

Gas Data Biogas Monitoring

Fixed Site Analysis

Click! System

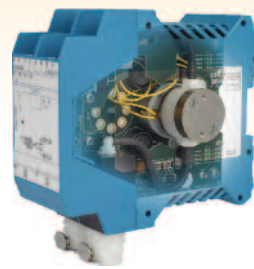
The fixed site **Click! system** is a simple but highly effective modular on-line biogas analyser. Designed for easy self-maintenance and expansion, **Click! systems** give users greater flexibility over traditional on-line gas monitoring systems. A typical **Click! system** installation contains all the necessary components such as gas analysers, pumps, filters and switching valves. Designed for reliability, minimal service visits and long service life, the **Click! system's** basic operational maintenance can be conveniently carried out by any competent technician.

Features:

- CH₄ (Methane), CO₂ (Carbon Dioxide), O₂ (Oxygen), CO (Carbon Monoxide), H₂S (Hydrogen Sulphide), NH₃ (Ammonia), plus many more and are available in several ranges
- Continuous and timed sampling available
- Pressure and flow measurements
- Temperature measurement
- Flow measurements using **Combimass** thermal mass flow device
- Interface to orifice plates and pitot tubes
- 4-20mA and digital input/output
- Remote Telemetry using GSM/GPRS, MODBUS, PROFIBUS etc.

Data logging

All data from the **Click! system** can be remotely downloaded using mobile phone technology and published to a secure area of www.gasdata.net, allowing customers to generate reports and view all data online. This remote communication also allows users to enter gas alarm trigger levels and generate email and text alerts. The facility also allows Gas Data to access advanced diagnostic tools and carry out software updates as required.



Flow monitoring

Available with our optional **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. Data from the **Combimass** can be viewed onsite or can be reported back through the remote monitoring network and published to www.gasdata.net.

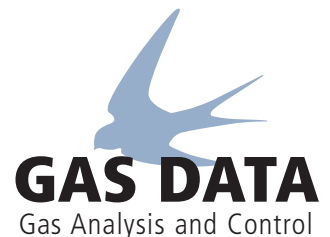
The **Click! system** is complemented by the **GFM416** portable biogas analyser. Please turn overleaf for further detail.



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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

Portable Monitoring

GFM416 Biogas Analyser

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 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

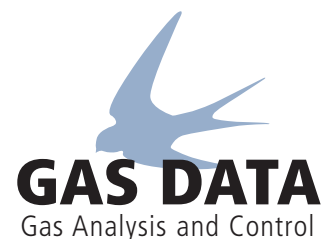
- Biogas production optimisation
- Biogas desulphurisation control
- Anaerobic Digester (AD) control



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