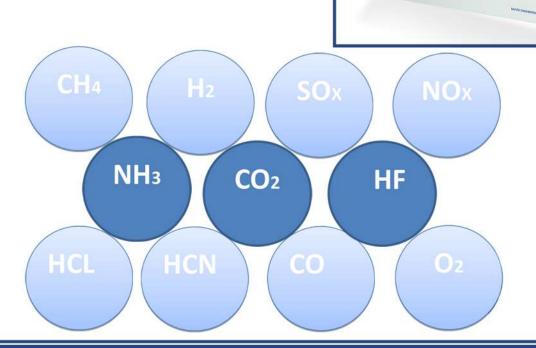


Providing latest in combustion gas & emission analyzers for boiler, engine, furnace, and other application





Vasthi OMGA 8000 is one of the most powerful gas analyzer you can buy. The combination of multi gas emission analysis, differential pressure and temperature measurement reduces service costs and ensure the safe operation of appliances.

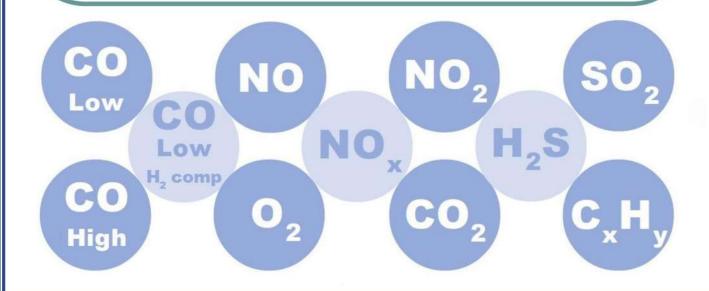
The analyzer is rugged, reliable and flexible. By choosing up to six out of a choice of nine gas sensors, it can be configured to meet specific monitoring requirement. Data logging can be enable for remote analysis of emissions, with user configurable time periods.

FEATURES & BENEFITS

- Up to 9 simultaneous gas measurements user selectable
- Self-check facility and special software ensure accurate analysis data.
- Robust, industrial design for daily use in the harshest plant environments
- Visual alarms for lo bat, No flow and Sensor Fault
- Optional Integral Printer- instant record of measurement readings
- Internal Memory to save the data in system



- NDIR Sensors available for CO2 & CxHy, CO,CH4, Sox and Nox more gases
- * Easy to use menu- to operate and save the setting
- High Quality Stainless Steel Probe For high temp gases.
- ❖ Back lit Display
- ❖ Real time clock
- Logging of 100 Gas Analysis Reports
- Data Output to Printer or PC





Measurement Specifications

Parameter Method	Indication range	Display resolution	Accuracy	Detection limit	Response time(t90)	
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Gases to be measured in standard configuration

O2 - oxygen, volumetric concentration	electrochemical gas sensor	025 %	0.01%	±0.2%or 2% rel.	0.01%	45 s
CO2 - carbon dioxide, volumetric concentration	calculated from volumetric concentration of O2	025 %	0.01%	±0.2%or 2% rel.	0.01%	45 s

CO - carbon monoxide, volumetric concentration	electrochemical gas sensor	05,000pp m	0.1 or 1 ppm as set	± 5 ppm or 5 % rel.	5 ppm	45 s
CO - carbon monoxide, volumetric concentration (optional)	electrochemical gas sensor	010%	10 ppm or 0.001 %	± 50 ppm or 5 % rel.	10 ppm	45 s
NO / NOx - volumetric concentration of nitrogen oxides.	electrochemical gas sensor	05000 ppm	1ppm	± 5 ppm or 5 % rel.	1ppm	45 s
NO2 - volumetric concentration of Nitrogen dioxide.	electrochemical gas sensor	01000 ppm	1 ppm	± 5 ppm or 5 % rel	1 ppm	45 s

SO2 / Sox- volumetric concentration of Sulphur dioxide.	electrochemical gas sensor	05000 ppm	1ppm	± 5 ppm or 5 % rel.	1ppm	45 s
СхНх	Catalytic polluster	0-100% LEL	0.1%0.01	± 2 % rel	1%	45s
H2S- volumetric concentration of Hydrogen sulfide.	electrochemical gas sensor	05000 ppm	1ppm	± 5 ppm or 5 % rel.	1ppm	45 s
H2 - volumetric concentration of Hydrogen	electrochemical gas sensor	02000 ppm	1ppm	± 5 ppm or 5 % rel.	1ppm	45 s



Gas Measured with optional IR Sensors

CO2- carbon dioxides volumetric concentration	NDIR sensor	025 % 0100%	0.01% 0.1%	0.5 % from Range or +/- 3 % rel.	0.2 %	45 s
CH4 - Methane, volumetric concentration	NDIR sensor	05 % 0100%	0.01% 0.1%	0.5 % from Range or +/- 3 % rel.	0.2 %	45 s

CO - carbon monoxide, volumetric concentration	NDIR sensor	025 % 0100%	0.01% 0.1%	0.5 % from Range or +/- 3 %	0.2 %	45 s
concentration				or +/- 3 % rel.		

Tgas - flue gas temperature	Thermocouple	-101000 °C	1 °C	1 °C	±2 °C abs., or 1.5 % rel.	30 s
Tamb - ambient temperature	Thermistor	-10100 °C	1 °C	1 °C	±1 °C abs., or 1.5 % rel.	30 s
Pressure	DMS bridge	-20+20 hPa	0.1 Pa	0.1 Pa	±2 Pa abs., or 5 % rel	10 s
Diff. Pressure	DMS bridge	-20+20 hPa	0.1 Pa	0.1 Pa	±2 Pa abs., or 5 % rel	10 s
TI (CO/CO2 -Toxic Index)	calculated	0 1 %	0.01 %	5 % rel.	0.01 %	10 s
Lambda - excess air number	calculated	110	0.01	0.01	0.01	5 s
qA - combustion losses	calculated	0100 %	0.1 %	0.1 %	0.1 %	5 s
Eta - efficiency	calculated	0100 %	0.1 %	0.1 %	0.1 %	5 s



Applications



- Ambient and Emissions Monitoring.
- Stack or Exhaust Gas Analysis in Boilers
- Power & Industrial Plants
- Process Analysis
- Fuel Efficiency
- Internal combustion Engines
- Furnaces
- Quality Control Labs

Special Futures

Calibration: The analyzer comes standard with a complete factory calibration. The analyzer can easily be recalibrated with span gas cylinders. Recalibration is recommended at least once each year to ensure analyzer accuracy.

Flue gas & ambient temperature: The analyzer takes a direct thermocouple temperature measurement of the flue gas, and has an ambient temperature sensor fitted. These are required for making accurate combustion efficiency calculations.

Setup and measure within minutes: Simply switch on, an automatic zero calibration is performed by the analyzer. Plug in the sample probe and take real-time gas readings in a matter of minutes.



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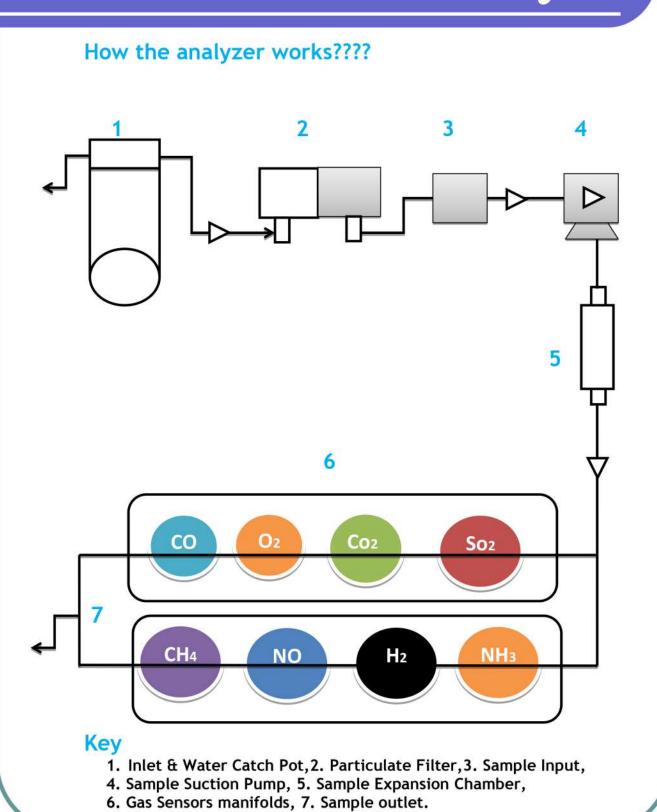
Sample Collecting or treatment: A condensate & Dust trap & a low porosity in line filter to condition the sample. Time tested, Sturdy, High suction inbuilt pump.

Proven Sensor Technology: Special purpose long life sensors with cross interface filters to achieve high accuracy. Oxygen sensor guaranteed for 4 years and other electrochemical sensor for 2 years.

Instant record of measurement data: The built-in thermal printer provides an immediate record of the measurement data. All essential information including date and time are printed.









Integral sample conditioning: The gas sample is drawn into the analyzer via a sample probe and hose connected to the input connection on the front panel of the analyzer. The sample enters the water catch pot where residual water is removed. The sample gas is then passed through a 0.1 micron particulate filter. After removing water and mist or dust the sample gas is routed to the sensor manifolds.

Sensor accuracy and longevity: To maintain sensor integrity, they are purged with fresh air each time the analyzer is switched on or off. For accuracy they are calibrated on 'switch on' with ambient air.

SPCIFICATIONS

Display full function Alphanumeric/ graphic LCD

With backlight, 4 X8 matrix Liquid crystal

Sampling Through inbuilt Auction Pump

Response time 45 Seconds

Key Pad Tactile membrane (Integral with display)

Functions keys and cursors.

Indicators LED type for ON (Power), charging,

Low batt, Faulty,

Power Supply 230 V AC, 50 Hz.

Sample flow rate 3 to 5 LPM

Data memory 1000 readings for each gas

Printer Thermal

Alarms Visual and Audible, 4 alarms

Digital interface RS 232 and USB Port.

User data 4 X8 matrix Liquid crystal

Case Rigid Aluminum

Line Filter Replaceable 5 microns



Sampling System:-

Sampling System internal Parts
Will change depend on application
And area of use.

- > Drain Pot
- Gas filter
- Glass Wool Filter
- Solenoid Valve
- Pump
- > Teflon meter
- > Flow Meter
- Contractor
- Drain valve
- > Heater



Optional Accessories:

- RS 232 or USB port data transferring to the PC
- Data logging -
- Thermal Printer for instant reading print out
- Flow measurement flue gas velocity, flow rate
- Draft measurement internal stack pressure
- Smoke measurement readings to Bacharach smoke scales
- Dual Language display options English, Hindi, Italian, Spanish

Note: Specifications and Features will vary with application. The above are established and validate during design, but are not to be construed as test criteria for every product. Due to Vasthi's commitment to research, design and development specifications are subjected to change without notice.



VASTHI INSTRUMENTS

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