



# 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.

## System specifications

<b>Measuring principle</b>	Fourier transform infrared, FTIR
<b>Multigas capability</b>	Simultaneous analysis of up to 50 gas compounds
<b>Response Time</b>	Typically < 120 s, depending on the measured components and measuring time
<b>Battery</b>	Li-ion battery, approximately 3-hour operation time
<b>Power supply</b>	115 / 230 VAC
<b>Analysis Software</b>	Calcmeter Required operating system Windows 7 or 10
<b>Data Connection</b>	USB, Ethernet, Bluetooth, WiFi Access Point and WiFi Station. Remote operable.
<b>Sample pump flow</b>	2 liters / minute
<b>Sample gas filtration</b>	<b>Recommended filtration:</b> Gasmeter sampling probe with 2 µm PTFE filter
<b>Sample inlet/outlet fittings</b>	6 mm quick-connect
<b>Enclosure</b>	<b>Dimensions:</b> 450 x 287 x 166 mm (17,7 x 11,3 x 6,5 inches) (H x W x D) <b>Material:</b> ABS PC <b>IP class:</b> IP54 in portable field use
<b>Weight</b>	9.4 kg (with battery), 8.0 kg (without battery)
<b>Spectrometer</b>	<b>Resolution:</b> 8 cm <sup>-1</sup> <b>Scan frequency:</b> 10 scans / s <b>Detector:</b> Peltier cooled MCT <b>Beamsplitter:</b> ZnSe <b>Wave number range:</b> 900 - 4 200 cm <sup>-1</sup>
<b>Sample cell</b>	<b>Structure:</b> Multipass, fixed path length 5.0 m <b>Mirrors:</b> Fixed, gold coated <b>Volume:</b> 0.5 liters

## Operating conditions

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

## Performance specifications

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

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