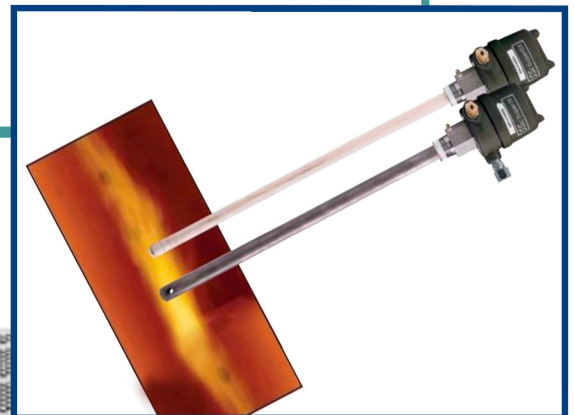


Vasthi Zirconia Oxygen Analyzer

**Vasthi Online Zirconia Analyzer
with in situ High Temperature
Zirconia Sensor for Controls
Combustion
Efficiency**



Vasthi Zirconia Oxygen Analyzer

Super Oxy In situ High Temp Zirconia Probe:

Applications:-

- Direct –fired furnaces (reheat , annealing, tunnel)
- Glass furnace(side-fired ,end-fired ,float ,container and fiberglass)
- Power generation-boiler(gas-fired and coal-fired)
- Ceramic and brick kilns
- Petrochemical-after-burners, incinerators, package boilers, sulfur burners.

Super Ox Specifications

- Process variable range : 8.77 E – 23 to 20.9%
- Temperature Range : 650 -1650 Deg. C
- Sensor Impedance : less than 20 K ohms @ 920 Deg. C
- Sensor Output : 0 to 1250 mVDC
- Response time : less than 1 second
- Sheath Material: 99 % Alumina or Silicon Carbide.

Super Ox Benefits:

- Field performance cab be corroborated using external Verification port
- Cooling air maintains positive pressure to ensure the integrity of electrical connections in harsh environments
- Outer electrode is not “painted “on the zirconia electrolyte eliminating the antiquated “boot” design.
- Available in a number of standard lengths – 18” [457 mm], 26” [660 mm], 30” [762 mm] and 36” [915 mm]
- “B”, “S”, and “R” thermocouples are available.

Vasthi Zirconia Oxygen Analyzer



A choice of configuration is available. The most convenient and economical is a standard controller with the cell mounted on the rear. Alternatively, there is remote sensor housing complete with flow meter and valve. Where cable lengths and/or hazardous area conditions are an issue, the transmitter can be located in the sensor housing.



Reference Air conditioning systems are available, standard or bespoke, according to the process conditions. Filters, pumps and regulators can all be incorporated to deliver the sample in the correct condition. Bypass flow systems enable longer distances from process to analyser to be achieved. Vasthi engineers are ready to recommend the right system for you on receipt of the full gas stream specification.

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Oxygen Monitoring System Specifications ;

Measuring Range	PPB to 20.9 % V/V
Display I indication	Alpha numeric 128 x 64
Principle	In Situ Zirconia Sensor
Accuracy	+/- 1 % of measured value (at a constant temperature)
Resolution	0.1%
Linearity	+/-1%
Analog Output	4-20mA isolated output 600 ohms
Relay output	2 level High & low Adjustable alarms.
Relative Humidity	0-99% RH Non-condensing
Recommended Sample	0.1 to 10 Liter / Min
Operating Temperature	0 to 50 C
Response time	90 % in >10 Seconds
Reproducibility	1-/+ at constant Temperature
Sensitivity	0.5 of FS
Diagnostic	Comprehensive self-test function
Digital I interface	RS 232
Alarms Setting	Hi & Very high Adjustable over full range
Warm up time	Approx. 2 minutes
Hosing	Aluminum
Power	100- 290 V AC , 47-63 Hz
Sample Inlet/ Outlet	¼ "OD flare fittings
Mounting	Panel

**VASTHI INSTRUMENTS**Plot no: 21 & 22 , Block no: 24, Phase - IV ,
Auto Nagar, Guntur - 522 001, Andhra Pradesh,Inda.

Tel : +91 863 2238 667, +91 738 2708 685, +91 958 1678 685

web: www.vasthi.com,E: info@vasthi.com, sales@vasthi.com