

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 plug in 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

A truly universal landfill gas analyser. Measuring gas concentrations, pressures, flows and temperatures it can be used to equally great effect at peripheral boreholes and gas extraction wells.

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
- Plug in sensors
- Open upgrade path
- Data storage

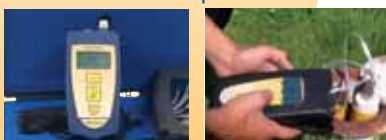


Specification		GFM400	GFM410	GFM430
Common features				
Infra red CH4 analysis	0-100%	✓	✓	✓
LEL	0-100%	✗	✓	✓
Infra red CO2 analysis	0-100%	✗	✓	✓
Electrochemical O2 analysis	0-25%	✓	✓	✓
Atmospheric pressure	800 to 1200 mbar	✗	✓	✓
User spec'd gas channels		✗	✓	✓
Static (Gauge) Pressure	±400 mbar	✓	✓	✗ ■
Vane anemometer input	0.01-40.0 m/s	✓	✓	✓
Temperature probe input	-10 to 100c	✗	✓	✓
Borehole (Low) Flow measurement				
Flow Range	-60 to +100 l/hour	✗	✗	✓
Flow Resolution	0.1 l/hour	✗	✗	✓
Borehole Pressure	+1000/-1000 Pa (Typical)	✗	✗	✓

■ Static Pressure available as an OPTION on this instrument only



Other Gas Data products available from Shawcity



GFM100 - Single and multiple gas analyser

GFM600 - Pressure and flow analyser



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Gas Data GFM400 Series Specifications

General			
Ex. Rating to:		ITS04 ATEX 23415, EEx ib IIB T1	
Ambient Temp Range		-10 to 40 C	
Battery Life		10 hours typical	
Battery charge time		2 to 4 hours	
Aspiration Rate		300 ml/min typical	
Storage Capacity		>900 Readings	
Protection Rating		IP65	
Dimensions		200 x 100 x 60 mm (approx)	
Weight		750g typical depending on options installed	
GFM410 Standard Channels			
	Range	Typical Accuracy	Typical Response
Methane	0 to 100%	0.2% @ 5%	20s
		1.0% @ 30%	
		3.0% @ 100%	
	0 to 100% LEL	4% LEL	30s
Carbon Dioxide	0 to 100%	0.1% @ 10%	20s
		3.0% @ 50%	
		3% @ 100%	
Oxygen	0 to 25%	0.5%	20s
Atmospheric Pressure	800 to 1200 mbar	5 mbar, 1 mbar resolution	20s
Static Pressure	-200mbar - +200mbar	1 mbar resolution	
Standard Accessories			
Battery Charger, Carry Case, Sample Pipe, Manual, Calibration Certificate			
Optional Gas Channels (Maximum of 4)			
H2S	1500 ppm	5% of fs	30s
CO	1000ppm	5% of fs	30s
NO2	20 ppm	5% of fs	30s
SO2	100 ppm	5% of fs	30s
H2	1000 ppm	5% of fs	30s
HCN	100 ppm	5% of fs	30s
NH3	1000 ppm	5% of fs	30s
NO	100 ppm	5% of fs	30s
Other Optional Channels			
Temperature (with external probe)	-10 to 100c	0.5c	0.1c
GFM430			
Flow Range	+30 to -30 litres per hour		
Flow Resolution	0.1 litres per hour		
Differential Pressure	+1000/-1000 Pa		
Gas Velocity (with optional vane anemometer)	0-40 m/s	0.01 m/s resolution	
GFM420			
Flow Range	0.1 to 6000 m3/hr		
Flow Resolution	0.1 m3/hr		
Differential Pressure	+/- 30 mbar		
Gas Velocity (with optional vane anemometer)	0-40 m/s	0.01 m/s resolution	

ACCESSORIES for your GFM400 Series Landfill Monitor

Part No:	Description:
GFMVANE	Vane Anemometer for measuring Gas velocity via gland in pipe work.
GFMTEMP	Brass Temperature Probe for measurement in gas flow via gland in pipe work.
GFMTEMP T	T Piece Temperature Probe which fits in-line with the supplied tubing for sample temperature measurement from the borehole
GFMTEMP P	Aluminium Temperature & Gas Sampling Probe 1M Long For applications such as Compost testing. The end of the probe is sealed with a removable screw for cleaning - the air is sampled via a series of perforations in the side of the probe to prevent blockages.

