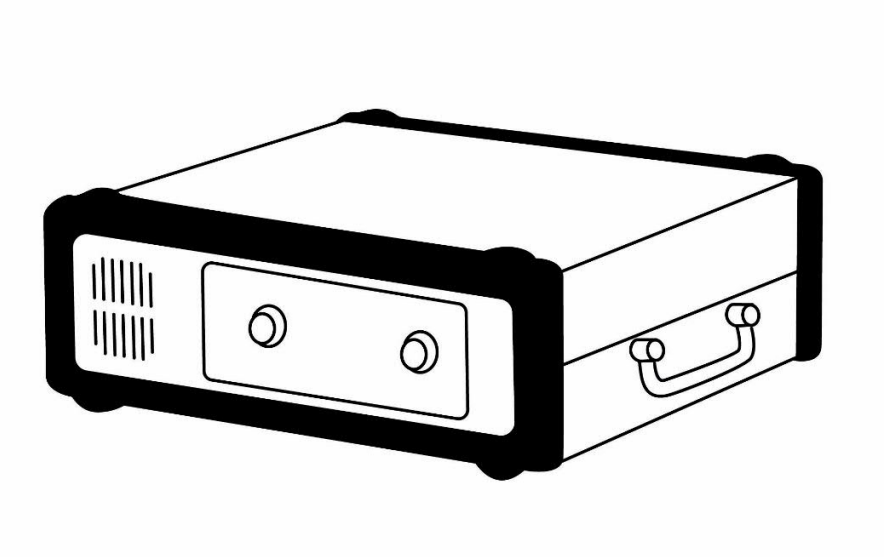
V1.13



Gasmet DX4000

Gasmet DX4000 is a portable FTIR gas analyzer designed for short term on-site measurements with wide dynamic ranges. It is an ideal tool to measure trace concentrations of pollutants in wet, corrosive gas streams. The sample cell can be heated up to 180 °C. Sample cell absorption path length is selected according to the application.

Gasmet Technologies Oy

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V1.13

System specifications

Measuring principle	Fourier transform infrared, FTIR
Multigas capability	Simultaneous analysis of up to 50 gas compounds
Response Time	Typically < 120 s
Power supply	115 / 230 V 50 / 60Hz **Power consumption:** Average 150 W, maximum 300 W
Analysis Software	Calcmet (Required operating system Windows 7 or 10)
Data Connection	9-pole D-connector for RS-232 Analyzer is connected to an external computer via RS-232C cable. The external computer controls Gasmet. Remote control connection for Portable sampling unit.
Sample pump	Recommended: Gasmet PSS
Sample gas filtration	Minimum 2 µm particulate filtration. Recommended: Gasmet PSS with standard filter.
Gas fittings	**Sample in:** 6 mm Swagelok, stainless steel **Sample out:** 8 mm Swagelok, stainless steel **Interferometer purge:** 6 mm Swagelok stainless steel
Enclosure	**Dimensions:** 390 x 445 x 164 mm **Material:** Aluminum
Weight	13.9 kg
Product compliance	CE, UKCA
Spectrometer	**Resolution:** 4/8 cm^{-1} **Detector:** Thermoelectrically cooled MCT **Beamsplitter:** Antireflection coated ZnSe **Wave number range:** 900 - 4 200 cm^{-1}
Sample cell	**Structure:** Multi-pass, path length 5.0 m **Material:** Goldcoated aluminum **Mirrors:** Fixed, protected gold coating **Volume:** 0.4 liters **Temperature:** 180 °C, maximum

Operating and storage conditions

Sample gas pressure	Ambient
Sample gas flow rate	2 – 10 l/min
Storage temperature	-20 to 60 °C, non-condensing
Operating temperature	Long term 5 to 30 °C, short term 0 to 40 °C

Performance specifications

Zero-point drift	< 2 % of measuring range per zero-point calibration interval
Sensitivity drift	None
Linearity deviation	< 2 % of measuring range
Temperature drift	< 2 % of measuring range per 10 K temperature change
Pressure influence	1 % change of measuring value for 1 % sample pressure change. Ambient pressure changes measured and compensated

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Background measurement interval	24 hours, with nitrogen (5.0 or higher N_2 recommended)
Zero gas	Nitrogen (5.0 or higher purity)