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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.

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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	Calcmet (Required operating system Windows 10)
Data Connection	USB (HID), Ethernet, Bluetooth, WiFi Access Point and WiFi Station
Sample pump	Recommended: Gasmet PSS Base or PSS Plus.
Sample gas filtration	Minimum 2 µm particulate filtration. Recommended: Gasmet 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: 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
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

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Background measurement interval	24 hours, with nitrogen (5.0 or higher N_2 recommended)
Zero gas	Nitrogen (5.0 or higher purity)