

# Stack Emissions & Combustion Efficiency



The **LGA-3500** is an in-situ, cross stack **Tunable Laser Diode Array Spectrometer (TL DAS)** capable of detecting a number of compounds, such as O<sub>2</sub>, CO, CO<sub>2</sub>, within a combustion process. The LGA-3500 provides an instantaneous response to process changes, has no moving parts, no cross interference from other gases, and eliminates the need for a costly extractive sample preconditioning system. The rugged design and air purge applied on the optical windows of the laser transmitter and receiver units makes the LGA-3500 easy to maintain and leads to a low cost of ownership. Configurations suitable for hazardous areas are also available.

Applications: Combustion optimization; Challenging process applications within Steel and Petrochemical plants



The **9060 Zirconium Oxide Flue Gas Oxygen Analyzer** provides reliable in-situ oxygen monitoring by combining our proven zirconium oxide sensor technology with a microprocessor based controller in a compact NEMA-4 housing.

Applications: Boiler / combustion efficiency; Stack gas / emissions monitoring; Process heater furnaces (ethylene plants)



## SERIES 9000



The CEA-9001 and PEM-9002 digital flue gas analyzers, suited for inspecting and servicing small to industrial sized heater installations, are used for safety-relevant technical inspections of CO emission concentrations in gas combustion plants.

The **Series 9110** utilizes the chemiluminescence method for continuous detection of NO / NO<sub>2</sub> / NO<sub>x</sub> for either the 0-50 ppb to 0-20 ppm (Model 9110A) or 0-5 ppm to 0-5000 ppm (Model 9110AH) range.

Applications: Continuous emissions monitoring (CEMs); Selective catalytic reduction of NO<sub>x</sub>; Air separation (medical grade gases)

