

Online Infrared Coal gas Analyzer

Gasboard-3100



Introduction:

Gasboard 3100 infrared coal gas analyzer can be used for measurement of the concentration of up to 6 gases such as CO, CO2, CH4 , CnHm,H2 and O2 components in sample gases simultaneously. It is based on the single source two beams non-dispersion infrared (NDIR) method for CO, CO2, CH4, CnHm, micro-TCD gas sensor for H2 and O2 by fuel cell method. 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 coal or biomass gasification, coal chemical process, steel making process such as blast furnace, Converter, Coking, Direct Iron Ore Smelting **Reduction Process.**



Features & Specifications



Features:

- up to 6 gases measurement with combination of NDIR,TCD and ECD gas sensor technology
- → simple construction with pulsable infrared source and two beams

- technology
- constant temperature control for gasbench for high stability
- → 320*240 LCD with menu operation.
- → heating value calculation function

Specifications:

Measure Gas	Measure Method	Measure Range	Resolution	Precision	Error
СО	NDIR	25%	0. 01%	≤1% FS	≤2%
CO2	NDIR	50%	0. 01%	≤1% FS	≤2%
CH4	NDIR	10%	0.01%	≤1% FS	≤2%
H2	TCD	10%	0.0 1%	≤1% FS	≤2%
O2	ECD	25%	0.01%	≤2% FS	≤2%

Note: Measurement range can be customized by the requirement.

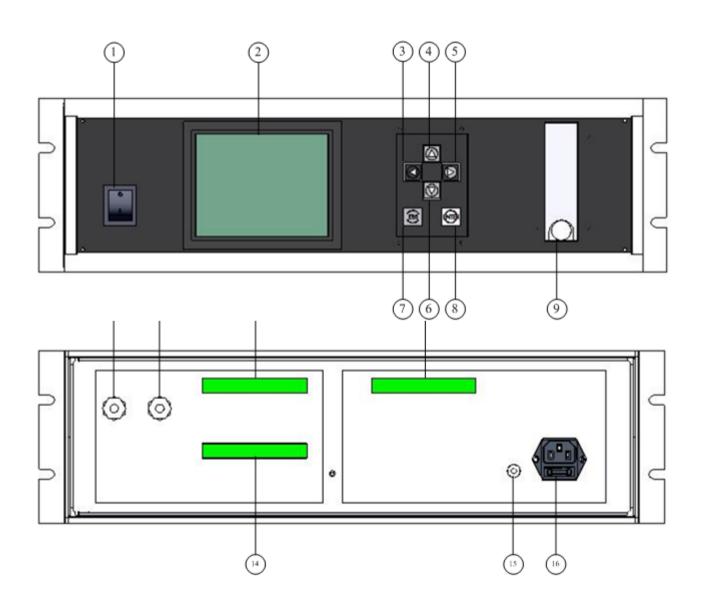


Gas flow	0.7 ~ 1.2 L/min		
Pressure of gas inlet	<1Bar		
Sampling gas requirement	Remove water vapor, dust(<1um) and oil etc.		
Response Time	<15s (NDIR)		
Warm-up time	15min		
Communication port	RS232(optional)		
Output	$4 \sim 20$ mA (according to the requirement)		

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

Accessory & Applications







Standard accessory: Power supply cable



Coking process monitoring system Gasboard 3100 ,Brasil

Gasification in India



Nitrogenous Fertilizer Plant



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