

Accurate. Reliable. Cost Effective.

Emissions Monitoring for Compliance & Process Improvement



Dual Range NO_x Analyzer for Extractive CEMS - Model 8010



Technology

The Model 8010 Dual Range NO_x Monitor is specifically designed for use in low-NO_x CEM applications. Total NO_x is measured using the chemiluminescence method with a high temperature NO₂ converter, and provides two separate ranges with 4-20ma outputs for each range.

The Model 8010 features three separate LED displays give simultaneous indication of NO_x concentrations on each range plus the converter temperature. There is a front panel indication of sample flow and ozone flow as well.

This analyzer meets or exceeds 40CFR60 and 40CFR75 demands for relative accuracy, linearity, and calibration drift in low and ultra-low NO_x natural gas-fired combustion turbine applications.

Advantages over Conventional Designs:

All solid-state detection: no photo-multipliers, high voltage power supplies, or exposed TE-coolers. No valves, pumps, or moving parts besides the chassis fan.

Non-consumptive, non-catalytic NO₂ converter never wears out, gets poisoned, or needs maintenance. Very clean ozone generator design with high frequency drive electronics for trouble-free operation.

Simple interface with all diagnostics visible, no menus to navigate or keystrokes to remember. Simplified pneumatics and electronics results in high reliability and low cost of ownership. Each range has separate, fully independent displays, outputs, and calibrations.

Product Specifications

Measurement Technology	Chemiluminescence using all solid state detection
Range	Full scale adjustable from 1 to 100ppm NOx
Accuracy	Continuously adjustable from 10 to 25% O2
Zero Noise	Less than 0.02ppm
Zero Calibration Drift	Better than $\pm 0.1\%$ of reading
Span Noise	Less than 0.2% of reading
Span Calibration Drift	Better than $\pm 0.1\%$ of reading
Linearity Error	Less than 1% of full scale
NO2 Converter	Greater than 95%
Response Time	T95 no greater than 15 seconds
Outputs	Analog 4-20mti isolated
Construction	Rack mounted enclosure
Dimensions	19" W X 67" L x 6" D

Ordering Information

Model 8010 NOx Monitor

Choose from the following configurations/options to customize your own Model 8010

Measurement

W = Wet

D = Dry

** Custom application available upon request*

Your Order Code: 8010__

Service Offering

To ensure trouble free performance and reliability of all Cemtek Instrument products, we offer a comprehensive portfolio of service offerings at fixed cost pricing including; installation, training, support, extended warranty and preventative maintenance.

Visit us at: www.cemtekinstruments.com



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