

Landfill Gas Monitor

Landtec GEM™ 2000 PLUS

The GEM™ 2000 is designed and field proven to monitor landfill gas extraction systems accurately and 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, Peak CH₄ 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)

APPLICATIONS

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



Landtec GEM 2000 PLUS Rental

SPECIFICATIONS

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

Range	Gas Accuracy	CH ₄	CO ₂	O ₂
O ₂ 0-25%	0-5%	±0.5%	±0.5%	±1.0%
CH ₄ 0-100% Reading	5-15%	±1.0%	±1.0%	±1.0%
CO 0-2000 ppm	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 ₂ O	±1.6 in.H ₂ O	Direct Measurement
Differential Pressure	in.H ₂ O	±0.12 in.H ₂ O	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.		

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