



GT5000 Terra FTIR Gas Analyzer

Gasmeter 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.

v.E.1.00

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	Calcmeter 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: Gasmeter 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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