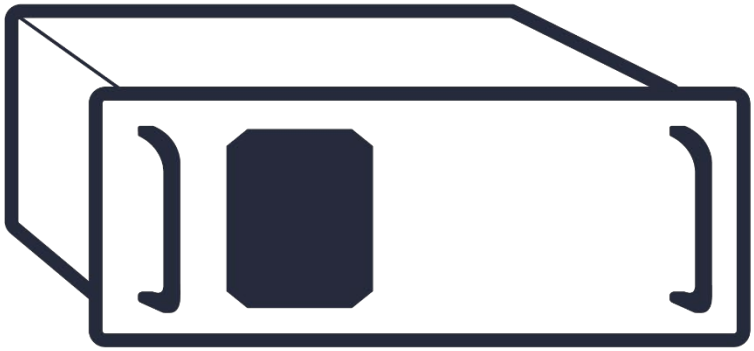

Gasmet GT7000 Tellus

Gasmet GT7000 Tellus is a high-performance FTIR (Fourier Transform Infrared) gas analyzer designed for continuous and on-demand multicomponent gas analysis. As a standalone, rack-mountable analyzer, it integrates easily into your sampling system—connect the sample gas to the inlet and start measuring.

Measure up to 50 gases simultaneously, selected from an extensive library of quantifiable and identifiable compounds, with results delivered instantly. The versatile Calcmet 16 software supports connectivity, identification of unknown gases, and flexible configuration—new compounds and measurement ranges can be added through software settings without hardware changes.

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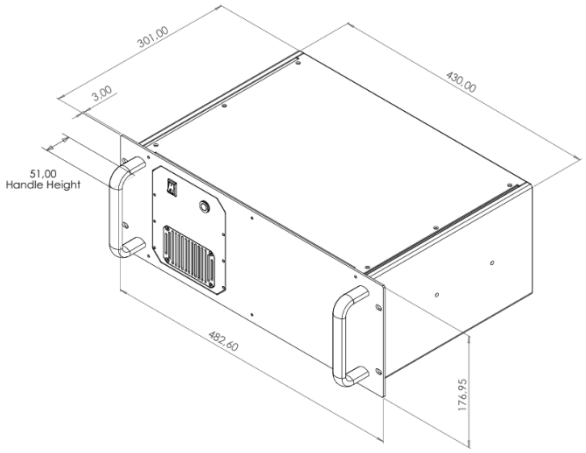
System specifications

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 V / 50 -60 Hz
Power consumption	Max. 300 W
Analysis Software	Calcmet (Required operating system: Windows 10 / Windows 11)
Data Connection	USB (HID)
Communication interfaces	USB connection to host PC running Calcmet software for analyzer operation. **Supported communication protocols via Calcmet:** Modbus RTU, Modbus RTU VDI, Modbus TCP/IP, Modbus TCP/IP VDI
Gas fittings	**Sample in:** 6 mm Swagelok, stainless steel (optional ¼") **Sample out:** 8 mm Swagelok, stainless steel (optional ¼") **Interferometer purge:** 6 mm quick connect, stainless steel
Enclosure	**Dimensions:**  **Rear extension:** approx. 2 mm (purge connection, without ferrules) without straight heated line supports; approx. 61 mm with supports opened. **Material:** Aluminum case with SS back plate **IP class:** IP30
Weight	11.4 kg
Product compliance	CE, UKCA
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 (optional: 2.5 m) **Material:** Gold coated aluminum **Mirrors:** 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 (optional: sample cell pressure)
Sample gas flow rate	Recommended: 4 l/min. Range: 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	Zero-point drift: ≤ 3 % of range (EN 15267) Typical performance ≤ 2 % with daily background measurement
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. Pressure changes measured and compensated
Background measurement interval	24 hours, with nitrogen (5.0 or higher N_2 recommended)
Zero gas	Nitrogen (5.0 or higher purity)