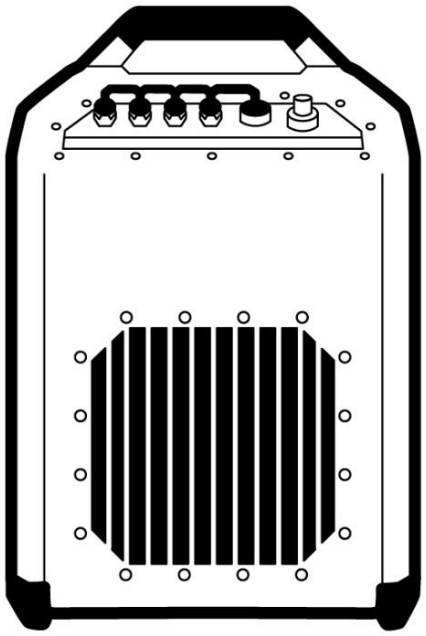
v.E.1.00



GT5000 Terra FTIR Gas Analyzer

Gasmet GT5000 Terra is a portable ambient temperature FTIR gas analyzer. It is designed for high-quality multigas measurements in the field. Built-in pump, battery operation, wireless connections and splash-proof cover allow ease of use in demanding conditions.

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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, depending on the measured components and measuring time
Battery	Li-ion battery, approximately 3-hour operation time
Power supply	115 / 230 VAC
Analysis Software	Calcmet Required operating system Windows 7 or 10
Data Connection	USB, Ethernet, Bluetooth, WiFi Access Point and WiFi Station. Remote operable.
Sample pump flow	2 liters / minute
Sample gas filtration	**Recommended filtration:** Gasmet sampling probe with 2 µm PTFE filter
Sample inlet/outlet fittings	6 mm quick-connect
Enclosure	**Dimensions:** 450 x 287 x 166 mm (17,7 x 11,3 x 6,5 inches) (H x W x D) **Material:** ABS PC **IP class:** IP54 in portable field use
Weight	9.4 kg (with battery), 8.0 kg (without battery)
Spectrometer	**Resolution:** 8 cm^{-1} **Scan frequency:** 10 scans / s **Detector:** Peltier cooled MCT **Beamsplitter:** ZnSe **Wave number range:** 900 - 4 200 cm^{-1}
Sample cell	**Structure:** Multipass, fixed path length 5.0 m **Mirrors:** Fixed, gold coated **Volume:** 0.5 liters

Operating conditions

Sample gas pressure	Ambient pressure
Sample gas temperature	Ambient temperature (-5 – 40 °C), non-condensing
Operating temperature	Short term -5 – 40 °C, Long term 5 – 30 °C

Performance specifications

Zero-point drift	< 2 % of measuring range per 24 h background measurement interval
Sensitivity drift	None
Linearity deviation	< 2 % of measuring range
Temperature drift	< 1 % of measuring range per 10 K temperature change.* Ambient temperature changes are measured and compensated. (* = Typical GHG Application.)
Pressure influence	1 % change of measuring value for 1 % sample pressure change. Ambient pressure changes are measured and compensated.
Background measurement interval	Recommended 24 h

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