

Gas Data GFM426

A new and simple to use portable wellhead gas analyser, pressure and flow monitor with built in data logger for landfill gas extraction system.

The Gas Data GFM426 combines the functions of three instruments in one hand held instrument.

1. Gas Analysis

The GFM426 is connected by the user to the wellhead using a flexible sample tube and the internal pump draws a sample of the landfill gas into the gas analysis and pressure measurement modules. The relative amounts of each component (CH₄, CO₂, O₂, H₂S and CO) of the landfill gas are quickly displayed on the LCD screen. The balance gas is calculated by subtracting the sum of the individual components from 100% and is also then displayed.

2. Pressure and Flow

A second sample tube is also connected by the user. This tube will usually be connected to the second port of either an orifice plate or pitot tube built into the body of the wellhead. Inside the GFM426 it is routed to the pressure measurement module. The signals from this module are used to display the atmospheric pressure, the static pressure, the differential pressure (across the orifice plate or pitot tube) and the gas flow rate at the wellhead.

3. Data Logger

All measured values and manually entered comments can be stored for later viewing and/or download to a PC. When stored, the values are time stamped and labeled. The label has a three tier format and can be up to 24 alphanumeric characters long. The data is held in a non-volatile battery-independent FLASH memory with a capacity of over 3000 complete data sets.

Using Gas Data's SiteMan5 program data and labels can be easily transferred to and from a PC via the supplied USB connection cable. Data storage can be triggered manually or the internal real time clock can be programmed to take and store readings automatically while the instrument is left unattended.

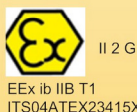
GFM426 Series Features

- CH₄, CO₂, O₂, H₂S and CO gas analysis
- Atmospheric, static and differential pressure measurement
- Wellhead gas flow rate
- Data logging to pre-loaded well head ID's
- Over 3000 reading data storage capacity
- USB Download
- SiteMan5.xx PC program
- Intrinsically safe – ATEX
- MCERTS accredited
- Manual data storage and programmable unattended data logging functions
- 3 tier hierarchical 24 character alphanumeric labels for the naming of stored reading sets
- Small portable design which is easy to carry and hold in the hand with an 8hr battery life and 4hr charge time maximum
- Supplied in a 'ready to go' site kit
- 12 month recalibration interval
- Comprehensive service agreements available



Technical Specification Table

General		
Ex rating to	EEx ib IIB T1	
Ambient Temperature Range	-10 deg C to 40 Deg C	
Aspiration Rate	300 ml/min minimum	
Protection Rating	IP65	
Dimensions	200mm x 100mm x 60mm (Approx)	
Standard Channels		
	Range (resolution)	Typical Accuracy
Gas Measurements		
Methane	0 to 100% (0.1)	0.3% @ 5% 3.0% @ 60% 3.0% @ 100%
Carbon Dioxide	0 to 100% (0.1)	0.3% @ 5% 3.0% @ 40% 3.0% @ 100%
Oxygen	0 to 25%	0.2%
Hydrogen Sulphide	5,000ppm (10.0)	20ppm
Carbon Monoxide	2,000ppm (1.0)	20ppm
LEL	0 to 100% LEL (0.1)	4% LEL
Balance	0 to 100% (0.1)	-
Pressure Measurements		
Atmospheric	800 to 1200mbar (1)	2mbar
Static	-200mbar to 200mbar (1)	0.5mbar
Differential	-30mbar to +30mbar (0.1)	0.2mbar
Flow Measurements		
	0-1000m ³ /hr (0.1)	5% of reading
Velocity		
	0-40m/s (0.1)	0.5m/s
Temperature		
	-10-100 C (0.1)	0.2 C



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Products available from Gas Data



GFM100 Series
Single and multiple gas analyser



GFM200
Stowaway detection



GFM426



GFM436



GFM600
Pressure and flow



Click! System
Fixed site monitoring



Combimass
Gas flow monitoring