

# BIO-400-S-PEL

## Portable Biogas Analyser



**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<sub>4</sub>, CO<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>S Concentration on the graphic LCD display with backlight
- NH<sub>3</sub>, CO & H<sub>2</sub> Gas as per requirement (Optional)
- 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 & visible in ASCII format while downloading to PC via USB interface
- 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 with LED indication facility only
Setting	: Setting by 3 keys on front panel i.e. (SET, SHIFT/ACK, INCR)
T-90	: Less than 60 seconds (approx)
Warm-up Time	: 60 seconds

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

Sensor Technology1	Range	Resolution	Accuracy
CH <sub>4</sub> (NDIR)	0-100.0% V/V	0.1	±2%
CO <sub>2</sub> (NDIR)	0-100.0% V/V	0.1	±2%
O <sub>2</sub> (Electrochemical)	0-25.00% V/V	0.01	±1%
H <sub>2</sub> S (Electrochemical)	0-2000 PPM	1	±2%
*NH <sub>3</sub> (Electrochemical)	0-1000 PPM	1	±2%
*H <sub>2</sub> (Electrochemical)	0-2000 PPM	1	±2%
*CO (Electrochemical)	0-1000 PPM	1	±2%

(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, 8 hours of runtime on full charge
Charger	: • Input : 100-240V AC, 50-60 Hz • Output : 5V, 500mA Max

### Output Signal

Download	: 100000 records Logging capacity with data can be visible in ASCII format while downloading in the PC via USB interface
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)		

### Free Accessories

- Operating Manual
- Battery charger
- 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)	: 174 mm (H) x 406 mm (W) x 330 mm (D)
Weight	: 5 kg max

Manufactured by :



CIMFR



PESO



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