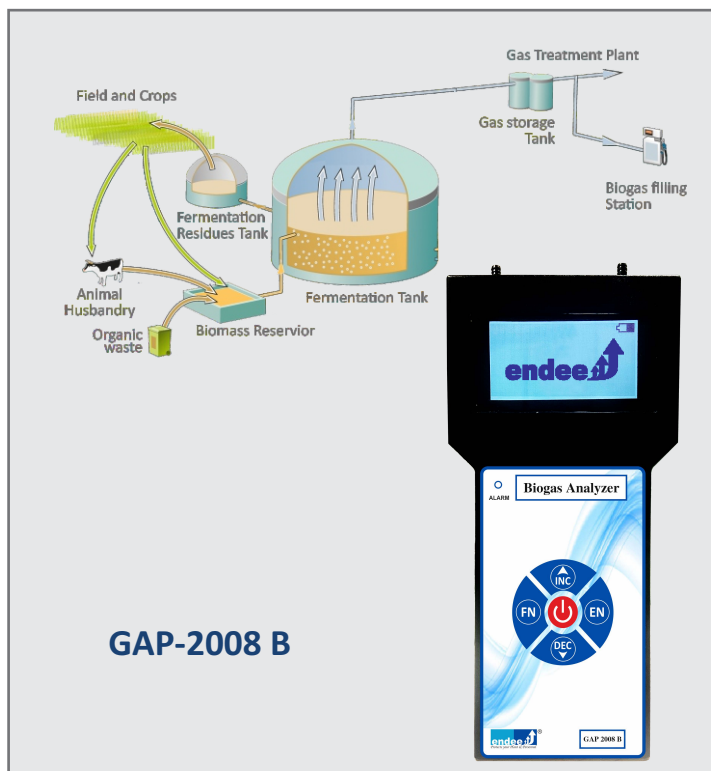


PORTABLE GAS ANALYZER

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_4), residual Oxygen (O_2), Carbon dioxide (CO_2) & Hydrogen sulphide (H_2S) 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_2 , not poisoned with CO_2
- Continuous, stable graphic display
- Date and time stamp
- Intrinsically safe design for hazardous area application
- Fast-responding sensors
- Data logging and downloading feature

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/ Handheld
Detectable gases / parameters	: CH ₄ , CO ₂ , H ₂ S, O ₂
Electronics / processor	: Micro-controller
Power supply	: Rechargeable battery with charger
Display	: Graphic LCD
Alarm	: Audio / visual (two levels - selectable range)
Output	: Data logger, USB Interface
Technology	: O ₂ =EC, H ₂ S=EC, CO ₂ =IR, CH ₄ =IR
Accuracy	: ± 1 % of full scale
Response time	: Less than 15 sec
Ambient operating temperature	: 0 to 55 °C
Sampling	: Inbuilt pump
Housing / case enclosure	: ABS High Impact Plastic
Included accessories	: Carry case, Sampling probe with 3m Hose
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	: 450 gm (gross)
Warm-up time	: 60 seconds

GASES AND RANGES

PARAMETER	SENSOR	RANGE	RESOLUTION
1. CH ₄	TCD / IR	0 - 100 % V/V	0.1 %
2. CO ₂	TCD / IR	0 - 100 % V/V	0.1 %
3. O ₂	EC	0 - 25 % V/V	0.1 %
4. H ₂ S	EC	0 - 1000 / 0 - 10000 PPM	1 PPM