

SR2-BIO - Stationary measuring device to identify biogas and landfill gas composition

Fundamental for a high efficiency of biogas installations is the optimal fermentation of organic waste. Knowledge of the biogas composition is essential for controlling the fermentation process.

SEWERIN offers the especially developed measuring device SR2-BIO for monitoring biogas installations at a highly attractive price-efficiency relation.



- stationary measuring device to identify various gas components
- for monitoring biogas plants and landfills

Features

- modular device concept; optional one or two gas sample inputs; several sensor combinations
- instruments with two gas sample inputs allow H₂S measuring before and after desulphurisation
- high durability of the electro-chemical sensors as electrical valves and the fresh air input enable sensor flushing after the measuring courses
- internal pump
- micro-processor controlled
- permanent and fully automatic measuring sequence
- simple handling
- large, illuminated LCD
- permanent self-test during operation
- all components resistant against aggressive gases
- device is dust and spray-water proof
- internal data storage
- serial port RS-232 for permanent data output (e. g. when connected to process control) or for read-out of data storage
- sensor operation independant from variations in temperature
- individual instrument configuration by function menu; protection of settings by PIN code

Sensors

	Meas. range	Accuracy	Durability	Type of sensor
CH₄ / CO₂	0 – 100 vol. %	± 3 % (MBE)	up to 5 years	thermal conductivity
O₂	0 – 25.0 vol. %	± 1 % vol. %	approx. 2 – 3 years	electro-chemical
H₂S	0 – 2000 ppm	± 3 % v. M.	approx. 2 years	electro-chemical
CO	0 – 500 ppm	± 5 % v. M.	approx. 2 years	electro-chemical
NH₃	0 – 100 ppm	± 4 % v. M.	approx. 1 year	electro-chemical

Technical Data

Power supply: external 24 V adapter

Pump capacity:

- negative pressure: > 150 mbar
- flow rate: > 50 l/h

Operating temperature: -10 °C – +40 °C

Humidity range: 10 – 95 % r.h.

Dimensions (W x H x D): 323 x 237 x 84 mm

Weight: approx. 2000 g

Accessories

- Power supply
- Probe hoses
- Test set and test gases

