

GEM2000 Plus Landfill Gas Analyser

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.

This equipment has been certified for use in potentially explosive atmospheres in accordance with ATEX directive 94/9/EC. Equipment group and category: EX II 2 G. Protection concept: Eex ibd IIA T1 (Ta = 0 °C to +40 °C).

Features & Benefits

- ATEX certified
- Measures H₂S and CO
- Measures % CH₄ CO₂ and O₂ static pressure and differential pressure
- Calculates balance gas flow (m³/h) and calorific value (KW or BTU)
- Records %LEL of CH₄ Peak CH₄ and user defined comments
- Accepts protocols
- Allows balancing of gas extraction
- Modem for remote download
- Optional Event log
- Data storage 2000 readings and 1000 IDs
- 0-500ppm H₂S readings
- Technician log

Main Applications

- Gas extraction fields
- Flare monitoring
- Landfill sites



GEM2000 Plus shown with optional Pitot Tube



Specifications

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

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%

Static Pressure

±500mbar (direct measurement)

Differential Pressure

±125 mbar (direct measurement)

Operating Temperature Range

0°C - 40°C

Relative Humidity

0-95% non-condensing

Barometric Pressure Range

±200 mbar from calibration pressure

Barometric Pressure Activity

± 5 mbar

Battery Life

Typical use 10 hours from fully charged

Charge Time

Approximately 2 hours from complete discharge

Ordering Information

GTIGEM2000 GEM2000 ATEX Certified
Infra-red Gas Analyser (no cells) Measures CH₄/CO₂/O₂

GTIGEM2000PLUS GEM2000Plus
ATEX Certified Infra-red Gas Analyser Measures CH₄/CO₂/O₂/H₂S and CO with a Hydrogen compensated CO Cell (Hydrogen level also indicated)