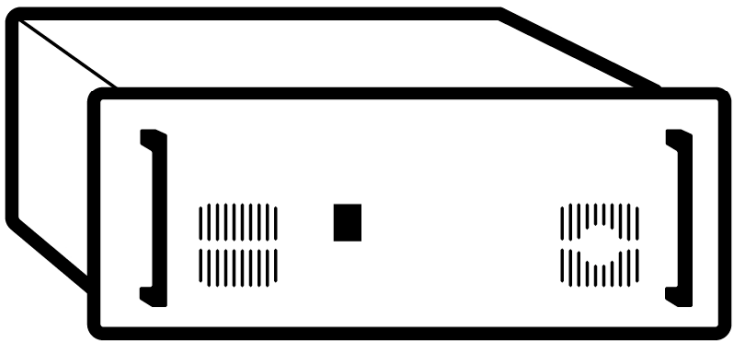
V1.15



Gasmet CX4000

Gasmet CX4000 is an FTIR gas analyzer designed for continuous emission monitoring. 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

STREET ADDRESS:
Mestarintie 6
01730 Vantaa, Finland

TEL: +358 9 7590 0400
EMAIL: contact@gasmet.fi

WEB: www.gasmet.com
VAT NO: FI26818038

V1.15

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.
Sample pump	External, not included
Sample gas filtration	Minimum 2 µm particulate filtration.
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:** 482 x 196 x 450 mm **Material:** Aluminum
Weight	17 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:** Gold coated 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	5 - 30 °C, non-condensing air conditioning recommended

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)