Portable Biogas Analyzer
BIO-400-S-PEL

AMBETRONICS
AN ISO 9001:2015 CERTIFIED COMPANY

Actual image and size may slightly differ

Features

- Infrared sensor technology design & developed in India
- Digital display of CH_4, CO_2, O_2 H_2S Concentration on the graphic LCD display with backlight
- Calculated balance N_2 reading display
- Calorific value i.e. NCV, GCV & density value display.
- Calibration due indication and Alert.
- Plug-in Sensor provides a full year of warranted protection against hazardous gases
- Easy handling and programming with 3 keys and one key for power ON/OFF
- Password protected function menu
- Power supply with rechargeable battery
- LOW & HIGH configurable alarms with LED indications.
- Small, compact and light-weight
- Software calibration totally by using front keys
- Optional Data Logging facility with 1,00,000 records & downloading via using pen drive
- Self purging technology via 2 keys press
- Optional Calibration Kit

Applications

- Greenhouse gas measurement
- Biogas plant (Purified Gas)
- Farm digester gas monitoring
- Food processing biogas monitoring
- Waste water biogas monitoring
- Methane recovery

TECHNICAL SPECIFICATIONS

General Specification

Detection Method	:	Suction/pressurised (depend on application)
Display	:	LCD with settable backlight
Set Point	:	Two independent set points, AL1 & AL2 LED indication facility
Setting	:	Setting by 3 keys i.e. (SET, SHIFT/ACK, INCR)
T-90	:	Less than 30 seconds (approx)
Warm-up Time	:	180 seconds

Sensor Range/Resolution/Accuracy max (Indication/FS)

Sensor Technology1	Range	Resolution	Accuracy
CH_4 (NDIR)	0-100.0% V/V	0.1	±2%
CO_2 (NDIR)	0-100.0% V/V	0.1	±2%
O_2 (Electrochemical)	0-25.00% V/V	0.01	±1%
H_2S (Electrochemical)	0-2000 PPM	1	±2%
N2 (Calculated)	0-100% V/V	0.1	-

(Note : * - • Optional

- Other than above mentioned ranges please contact to our factory)
- For better accuracy sample should be DRY & CLEAN GAS.
- Accuracy measured as per calibration cylinder.

Electrical

Battery	:	Li-Polymer, Rechargeable Battery, 30 hours of runtime on full charge
Charger	:	• Input : 100-240V AC, 50 Hz
		• Output : 12V, 1 Amp Max

Output Signal

Download	:	Optional Data Logging facility with 1,00,000 records & downloading via using pen drive
Setting	:	Over / Open Range indication on LCD

Environmental

Operating Temp.	:	0 to 50°C	Atmospheric pressure : 700 mbar to 1200 mbar
Storage Temp.	:	0 to 60°C	
Humidity	:	Below 95% RH, Non condensing (40% to 60% RH recommended)	

Deliverable Accessories

- Operating Manual
- Battery charger
- Flow cum Rota meter
- Dust cum moisture filter
- Gas sensing Probe : Std. size 5" (specify for other size)
- Gas Sampling Hose : Teflon, Std length : 2 mtr. (specify for other length)

Enclosure Details

Size (external)	:	336 mm (H) x 408 mm (W) x 175 mm (D)
Weight	:	3 kg max

Specifications subject to change without any prior notice

Manufactured by : CIMFR · ISI · PESO · C€ · UL · Ex · IECEx · MSME · NSIC · GeM Government e Marketplace · MAKE IN INDIA

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