



## **Gasmeter DX4015**

Gasmeter DX4015 is a portable FTIR gas analyzer designed for on-site measurements at low concentrations in ambient air. Typical usage areas include environmental research and industrial hygiene. The sample cell can be heated up to 50 °C. Sample cell absorption path length is selected according to the application.

## 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	Calcmeter (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 Gasmeter. Remote control connection for Portable sampling unit.
Sample pump	Integrated
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: 390 x 445 x 164 mm Material: Aluminum
Weight	13.9 kg
Product compliance	CE, UKCA
Spectrometer	Resolution: 4/8 cm <sup>-1</sup> Detector: Thermoelectrically cooled MCT Beamsplitter: Antireflection coated ZnSe Wave number range: 900 - 4 200 cm <sup>-1</sup>
Sample cell	Structure: Multi-pass, path length 9.8 m Material: Gold coated aluminum Mirrors: Fixed, protected gold coating Volume: 0.4 liters Temperature: 50 °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
Background measurement interval	24 hours, with nitrogen (5.0 or higher N <sub>2</sub> recommended)

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Zero gas

Nitrogen (5.0 or higher purity)

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