

# Multitec<sup>®</sup> BioControl Combined Measuring Device – stationary and mobile

OPTIMIZE YOUR PLANT!



## **Multitec® BioControl**

#### **Higher Quality and Higher Quantity of Gas**

In order to improve the efficiency of a biogas plant and to ensure the safety of the system, it is essential to monitor the gas composition and regularly check the entire plant for leaks and structural defects. This also helps to reduce emissions of climate-relevant gases such as methane and carbon dioxide to a minimum. With the **Multitec**<sup>®</sup> **BioControl**, SEWERIN offers a measuring device combination that consists of a permanently installed base station **BioControl 2**, **4** or **8** and the portable gas measuring device **Multitec**<sup>®</sup> **545** or **540**, thus offering the user the greatest possible flexibility, safety and ease of service.



#### The Benefits of the Base Station BioControl 2/4/8



- Flexible configuration to individual requirements: measurement locations/cycles, saving intervals, limits, alarm thresholds
- Data communication
   with superordinate control and remote operation
   based on several interfaces
- Reliable measurement results due to permanent self-tests under normal operation and automatic calibration with test gas
- User friendly operating concept with menu navigation
- Autonomous and regular storage of all measurement data and settings on USB stick
- Remote maintenance and diagnostic via internet possible
- 7" high-resolution color touchscreen

### The Benefits of the Portable Gas Measuring Device Multitec® 545/540



- Leaks can easily be detected
- Certified explosion protection: TÜV 07 ATEX 553353 X (Ex) d e ib IIB T4 Gb, II C when devices are used with carrying bag TG8; allows analysis of (raw) biogas produced in all areas of the plant
- Easy-to-service design, minimal downtime, highly cost-effective: quick and easy maintenance thanks to durable built-in sensors, mobile devices easy to send by post (maintenance by SEWERIN Maintenance Service available even through local utility companies)
- Extremely user-friendly thanks to jog dial, intuitive menu navigation and large function keys
- Selective infrared sensors for distortion-free measurement of the concentrations of hydrocarbon  $C_xH_v$  and carbon dioxide  $CO_2$
- Durable electrochemical sensors for measuring the concentrations of oxygen O<sub>2</sub>, carbon monoxide CO or hydrogen H<sub>2</sub> and hydrogen sulphide H<sub>2</sub>S (*Multitec*<sup>®</sup> 540: 2000 ppm; *Multitec*<sup>®</sup> 545: 5000 ppm)



"It is important to me that the system runs safely. This includes as little downtimes as possible and quickly identifying potential problems, such as increased sulfur levels, in order to prevent possible damages. The **Multitec® BioControl** system is a great support. It also helps me to optimize the plant. For example, I know exactly when I need to change the activated carbon. This saves costs. And thanks to **Multitec® BioControl**, I can always provide information to my service provider and the authorities. That creates trust."

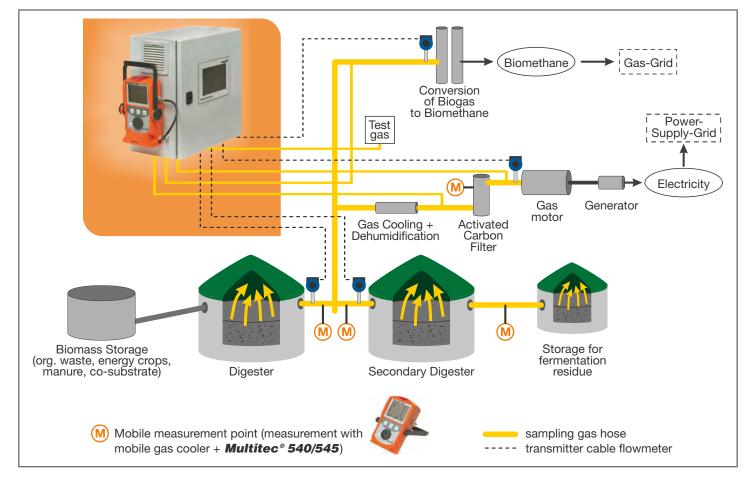
Wolfram Wiggert, Löffingen, Germany

#### Key data:

Biogas plant with one CHP 1563 kW, and two CHPs with 549 kW each, 200 m<sup>3</sup> buffer storage, digestate storage 6,700 m<sup>3</sup> with gas storage 5000 m<sup>3</sup>, total installed electrical output: 2.6 MW



#### **System Drawing**



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