INSITU Oxygen Analyzer
Model BI-2000

INSTRUMENT
For sensing and acting, recording and controlling, form a major part of industrial process automation. Here is a summary of zirconia based in situ oxygen analyzer system developed by BHOOMI ANALYZER. Instrumentation with a wide product range, forms an integral part of process automation. In addition to this, BHOOMI ANALYZER, is in a position to support the customers with services like installation, commissioning & maintenance.

BI-2000 is an insitu analyzer. This instrument is specially designed for oxygen measurement in combustion designed processes, typically to improve the combustion efficiency by monitoring and controlling excess oxygen in flue gases. It is accurate, consistent and reliable even for close loop control applications. The characteristic of zirconia cell enable the oxygen analyzer to provide exceptional sensitivity at low oxygen concentration.

FEATURES
- Zirconia oxide sensor, giving real measurement of excess oxygen
- Insitu calibration facility
- Reliable out put , adaptable to close loop control
- Standard length of prob is 3 feet & 6 feet.
- Optional lengths 18 inches, 9 feet & 12 feet.
- Easy installation, all hardware supplied with the system.
- Completely field repairable.
- Digital electronics package in IP 65 housing.
- Explosion-proof housing available as option.
- Auto & manual calibration facility for zirconium sensor.
- Micro controller based digital systems with user friendly menu driven operator interface.
- Sintered steel filter, carborundum filter as option.
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### Specification

- **Oxygen measurement range**: 0-10%, 0-25% and 0-100% programable
- **Standard output signal**: 4-20mA linear & isolated
- **Static system accuracy**: 5% of reading
- **Dynamic systems accuracy**: 1% of reading
- **System response time**: Less than 3 seconds
- **Process temperature**: 10°C to 760°C
- **Ambient temperature**: 0°C to 60°C
- **Power Supply**: 100 to 120 V AC
- **Mounting**: 90mm diameter insertion hole. Adaptor plate to be welded or anchored on process wall
- **Power Requirement**: 300 Watts.
- **Reference air**: Clean dry instrument quality air
- **Calibration gas**: Minimum two oxygen concentration between 0.40% and 20.95%

### Electronic Package

- Microcontroller based unit
- 16 x 2 back lite LCD display and 4x2 keypad for user interface
- Auto & manual calibration facilities
- Built-in multimeter for voltage & current measurement
- Wall mounting and powder coated enclosure as per the industrial standards
- Isolated and linear 4-20mA current out put
- In-built PID controller
- Programable event in case of sensor, heater, thermocouple & other failure
- IP65 Housing
- RS 422 interface

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**BI-2000 CONVERTER**