

ZoloSCAN

Combustion Optimization System

ZoloSCAN is an innovative, laser-based combustion monitoring system that utilizes proven TDLAS technology as recommended by API RP556. ZoloSCAN simultaneously measures the temperature, O₂, CO, and H₂O in real-time, directly in a reformer, ethylene cracking furnace or process heater along multiple laser paths. There are no probes to insert, no sensitive electronics near the furnace, and no calibration required. ZoloSCAN measurements provide a more accurate and reliable representation of the combustion gases present in a furnace than traditional, single-point thermocouples or ZrO₂ sensors.

Key Features

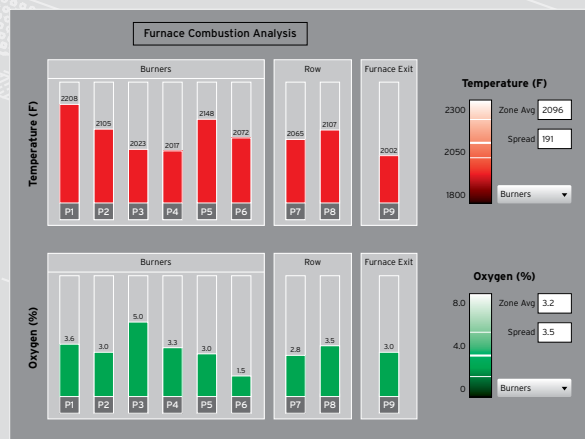
- + Single path, multiple constituents
 - Simultaneously measures temperature, O₂, CO, and H₂O
- + Single system, multiple paths
 - Allows up to 24 measurement paths per ZoloSCAN system
- + Automatic alignment
 - Maintains reliable and accurate measurements

Benefits

- + Increase productivity/output
 - Optimize process temperatures and heat flux profiles
 - Optimize process yield
 - Uniform temperature profiles
- + Fuel savings
 - Lower excess O₂
 - Optimize air/fuel ratio
- + Extend process tube life
 - Eliminate localized hot spots
 - Increase decoking intervals
- + Lower emissions
 - Reduce NO_x and CO₂
- + Safety/sentry
 - Reduce after burning in the crossover
 - Alarms for high CO



ZoloSCAN SensAlign heads (above) automatically realign. ZoloSCAN's interface (below) shows average data for each path and constituent.



Proven Technology

ZoloSCAN utilizes a proven technique known as Tunable Diode Laser Absorption Spectroscopy (TDLAS). Developed in collaboration with Stanford University, Zolo's TDLAS uses multiple lasers—each tuned to the unique absorption wavelengths for a specific constituent. ZoloSCAN has been successfully installed on over 100 industrial applications around the world.

Proven Value

ZoloSCAN TDLAS combustion optimization systems identify combustion imbalances and allow operators to balance and optimize combustion for higher efficiency along with lower NO_x, CO and CO₂ emissions, resulting in higher process yield and product quality. ZoloSCAN TDLAS measures temperature and products of combustion with laser accuracy exactly where control information is needed in as many different locations as required.



Find out what
ZoloSCAN
can do for you.

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