

Gas Data GFM400 series

ATEX certified landfill gas analysers

The **GFM400** Series of handheld field instruments mark a step change in the design, performance and maintenance of portable landfill gas analysers. They meet all current demands from the landfill, biogas and contaminated land monitoring markets.

Incorporating industrial standard sensors and user replaceable battery packs the **GFM400** series leads the way for easy expansion, easy upgrade and easy maintenance. Gas Data's open upgrade path design philosophy guarantees that any model can be upgraded at any time.

GFM400/410

Optimised for the control and maintenance of landfill gas extraction systems and Flares. Its simple, quick operation is designed to help engineers minimise down time and maximise plant efficiency.

GFM430

Measuring gas concentrations, pressures, flows and temperatures the GFM430, is ideal for monitoring landfill gas migration and conducting contaminated land site investigations.

Series Features

- Up to 7 gas analysis channels
- 4 Wavelength optical infra-red analyser
- Atmospheric pressure
- Powerful sample pump
- User replaceable sample filter
- Field replaceable/rechargeable battery pack
- Optional flow, pressure and temperature
- Industry standard sensors
- Open upgrade path
- Data storage option
- 12 month service interval



Specification		GFM400	GFM410	GFM430
Common features				
Infra red CH ₄ analysis	0-100%	✓	✓	✓
LEL	0-100%	✗	✓	✓
Infra red CO ₂ analysis	0-100%	✗	✓	✓
Electrochemical O ₂ analysis	0-25%	✓	✓	✓
Atmospheric pressure	800 to 1200 mbar	✗	✓	✓
User spec'd gas channels*		✗	✓	✓
Static (Gauge) Pressure	±400 mbar	✓	✓	✗
Vane anemometer input	0.01-40.0 m/s	✓	✓**	✓**
Temperature probe input	-10 to 100c	✗	✓**	✓**
Borehole flow measurement				
Flow Range	-60 to +100 l/hour	✗	✗	✓
Flow Resolution	0.1 l/hour	✗	✗	✓
Borehole Pressure	+1000/-1000 Pa (Typical)	✗	✗	✓

*Hydrogen sulphide (H₂S), carbon monoxide (CO), hydrogen (H₂) and hydrogen cyanide (HCN) options available.

**Additional anemometer and/or temperature probe required.



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Other products available from Gas Data



GFM100 - Single and multiple gas analyser



GFM200 - Stowaway detection



GFM600 - Pressure and flow analyser



LMSp biogas/landfill monitoring systems



LMSi - Contaminated land and landfill gas analyser



LMSr - Temporary data logging systems



Combimass - Gas flow monitoring

Gas Data GFM416 Biogas Analyser

Handheld portable analyser for accurate on site gas analysis of Biogas

The Gas Data **GFM416** has been designed for analysis of all biogas components in one single handheld instrument.

- Methane (CH₄) 0-100 % v/v
- Carbon dioxide (CO₂) 0-100 % v/v
- Oxygen (O₂) 0-25 %v/v
- Hydrogen sulphide (H₂S) 0-5000 ppm v/v
- Optional ammonia. (NH₃) 0-1000 ppm v/v

Instruments are factory calibrated on precision biogas mixtures across the whole of its operating temperature and pressure range. The ammonia sensor is the first of its type and offers exceptionally accurate readings with no cross gas effects from other biogas components.

Additional Features

- Intrinsically safe, ATEX certified.
- Built in gas conditioning filter
- Built in sample pump
- Rechargeable, field replaceable batteries
- User calibration verification and adjustment.
- Optional flow measurement with Combimass device
- Optional Temperature reading
- Optional data storage and download



Gas flow measurement

The **GFM416** is supported by flow measurement using our **Combimass** thermal mass gas flow instrumentation.

This fixed instrument works on the principle of thermal dispersion and determines the standard volumetric or gas mass flow through a gas pipeline. The **Combimass** thermal mass flow device is unaffected by pressure or temperature fluctuations and is ideal for operation in the slow moving water saturated gas mixes typical of biogas production plants. Data from the **Combimass** can be viewed on site with a local or remote displays and has electrical outputs (4-20 mA, pulse and digital) for connection to existing control equipment.

GFM416 - Combimass applications

- Biogas production optimisation
- Biogas desulphurisation control
- Anaerobic Digester (AD) control



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Gas Analysis and Control

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