



Landfill  
Gas Extraction  
Power Generation  
Gas Flow



## H<sub>2</sub> Compensated CO Gas Extraction Monitor

The GEM2000 Plus is designed to monitor landfill gas extraction systems. Utilising new technology the GEM2000 Plus gives increased reliability for Carbon Monoxide (CO) readings. It retains the features of the field proven GEM2000.

### Benefits

- Aids balancing of gas extraction site
- Simultaneous display of all gases
- Maximise power generation from site
- Storage of changes in set up of gas field
- Field proven
- Standardises monitoring routines
- Easy transfer of data

### Features

- New analysers calibrated to UKAS ISO17025 standard
- ATEX Certified, Zone 1 
- MCERTS approved 
- H<sub>2</sub> Compensated CO
- Calculates flow (m<sup>3</sup>/h) and calorific value (Kw or BTU) - note: requires ID upload from GAM software
- Records static and differential pressure
- Technician log
- Optional Event Log
- Two instruments in one (GA and GEM)
- Optional GPS



### Applications

- Gas Extraction Sites
- Flare monitoring
- Landfill Sites

## The GEM2000 Plus

### Event Log System - audit trail for gas analyser monitoring

The GA2000 & GEM2000 Range analysers can incorporate the facility for a log of events. This can be used as an aid to monitoring when using the analyser. The feature offers traceability and supports site compliance and audits. Further, it can be used as secondary report to confirm data taken from previous site monitoring, giving your customer/client the confidence that data was taken correctly.



### Product Specifications

<b>Gases Measured</b>		CH <sub>4</sub> , CO <sub>2</sub> , by dual wavelength infrared cell with reference channel. O <sub>2</sub> by internal electrochemical cell.	
<b>Range</b>			
CH <sub>4</sub>	0-70% by specification, 0-100% reading	CO	0-2000ppm (H <sub>2</sub> Compensated)
CO <sub>2</sub>	0-60% by specification, 0-100% reading	H <sub>2</sub> S	0-500ppm
O <sub>2</sub>	0-25%		
<b>Gas Accuracy*</b>			
	CH <sub>4</sub>	CO <sub>2</sub>	O <sub>2</sub>
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%
*With certified field calibration			
<b>Other Parameters</b>		<b>Unit</b>	<b>Range</b>
<b>Static Pressure</b>		mbar	±500 mbar
<b>Differential Pressure</b>		mbar	±125 mbar
<b>ATEX rating</b>		Ex II 2G Ex ib d IIA T1 Gb (Ta = 0°C to +40°C)	
<b>Operating Temperature Range</b>		0°C - 40°C	
<b>Relative Humidity</b>		0-95% non condensing	
<b>Barometric Pressure Range</b>		±200 mbar from calibration Pressure	
<b>Barometric Pressure Accuracy</b>		±5 mbar	
<b>Battery Life</b>		Typical use 10 hours from fully charged	
<b>Charge Time</b>		Approximately 2 hours from complete discharge	
<b>Weight</b>		Approximately 2 kg	
<b>Dimensions</b>		Length 252mm, Width 190mm, Depth 63mm	
<b>Recommended Field Calibration Mix</b>		60% CH <sub>4</sub> , 40% CO <sub>2</sub> , or 5% CH <sub>4</sub> , 5% CO <sub>2</sub> , 6% O <sub>2</sub> (dependant on application)	