



## **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.



## 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, Windows 10 or Windows 11

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)

Product compliance CE, UKCA

Spectrometer Resolution: 8 cm<sup>-1</sup>

Scan frequency: 10 scans / s
Detector: Peltier cooled MCT

**Beamsplitter:** ZnSe **Wave number range:** 900 - 4 200 cm<sup>-1</sup>

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</pre>

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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