



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 onsite 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

GT5000 Terra for hazardous gases

Gasmet GT5000 Terra 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**.

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. The analyzer for shipping container measurements needs to be able to measure a lot of different gases, accurately and precisely, providing a result onsite.

A good multicomponent analyzer improves safety by measuring all relevant gases. An ability to **differentiate between individually 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 weatherproof, multicomponent FTIR gas analyzer GT5000 Terra, 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. Quick and reliable results are crucial for the safety and smooth flow of containers. The analyzer includes an internal battery and sample pump, enabling direct sampling on-site without any need for separate sampling.



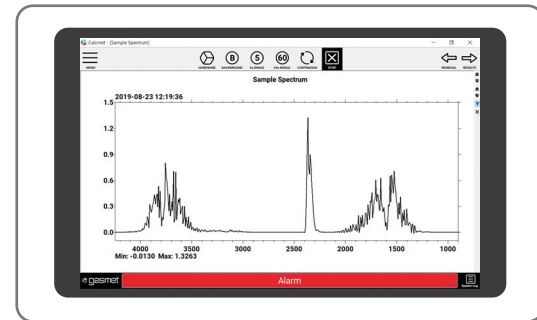
- › Visual alarms › Field friendly › Cost effective › Weatherproof
- › Immediate online results › Multigas measurements

How does it work?

The Calcmet software that is used to operate the GT5000 Terra 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 software comes in two versions, Calcmet Easy for accessible on-field work and Calcmet Expert for further analysis with advanced tools.



The Calcmet software provides indicators of danger or unknown compounds. 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	Ethyl acetate
2	Ethylene oxide (Oxirane; Epoxyethane)	19	Ethane	36	2-Butoxyethyl acetate
3	Benzene	20	<i>n</i> -Propane	37	Methylene dimethyl ether
4	Toluene	21	<i>n</i> -Butane	38	Acetaldehyde
5	Ethyl benzene	22	<i>n</i> -Hexane	39	Methyl ethyl ketone (MEK)
6	<i>m</i> -Xylene	23	<i>n</i> -Octane	40	Methanol
7	<i>o</i> -Xylene	24	Isopentane (2-Methyl butane)	41	Ethanol
8	<i>p</i> -Xylene	25	Ethylene (Ethene)	42	Isopropanol
9	Methyl Bromide (Bromomethane)	26	<i>n</i> -Propene	43	Ethylene dibromide
10	1,2-Dichloroethane (Freon 150)	27	Cyclohexane	44	Water
11	Chloropicrine (Trichloronitromethane)	28	α -Pinene	45	Carbon dioxide
12	Styrene	29	β -Pinene	46	Carbon monoxide
13	Phosphine	30	3-Carene	47	Nitrous oxide
14	Sulfuryl fluoride	31	Limonene	48	Methane
15	Hydrogen cyanide	32	Formic acid	49	Ammonia
16	Carbon disulfide	33	Acetic acid	50	Nitrogen monoxide (Nitric Oxide)
17	Acetone	34	Methyl acetate		