



Biogas Analyzer GMC Biogas 08



Bieler+Lang 
Gas Detection Systems



Bieler + Lang

Established in 1967, Bieler + Lang is your competent partner for gas measuring and detection systems. Since 1970 Bieler + Lang is producing gas measuring and detection systems and is continuously enhancing them.

Bieler + Lang is especially characterized through its long-time experience as an industrial manufacturer for electronic devices.

Our strengths are short workflow and delivery times. We guarantee constantly high quality standards through ISO-9001-certification by TÜV Management service and ATEX-certification.

The product range of Bieler + Lang comprises gas detection systems for the surveillance of potentially explosive facilities and equipment as well as the surveillance and warning of toxic hazards.

Special advantages of Bieler + Lang gas measuring and analysis systems are robust and cost-efficient design and high reliability. Our solutions for the analysis of the process gas of biogas plants extend our product portfolio.



Biogas Analysis

Analysis of process gases in biogas plants – Biogas Analyzer GMC Biogas 08 – a Bieler + Lang product

A continuous surveillance of the produced biogas is necessary to efficiently control the production process of a biogas plant.

Using a Bieler + Lang biogas analysis equipment **the contents** of methane, residual oxygen, carbon dioxide and hydrogen sulphide are measured in individually determined measuring cycles.



Typical Applications:

- Process surveillance of the fermentation of biogas and sewage gas
- Optimization of the calorific value
- Protection of the gas motors from high hydrogen sulphide concentrations
- Differing customer specific measuring requirements upon request

GMC Biogas 08 – An Analysis System you



Biogas Analyzer GMC Biogas 08

The following reasons suggest the use of a Biogas Analyzer GMC Biogas 08 from Bieler + Lang:

- Double infrared measuring bench for CH₄ and CO₂
- H₂S-Sensor in separate sample gas channel with individually determinable sample interval
- Overload protection for the H₂S-Sensor
- Good cost/performance ratio
- Easy to use, menu-driven operation
- Modular concept, good extension capabilities
- Low maintenance effort
- Integrated data logger for 1440 sets of data including data output via RS232 interface
- Active control of pump function prior to each measurement
- Automated zero-point calibration of the sensors prior to each measurement

Additional Options:

- Sample gas cooler with automated condensate drain: dehumidification by Peltier cooling. Output temperature of Sample gas: +5 degrees Celsius
- Relay module to switch external alarms
- Field bus module
- Measuring point switch for up to four suction points.
- Connection of up to two gas detectors for area monitoring

More Advantages of Bieler + Lang

With its sales and service hubs throughout Europe and in many more regions worldwide Bieler + Lang offers a convincing performance:

- On-site consultation and risk analysis
- Project planning
- Customer specific adaption of the Biogas Analyzer GMC Biogas 08
- Customizing by our pre-assembly staff
- Cost-efficient maintenance and spare part service



Biogas Analyzer GMC Biogas 08

can rely on 100 percent!

Technical Overview:

- Analysis of biogenous processes like the production of biogas, sewage gas or landfill gas
- Designed for a regular process control at the plant for biogas analysis
- Analyzed substances: CH₄, H₂S, CO₂, O₂
- Pressure and temperature compensation of the infrared measuring bench
- **Detonation prevention according to EN 12874**
- Redundant implementation of the cabinet ventilation
- Clearly laid out and easy operation
- Data logger for 1440 sets of data
- **Output for all measurements as 4-20 mA electric signal**
- **Permanent measurement of CH₄, CO₂, and O₂ possible**
- **H₂S measuring intervall individually determinable**
- Choice of German, French or English menu navigation



**Biogas Analyzer
 GMC Biogas 08**

Measurement Ranges:

Gas	Measurement Range
CH ₄	0 - 100 Vol %
H ₂ S	0 - 5.000 ppm
O ₂	0 - 25 Vol %
CO ₂	0 - 50 Vol %

Technical Data / Cabinet Dimensions:

cabinet: coated sheet steel housing
 cabinet dimensions: 700 x 500 x 200 mm
 weight: approx. 30 kg
protection classification: IP 20

