



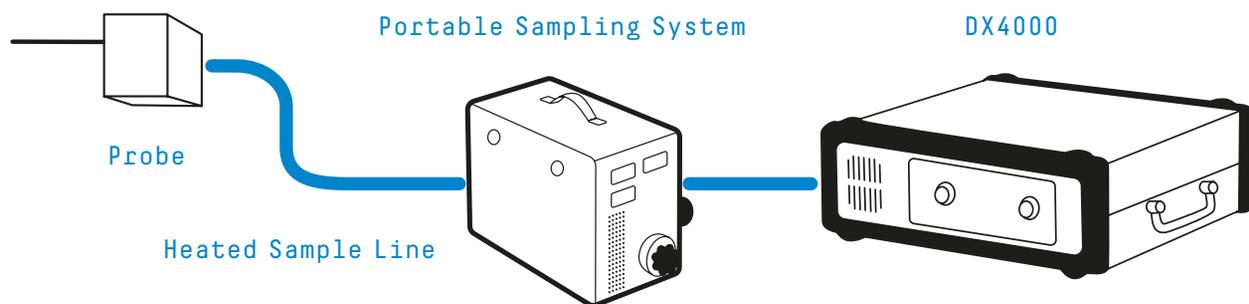
> Know what's in the air.



DX4000

Gasmet Portable FTIR Gas Analyzer DX4000

The Gasmet DX4000 FTIR Gas Analyzer is the most powerful tool available for emissions monitoring, process gas analysis and compliance testing.



What is the DX4000?

The Gasmet DX4000 is a portable multicomponent FTIR analyzer that is designed for monitoring gas concentrations in hot, wet and corrosive gas streams. Together with Gasmet's Portable Sampling System (PSS), it forms a complete portable FTIR emissions monitoring system offering the same high quality performance as Gasmet's fixed systems in an easy-to-transport package. The Gasmet DX4000 has received the MCERTS 15267-3 certification for stack emissions monitoring.

The entire sampling train of the DX4000 and PSS is heated to 180 °C, allowing for a direct sampling of hot and wet sample gas without the need for pre-conditioning the sample. The system is easy to operate and gives accurate results, as no analyte (sample) gases will be lost in the conditioning of the sample. The Gasmet DX4000 FTIR Gas Analyzer is the most powerful tool available for emissions monitoring, process gas analysis and compliance testing.

The compact and modular design of the system allows the analyzer to be easily transported and quickly assembled, allowing for fast mobilization and less time wasted in waiting to conduct the analysis. The system is operated by the powerful, yet easy to use, Calcmet software on a PC computer. The Calcmet software offers all the tools needed for challenging measurement campaigns.

The Gasmet DX4000 utilizes Fourier Transform Infrared (FTIR) spectroscopy, which is a powerful gas measurement technology. FTIR spectroscopy works by scanning and analyzing the entire infrared spectrum in order to measure all infrared-absorbing gases in the sample simultaneously. Most molecules have a characteristic absorption spectrum that can be used to identify gases and accurately measure their concentration.



DX4000 is the world's smallest FTIR emissions monitoring system.

What is it used for?

Due to the flexibility of the FTIR technology, the DX4000 can be used in a wide variety of applications, ranging from research applications to process measurements and emissions monitoring. Typical uses include:

- > Stack testing: QAL2 tests for HCl, NH₃, SO₂, NO_x and other gases
- > Scrubber and catalyst efficiency tests
- > Combustion and engine R&D
- > PFC emissions at Aluminum and Semiconductor plants
- > Carbon capture and sequestration
- > Formaldehyde emissions from biogas
- > Formaldehyde emissions from biogas

Why should I buy the Gaset DX4000?

- > Portable
- > Easy assembly on-site
- > Addition of new gases & ranges without hardware changes
- > No pre-conditioning of samples
- > Online results
- > MCERTS-certified
- > Simultaneous measurement of all gases

Which gases can be measured?

The DX4000 can be used to measure up to 50 different gases. In combustion processes, the DX4000 is typically used to measure the following gases simultaneously:

Typically measured gases	
Water, H ₂ O	Hydrogen Fluoride, HF
Carbon Dioxide, CO ₂	Ammonia, NH ₃
Carbon Monoxide, CO	Methane, CH ₄
Nitrous Oxide, N ₂ O	Ethane, C ₂ H ₆
Nitric Oxide, NO	Propane, C ₃ H ₈
Nitrogen Dioxide, NO ₂	Ethylene, C ₂ H ₄
Sulfur Dioxide, SO ₂	Formaldehyde, CH ₂ O
Hydrogen Chloride, HCl	Oxygen, O ₂

The DX4000 is one of the most powerful tools available for challenging gas measurements. The amount of measurable gases is unparalleled, and the system is easy to configure to measure new compounds without the need for hardware changes. Please contact your local Gaset representative for more available compounds, ranges and to ask for additional information.



Why Choose Gasmet

Gasmet is the number one FTIR analyzer and system manufacturer. We have supplied over 4,000 FTIR analyzers worldwide and have the highest installed base of onsite and industrial applications.

Front Seat

We are at the forefront of development. We have 30 years of FTIR experience and have introduced several groundbreaking 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 specialists are continuously improving our products to ensure that your FTIR analyzer investment is always future-proofed.

Future First

The future belongs to everyone and we think that everyone has the right to clean air. Therefore, we are persistently developing 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. As our service and support network covers more than 70 countries, we can ensure local, high-quality technical support for our customers and guarantee the continuous availability of spare parts for our systems throughout the duration of their lifetime.



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