

# NOVA MODEL 4000

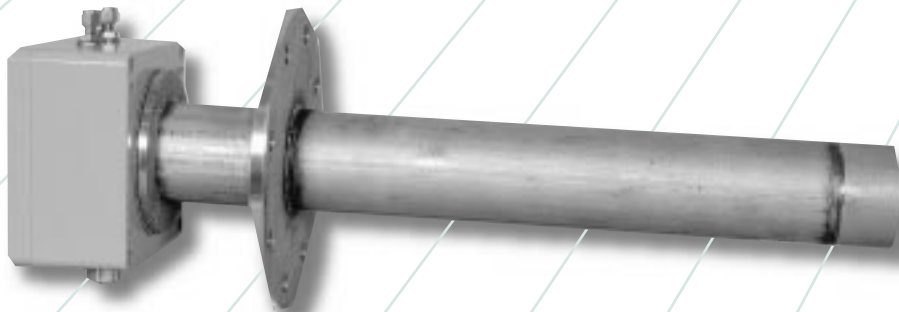
## IN-SITU ZIRCONIA OXYGEN ANALYZER

### APPLICATIONS

*For flue gas from most combustion processes.  
Also can be used for some process applications.*



CONTROL CABINET



IN-SITU PROBE

### FEATURES

- Separate controller with large, backlit LCD display in percent O<sub>2</sub>
- No sample conditioning system required - Probe mounts directly in flue gas stack
- Also designed to be direct replacement for most common zirconia probes. Can use existing electronics.
- Fast response - Ideal for O<sub>2</sub> control of combustion
- Long sensor life
- Modular design is field serviceable - No need to remove probe from stack
- 2 levels of user settable alarm
- Easy to calibrate
- O<sub>2</sub> sensing element is not prone to mechanical or thermal shock
- Standard ranges of 0-10% and 0-25% O<sub>2</sub>
- 4-20ma output
- Various probe lengths available

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## DESCRIPTION

The Nova Model 4000 Zirconia Oxygen Analyzer has been designed specifically for measuring oxygen in flue gases from most combustion processes.

The analyzer consists of a sampling probe which mounts directly in the flue gas stack. The probe then transmits a signal to the wall or panel mounted

control cabinet where a digital readout displays the oxygen content in the stack.

The Model 4000 provides fast response, long term reliable operation and ease of field serviceability due to its modular design.

This probe should not be used in flue gases containing high levels of combustible gases. Consult Nova if this occurs.

## CALIBRATION

A calibration gas port and flowmeter are provided to periodically check the oxygen reading.

## SPECIFICATIONS

DESCRIPTION	
Method of Detection	Zirconia Oxygen Sensor - In Situ
Speed of Response	< 3 seconds
Maximum Stack Temp	1300°F (700°C)
Ambient Temp Range	32 to 120°F (0-50°C) for control cabinet. -40 to 180° F (-40 to 85° C) for probe (higher temperature rating available)
Accuracy	Better than 2% of reading
Long Term Drift	Less than 1% of reading per month
Ranges	0-10% and 0-25% linear
Output	4-20MA
Alarms	Two levels, field adjustable
Probe Mounting	By 4" 150 # ANSI flange (7-1/2" bolt circle)
Standard Probe Lengths	18", 36", 72", 108" and 144". Other lengths on special order
Power	115VAC 60 Hz (230VAC 50 Hz available)

*Nova reserves the right to specification changes which may occur with advances in design without prior notice.*

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