Portable Biogas Analyzer BIO-400

I. Introduction

The Portable BIO-400 adopts the imported gas sensor by electrochemical sensor of oxygen and hydrogen sulphide, methane and carbon dioxide measured by non dispersive infrared gas sensor NDIR principle.

II. Features

- Using 5" TFT LCD touch screen
- Measurement value display/real-time curve display
- Aluminum enclosure with smart dimensions (270*215*136mm, 3kgs)
- Data record, interval time adjustment, USB output to display history data
- Power intelligent management protect gas analyzer working at low battery
- Calibration menu and alarm setting with password protection
- One set back to factory setting

III. Specifications

Measurement	CH_4 , CO_2 , O_2 , H_2S (extendable to CO , $H2$)
Technology	CH ₄ , CO ₂ : proprietary dual beam NDIR detectors
	O ₂ ,H ₂ S: industrial electrochemical cell
Ranges	CH₄: 0-100%, CO₂ : 0-50%, O₂: 0-25%, H₂S:0-9999ppm
	Other ranges customizable on request without price increase
Resolution	0,01% for CH ₄ , CO ₂ , O ₂ ; 1ppm for H ₂ S
Accuracy	CO ₂ /CH ₄ /O ₂ : 0.01%; H ₂ S: 1ppm
Repeatability	CO ₂ /CH₄/H₂S/O ₂ : ≤1%FS
Gas conditions at	Flow:0.7L-1.2/min, internal gas sampling pump
analyzer inlet	Pressure:2kPa≤ inlet pressure≤ 50kPa
	Quality: No dust, moisture, tar (external safety filter and optional gas washing unit)
Operating conditions	Tamb : -5°C to 50°C / Pamb : 86 to 108 kPa / RH : 0-90% non- condensing
Response time (T90)	≤ 15 sec (NDIR)
Communication interface	USB output; RS232/RS485
Power supply	External 220 VAC-50Hz Internal with lithium battery and charger
Dimensions and weight	Gas analyser :270(L) x 215 (H) x 136 (W) mm / ± 3kg

IV. Applications

- Landfill
- □ Sewage treatment
- □ Anaerobic digestion
- CDM projects
- □ Medium and large size biogas power plant



