

Gas Analyzer BioBasic

The BioBasic is a gas analyzer that was developed for the fast and reliable online-gas-measurement in biogas plants.



usage

The BioBasic analyzes the quality of the process gas and thus allows the operator an efficient process control to maximize the methane yield. In addition, the BioBasic analyzes the H_2S content in the process gas. This metric is used to initiate appropriate measures for the protection of gas engines and catalysts.

It may also be configurated to your individual needs.

advantages

- measurements of CH₄, H₂S
- CO₂, O₂ & H₂ optional
- easy control via touch panel
- error description in plain text
- flexible data transfer
- up to 5 measuring points
- long term calibration stability
- high efficiency at low service costs

fields of application

- biogas plants
- wastewater treatment
- landfill sites

Made in Germany

We are your competent partner for gas measurement applications.

Our analyzers are developed and produced exclusively in Germany.

Contact

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Gas Analyzer

BioBasic technical data

model: BioBasic

measuring inputs: internal: 1 (standard), expandable up to 5

measuring technology: IR: NDIR one beam principle, cuvette heated up to 80 °C /

176 °F,

EC: electrochemical reaction process

measuring components: CH₄ (IR) and H₂S (EC)

optional: CO₂ (IR), O₂ and H₂ (EC)

measuring range: $CH_4 = 0-100 \text{ vol-}\% / 0-1,000,000 \text{ ppm}$

 $H_2S = 0-2,000 \text{ ppm}$

Optional: $H_2S = 0-10,000 \text{ ppm}$

 $CO_2 = 0-65/-100 \text{ vol-}\% / 0-650,000 / 1,000,000 \text{ ppm}$

 $O_2 = 0-25 \text{ vol-}\% / 0-250,000 \text{ ppm}$

 $H_2 = 0-2,000 \text{ ppm}$

measurement precision: ca. 3 % from measured value as well as < 1 % from upper

range value / long-term drift % < 3 % / year (IR)

measurement interval: 15-999 min.

pressure compatibility: compensated, standard 0.7–1.1 bar / 10.15–15.95 psi

gas flow: ca. 4.0 l/min / 140.78 oz/min

internal gas lane: tube PTFE

connections: 8 mm off-site / 6 mm in-site /

0.31 inch off-site / 0.24 inch in-site

gas processing: condensate trap incl. level guard, automatic drain,

detonation protection (ATEX)

climatic requirements: ambient temp. 5 °-45 °C / 41 °-113°F /

relative humidity ~ 90 %, dew free

supply voltage: 230 V AC / 50 Hz, 0.9 A / 207 VA

case: wall cabinet IP 54:

400 x 400 x 220 mm / 15.75 x 15.75 x 8.66 inch

weight: 20 kg / 45 lbs

display: in vol.-%, ppm via touch panel 128 x 64 pixel, black/white

operation: touch panel, resistive

electronic inputs: 4 digital inputs 24 V AC / DC

electronic outputs: 2 digital (ready / fault), 4 digital and 4 analog

(free programmable & galvanically isolated)

interfaces: standard RS 232 and analog 4–20 mA

optional: Profibus DP, Ethernet Modbus TCP, Ethernet IP,

Profinet

basic system: wall cabinet incl. touch panel interface and controlled

housing fan, one measuring point included, flame barriers, fresh air purge, internal CH_4 monitoring, internal gas

pump, condensate trap incl. level guard, automatic condensate drain, machine interface, RS 232, analog

output 4-20 mA