

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 H₂S 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 configured 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

Fresenius Umwelttechnik GmbH
Doncaster-Platz 5
45699 Herten

Tel.: +49 (0) 2366 / 93 96 1 -10

Fax: +49 (0) 2366 / 93 96 1 -16

Mail: info@fresenius-ut.com

Web: www.fresenius-ut.com

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:	CH ₄ (IR) and H ₂ S (EC) optional: CO ₂ (IR), O ₂ and H ₂ (EC)
measuring range:	CH ₄ = 0–100 vol-% / 0–1,000,000 ppm H ₂ S = 0–2,000 ppm (till 10,000 ppm overload) CO ₂ = 0–65/–100 vol-% / 0–650,000 / 1,000,000 ppm O ₂ = 0–25 vol-% / 0–250,000 ppm H ₂ = 0–2,000 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:	PTFE
tube 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