

## BI 3000 Zirconia Oxygen Converter

The Universal Converter is a field-mounted unit designed to meet IP65 specifications.

O<sub>2</sub> universal converter unit is a microcontroller-based wall-mounting unit, for industrial use – to interface with all brand oxygen probes (sensor) in an industrial process.

Universal converter incorporates the control of the heater for the oxygen sensor, measurement of the probe temperature (cell temperature) and the stack temperature.

This universal electronics is compatible with oxygen probes of all other manufacturers



### Measurement of gas concentration

Standard version with one oxygen sensor for O<sub>2</sub> measurement

### Universal Characteristics

Programmable temperature from 600 deg C to 850 deg C

Compatible with all probe heaters

Easily adapts for 44 VAC heater, 110VAC heaters and 230VAC heaters

### Converter capabilities

Microcontroller based smart unit

Full graphic display LCD

Built-in multi-meter for voltage & current measurement

RS-422C interface and multifunctional PC program

Display facility of cell temperature and emf

Wall mounting and powder coated IP 65 enclosures as per the industrial standards. Ex proof as option.

One isolated and linear 4-20mA current output

Contact o/p: 4 points

In-built PID controller

Programmable events incase of sensor, heater, thermocouple & other failure

Operating temperature 10 °C ÷ 50°C

Power supply 70 to 230 VAC 50/60 Hz

Parameter	Measuring method	Range	Resolution	Accuracy	Time (T90)
O <sub>2</sub> - oxygen, volumetric concentration	Zirconia cell Nerst equation	0..10% 0..25 % 0..100%	0.01 %	2% rel.	3 s
T <sub>gas</sub> - flue gas temperature	Thermocouple	-10..1000°C	0.1 or 1°C set by user	± 2 °C or 1.5 % rel.	30 s
T <sub>amb</sub> - ambient temperature	Thermistor	-10..100°C	0.1 or 1°C set by user	± 1 °C	30 s
Eta - efficiency	calculated	0..100%	0.1%	0.1%	



## Bhoomi Analyzers

No.16, Shakuntala Krupa Shopping Complex,  
Near Mental Hospital, Thane (W) 400 604  
Ph: 91-22-25830769, 25805777  
Fax: 91-22-25805777  
Email: [sales@bhoomiltd.com](mailto:sales@bhoomiltd.com)  
Website: [www.bhoomiltd.com](http://www.bhoomiltd.com)

## Distributor