

Biomethane gas bmp

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Filer, Jameson, Huihuang H. Ding, and Sheng Chang. 2019. "Biochemical Methane Potential (BMP) Assay Method for Anaerobic Digestion Research" *Water* 11, no. 5: 921. <https://doi/10.3390/w11050921>

Filer, J., Ding, H. H., & Chang, S. (2019). Biochemical Methane Potential (BMP) Assay Method for Anaerobic Digestion Research. *Water*, 11(5), 921. <https://doi/10.3390/w11050921>

The Automatic Methane Potential Test System (AMPTS(R)) is the market-leading analytical tool for anaerobic batch fermentation testing. Now on its third generation, AMPTS III is automated and fully integrated for easy access to sampling, analysis, recording and report generation. AMPTS III houses 18 glass reactors for tests in its standard form, or you can choose the slimmed down AMPTS III Light, which houses 9 glass reactors.

AMPTS allows you to determine the true biogas and methane potential as well as dynamic degradation profile of any biomass substrate. That means you can more easily determine the optimal retention time and mix of substrates for co-digesting, screen proper pre-treatment methods, evaluate the need for additives, and even assess the biological performance of an individual biogas digester or process configuration.

AMPTS significantly reduces labour demands and risk of human errors when compared to traditional methods or competitive solutions on the market. After a few hours of experiment preparation and setup, the run process is fully automated by AMPTS until the test is over. Experimental data can be easily reviewed in real-time or from a downloaded report at any time, making testing easier than ever before.

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AMPTS features inbuilt storage and processing from an onboard embedded microcontroller, which allows the tool to store all gas volume and flow measurements locally. This eliminates the need for an external computer, so you no longer need to worry about losing data due to a computer crash or automatic operational system upgrade that could cost you weeks of research and development work. The large storage capacity of 15 million data points allows for collection of up to 130 000 liters of gas per experiment.

AMPTS is designed and manufactured in Sweden, adding the best elements of Scandinavian form and function to quality and reliability. AMPTS ensures no data is lost, even if the entire system goes down. The modular design makes the maintenance of AMPTS easy because many parts can be exchanged without sending the instrument to a workshop.

Driven by high-quality brushless step motors, the agitation system included with AMPTS effectively delivers gentle, precise, and reliable agitation in a gas tight environment. Its ability to work well even in the harsh environment of anaerobic fermentation is why so many satisfied customers around the world rely on AMPTS as their preferred device for anaerobic bath fermentation testing.

With its gas tight enclosed measurement chambers, the new AMPTS III is able to measure total biogas with minimal losses of carbon dioxide. In addition, by connecting two measurement chambers in a series before and after removing carbon dioxide, it is possible to estimate the gas composition in real time.

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Web: <https://www.somethingtasty.co.za/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

