

# Gaset GT6000 Mobilis

Gaset GT6000 Mobilis is a portable, mains powered high performance multicomponent gas analyzer for demanding applications. GT6000 Mobilis incorporates temperature stabilized sample cell at 50 °C or 180 °C, which allows measuring from hot and wet gas streams. GT6000 Mobilis is recommended to be used with a Gaset portable sampling system PSS Base or PSS Plus.

## 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 VAC 50 / 60Hz
<b>Power consumption</b>	Max. 300 W
<b>Analysis Software</b>	Calcmnet (Required operating system Windows 10)
<b>Data Connection</b>	USB (HID), Ethernet, Bluetooth, WiFi Access Point and WiFi Station
<b>Sample pump</b>	Recommended: Gasmet PSS Base or PSS Plus.
<b>Sample gas filtration</b>	Minimum 2 µm particulate filtration. Recommended: Gasmet PSS Base or PSS Plus with standard filter.
<b>Gas fittings</b>	<b>Sample in:</b> 6 mm Swagelok <b>Sample out:</b> 8 mm Swagelok <b>Interferometer purge:</b> 6 mm quick connect
<b>Enclosure</b>	<b>Dimensions:</b> 474 x 315 x 183 mm <b>Material:</b> ABS PC <b>IP class:</b> IP42
<b>Weight</b>	11.2 kg
<b>CE label</b>	According to EMI guideline 2014/30/EU and low-voltage directive 2014/35/EU
<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 - 4 400 cm <sup>-1</sup>
<b>Sample cell</b>	<b>Structure:</b> Multi-pass, fixed path length 5.0 m <b>Material:</b> 100 % purity gold coated aluminum <b>Mirrors:</b> 100% purity gold coated metal mirrors with protection layers <b>Volume:</b> 0.5 liters <b>Temperature:</b> 50 °C or 180 °C

## Operating and storage conditions

<b>Sample gas pressure</b>	Ambient
<b>Sample gas flow rate</b>	Recommended: Gasmet PSS Base or PSS Plus with nominal flow of 4 l/min. If another sampling system is used, flow rate should be 2 – 8 l/min
<b>Storage temperature</b>	-20°C to 60°C, Non-condensing
<b>Operating temperature</b>	Long term -5 to 40 °C, short term -10 to 50 °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 across long term operating temperature range
<b>Pressure influence</b>	1 % change of measuring value for 1 % sample pressure change. Ambient pressure changes measured and compensated



V1.8

**Background measurement interval**

24 hours, with nitrogen (5.0 or higher N<sub>2</sub> recommended)

**Zero gas**

Nitrogen (5.0 or higher purity)

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