

# An **overview** of Bioprocess Control's product portfolio



**bioprocess**  
CONTROL

[www.bioprocesscontrol.com](http://www.bioprocesscontrol.com)

# A biogas laboratory technology leader

Bioprocess Control has developed a portfolio of efficient biogas laboratory technologies designed for a range of environments, from onsite testing to the most demanding biogas labs. These technologies cover the areas of substrate analysis, process simulation, low gas flow measurement, integrated data logging and control solutions, as well as provide customers with a wide variety of reactor configurations.

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5  
products

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## AMPTS II

**Determine the true methane potential**

The Automatic Methane Potential Test System (AMPTS) II allows users to determine the true biochemical methane potential and dynamic degradation profile of any biomass substrate. This in turn will allow users to more easily determine the optimal retention time and mix of substrates for co-digesting, screen proper pre-treatment methods, and evaluate the need for additives.



*Network ready and with remote access*

## Biogas Endeavour

**Determine a substrates true energy content**

The Biogas Endeavour allows users to determine the biogas potential and dynamic degradation profile of any biomass substrate. This in turn will allow users to select and price a substrate according to its true energy content of biomass, thus helping to ensure a good control of substrate economy for biogas plants.



*Network ready and with remote access*

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A cloud based  
simulation  
platform

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## BioReactor Simulator

### Simulate continuous processes

The BioReactor Simulator is a universal platform for simulating at laboratory scale anaerobic fermentation processes in a continuous mode of operation. The system is controlled by a web-based software running on an efficient cloud computing solution accessible from any computer or mobile device with an internet connection.



*Easy adaptation to various  
reactor configurations*

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Secure and  
reliable data  
logging and  
storage

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## µFlow

### Ultra low gas flow measurements

The µFlow is a compact and elegant instrument for measuring ultra-low gas flows with high precision. It has been designed for the on-line, real-time monitoring of all inert and slightly aggressive gases, over a wide detection range and for most indoor laboratory scale applications. Suitable applications include biogas process studies, ethanol fermentation, dark fermentation for bio-hydrogen, and leak rate detection.



*Automatic data logging  
device is available*

## Bioreactors

### A series of CSTR bioreactors

Bioprocess Control has developed a series of continuous stirred tank reactors (CSTR) specifically designed for scientists and process engineers to simulate full-scale fermentation processes in laboratory- or small pilot-scale. Today, the company offers two size options (five and ten liters) and 3 different configurations. The CSTR bioreactors are well engineered to meet the needs of the most demanding biogas labs.



*Flexible and modular design  
for wide applications*

# Bioprocess Control

## – **optimising** the production of **biogas**

Bioprocess Control is a technology and market leader in the area of advanced instrumentation and control technologies for research and commercial applications in the biogas industry.

The company was founded in 2006, and brings to market more than 15 years of industry leading research in the area of instrumentation, control and automation of anaerobic digestion processes. Today Bioprocess Control has product exports to more than 35 countries.

Bioprocess Control has a broad product portfolio covering biochemical methane potential (BMP) tests, substrate analysis, process simulation, gas flow measurements as well as a series of bioreactors. AMPTS – the Automatic Methane Potential Test System has quickly become the preferred analytical instrument around the world. It is used by both academic and industrial actors in the biogas industry.

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