

# Rental

## 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 & H<sub>2</sub>S gases
- Measures % CH<sub>4</sub>, CO<sub>2</sub> and O<sub>2</sub> volume, static pressure and differential pressure
- Calculates balance gas, flow (SCFM) and calorific value (KW or BTU)
- Displays % LEL of CH<sub>4</sub>, Peak CH<sub>4</sub> and user-defined comments
- Records site and well conditions
- Extended operation (10-14 hours use from one charge)
- Accepts protocols
- Two instruments in one (GA and GEM mode)

#### APPLICATIONS

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



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#### SPECIFICATIONS

Gases Measured: CO<sub>2</sub>, CH<sub>4</sub>, by dual wavelength infrared cell with reference channel.  
O<sub>2</sub>, H<sub>2</sub>S, CO (Hydrogen compensated) by internal electrochemical cell.

##### RANGE

O <sub>2</sub> .....0-25%	CO <sub>2</sub> .....0-100% Reading
CH <sub>4</sub> .....0-100% Reading	H <sub>2</sub> S .....0-200 ppm
CO .....0-2000 ppm	

##### GAS ACCURACY

<b>0-5%</b>	<b>CH<sub>4</sub></b> ±0.5%	<b>CO<sub>2</sub></b> ±0.5%	<b>O<sub>2</sub></b> ±1.0%
<b>5-15%</b>	±1.0%	±1.0%	±1.0%
<b>15% – Full Scale</b>	±3.0%	±3.0%	±1.0%

##### OTHER PARAMETERS

	Unit	Accuracy	Comments
<b>Energy</b>	KW/h	0.1 kW/h	Calculated from specific parameters
<b>Static Pressure</b>	in.H <sub>2</sub> O	±1.6 in.H <sub>2</sub> O	Direct Measurement
<b>Differential Pressure</b>	in.H <sub>2</sub> O	±0.12 in.H <sub>2</sub> O	Direct Measurement (less barometric)
<b>CO Measurement</b>		Compensated for interference from hydrogen up to 1% hydrogen. Cross sensitivity approx 1%.	
<b>Flow</b>		Typically 300 cc/min	
<b>Flow with 5.9 in.Hg Vacuum</b>		Approximately 250 cc/min	
<b>Operating Temperature Range</b>		32°F-104°F	
<b>Relative Humidity</b>		0-95% non condensing	
<b>Barometric Pressure</b>		±5.9 in.Hg from calibration pressure	
<b>Barometric Pressure Accuracy</b>		±0.15 in.Hg typically	
<b>Battery Life</b>		Typical use 10 hours from fully charged	
<b>Charge Time</b>		Approximately 2 hours from complete discharge	

**CALL GEOTECH TODAY (800) 833-7958**

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