

Wall-mounted Biogas Analysis System BIO-400 R

I. Introduction

Wall-mounted Biogas Analysis System BI-400 R measures CH₄,CO₂,O₂,H₂S optional CO and H₂ at the same time in one unit. It adopts modularization sensor design, easy for replacement and maintenance.

II. Features

- Using 10" TFT LCD touch screen
- Measurement value display/real-time curve display
- Calibration menu and alarm setting with password protection
- One set back to factory setting
- Integrated zeroing pump for automatically air zeroing
- PLC control sampling and drainage interval time
- Stainless steel enclosure for anti-corrosion
- Optional sampling pump
- Maximum for six sampling point switching in one unit

III. Specifications

Measurement	CH ₄ , CO ₂ , O ₂ , H ₂ S (extendable to CO,H ₂)
Technology	CH ₄ , CO ₂ : proprietary dual beam NDIR detectors O ₂ ,H ₂ S: industrial electrochemical cell
Ranges	CH ₄ : 0-100%, CO ₂ : 0-50%, O ₂ : 0-25%, H ₂ S: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 /CH ₄ /H ₂ S/O ₂ : ≤1%FS
Gas conditions at analyzer inlet	Flow:0.7L-1.2/min 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	4-20mA output; RS232/RS485
Power supply	External 110V-220 VAC-50Hz
Dimensions and weight	Gas analyser :800(L) x 600 (H) x 300 (W) mm / ± 60kg

IV. Applications

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

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