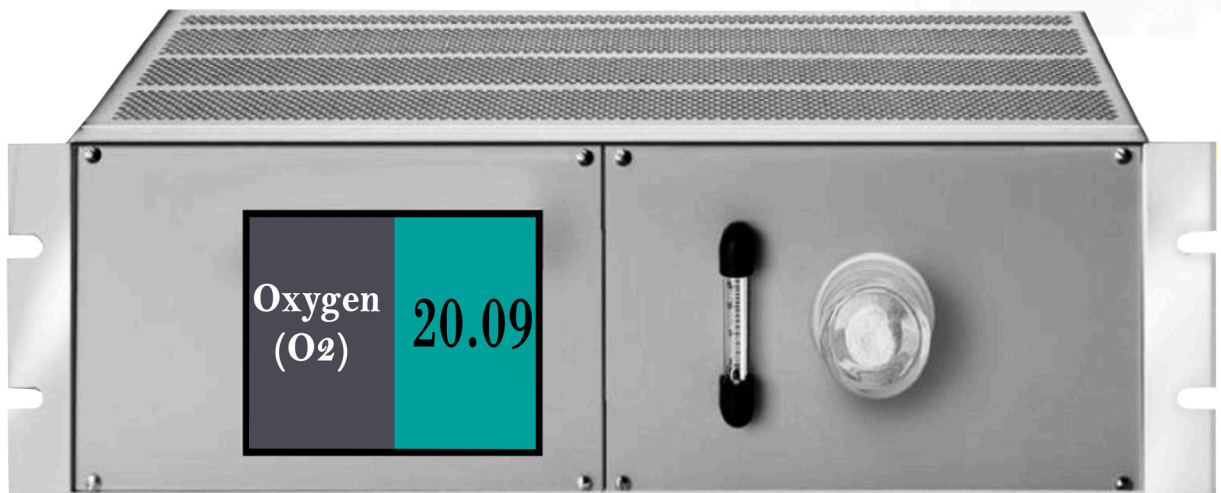


# Paramagnetic Oxygen Analyzer

- \*% O<sub>2</sub> levels**
- \*Hazardous area options**
- \*Choice of cell for different applications**
- \*Remote or integral sensor**
- \*Choice of sample systems**

## Vasthi Online Paramagnetic Oxygen Analyzer for



# Paramagnetic Oxygen Analyzer

## Applications

- Nitrogen generators
- Inert gas systems
- Air separation
- Furnace atmospheres
- Biogas
- Glove boxes
- Gasification
- Packaging

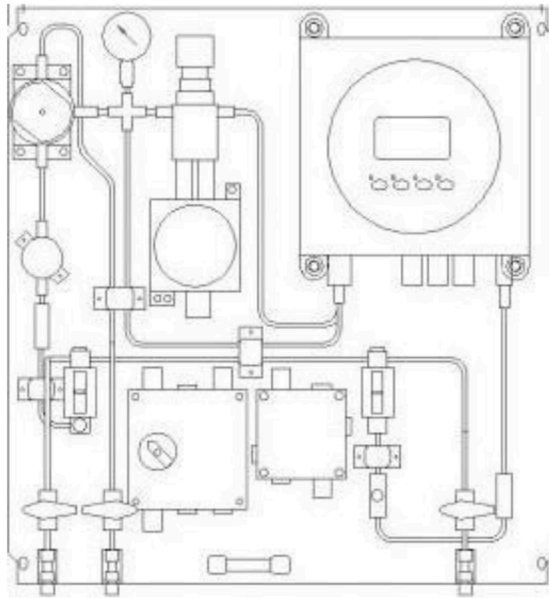
**A choice of configuration is available.** The most convenient and economical is a standard analyser with the cell mounted on the rear. Alternatively, there is remote sensor housing complete with flow meter and valve. Where cable lengths and/or hazardous area conditions are an issue, the transmitter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

**Different sample 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.

## **Sampling System Consists:-**

1. Air Filters
2. Cotton filters
3. Drain Values.
4. Pressure regulators
5. Air Flow Meter.

# Paramagnetic Oxygen Analyzer



**For hazardous area applications** the sensor may be mounted remotely in the hazardous area and safely connected.

## Special Features:

- Graphical Display
- Air calibration
- Two adjustable concentration relays
- High & Accuracy & Sensitive ; fast response
- Sensor failure alarm
- Auto ranging capability
- Unaffected by hydrocarbons and other oxidizable gases
- RS 232 output
- 4-20mA output

**Convenient output for Data:** A unidirectional RS 232 serial interface is incorporated to relay information to a host computer for remote monitoring of all functions

# Paramagnetic Oxygen Analyzer

## Electronics Device Specifications:

Measuring Range	0-100 % V/V
Display Indication	Alpha numeric 128 x 64
Principle	Paramagnetic
Accuracy	+/- 1 % of measured value ( at a constant temperature)
Software language capability	English language
Resolution	0.001%
Linearity	+/-1% FS
Zero Drift	<_ 1 %
Analog Output	4-20mA isolated output 600 ohms
Relay output	2 level High & low Adjustable alarms.
Maximum analog current out put	21.5mA
Relay contact type/ratings	Potential free/ratings 230V Ac,1Amp
Relay settings	Menu driven type
Communications	Serial interface RS-485 or RS-232
Memory	Inbuilt storage type
Relative Humidity	0-99% RH Non-condensing
Recommended Sample	0.1 to 10 Liter / Min
Operating Temperature	0 °C to 50° C
Ambient temperature	15°C to 45° C
Area of operation	Safe Area
cabinet protection	IP65 or better
Response time	<=15Seconds
Reproducibility	1-/+ at constant Temperature
Sensitivity	0.5 of FS
Diagnostic	Comprehensive self-test function
Digital 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

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