

Gas Analyzer BioBasic

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



use

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 and H₂S
- CO₂ & O₂ 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.

Authorized Distributor

GasDetectorsUSA.com
Houston, Texas USA
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832-615-3588

Gas Analyzer

BioBasic

technical data

model:	BioBasic
display:	in Vol.-%, ppm via touch panel 128 x 64 pixel, black/white
operation:	touch panel, resistive
measurement output:	after 20 seconds
measurement interval:	15 - 999 min.
measurement precision:	ca. 3 % from measured value as well as < 1 % from upper range value / long-term drift % < 3 % / year (IR)
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 optional: Profibus DP, Ethernet Modbus TCP, Ethernet IP, Profinet
gas flow:	ca. 4.0 l/min / 140.78 oz/min
pressure compatibility:	compensated, standard 0.7 - 1.1 bar / 10.15 - 15.95 psi
supply voltage:	230 V AC / 50 Hz, 0.9 A / 207 VA
climatic requirements:	ambient temp. 5° - 45°C / 41° - 113°F / relative humidity ~ 90 %, dew free
case:	wall cabinet IP 54: 400 x 400 x 220 mm / 15.75 x 15.75 x 8.66 inch
tube connections:	8 mm off-site / 6 mm in-site (0.35" off-site/ 0.27" in-site)
gas processing:	condensate trap incl. level guard, automatic drain, detonation protection (ATEX)
measuring inputs:	1 (standard)
measuring components:	CH ₄ (IR) and H ₂ S (EC) (basic unit)
range:	CH ₄ = 0-1.000.000 ppm H ₂ S = 0-2.000 ppm CO ₂ = 0-650.000 / -1.000.000 ppm O ₂ = 0-250.000 ppm
cuvette:	heated to 60°C / 140°F
basic system:	to measure CH ₄ and H ₂ S, consisting of: 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
options:	upgrades and accessories: measurement enhancement up to CO ₂ , H ₂ and/or O ₂ , up to a total of 5 measuring points, different types of sampling points