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**

+ Multiple constituents
  - Simultaneously measures temperature, O₂, CO, and H₂O
+ Multiple paths
  - Allows up to 24 measurement paths per ZoloSCAN system
+ SensAlign Heads
  - Automatic alignment maintains reliable and accurate measurements
+ Minimal maintenance

**Benefits**

+ Increase productivity/output
  - Optimize heat flux profiles
  - Maximize furnace availability
  - Increase process yields
+ Fuel savings
  - Lower excess O₂
  - Optimize air/fuel ratio
  - Lower emissions
  - Reduce NOx, CO and CO₂
+ Extend process tube life
  - Eliminate localized hot spots
  - Increase decoking intervals
  - Increase catalyst life
+ Safety/sentry
  - Real-time visibility into startup and shutdown
  - Alarms for high CO

**ZoloSCAN multiplexed TDLAS provides full spatial profiling for ultimate in-furnace combustion control.**
Proven Technology
ZoloSCAN utilizes a proven technique known as Tunable Diode Laser Absorption Spectroscopy (TDLAS). Zolo’s TDLAS uses multiple lasers, each tuned to the unique absorption constituent.

Proven Value
Multiplexed TDLAS laser systems are the industry benchmark for reduced maintenance, reliability, and control of combustion optimization. Zolo systems have been successfully installed in over 100 industrial applications around the world and continue to provide long-term value.

Find out what ZoloSCAN can do for you.
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