

## 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 H<sub>2</sub>S 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 CH<sub>4</sub> and H<sub>2</sub>S
- CO<sub>2</sub> & O<sub>2</sub> 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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## BioBasic

### technical data

model:	BioBasic
display:	in Vol.-%, ppm via touch panel 128 x 64 pixel, white/blue
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:	RS 232 (standard), optional: Profibus DP, Device Net, Industrial Ethernet, 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
housing:	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 <sub>4</sub> (IR) and H <sub>2</sub> S (EC) (basic unit)
range:	CH <sub>4</sub> = 0-100 Vol % / H <sub>2</sub> S = 0-2000 ppm / CO <sub>2</sub> = 0-65 / -100 Vol % / O <sub>2</sub> = 0-30 Vol %
cuvette:	heated to 60°C / 140°F
basic system:	to measure CH <sub>4</sub> and H <sub>2</sub> S, consisting of: wall cabinet incl. touch panel interface and controlled housing fan, one measuring point included, flame barriers, fresh air purge, internal CH <sub>4</sub> 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 <sub>2</sub> , H <sub>2</sub> and/or O <sub>2</sub> , up to a total of 5 measuring points, different types of sampling points