

# Gas analyser BIOLYZER for discontinuous measurement



- For discontinuous measurement
- Ideal for biogas plants
- Monitors up to four gas components
- Compact wall mounting housing system ready for installation

**Application** For discontinuous analysis and regular process monitoring of biogenous process gases such as biogas, sewage gas and landfill gas. All important gas types such as methane, hydrogen sulphide, oxygen and carbon dioxide can be monitored.

**Description** Gas measuring system for discontinuous, selective measurement and indication of up to four different gas components (CH<sub>4</sub>, H<sub>2</sub>S, O<sub>2</sub> and CO<sub>2</sub>). CH<sub>4</sub> and CO<sub>2</sub> are detected by means of infrared technology, O<sub>2</sub> and H<sub>2</sub>S by means of electrochemical sensors. All components are integrated in a robust wall mounting housing. BIOLYZER features an LED display, status indicators for each measurement channel as well as a lit LC display. The memory has a history function, the values can be displayed. With freely adjustable alarm thresholds and binary outputs for: active, error, calibration, alarm. The gas treatment system with all important components (gas cooler with hose pump, fine filter, aerosol filter, rotameter with needle valve, anti-detonation device) is integrated in a robust, air-flushed wall mounting housing. BIOLYZER is delivered complete with wiring, hoses, calibration and ready to be mounted.

**BIOLYZER LT** is intended for simple routine checks. Version without gas cooler and load limitation for hydrogen sulphide measurements. Therefore, the standard measuring range is 0 to 1,000 ppm H<sub>2</sub>S.

## Technical specifications

### Gas types/measuring ranges

CH <sub>4</sub>	0/100 % by vol., IR double beam
CO <sub>2</sub>	0/100 % by vol., IR double beam
O <sub>2</sub>	0/25 % by vol., electrochemical
H <sub>2</sub> S	0/5,000 ppm, electrochemical

Measuring intervals can be programmed for the individual gases. Manual measurement is possible at all times.

### Gas treatment

With anti-detonation device, protective filters, 2 pumps, 2 rotameters, needle valves, gas cooler with condensate trap and hose pump.

### Display

4-digit LED: status indicators for each channel, 4-line lit LC display, memory with history function, values can be displayed.

### Communication

RS 232, analogue output for each gas type, output 4–20 mA, linearised, data memory/history

### Operating temperature range

Ambient: +5/+40 °C

### Supply voltage

AC 85–264 V  
47–63 Hz

### Dimensions

W x H x D: Approx. 300 x 400 x 165 mm

### Options

- Profibus
- Second measuring point
- Continuous measurement

DG: E	Part no.	Price €
<b>BIOLYZER</b> for CH <sub>4</sub> , H <sub>2</sub> S, O <sub>2</sub> , CO <sub>2</sub>	69643	
<b>BIOLYZER</b> for CH <sub>4</sub> , H <sub>2</sub> S, O <sub>2</sub>	69644	
<b>BIOLYZER</b> for CH <sub>4</sub> , H <sub>2</sub> S	69645	
<b>BIOLYZER LT</b> for CH <sub>4</sub> , H <sub>2</sub> S, O <sub>2</sub> , CO <sub>2</sub>	69646	
<b>BIOLYZER LT</b> for CH <sub>4</sub> , H <sub>2</sub> S, O <sub>2</sub>	69647	
<b>BIOLYZER LT</b> for CH <sub>4</sub> , H <sub>2</sub> S	69648	
Options (extra charges)		
<b>Profibus</b>	69637	
<b>Second measuring point</b>	69636	
<b>Continuous measurement</b>		