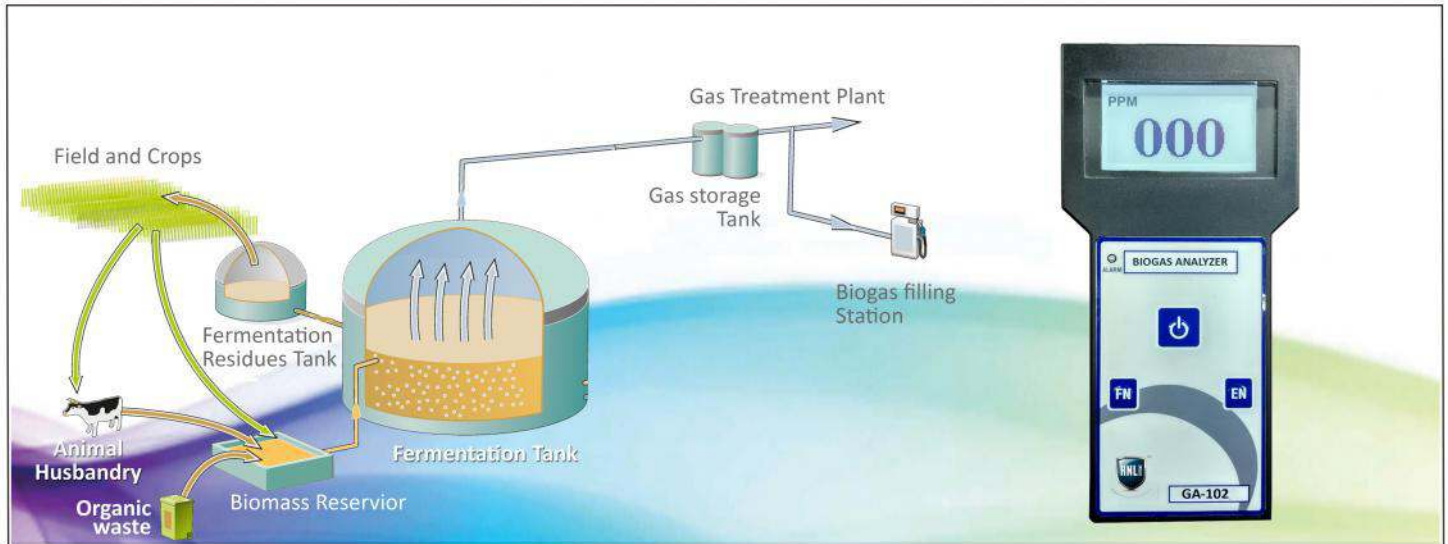


Portable / Handheld Biogas Analyzer

Model : GA - 102



Protects **Personnel, Plant
& Assets**



COMPACT RUGGED & INTELLIGENT INSTRUMENT FOR ANALYSIS OF BIOGASES

TECHNOLOGY

A continuous surveillance of the produced biogas is necessary to efficiently control the production process of a biogas plant. Methane (CH₄), residual Oxygen (O₂), Carbon-dioxide (CO₂) & Hydrogen sulphide (H₂S) in the gas stream can be measured simultaneously or singularly. Its simple automatic operation, continuous measurement and digital display of gas, make it a valuable aid for on-site instant analysis and follow up action. Its data logging and the computer interface facility is helpful for further detailed analysis in laboratory.

SPECIAL FEATURES

- Complete automatic operation
- Self diagnostic check
- Application specific proven sensor technologies
- Electrochemical sensor for O₂, not poisoned with CO₂
- Continuous, stable graphic display
- Date and time stamp
- Intrinsically safe instrument
- Long life rechargeable batteries
- Data logging and analog / digital output capability

APPLICATIONS

- Process surveillance of the fermentation of biogases.
- Optimization of the calorific value
- Protection of the gas turbines from high- hydrogen sulphide concentrations
- Quality control of biogas fed into commercial gas distribution network

HNL Systems Pvt. Ltd.

Administrative & Sales Office: 25/N, Laxmi Industrial Estate, New Link Road, Andheri (W), Mumbai – 400 053, India. Tel : +91 22 4295 2180 / 81.

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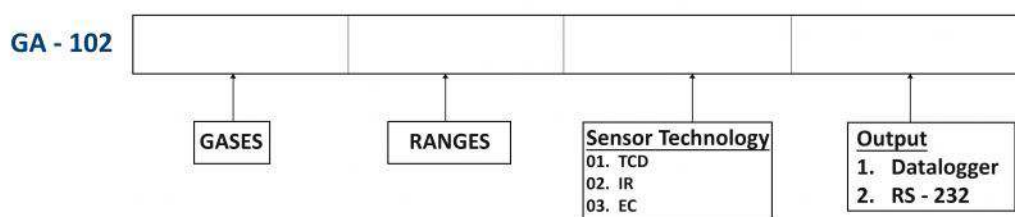
SPECIFICATIONS

Type	Portable
Detectable gases / parameters	CH ₄ , CO ₂ , H ₂ S, O ₂ , H ₂
Electronics / processor	Micro-controller
Power supply	Rechargeable battery with charger
Display	Graphic LCD
Alarm	Audio / visual (two levels - selectable range)
Output	RS - 232 digital, data logger
Technology	Suiting the gas (IR, TCD, EC)
Accuracy	± 1 %
Response time	Less than 15 sec
Ambient operating temperature	0 to 55 °C
Sampling	Inbuilt pump (suction sampling)
Housing / case enclosure	Plastic / IP 65
Included accessories	Leather carry case, Sampling probe with pump
Applications	Biogas process surveillance, gas engine monitoring, methane yield
Humidity	5% to 90% non-condensing
External dimension	225 X 106 X 40 mm approximately
Weight	750 gm (gross)
Warm-up time	10 minutes

GASES AND RANGES

Parameter	Sensor	Range	Resolution
1. CH ₄	TCD / IR	0 - 100 %	0.1 %
2. H ₂	TCD / IR	0 - 100 %	0.1 %
3. CO ₂	TCD / IR	0 - 100 %	0.1 %
4. O ₂	EC	0 - 25 %	0.1 %
5. H ₂ S	EC	0 - 1000 / 0 - 10000 PPM	1 PPM

ORDERING INFORMATION



Note : Specification and Features will vary with application. There may be changes overtime due to continuous development process.
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