



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**

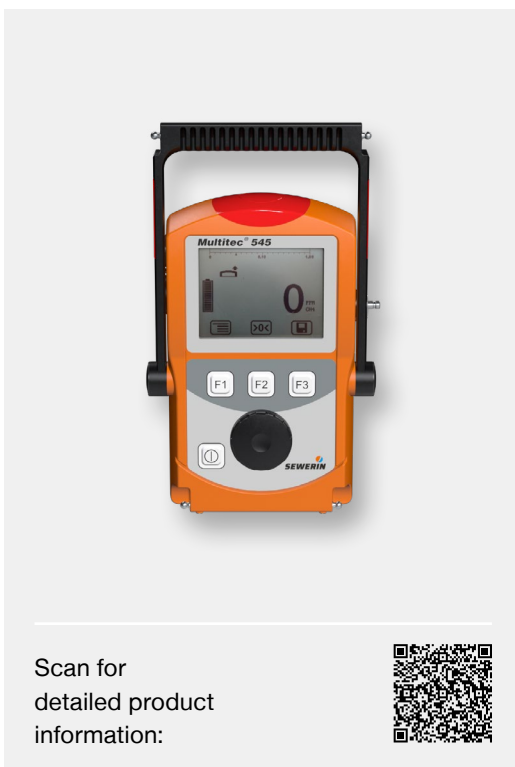
Document gas parameters more reliably thanks to automation.

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



- + 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



- + 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:
 II 2G Ex db eb ib IIB T4 Gb, for: CH₄, C₃H₈, C₄H₁₀, C₉H₂₀, H₂S, CO (basic device without leather bag)
 II 2G Ex db eb ib IIC T4 Gb, for: CH₄, C₃H₈, C₄H₁₀, C₉H₂₀, H₂S, CO, H₂ (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. “



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

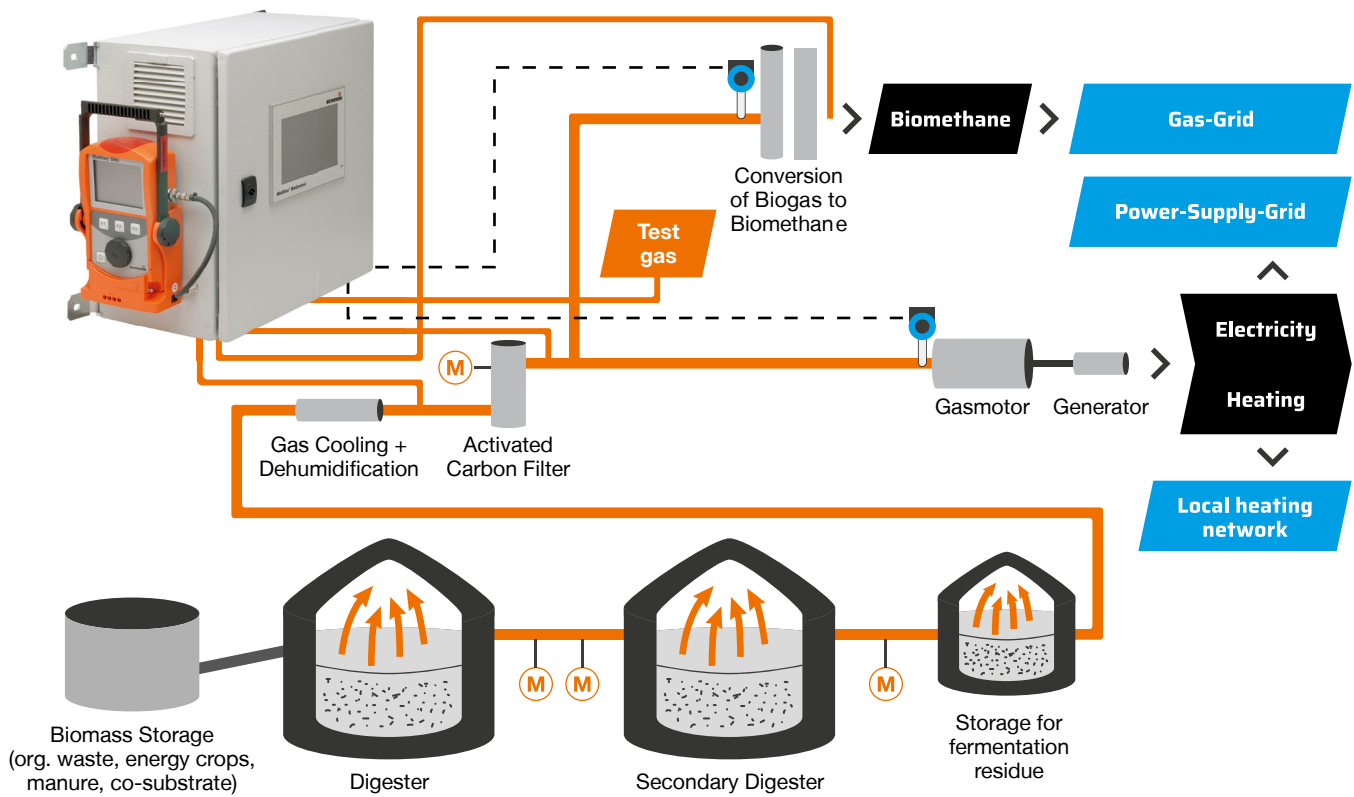
one cogeneration plant (CHP) with 1563 kW and two CHPs, each with 549 kW, 200 m³ buffer, fermentation residue storage with a volume of 6700 m³ and a gas storage tank of 5000 m³; the total installed electric output is 2.6 MW.

Wolfram Wiggert, Haslachhof, Löffingen


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**)

 Mass flow and temperature meter



 sampling gas hose

 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

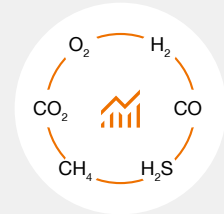
- + 8 measuring locations
- + Up to 8 flowmeter outputs for analogue signals



Multitec® 545

Mobile measurement of gas concentrations

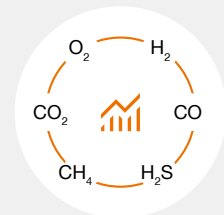
- + Explosion protection
- + H₂S measuring range up to 5000 ppm CH₄, CO₂ and H₂S as standard



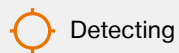
Multitec® 540

Mobile measurement of gas concentrations

- + Explosion protection
- + H₂S measuring range up to 2000 ppm CH₄ and CO₂ 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



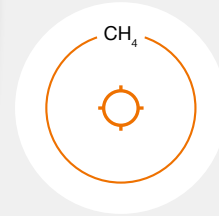
- + High degree of sensitivity thanks to measurement laser resolution of 2.5 ppm·m
- + Also useful for small leaks at short distances
- + Aim using the red dot sight – high accuracy even at great distances and in poor lighting conditions
- + Detects methane even through window panes; for this reason 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

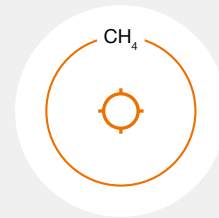
- + Range: up to 200 m
- + Measurement laser resolution: 2.5 ppm*m (Sensitivity mode), 5 ppm*m (Distance mode)



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



- + 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



Scan for detailed product information:



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

Detect easily and quickly.

SNOOPER mini



- + 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

H₂



Scan for detailed product information:



Reliable technology. Competent support.

Gas pipe network inspection with Sewerin

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. To do this, we use state-of-the-art measuring technology to detect leaks early and ensure the integrity of your supply lines. In addition to traditional pipe network inspection, our service also includes odorant control as well as precise pipeline location, particularly when it comes to plastic pipes using the innovative SeViRO method (Sewerin Vibration Pipeline Location).





***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.

Hermann Sewerin GmbH
Robert-Bosch-Straße 3
33334 Gütersloh | Germany
☎ +49 5241 934-0
✉ info@sewerin.com
sewerin.com

108976 – 09/2025
Subject to technical changes.

Services d'EURO-INDEX

EURO-INDEX est un fabricant, importateur et distributeur de diverses marques A dans le domaine des instruments de test et de mesure. Nous fournissons également une large gamme de services pour optimiser l'utilisation de ces instruments dans vos activités. Ces services comprennent naturellement l'entretien, la réparation et l'étalonnage des instruments, mais nous proposons aussi une assistance sous forme de formation via notre EURO-INDEX Academy et la location d'instruments.

Centre de Service Agréé

EURO-INDEX est un Centre de Service Agréé pour toutes les marques représentées. Cela signifie que vos instruments sont pris en charge par des techniciens formés par le fabricant et disposant des outils et logiciels adéquats. Seules des pièces d'origine sont utilisées et la garantie de votre instrument, ainsi que les certifications (ATEX, EN50379, etc.) restent intactes.

Laboratoire de maintenance et de calibrage

Le laboratoire des Pays-Bas est accrédité RvA selon la norme EN-ISO/IEC 17025. Cette accréditation est valable pour différentes grandeurs, telles que spécifiées dans le champ d'application associé au numéro d'accréditation K105. Les certificats de calibrage RvA sont acceptés à l'international et équivalents à ceux de BELAC.



Service Mobile

Outre les laboratoires d'étalonnage fixes de Zaventem et de Capelle aan den IJssel, nous disposons également d'un laboratoire itinérant appelé "Service mobile". Nos services peuvent venir vers vous, en offrant une qualité équivalente.

MQS®

MQS® est une formule d'entretien exclusive comportant un entretien et un calibrage périodiques de vos instruments de mesure à un coût fixe et faible. Via un portail Web gratuit (monmq.be), vous avez toujours accès à vos certificats de calibrage.

Location d'instruments de mesure

- Vaste assortiment
- Précision démontrable par le certificat d'étalonnage actuel
- Conseils avisés
- Les instruments sont livrés avec leurs accessoires

EURO-INDEX Academy

- Formations et séminaires
- Vidéos de démonstration et d'instruction
- Notes d'application



Comptoir de service



Entretien, réparation et calibrage



Formations et séminaires



Service Mobile

Sous réserve de modifications EURO-INDEX® FR 23001



BELGIQUE

Chaussée de Louvain 607
1930 Zaventem
T: 02 - 757 92 44
F: 02 - 757 92 64
sales@euro-index.be
www.euro-index.be

PAYS-BAS

Rivium 2e straat 12
2909 LG Capelle a/d IJssel
T: +31 - (0)10 - 2 888 000
F: +31 - (0)10 - 2 888 010
verkoop@euro-index.nl
www.euro-index.nl

