GEM™2000 PLUS

PORTABLE GAS ANALYZER

Enhanced Model Enables Field Technicians

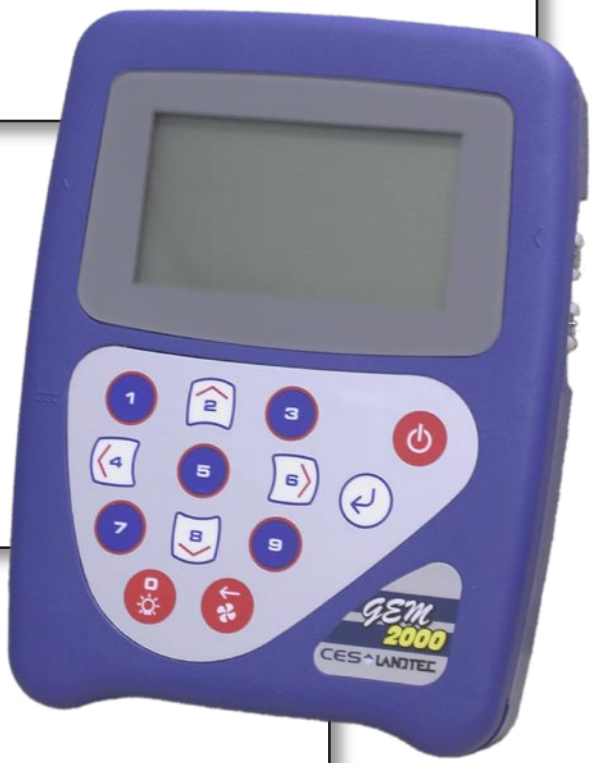
The GEM™2000 is designed & field proven to monitor landfill gas extraction systems accurately & efficiently. The GEM™2000 PLUS offers all the advantages and capabilities of the GEM™2000. Utilizing new technology the GEM™2000 PLUS adds the enhanced ability to read Carbon Monoxide and Hydrogen Sulfide.

Features

- Measures CO & H_2S gases
- Measures % CH_4, CO_2 and O_2 Volume, static pressure and differential pressure
- Calculates balance gas, flow (SCFM) and calorific value (KW or BTU)
- Displays % LEL of CH_4, Peak CH_4 and user-defined comments
- Records site and well conditions
- Extended operation (10 - 14 hrs use from one charge)
- Accepts protocols
- Two instruments in one (GA and GEM mode)

Benefits

- Minimize erroneous CO readings
- No need to take more than one instrument to site
- Can be used for routine sub-surface migration monitoring of landfill site perimeters *and* for measuring gas composition, pressure and flow in gas extraction systems
- The user is able to set up comments and questions to record information at site and at each sample point
- Ensures consistent collection of data for better analysis
- Allows balancing of gas extraction systems



Applications

- Gas Extraction Wells
- Flare Monitoring
- Landfills
- Biogas Sites

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Visit our web site at http://www.ces-landtec.com

Technical Specification

GEM™2000 PLUS
PORTABLE GAS ANALYZER

Gases Measured	CO_2, CH_4, by dual wavelength infra-red cell with reference channel. O_2, H_2S, CO (Hydrogen compensated) by internal electrochemical cell

Range			
CH_4	0-100% Reading	O_2	0-25%
CO_2	0-100% Reading	CO	0-2000ppm
		H_2S	0-200ppm

Gas Accuracy	CH_4	CO_2	O_2
0-5%	±0.5%	±0.5%	±1.0%
5-15%	±1.0%	±1.0%	±1.0%
15% - Full Scale	±3.0%	±3.0%	±1.0%

Other Parameters	Unit	Accuracy	Comments
Energy	KW/h	0.1 kW/h	Calculated from specific parameters.
Static Pressure	in.H_2O	±1.6 in.H_2O	Direct Measurement
Differential Pressure	in.H_2O	±0.12 in.H_2O	Direct Measurement (less barometric)

CO Measurement	Compensated for interference from Hydrogen up to 1% Hydrogen. Cross sensitivity approx 1%.
Flow	Typically 300 cc/min
Flow with 5.9 in.Hg vacuum	Approximately 250 cc/min
Operating Temperature Range	32°F - 104°F
Relative Humidity	0-95% non condensing
Barometric Pressure	±5.9 in.Hg from calibration pressure
Barometric Pressure Accuracy	±0.15 in.Hg typically
Battery Life	Typical use 10 hours from fully charged
Charge Time	Approximately 2 hours from complete discharge.

SWANA MEMBER

An involved and contributing member of the Solid Waste Association of America

LANDTEC

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