EURO INDEX

SEWERIN
Protecting Water, Gas and Life.

Monitor and optimise your biogas plant

Check gas composition and optimise production quantity

mobile & stationary



Improve quality and reliability with the Multitec® BioControl device combination

The base station
BioControl 2/4/8



Measurement automation – stationary

- \+ up to 8 measuring locations
- \+ simple documentation
- \+ easy integration into your plant

The mobile
Multitec® 545/540



Increase in methane content

- \+ continuous monitoring of gas composition
- \+ measure up to 5 gases

Save time and money

Optimise your substrate usage
Calculate plant efficiency at any time. This makes it easier to adapt the substrate.

Maintain the insurance coverage
Document gas parameters more reliably thanks to automation.

The BioControl 2 | 4 | 8 stationary base station offers even more



Optimizing processes and increasing safety at biogas plants:

- Automated monitoring at several measuring locations, e.g. at the fermenter, during gas purification and preparation
- Perfect for your requirements: flexible configuration of measurement locations, measuring cycles, storage intervals and limits
- Merges mobile and stationary measured values
- Flowmeter for determining the exact volume of biogas produced in standard cubic metres (Nm3) – the essential base value for calculating motor efficiency
- Seamless documentation as all measurement values are saved independently on a regular basis
- Automatic sensor calibration using test gas
- Modbus TCP is standard equipment so there are no additional costs for fieldbus communication with TCP/ IP protocol
- Optional fieldbus communication module:
  Profi Bus (serial) and Profi Net (Industrial Ethernet System for higher speeds and more flexibility)
- In addition, BioControl 4 and BioControl 8 also permanently monitor the flow volume, gas temperature and gas volume

Even more advantages of the Multitec® 545 | 540 mobile measuring device



Scan for detailed product information:

- Effectively monitor and analyse gas mixtures
- Measure methane and carbon dioxide precisely, without cross-interference from other gases
- There is also the option to measure the following gases:
  Oxygen, carbon monoxide, hydrogen and hydrogen sulphide (Multitec® 540: up to 2000 ppm; Multitec® 545: up to 5000 ppm)
- With explosion protection:
  TÜV 07 ATEX 553353 X:
  Ⓔx II 2G Ex db eb ib IIB T4 Gb, for: CH_4, C_3H_8, C_4H_{10}, C_9H_{20}, H_2S, CO (basic device without leather bag)
  Ⓔx II 2G Ex db eb ib IIC T4 Gb, for: CH_4, C_3H_8, C_4H_{10}, C_9H_{20}, H_2S, CO, H_2 (basic device with leather bag)
- Ready to measure shortly after switching on Easy to adjust using test gas
- Can be leased within Germany; regular device exchange every 6 months with no additional costs; only with purchase of base station (BioControl)
- Monitoring the film interspace according to the technical rules for plant safety (TRAS 120)



Measurement as per TRAS 120



Mobile measurement even at remote measuring points



Check values from a distance

„For me, it's important that the plant runs reliably. That means as little downtime as possible and that I am able to detect potential undesirable developments, such as increased sulphur levels, quickly in order to prevent damage.

The Multitec® BioControl system is a great help in this regard. It also helps me optimise the plant. For example, I know exactly when I need to change the activated carbon. That saves money. And thanks to Multitec® BioControl I am always ready with information for my service providers and the authorities. That builds trust. “

Wolfram Wiggert, Haslachhof, Löffingen



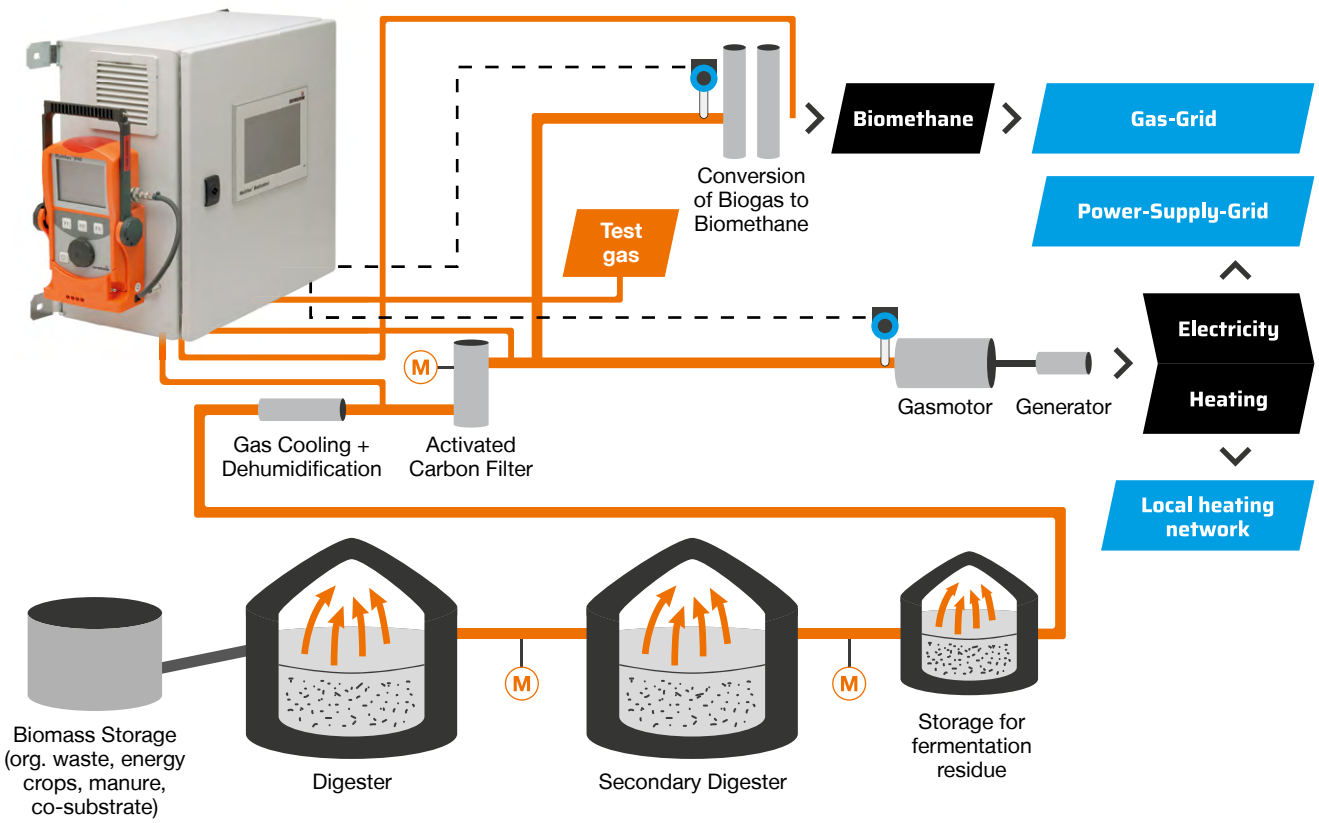
Key data for the Wiggert family's biogas plant at Haslachhof in Löffingen:

one cogeneration plant (CHP) with 1563 kW and two CHPs, each with 549 kW, 200 m³ buffer, fermentation residue storage with a volume of 6700 m³ and a gas storage tank of 5000 m³; the total installed electric output is 2.6 MW.

One solution, many possibilities

With the BioControl device combination you can record gas composition and volumes flexibly at any time. Do you only want to measure raw gas and pure gas at the filter to protect your system's motor and to document gas quality? Or would you also like automated measurements at the secondary fermenter and repository in order to increase process efficiency? Both are possible.

Do you run an external, gas-tight, covered fermentation residue storage? No problem! Simply remove the mobile Multitec from the base station and use it to measure the parameters on the external fermentation residue storage and save the values. As soon as you put the Multitec® back into the holder on the base station and connect, BioControl adds the values to the documentation.



M Mobile measurement point (measurement with mobile gas cooler + Multitec® 540/545)



sampling gas hose

Mass flow and temperature meter

transmitter cable flowmeter

Choose your device

BioControl 2

Monitors and analyses gas composition

+ 2 measuring locations



BioControl 4

Monitors and analyses gas composition

+ 4 measuring locations
+ Up to 4 flowmeter outputs for analogue signals



BioControl 8

Monitors and analyses gas composition

+ 8 measuring locations
+ Up to 8 flowmeter outputs for analogue signals

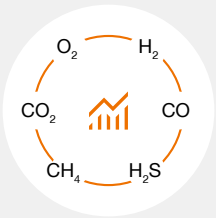


Multitec® 545

Mobile measurement of gas concentrations

+ Explosion protection
+ H_2S measuring range up to 5000 ppm CH_4, CO_2 and H_2S as standard



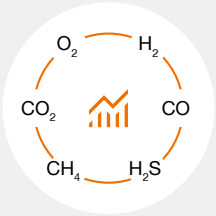


Multitec® 540

Mobile measurement of gas concentrations

+ Explosion protection
+ H_2S measuring range up to 2000 ppm CH_4 and CO_2 as standard





The icons below refer to the applications of the respective device.

Detecting Warning Measuring

Solutions for leak detection in your biogas plant

Detect gas leaks from a distance of up to 200 m

Measuring at inaccessible locations.

SR-LD 800 | 200





Scan for detailed product information:

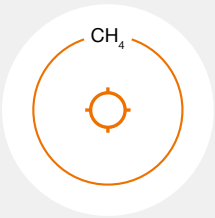
- High degree of sensitivity thanks to measurement laser resolution of 2.5 ppm*m
- Also useful for small leaks at short distances
- Aim using the red dot sight – high accuracy even at great distances and in poor lighting conditions
- Detects methane even through window panes; for this reason the SR-LD is also suitable for on-call emergency services
- No cross-sensitivities to other gases thanks to the TDLAS method (Tunable Diode Laser Absorption Spectroscopy)
- Automatic, quick adjustment in the case; within 3 minutes
- Lightweight, easy to handle and user-friendly: 954/623 g (SR-LD 800/200)
- Takes only 2.5 hours to charge
- Replacement battery and fast charger included

Choose your device

SR-LD 800
Gas detection

+ Range: up to 200 m
+ Measurement laser resolution: 2.5 ppm*m (Sensitivity mode), 5 ppm*m (Distance mode)

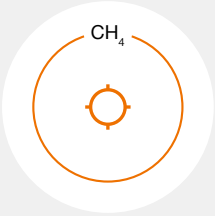




SR-LD 200
Gas detection

+ Range: up to 120 m
+ Measurement laser resolution: 5 ppm*m





Your daily companion for working on your biogas plant

Detect, warn and measure.

EX-TEC® PM 580





Scan for detailed product information:

- Simultaneously measure explosive gases and detect leaks
  Approval for operator protection
- Locate gas leaks quickly and accurately
- Intuitive menu navigation and easy to read display
- Can be operated while wearing gloves
- Shock-resistant and designed for harsh conditions
- Explosion protection:
  TÜV 17 ATEX 171969 X, IECEx TUN 17.0027 X
  Ex II 2G Ex db eb ib IIC T4 Gb
  BVS 19 ATEX G 002 X, PFG 19 G 004 X

It is easy to find gas leaks with this compact gas detector

Detect easily and quickly.

SNOOPER mini



H_2



Scan for detailed product information:

- Detects gas leaks from 0 to 22,000 ppm
- Specialised models for methane, propane or hydrogen
  Replaceable sensor filter for longer life
- Quick commissioning for immediate leak detection
- High performance at an affordable price

Together we are protecting both people and vital resources.

It is not always easy to stay current. The services we provide ensure that your devices are always ready to use, your networks are safe and your team is always up to speed. Whether you are interested in inspection services, training or custom vehicle solutions – we are here to support you with our expertise and experience.



Pipeline inspection

Unable or unwilling to carry out pipeline inspections on your own? No matter if your top priority is safety or you simply want to meet your reporting obligation arising from the EU Methane Regulation – our highly trained and experienced specialists will gladly support you. In addition to traditional pipe network inspection our service also includes precise pipeline location, particularly when it comes to plastic pipes using the innovative SeViRO method, as well as odorant control.



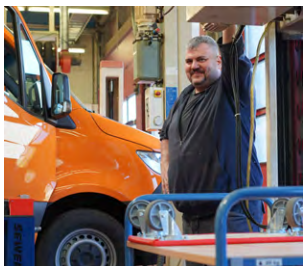
Device service

Your are protecting both human life and the environment. That is why it is so important for the technical solutions you use to always be reliable and ready for use. Our device service is here for you – we provide stationary measurements from Gütersloh, or mobile measurements at your site. We have nine service technicians that travel across the country. They will professionally service the devices and carry out minor repairs. This helps you minimise downtime.



Seminars

The European supply industry is undergoing massive changes. That is why it is all the more important for you and your staff to stay up to date. The Sewerin seminars bring together the theoretical knowledge of technology and regulations and its practical application in our training developed in house. Experienced instructors present the content to you clearly and are always up to date with the latest developments.



Vehicle upgrades

The efficiency of your work largely depends on having the right technical solutions. This holds true for devices as well as emergency and leakage service vehicles fitted out perfectly to meet your needs. Our experienced team plans and realises individual vehicle designs, perfectly tailored to your specific requirements. In so doing we pay particular attention to functionality, ergonomics and quality so that your mobile workstation is as efficient and convenient as possible.



Building services

Do you want to focus on your core business? The building services department at Sewerin Service GmbH takes over the regular inspection and maintenance of gas and water installations as well as electrical systems in various buildings for you. Our range of services covers the monitoring and technical servicing of installation plants, gas pressure regulating devices and meter replacement. Preventative maintenance measures allow us to ensure the safety and longevity of your building services systems.



Do you have questions? Call us.

Which Multitec® BioControl model is right for your challenge? Let’s talk. Our service and sales team will gladly help you choose the right device. We are also there for you during commissioning as well as afterwards.

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108976 – 08/2026
Subject to technical changes.