



## Gaset DX4015

Gaset 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

<b>Measuring principle</b>	Fourier transform infrared, FTIR
<b>Multigas capability</b>	Simultaneous analysis of up to 50 gas compounds
<b>Response Time</b>	Typically < 120 s
<b>Power supply</b>	115 / 230 V 50 / 60Hz <b>Power consumption:</b> Average 150 W, maximum 300 W
<b>Analysis Software</b>	Calcmeter (Required operating system Windows 7 or 10)
<b>Data Connection</b>	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.
<b>Sample pump</b>	External, not included
<b>Sample gas filtration</b>	Minimum 2 µm particulate filtration. Recommended: Gasmeter PSS with standard filter.
<b>Gas fittings</b>	<b>Sample in:</b> 6 mm Swagelok, stainless steel <b>Sample out:</b> 8 mm Swagelok, stainless steel <b>Interferometer purge:</b> 6 mm Swagelok stainless steel
<b>Enclosure</b>	<b>Dimensions:</b> 390 x 445 x 164 mm <b>Material:</b> Aluminum
<b>Weight</b>	13.9 kg
<b>Product compliance</b>	CE, UKCA
<b>Spectrometer</b>	<b>Resolution:</b> 4/8 cm <sup>-1</sup> <b>Detector:</b> Thermoelectrically cooled MCT <b>Beamsplitter:</b> Antireflection coated ZnSe <b>Wave number range:</b> 900 - 4 200 cm <sup>-1</sup>
<b>Sample cell</b>	<b>Structure:</b> Multi-pass, path length 5.0 m <b>Material:</b> Gold coated aluminum <b>Mirrors:</b> Fixed, protected gold coating <b>Volume:</b> 0.4 liters <b>Temperature:</b> 50 °C, maximum

## Operating and storage conditions

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

## Performance specifications

<b>Zero-point drift</b>	< 2 % of measuring range per zero-point calibration interval
<b>Sensitivity drift</b>	None
<b>Linearity deviation</b>	< 2 % of measuring range
<b>Temperature drift</b>	< 2 % of measuring range per 10 K temperature change
<b>Pressure influence</b>	1 % change of measuring value for 1 % sample pressure change. Ambient pressure changes measured and compensated
<b>Background measurement interval</b>	24 hours, with nitrogen (5.0 or higher N <sub>2</sub> recommended)



V1.16

**Zero gas**

**Nitrogen (5.0 or higher purity)**

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