



## CEMTEK 8000 - NO<sub>x</sub> / O<sub>2</sub> Probe

### Low Flow-Dilution NO<sub>x</sub> / O<sub>2</sub> Monitoring:

For SCR & Low NO<sub>x</sub> Burner Optimization

Monitor inlet and outlets of SCR's for NH<sub>3</sub> injection control using this compact and rugged Mini Dilution NO<sub>x</sub> /O<sub>2</sub> probe system specifically designed to meet the challenging monitoring requirements for selective catalytic reduction systems.

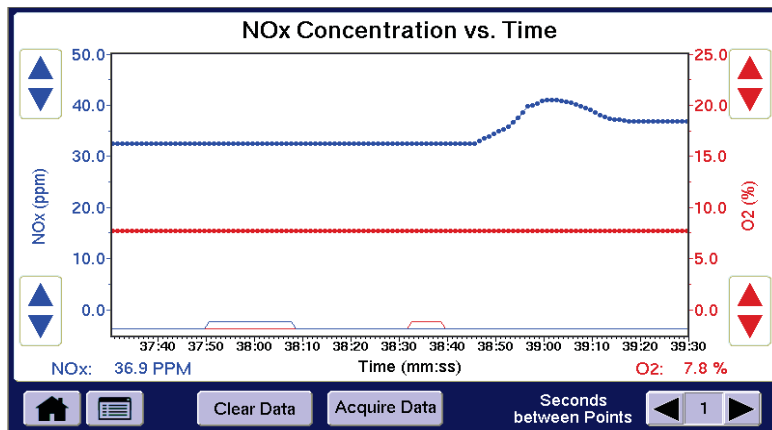
- Available as a NO<sub>x</sub> only analyzer
- Conventional Proven Dilution technology
- Proven Zirconia Oxygen measurement
- Revolutionary Chemiluminescence design
- Compliance accuracy with fast response
- Low drift and long term reliability
- Unmatched low cost with minimal install cost
- Low level long term maintenance
- Unsurpassed in accuracy, performance and cost of ownership
- Suitable for Coal, Oil or Gas fired sources, boilers turbines, engines.



## Key Features:

- Low sample flow - diluton technology for minimal sample conditioning requirements
- Fast response - <10 secs to T95
- Close-coupled enclosure with integrated climate-control - no sample conditioning or environmental shelters required
- Probe calibration and full check of system reduces calibration gas usage
- Simple probe design with oxygen sensor (option)
- NOx by solid-state detection, no photomultipliers
- Simplified pneumatics and electronics for high reliability and ease of maintenance
- High process temperatures up to 1200° F
- Touch screen user interface

## 8000 NOx Transmitter Display



## Service Offering

To ensure trouble free performance and reliability of all CEMTEK Instrument products, we offer a comprehensive portfolio of services at fixed cost pricing. Our offerings include installation, training, support, extended warranty and preventative maintenance training.

## Performance Specifications

	NO <sub>x</sub>	O <sub>2</sub>
Measurement Technology	Chemiluminescence using all solid-state detection	Amperometric Zirconium oxide cell
Measurement Range (adjustable)	0 - 10 ppm up to 0- 1000 ppm	0 to 25% O <sub>2</sub>
Full Scale Range	Adjustable from 1 to 1000 ppm	Continuously adjustable from 5 to 25% O <sub>2</sub>
Zero Noise	< 0.02 ppm	< 0.02% O <sub>2</sub>
Zero Calibration Drift	Better than ± 1 ppm	Better than ± 0.1% O <sub>2</sub>
Span Noise	< 0.25% of reading	< 0.02 % O <sub>2</sub>
Span Calibration Drift	Better than ± 1% of reading	Better than ± 0.1% O <sub>2</sub>
Linearity Error	< 2% of high calibration value across range from zero to full scale	<1% to high calibration gas value across range from zero to full scale
Interference (sum of all interferences)	< 1% of measured value	< 1% of measured value
Response Time (15 ft sample line)	T95 < 10 seconds	T95 < 10 seconds
NO <sub>2</sub> Converter Efficiency	> 95%	

## Mechanical Specifications

**Probe Enclosure:** NEMA 4 mounted directly to the flange 10" W x 8" D x 12" H

**Probe:** SS with 4" ANSI 150 lb flange (3" or 4") Standard lengths 1m & 2m

**Controller:** Wall Mount NEMA 4 16" W x 8" D x 20" H

**Weight:** 40 lbs depending on probe

## Options

- S.S. Enclosures
- Probe length options
- Hasteloy Probe
- Oxygen Sensor
- Total NOx with Converter
- NH<sub>3</sub> Scrubber
- Air Clean - Up Panel



## CEMTEK Instruments

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