

Online Infrared Biogas Analyzer

Gasboard-3200



Introduction:

- Gasboard 3200 infrared biogas analyzer can be used for measurement of the concentration of CH₄, CO₂, H₂S and O₂ in sample gases simultaneously. It is based on the single source two beams non-dispersion infrared (NDIR) method for CH₄, CO₂, fuel cell method (ECD) for H₂S and O₂. This analyzer is designed with 19 inches 3U smaller physical dimensions and the simple digital pulsable infrared source and two beam systems. The general application is landfill, anaerobic digestion and other fermentation Processes.

Features & Specifications



Features:

- up to 4 gases measurement with combination of NDIR and ECD gas sensor technology
- simple construction with pulsable infrared source and two beams technology
- constant temperature control for gas bench for high stability
- 320*240 LCD with menu operation.
- Repeatability: $\pm 0.5\%$ FS
- Linearity: $\pm 1\%$ FS
- Zero/Span drift: $\pm 2\%$ FS

Specifications:

Measure Gas	Measure Method	Measure Range	Resolution	Precision	Error
CO ₂	NDIR	50%	0.0 1%	$\leq 2\%$ FS	$\leq 2\%$
CH ₄	NDIR	100%	0. 01%	$\leq 2\%$ FS	$\leq 2\%$
H ₂ S	ECD	9999PPM	1PPM	$\leq 3\%$ FS	$\leq 2\%$
O ₂	ECD	25%	0.01%	$\leq 3\%$ FS	$\leq 2\%$

Note: Measurement range can be customized by the requirement.

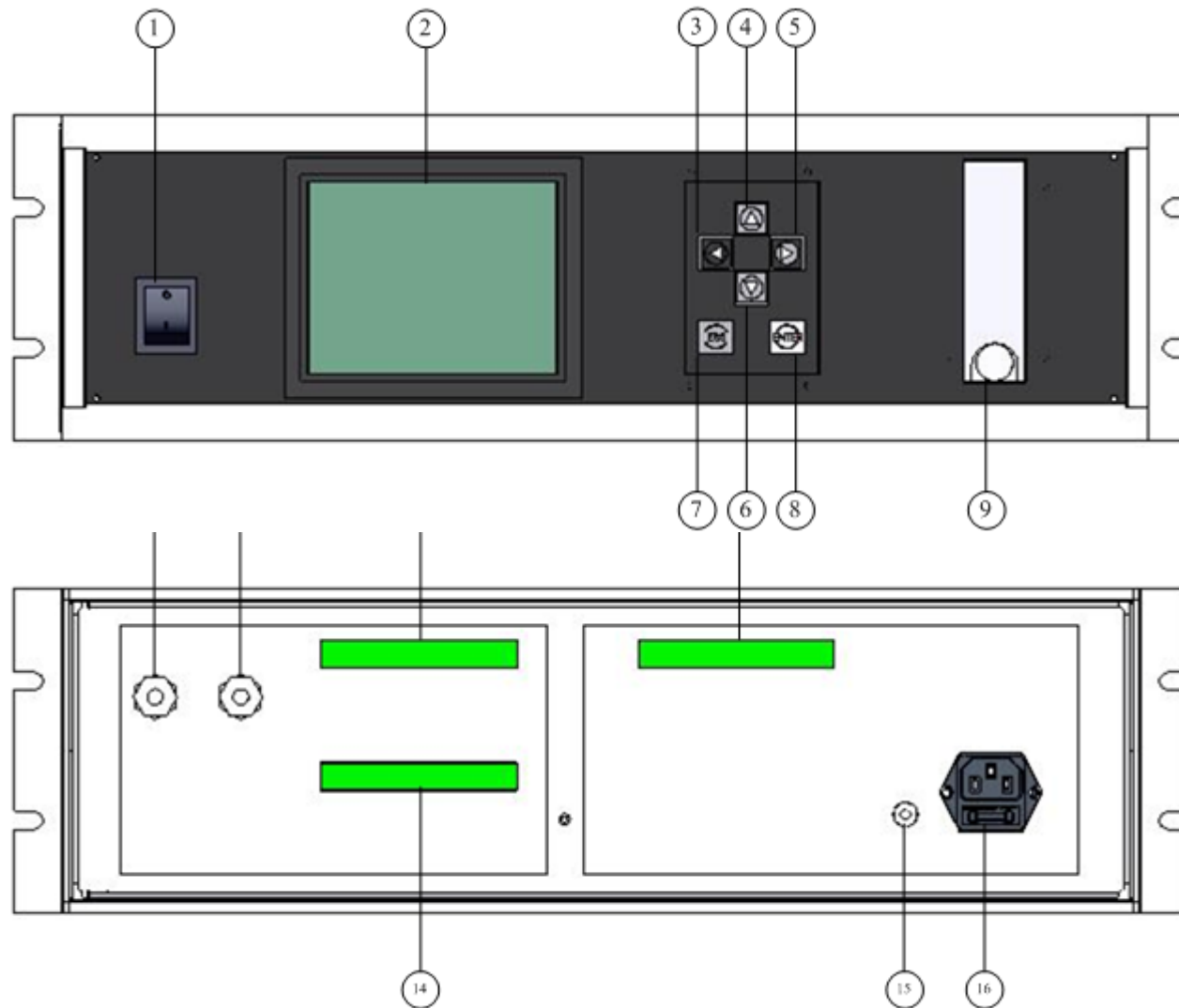




Gas flow	0.7 ~ 1.2 L/min
Pressure of gas inlet	<1Bar
Sampling gas requirement	Remove water vapor, dust(<1um) and oil etc.
Response Time	<15s (NDIR)
Warm-up time	15min
Communication port	RS232(optional)
Output	4 ~ 20 mA (according to the requirement)

Work temperature	0 ~ 50
Relative humidity	5 ~ 85%
Ambient air pressure	86 ~ 108kPa
Power supply	220V±44V AC 50Hz±1Hz
Dimension	483mm×373mm×140mm (W×L×H)
Weight	12kg

Front & Back Panels



1 --- Power on/off 2 --- LCD

3 --- Left keypad 4 --- Up keypad

5 --- Right keypad 6 --- Down keypad

7 --- ESC 8 --- ENT

9 --- Flow 10 --- Gas inlet

11 --- Gas outlet 12 --- DIO1

13 --- RS232 interface 14 --- DIO2

15 --- GND 16 --- Power source socket



Landfill Gas Monitoring in Beijing



Waste Anaerobic Digestion

Standard accessory:
Power supply cable



Biogas monitoring system in Belgium



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