

## PORTABLE GAS ANALYZER

### COMPACT RUGGED & INTELLIGENT INSTRUMENT FOR ANALYSIS OF BIO-GASES



## BIOGAS ANALYZER

MODEL NO.: GAP 2008 B

A continuous surveillance of the produced biogas is necessary to efficiently control the production process of a biogas plant. Methane (CH<sub>4</sub>), residual Oxygen (O<sub>2</sub>), Carbon dioxide (CO<sub>2</sub>) & Hydrogen sulphide (H<sub>2</sub>S) 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 O<sub>2</sub>, not poisoned with CO<sub>2</sub>
- 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 bio-gases
- 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

## SPECIFICATIONS

Type	: Portable
Detectable gases / parameters	: CH <sub>4</sub> , CO <sub>2</sub> , H <sub>2</sub> S, O <sub>2</sub> , H <sub>2</sub>
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	: ABS High Impact Plastic
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 <sub>4</sub>	TCD / IR	0 - 100 %	0.1 %
2. H <sub>2</sub>	TCD / IR	0 - 100 %	0.1 %
3. CO <sub>2</sub>	TCD / IR	0 - 100 %	0.1 %
4. O <sub>2</sub>	EC	0 - 25 %	0.1 %
5. H <sub>2</sub> S	EC	0 - 1000 / 0 - 10000 PPM	1 PPM

*Note : Images shown are indicative only. Specifications and Features will vary with application. There may be changes overtime due to continuous development process.*  
@ 2018



### ENDEE ENGINEERS PVT. LTD.

**Office & Works :** D/122, Ansa Industrial Estate, Saki-Vihar Road, Saki-Naka, Andheri (E),  
Mumbai - 400 072, Maharashtra, India. | Tel.: +91-22-4295 2180 / 81  
Email : sales@endee-engineers.com  
Website : www.endee-engineers.com