

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

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	Calcmnet (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



V1.8

Background measurement interval

24 hours, with nitrogen (5.0 or higher N₂ recommended)

Zero gas

Nitrogen (5.0 or higher purity)

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PSS Base & PSS Plus

Gasmeter PSS is an automated portable sampling system for continuous extractive sampling from hot and wet gas streams. It is designed for periodic, continuous measurements on site. PSS Base and PSS Plus are controlled with Calcmet software and GT6000 Mobilis gas analyzer.

The PSS Base is affordable option with all the basic features for automated, continuous sampling. PSS Plus has additional features for advanced measurements: oxygen measurement, sample flow status signal and integrated rotameters for instrument air and zero gas flow control. There is also a possibility to connect instrument air for safety and purging, saving N₂.

System specifications

Heated sampling train	Set temperature: 50 °C or 180 °C Main components: filter, pump, sample lines Materials: Teflon and stainless steel
Sample	Flow: nominal 4 l/min, at ambient pressure 2 l/min at -200 mbar (relative) 2 l/min at +400 mbar (relative) Filtering before PSS (optional probe): Filtration of particulates (2 µm)
Power supply	Separate models for 100-115 and 230 V / 50 -60 Hz Power connection: CEE7 standard European Schuko plug or fixed cable Power consumption: 400 W maximum PSS only, 2400W maximum for heated lines. Maximum for single heated line 2300 W for 230 V version and 1150 W for 115 V version.
Sample inlet/outlet fittings	6 mm Swagelok, stainless steel
Auxiliary gas inlets (zero gas, instrument air (only in PSS Plus))	Recommended pressure: 2 bar Recommended flow: 4 l/min, PSS Plus: adjustable 0-7 l/min
Enclosure	Dimensions: 420x245x290 mm Material: Steel, Powder Coated Grey IP class: IP42
Weight	16 kg (PSS Plus), 15 kg (PSS Base)
CE label	According to EMI guideline 2014/30/EU and low-voltage directive 2014/35/EU
Internal heated filter	Default: PTFE 2 µm Option: Sintered stainless steel 0.1µ
Oxygen sensor (only in PSS Plus)	Principle: ZrO ₂ cell Measuring range: 0.1 – 25 % Calibration: Automated single point calibration with air
Optional heated line	Tube size: 4 mm inner diameter, 6 mm outer diameter Core material: Teflon Fittings: 6 mm Swagelok Power supply: Supplied from PSS Power density: 120 watts/meter Maximum total sample line length: 20 m for 230V model, 13 m for the 115V model

Operating and storage conditions

Operating temperature	Long term -5 to 40 °C, short term -10 to 50 °C
Storage temperature	-20 to 60 °C, non-condensing

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