accurate and specific measurements of an unparalleled number of different gases in a fully portable package. The analyzer includes an internal battery and sample pump, enabling direct sampling on site without any need for separate sampling.

How does it work?

The Calcmet™ software that is used to operate the DX4040 makes analyzing the composition of the unknown samples in shipping containers easy. The user can select the components that should be monitored, and the software will automatically analyze the concentrations of these gases.

The Calcmet software provides indicators for the quality of the analysis so that the user can feel confident when everything is working correctly. If there are indications of interference from unexpected gases, Calcmet provides automatic search tools for identifying unknown gases with just a few easy steps, and once identified, new components can be added to the list of measured compounds for quantification.



What can be measured?

The analyzer is typically set up to measure the following 50 gases from shipping containers:

Standard components				
1	Formaldehyde	18	Dichloromethane	35
2	Ethylene oxide (Oxirane; Epoxyethane)	19	Ethane	36
3	Benzene	20	<i>n</i> -Propane	37
4	Toluene	21	<i>n</i> -Butane	38
5	Ethyl benzene	22	<i>n</i> -Hexane	39
6	<i>m</i> -Xylene	23	<i>n</i> -Octane	40
7	<i>o</i> -Xylene	24	Isopentane (2-Methyl butane)	41
8	<i>p</i> -Xylene	25	Ethylene (Ethene)	42
9	Methyl Bromide (Bromomethane)	26	<i>n</i> -Propene	43
10	1,2-Dichloroethane (Freon 150)	27	Cyclohexane	44
11	Chloropicrine (Trichloronitromethane)	28	α -Pinene	45
12	Styrene	29	β -Pinene	46
13	Phosphine	30	3-Carene	47
14	Sulfuryl fluoride	31	Limonene	48
15	Hydrogen cyanide	32	Formic acid	49
16	Carbon disulfide	33	Acetic acid	50
17	Acetone	34	Methyl acetate	Nitrogen monoxide (Nitric Oxide)

Why buy Gasmet Analyzer?

Gasmet gas analyzers provide irresistible freedom, unparalleled flexibility and fast measurements.

Freedom

- > Portable and lightweight
- > Low cost of ownership
- > No consumables for sampling

Flexibility

- > Ability to both identify and measure gases
- > Ability measure dozens of shipping containers in a working day

Fast measurements

- > Fast and accurate results in seconds
- > Unparalleled amount of measurable gases