



# 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



**Biogas Analyzer  
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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



# 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](http://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](mailto:sales@euro-index.be)  
[www.euro-index.be](http://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](mailto:verkoop@euro-index.nl)  
[www.euro-index.nl](http://www.euro-index.nl)

