



# 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 CH<sub>4</sub> and CO<sub>2</sub>
- H<sub>2</sub>S-Sensor in separate sample gas channel with individually determinable sample interval
- Overload protection for the H<sub>2</sub>S-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: CH<sub>4</sub>, H<sub>2</sub>S, CO<sub>2</sub>, O<sub>2</sub>
- 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 CH<sub>4</sub>, CO<sub>2</sub>, and O<sub>2</sub> possible
- H<sub>2</sub>S measuring intervall individually determinable
- Choice of German, French or English menu navigation



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**Measurement Ranges:**

Gas	Measurement Range
CH <sub>4</sub>	0 - 100 Vol %
H <sub>2</sub> S	0 - 5.000 ppm
O <sub>2</sub>	0 - 25 Vol %
CO <sub>2</sub>	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

