

# MOLE-DAS™

Fixed Configuration  
Combustion Intelligence System

**Real-time combustion analytics.  
Anywhere you need it.**

The fixed MOLE-DAS configuration is a self-contained system that enables diagnostic-grade sampling at the stack and can be utilized for spot checking engines for performance and as a pre-check to improve emissions testing outcomes. MOLE-DAS is also suitable for periodic emissions monitoring and follows the ASTM D6522-00 testing methodology.

Equipped with a conditioned sample path, it allows technicians and emissions specialists to evaluate combustion quality across multiple sites with laboratory-level accuracy.



Turn stack testing data into operational gains.



The fixed MOLE-DAS system delivers MOLE's combustion intelligence as a permanently installed solution for continuous emissions and performance monitoring. It measures CH<sub>4</sub>, C<sub>3</sub>+ hydrocarbons, CO<sub>2</sub>, CO, NO<sub>x</sub>, and O<sub>2</sub>, converting exhaust data into mass emission rates and actionable insight operators can use to optimize tuning, protect equipment, and improve uptime.

**Always-On  
Intelligence.  
Practical Insight.**

Real-time performance  
visibility.

MOLE-DAS helps teams to:



**Troubleshoot and tune faster**

Diagnostic-grade spot checks and quick validation of tuning changes



**Reduce risk and rework**

Pre-test evaluations and periodic monitoring to catch efficiency losses early



**Operationalize insights**

MODBUS/SCADA integration for visibility, custom thresholds, and alarms



# Real-Time Combustion Indicators for Better Tuning & Uptime

MOLE-DAS goes beyond basic post-stack monitoring by capturing a broader set of exhaust signals and translating them into clear indicators of combustion performance. Through embedded logic and telemetry, it helps teams spot-check engines, identify efficiency losses, and validate tuning changes with diagnostic-grade confidence. MOLE-DAS supports periodic monitoring and pre-test evaluations that reduce uncertainty, protect catalyst health, and minimize unplanned maintenance and downtime. Data can be communicated via MODBUS for seamless SCADA integration, enabling visibility, custom thresholds, and alarm capability.

## Key Benefits:

- + Complete combustion visibility
- + Precision tuning confidence
- + Lower fuel use and longer catalyst life
- + Seamless integration and visibility
- + Reliable field measurements
- + Stronger compliance readiness

## Technical Specifications:

Standard sensor configuration shown. Additional sensor options are available upon request.

Measurements	Range	Accuracy	Resolution	Sensor Type	Sensor Life
Nitric Oxide (NO)	0-500 ppm	+/- 2%	1ppm	Electrochemicle	2+ years
Nitric Dioxide (NO2)	0-500 ppm	+/- 2%	1ppm	Electrochemicle	3+ years
Oxygen (O2)	0-25% Vol	+/- 2%	0.10%	Electrochemicle	5+ Years
Carbon Monoxide (CO)	0-1000 ppm	+/- 2%	1ppm	Electrochemicle	2+ years
Methane (CH4)	0-50,000 PPM	+/- 2%	1ppm	NDIR	10+ years
Carbon Dioxide (CO2)	0-20% Volume	+/- 2%	0.10%	Electrochemicle	2+ years
Propane (C3H8)	0-10,000 ppm	+/- 2%	1ppm	NDIR	5+ years

## THE ENCINO ADVANTAGE

As a service provider, we understand our role in helping clients meet their compliance obligations and achieve their environmental performance objectives. Whether you need one piece of the puzzle, or the entire picture, we can help design and tailor an emissions monitoring and performance program that fits your operational needs, corporate strategy, and budget.

