

# Portable Monitoring

## GFM416 Biogas Analyser

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

- Methane (CH<sub>4</sub>) 0-100 % v/v
- Carbon dioxide (CO<sub>2</sub>) 0-100 % v/v
- Oxygen (O<sub>2</sub>) 0-25 %v/v
- Hydrogen sulphide (H<sub>2</sub>S) 0-5000 ppm v/v
- Optional ammonia. (NH<sub>3</sub>) 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 Temperature reading
- Optional data storage and download



## Gas flow measurement

Like the **Click! system**, the **GFM416** can be 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 DATA**  
Gas Analysis and Control

### Other products available from Gas Data



**GFM100 Series** - Single and multiple channel analyser



**GFM200**  
Stowaway detection



**GFM416**  
Biogas analyser



**GFM435**  
Ultimate landfill analyser



**GFM600**  
Pressure and flow



**Click! System**  
Fixed site monitoring



**Combimass**  
Gas flow Monitoring