

# PORTABLE BIO GAS ANALYZER

## Model No.: PBGA\_1450

The PBGA\_1450 is a portable biogas analyzer, designed by AMB for the specific needs of anaerobic digestion., that can provide accurate mixed gas measurement & monitoring. It is robust, easy to use, calibrate, and configure.

This Gas Analyzer is the ultimate tool for verifying, optimizing, and troubleshooting bio gas composition and can help ensure the digester process is running efficiently.

11/10/22		BIO GAS ANALYSER		17:45:44					
CH <sub>4</sub>	42.0	%	Vol	AMB-ESTECH					
CO <sub>2</sub>	23.0	%	Vol	Baro : 970 mbar					
O <sub>2</sub>	1.20	%	Vol						
H <sub>2</sub> S	2.0	ppm							
Bal	33.8	%	Vol						
ID1	ID2	ID3	ID4	ID5	ID6	ID7	ID8	ID9	ID10
READING			TRENDING			CALB			



### Key Specifications

- Robust, high quality design fit for anaerobic digestion sites
- Reliably measures gas levels of CH<sub>4</sub> (Range : 0-100%V);  
CO<sub>2</sub> ( Range : 0-100%V);  
O<sub>2</sub> ( Range : 0-25%V);  
H<sub>2</sub>s ( Range :0-10000ppm)  
Optional measurable gases include NH<sub>3</sub> ( Range : 0-1000ppm)  
H<sub>2</sub>S ( Range :0-50, 200, 500, 1,000, 5,000 ppm)
- Accuracy ( CO<sub>2</sub>,CH<sub>4</sub>, O<sub>2</sub>) : ± 0.5% after calibration.
- Accuracy ( H<sub>2</sub>S) : ± 5.0% Full Scale
- Detection Method : Infrared Dual Beam sensor for CO<sub>2</sub> & CH<sub>4</sub>
- Detection Method : Electrochemical sensors for H<sub>2</sub>s, O<sub>2</sub>, NH<sub>3</sub>
- Supply Voltage : 100 VAC to 240 VAC +/-10%
- Calibration : One touch , Easy user zero and span calibration.
- Calibration status : Onscreen Visibility of Last calibration date for ZERO & SPAN
- Measures : Barometric pressure, relative pressure & temperature
- Communication : USB, RS485, ethernet communications enable PC connection running SCADA.
- Data Storage : Inbuilt & Retrievable using pen drive in Excel
- Sample Flow Rate : 550 ml / min or 1.17 SCFH
- Response Time: T90: 4-10 Sec
- Power Supply : Nickel metal hydride battery pack Or Li-Ion
- Battery Charge Life : 8 hours typical from full charge
- Temperature Range : -10 to 55 Deg.C
- Flow measurement : Dual Via MEMS Flow sensor / imported Rota meter.
- Data protection : Password
- Display : Color ,touch, TFT screen, 4.3"size
- ID : 10 Nos.
- Bluetooth : Feature to connect Mobile phone or PC to Analyzer wirelessly to upload id and download monitor analyzer data.
- Robust Protector Case  
Certifications : IP67 / MIL C-4150J / Def Stan 81-41  
Maximum Temperature : 210° F (99 ° C)  
Transportation : Handy case with handle  
Sensor Protection : lock System Provider  
Dimension (L x W x D) : 16.44 x 13.00 x 6.82 in  
Weight : 13 kg

- Three Year Warranty

### Application

- Farm digester gas monitoring.
- Food processing biogas monitoring
- Waste water biogas monitoring.



**AMB ELECTRONIC SYSTEM TECH PVT. LTD.**

( An ISO 9001:2015, 17025 NABL, MSME, NSIC Certified Company )

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