

FIELD Environmental Instruments

Equipment Rental and Field Supplies

CES-LANDTEC

GEM-500 Gas Extraction Monitor

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The GEM-500 is a lightweight, portable gas extraction monitor that integrates nine field instruments with an on-board computer. The versatile monitor provides an array of analysis and computation functions which can be stored, printed and downloaded to a personal computer to provide error-free data management.

This unit is an all-weather, self contained monitor that uses a self-compensating infrared gas analyzer, rechargeable power supply and an internal sample pump capable of drawing a gas sample at up to 70" vacuum.

The GEM-500 automatically samples and analyzes the methane, carbon dioxide and oxygen content of landfill gas. The easy to read LCD screen shows the results as percentages of CH₄, CO₂, O₂, and "balance" gas. The GEM-500 also calculates and displays gas flow rate

SPECIFICATIONS

	Sensor Range <u>Imperial</u>	Resolution <u>Imperial</u>
Methane--CH ₄	0-100%	0.1%
Carbon Dioxide--CO ₂	0-60%	0.1%
Oxygen--O ₂	0-25%	0.1%
Pressures-- (diff)	0-10" W.C.	0.01" W.C.
(static)	0-100" W.C.	0.1" W.C.

Typical Accuracy

	%CH ₄	%CO ₂	% O ₂
Concentration	Volume	Volume	Volume
5% (LEL CH ₄)	±0.3%	±0.5%	±0.25%
75%	±1.9%	±3.0%	N/A

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