

Biogas Monitor

GO-BGM

Cooling- Transport- Measurement



BIOGAS MONITOR GO-BGM

**Sample gas processing and analysis in a compact unit –
the ideal solution for many monitoring tasks.**



Typical areas of use for the biogas monitor GO-BGM are analysing fermentation gases in sewage treatment plants and landfills, emission control, safety and process control, optimisation of combustion, air quality in fruit warehouses, fermentation cellars and many more.

TÜV certified models are available for measurements in accordance with 13. BImSchV and TA Air.

The biogas monitor GO-BGM consists of a measuring gas cooling system GO-PP1 and an infrared gas detector.

In the measuring gas cooling system GO-PP, the sample gas is processed (cooled and if necessary filtered) and subsequently fed into the gas analyser. A peristaltic pump transports the condensate into a storage tank.

The infrared detector makes it possible to permanently record one to three infrared active gases, (such as CO, CO₂, NO, SO₂, CH₄) simultaneously. In addition, an electrochemical sensor can detect oxygen O₂.

In spite of its small footprint, the biogas monitor GO-BGM can be equipped with multiple options, e.g. filters and condensate sensors which can turn off the gas pump in case of water leaking in.

TYPICAL APPLICATIONS ARE

- ☐ Kläranlagen
- ☐ Firing optimization of kettles
- ☐ Monitoring the exhaust gas concentrations of combustion plants of all fuel types
- ☐ Air monitoring
- ☐ Air monitoring in fruit storage areas, greenhouses, fermenters and storage houses
- ☐ Monitoring of process management
- ☐ Sewage treatment plants

ADVANTAGES

- ☐ Compact design
- ☐ Measurement of up to four gas components simultaneously
- ☐ Maximum of three infrared-active gases
- ☐ Electrochemical oxygen measuring cell
- ☐ Customized extensions possible

PERFORMANCE PROFILE GO-BGM

GENERAL

Measurement gases	CO ₂ , CH ₄ , CO, NO, SO ₂ , O ₂
Principle	NDIR detection, electrochemical sensor for O ₂
Ready	within approx. 10 min (depending on the ambient temperature)
Gas connection	pipe fittings 6 mm AD
Housing	wall mounting, varnished steel
Dimensions	approx. H 610 x B 600 x T 420 mm
Protection	IP 54
Weight	approx. 48,5 kg
Power consumption	approx. 250 VA
Power supply	230 V, 50 Hz

NDIR DETECTOR ULTRAMAT 23

Measuring ranges	two per gas with automatic changeover
Display	80 characters (4 lines / 20 characters)
Membrane keypad	LCD with LED illumination
Analogue outputs	max. 4, voltage free, 0 / 2 / 4 ... 20 mA
Relay outputs	8
Binary inputs	3
Serial interface	RS 485
AUTOCAL	automatic calibration with ambient air, cycle time adjustable from 1 to 24 hours 230V,50Hz

SAMPLE GAS COOLING SYSTEM GO-PP1

Cooling	GO-PK1 with cyclone heat exchanger (pat. DBP 38 33 192)
Output dew point	preset to + 5 °C, optical alarm on deviation by + 3 °C
Alarm output	voltage free temperature alarm contact (changeover), max. 250 V / 30 W
Input dew point	max. 65 °C
Cooling capacity	110 kJ/h
Flow rate	approx. 50-150l/h
Ambient temperature	+5 to + 30 °C
Peltier element	function monitored with optical alarm
Condensate drainage	peristaltic pump, capacity 0,5 l/h, in storage tank 1 l



OPTIONS

- Aerosol filter
- Membrane filter
- Membrane filter with condensate sensor
- Main switch
- Mains plug for heated gas sampler and heated analysis pipe
- Temperature control for heated analysis pipe
- Mounting for heated analysis pipe

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