



V1.8

Gasmeter GT6000 Mobilis

Gasmeter 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 Gasmeter portable sampling system PSS Base or PSS Plus.

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 VAC 50 / 60Hz
Power consumption	Max. 300 W
Analysis Software	Calcmeter (Required operating system Windows 10)
Data Connection	USB (HID), Ethernet, Bluetooth, WiFi Access Point and WiFi Station
Sample pump	Recommended: Gasmeter PSS Base or PSS Plus.
Sample gas filtration	Minimum 2 µm particulate filtration. Recommended: Gasmeter PSS Base or PSS Plus with standard filter.
Gas fittings	Sample in: 6 mm Swagelok Sample out: 8 mm Swagelok Interferometer purge: 6 mm quick connect
Enclosure	Dimensions: 474 x 315 x 183 mm Material: ABS PC IP class: IP42
Weight	11.2 kg
CE label	According to EMI guideline 2014/30/EU and low-voltage directive 2014/35/EU
Spectrometer	Resolution: 4/8 cm ⁻¹ Detector: Thermoelectrically cooled MCT Beamsplitter: Antireflection coated ZnSe Wave number range: 900 - 4 400 cm ⁻¹
Sample cell	Structure: Multi-pass, fixed path length 5.0 m Material: 100 % purity gold coated aluminum Mirrors: 100% purity gold coated metal mirrors with protection layers Volume: 0.5 liters Temperature: 50 °C or 180 °C

Operating and storage conditions

Sample gas pressure	Ambient
Sample gas flow rate	Recommended: Gasmeter 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
Storage temperature	-20°C to 60°C, Non-condensing
Operating temperature	Long term -5 to 40 °C, short term -10 to 50 °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 across long term operating temperature range
Pressure influence	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 N₂ recommended)

Zero gas

Nitrogen (5.0 or higher purity)

Gasmeter 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.