



Enhanced Model Enables Field Technicians

The GEM™2000 PLUS 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 & H₂S gases
- Measures % CH₄, CO₂ and O₂ Volume, static pressure and differential pressure
- Calculates balance gas, flow (SCFM) and calorific value (KW or BTU)
- Displays % LEL of CH₄ and user-defined comments
- Records site and well conditions
- Extended operation (10 - 14 hrs use from one charge)
- Certified intrinsically safe for landfill use
- 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 perimeter probes 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 accurate analysis
- Allows balancing of gas extraction systems

Applications

- Subsurface Migration Probes
- Gas Extraction Wells
- Flare Monitoring
- Landfills



Technical Specification

Gases Measured

CO₂, CH₄, by dual wavelength infrared cell with reference channel. O₂, H₂S, CO (Hydrogen compensated) by internal electrochemical cell

Range		O ₂	0-25%
CH ₄	0-100% Reading	CO	0-2000ppm
CO ₂	0-100% Reading	H ₂ S	0-500ppm

Gas Accuracy	CH ₄	CO ₂	O ₂
0-5%	±0.3%	±0.3%	±1.0%
5-15%	±1.0%	±1.0%	±1.0%
15% - Full Scale	±3.0%	±3.0%	±1.0%

Other Parameters	Unit	Resolution	Comments
Energy	BTU/hr	1000 BTU/hr	Calculated from specific parameters.
Static Pressure	in.H ₂ O	0.1 in.H ₂ O	Direct Measurement
Differential Pressure	in.H ₂ O	0.001 in.H ₂ O	Direct Measurement

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

±1% typically

Battery Life

Typical use 10 hours from fully charged

Charge Time

Approximately 2 hours from complete discharge.



The Climate Registry



LANDTEC North America
 Western Sales Office
 (800) 821-0496 • Fax (909) 825-0591
 Eastern Sales Office
 (800) 390-7745 • Fax (301) 391-6546

LANDTEC South America
 +55(11) 5181-6591 • Fax +55(11) 5181-6585
 www.LANDTEC.com.br

