

Portable Syngas Analyzer

Compact size with excellent functionality and operability. Portable Syngas analyzer with great mobility

Vasthi Portable Syngas analyzer for



CO

CO2

CH4

H2

O2

Portable Syngas Analyzer

Vasthi **Portable Gas Analyzer** is a light weight, easy to handle, battery-powered analyzer, used to verify measurements and for spot-checking when other methods provide questionable results.

Portable analyzers are microprocessor -controlled instrument with sophisticated software process that meets the needs of industry in analyzing the Gases with accuracy and reliability. Its NDIR transducer provides highly stable and reliable results.

Key Features

- NDIR absorption principle
- The large LCD screen with clear display assures simple operation.
- Single-beam infrared gas analyzer having excellent stability is adopted.
- The O₂ sensor is available in 2 types: Paramagnetic type and Electro Chemical type.
- Automatic in operation
- Micro controller technology
- Customer specific configurable
- Suitable for Single or Multiple GAS Analysis
- Long battery backup hours
- Alarm indicators-low, high and fault Self diagnosis
- Easy calibration in fresh air
- Run-while charging capability
- Virtually maintenance free
- No interference from glycol, methanol or amine contaminants (vapor phase)
- Fast and accurate real time measurements
- Optional RS 232 and Computer Interface to transfer the shored data
- Data logger to store the data in system
- Internet facility to monitor 24 hours

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Major Applications

- Process analysis
- Continuous emission monitoring
- Optimizing combustion process
- Industries-agriculture, food, Chemical and petrochemical etc.
- Biochemistry (microbes) :- Incubator, For fermentation
- Storage and maturation of fruits
- Gas separation
- Iron and steel :- Blast furnace, Converter furnace, Heat treatment furnace, Coke oven (CDQ)
- Clinical medicine :- Oxygen aspirator
- Saving energy :- Boiler, Heat treatment furnace
- Hazard prevention :- Analysis of gases produced through combustion of new building materials
- Ceramic industry :- Tunnel kiln , Cement
- Water and Sewerage water :- Sewerage incinerator
- Thermal treatment :- Generating furnace, Carburization furnace, Annealing furnace
- Agriculture :- Research of photo synthesis
- Chemistry:- Oil refining plant, Petrochemical plant , Gas production plant
- Electronics :- Solder furnace
- Environmental safeguard :- Ambient
- Various scientific experiments:- Laboratory



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PORTABLE SYNGAS ANALYZER SPECIFICATION

Sl	Gas	Range	Accuracy	Resolution	Sensor
1	CO	0-60%	±1%	0.1%	NDIR/EC/TCD
2	CO ₂	0-80%	±1%	0.1%	NDIR/EC/TCD
3	CH ₄	0-100%	±1%	0.1%	NDIR/EC/TCD
4	H ₂	0-50%	±1%	0.1%	NDIR/EC/TCD
5	O ₂	0-30%	±1%	0.1%	NDIR/EC/TCD

Application Data

Environmental Temperature Range*	-20° to 50° C (-4° to 122° F)
Sample Inlet Pressure	10 to 25 PSIA, 10 PSIG maximum
Sample Flow Rate	0.1-10 L/min (0.2 to 20 scfh)

Electrical & Communications

Input Voltage	100-240 VAC, 50-60 HZ <i>standard</i>
Electrical Storage	12-Volt, Sealed Lead-Acid Battery Approx. 8 hours usage time per charge
Current	0.5 A @ 120 VAC during recharging
Outputs	R S232 - all parameters
LCD Display	Concentration
Alarms	Two Levels (selectable range)
Accuracy	±2%
Repeatability	±0.5%
Signal response time	t 90 <2sec. (At 1 LPM) 90
Operating Temperature	0 - 50 Deg. C
Warm up Time	<3 min

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