Landfill
Gas Extraction
Site Investigation

The GEM 2000 has been designed for gas extraction systems, flares and migration control systems. This unit allows standard landfill monitoring and, in the GEM mode, can display calorific gas content of a gas extraction system. Ideal for maximising extraction efficiency and quality for waste to energy systems.

Benefits

- Aids balancing of gas field
- Real time adjustments can be made
- Maximise power output from site
- Easy to read flow and power readings

Features

- ATEX certified
- CH_4, CO_2, O_2, measured
- Peak gases recorded
- Records static and differential pressure
- Calculates gas flow m^3/h
- Calculates calorific vaue (KW or BTU)

Applications

- Gas extraction sites
- Flare/ engine compound

The GEM2000

GAMS Software

GAMS (Gas Analyser Management Software) enables users to maximise the operation of their gas analyser. It enables both direct and remote communication with the unit. It features a simple upload and download facility and is fully compatible with the latest Microsoft™ operating Systems.

Product Specifications

Gases Measured	CH_4, CO_2, by dual wavelength infrared cell with reference channel. O_2 by internal electrochemical cell

Range

CH_4	0-100% Reading
CO_2	0-100% Reading
O_2	0-25%

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%

* With proper field calibration

Other Parameters	Unit	Range	Comments
Static Pressure	mbar	+/- 500 mbar	Direct Measurement
Differential Pressure	mbar	+/- 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 Accuracy	±5 mbar
Battery Life	Typical use 10 hours from fully charged
Charge Time	Approximately 2 hours from complete discharge
Weight	Approximately 2kg
Dimensions	Length 63mm, Width 190mm, Depth 252mm
Recommended Field Calibration Gas Mix	60% CH_4 / 40% CO_2 or 5% CH_4, 5% CO_2 , 6% O_2 (dependent on application)

Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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