



## Gasmet GT6000 Mobilis

Gasmet 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 Gasmet 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

**Background measurement  
interval**

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

**Zero gas**

Nitrogen (5.0 or higher purity)

Gasmet Technologies Oy shall not be liable for technical or editorial errors or omissions contained herein. The information in this document is provided "as is" without warranty of any kind and is subject to change without notice. Should you find any errors, we would appreciate if you notified us.