

OPTIMIZE YOUR PLANT!



Multitec[®] BioControl | Combined Measuring Device – stationary and mobile



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® 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® 545 or 540**, thus offering the user the greatest possible flexibility, safety and ease of service.



Improve Quantity – Stationary

- Flow rate
- Gas temperature
- Gas volume



Improve Quality – Mobile

- Gas composition measurement values



- + Save time
- + Save costs
- + Be safe
- + Be flexible
- + Measure H₂

Combined Measuring Device – stationary and mobile

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_y and carbon dioxide CO_2
- **Durable electrochemical sensors** for measuring the concentrations of oxygen O_2 , carbon monoxide CO or hydrogen H_2 and hydrogen sulphide H_2S (**Multitec® 540**: 2000 ppm; **Multitec® 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 m³ buffer storage, digestate storage 6,700 m³ with gas storage 5000 m³, total installed electrical output: 2.6 MW



System Drawing

