

Gas Analyzer Smart BioBasic

The Smart BioBasic is a full-fledged gas analyzer that was developed special for the favorable and reliable online measurement in biogas plants.



usage

The Smart 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 smart BioBasic analyzes the H₂S content in the process gas. This metric is used to initiate appropriate measures for the protection of gas engines and catalyts.

advantages

- measurements of CH₄, H₂S, CO₂ & O₂
- easy control via touch panel
- error description in plain text
- flexible data transfer
- long term calibration stability
- high efficiency at low service costs
- automatic calibration via USB stick

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 Smart BioBasic

technical data

model:	smart BioBasic
measuring inputs:	1 (standard)
measuring technology:	IR: NDIR one beam principle, cuvette heated up to 60 °C / 140 °F, EC: electrochemical reaction process
measuring components:	CH ₄ and CO ₂ (IR), H ₂ S and O ₂ (EC)
measuring ranges:	CH ₄ = 0–100 vol-% / 0–1,000,000 ppm CO ₂ = 0–65 vol-% / 0–650,000 ppm H ₂ S = 0–2,000 ppm (till 10,000 ppm overload) O ₂ = 0–25 vol-% / 0–250,000 ppm
measurement precision:	max. 5 % from measured / long-term drift % < 3 % / year (IR)
measurement interval:	15-999 min.
pressure compatibility:	compensated, standard 0.8–1.1 bar
gas flow:	ca. 2.5 l/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
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:	315 x 300 x 125 mm / 12.4 x 11.8 x 4.9 inch
weight:	8 kg / 17.5 lbs
display:	in vol.-%, ppm via touch panel 128 x 64 pixel
operation:	touch panel, resistive
electronic outputs:	2 digital (ready / fault)
basic system:	wall cabinet incl. touch panel interface and controlled housing fan, one measuring point, fresh air purge, internal CH ₄ monitoring, internal gas pump, pressure compensation, one data interface at option
options:	flame barriers (ATEX-certified) condensate trap RS 232 analog 4–20 mA Profibus DP Modbus TCP Ethernet IP Profinet