



FIXED BIOGAS AND LANDFILL GAS ANALYSER | ANAEROBIC DIGESTION



THE BIOGAS 3000 BUILDS ON FIELD-PROVEN GAS ANALYSIS TECHNOLOGY TO OFFER COST-EFFECTIVE ONLINE MONITORING.

The BIOGAS 3000 is our next generation fixed analyzer that offers optimal continuous monitoring of the gas production process, using up to four sample ports to monitor CH4, CO2, O2, H2S and H2 levels. The BIOGAS 3000 design builds on previous analyzer strengths and incorporates easy installation with on-site maintenance of all parts, resulting in zero operational downtime for servicing.



The hot swap device saves time and allows you to keep working. The Biogas 3000 works as long as you do.



Easy Installation and operation. Get up and running quickly.



ATEX and CSA certified and meeting Method 21 requirements for regulatory compliance.

800 624 2026

734.995.2547

*Does not apply to auto calibration section.

© Product designs and specifications are subject to change without notice. User is responsible for determining suitability of product.

QED Environmental Systems Inc. 2355 Bishop Circle West Dexter, MI 48130,USA

WWW.LANDTECNA.COM

FEATURES

- Up to 4 sample points to monitor the complete gas control process
- Monitor before and after desulphurization
- Continuous monitoring Option
- Full Color display
- Calibration to ISO/IEC 17025
- Built-in Liquid level monitoring with dedicated alarm and fault notifications
- IP65 Rated enclosure
- Certified for use in CSA, ATEX and IECeX Zone 2 areas
- Modbus RTU communication
- Optional Profibus and Profinet communication

TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATION

BIOGAS 3000

| GENERAL SPECIFICATION | | | | |
|--|---|-------------------------------------|--------------------------------------|---------------------------------------|
| Number of sampling points | 1-4 | | | |
| Gases to be monitored | CH_4 , CO_2 and O_2 with optional H_2S , H_2 and CO (choice of up to 5) | | | |
| Reading intervals | User definable, with a continuous ¹ CH_4 , CO_2 and O_2 option available | | | |
| Operating temperature range | 0°C to +50°C without heater,-20°C to +50°C with heater | | | |
| POWER | | | | |
| Power Supply | 110-230 VAC 50/60Hz | | | |
| Consumption | 155W max. | | | |
| Backup Memory | Lithium manganese dioxide backup battery for memory retention | | | |
| GAS RANGES | | | | |
| Gases measured | CH_4 and CO_2 | | | |
| | 0 ₂ | | | |
| | H ₂ S/H ₂ /CO | | | |
| Cell Range Typ | | Typical accuracy(range : accuracy)* | | |
| Standard gas cells | CH4 | 0-100% | 0-70% : ±0.5% (vol) | 70-100% : ±1.5% (vol) |
| | CO2 | 0-100% | 0-60% : ± 0.5% (vol) | 60-100% : ±1.5% (vol) |
| | O ₂ | 0-25% | 0-25% : ±1.0% (vol) | |
| | Cell | Range | Typical accuracy (Range : accuracy)* | |
| | | | Internal accuracy | External accuracy |
| Optional gas cell | H₂S | 0-50ppm | ±1.5% FS | ±1.5%FS |
| | H₂S | 0-200ppm | ±2.0% FS | ±1.5%FS |
| | H ₂ S | 0-500ppm | ±2.0% FS | ±2.0% FS |
| | H₂S | 0-1,000ppm | ±2.0% FS | ±2.0% FS |
| | H₂S | 0-5,000ppm | ±2.0% FS | ±100ppm or 5% of reading (if greater) |
| | H ₂ s | 0-10,000ppm | ±5.0% FS | ±200ppm or 5% of reading (if greater) |
| | СО | 0-1,000ppm | ±2.0% FS | ±3.0%FS |
| | H ₂ | 0-1,000ppm | ±2.5% FS | ±1.5%FS |
| | | | Range | Response time |
| Response time, T90** | CH4 | ≤10 seconds | H₂S (0-50ppm) | ≤30 seconds |
| | CO ₂ | ≤10 seconds | H ₂ S (0-200ppm) | ≤35 seconds |
| | O ₂ | ≤20 seconds | H₂S (0-500ppm) | ≤35 seconds |
| | | | H ₂ S (0-1,000ppm) | ≤35 seconds |
| | H ₂ | ≤90 seconds | H₂S (0-5,000ppm) | ≤40 seconds |
| | СО | ≤30 seconds | H ₂ S (0-10,000ppm) | ≤40 seconds |
| ** Times are taken from the point gas enters the BIOGAS 3000 module. Sample times will vary depending on length of sample pipe | | | | |
| Cell Lifetime | O ₂ cell is 3 years in air, all other cells 2 years in air | | | |

*Plus accuracy of calibration gas used





BENEFITS

- Sample multiple gases simultaneously
- Verify removal of H2S
- Increased data collection
- Easy-to-Read
- Optimum accuracy
- Precise notification and increased saftey
- Highly corrosion resistant
- Use in potentially explosive gas atmospheres zone 2
- Remote communication
- More flexible system intergration

TECHNICAL SPECIFICATIONS CONTINUED

APPLICATIONS

- Anaerobic Digestion
- Biogas Monitoring
- Landfill Gas Monitoring



¹ Continuous option will include a minimum 3 minute daily air purge



© Product designs and specifications are subject to change without notice. User is responsible for determining suitability of product.









© Product designs and specifications are subject to change without notice. User is responsible for determining suitability of product.



