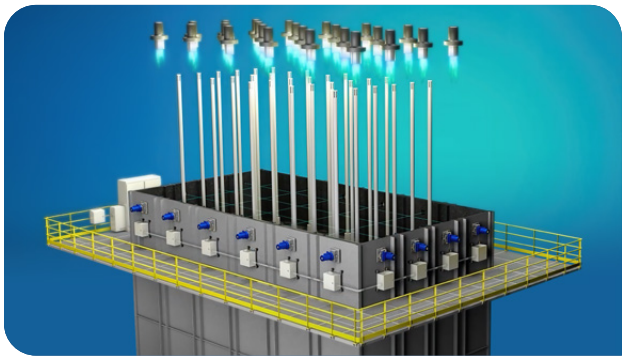
ZoloSCAN2 for Reformers

You Can't Control What You Can't See. Well, Now You Can.

ZoloSCAN2™ Combustion Intelligence for Reforming Heaters

Reforming heaters are the backbone of hydrogen, ammonia, and methanol production.

Their performance drives throughput, fuel use, catalyst life, and emissions. Yet many are still operated with limited visibility—relying on single-point sensors, delayed readings, and cautious manual inspections.



ZoloSCAN2 changes that.

Designed specifically for high-temperature fired heaters, **ZoloSCAN2** delivers real-time, in-situ measurements of combustion gases and temperature—across multiple points, directly inside the furnace.

No probes. No sampling lines. No waiting.

With **ZoloSCAN2**, operators move from reactive to proactive—balancing burners, tightening excess air, protecting tubes and catalysts, and unlocking hidden performance in real time.

Blind Spots Cost Money. ZoloSCAN2 Removes Them.

Reforming heaters are often run conservatively — not by choice, but by necessity. Without clear insight, operators build in wide safety margins: higher fuel input, higher excess air, wider temperature variation. The result? Higher operating costs and lower process efficiency.

ZoloSCAN2 eliminates that blind spot. It provides direct line-of-sight measurements of O_2, CO, H_2O, and temperature, across up to 14 zones inside the firebox and convection section. That means faster adjustments, better balance, and tighter control across your most critical equipment.

Built for Reformers. Proven in the Field.

ZoloSCAN2 is purpose-built for the realities of reforming:

- In-situ laser absorption across radiant and convection zones
- Up to 14 optical paths per system
- Real-time updates, fully DCS/PLC compatible
- Fiber-coupled, Class 1 Div 2 and ATEX/IECEx certified
- No routine calibration and minimal maintenance

In a 900 STPD ammonia plant, ZoloSCAN2 delivered:

- A 3–5 STPD production increase
- Over $700K/year in additional output
- Faster, safer startup with real-time O_2 and CO visibility
- Full ROI in under 12 months

Another customer achieved:

- Over $1M/year in fuel savings
- A 150°F reduction in tube temperature spread
- Up to 20% NO_x reduction, through tighter excess air control

These are not projections. They're field-proven results.

What Traditional Tools Miss

Feature	ZoloSCAN2	Traditional Sensors
Measurement Location	In-furnace & Furnace Exit	Furnace Exit
Gases Measured	O_2, CO, H_2O, + Temp	O_2 or Combustibles
Visibility	Full multi-zone	Single-point
Startup Support	Entire Furnace	Single-point feedback
Maintenance	Minimal	Frequent

Full measurement specs and installation guidance available in the ZoloSCAN2 Technical Datasheet.

See It in Action — Virtually

SCAN TO WATCH OUR VIRTUAL REFORMER DEMO

Explore how **ZoloSCAN2** operates across burners and zones in a simulated environment

Let's Talk. We'll Show You What Your Combustion's Been Hiding.

ZoloSCAN2 isn't just a better sensor—it's a different way to run your reformer. With live data where it matters most, you can reduce fuel, protect your assets, improve startup, and increase yield—confidently and consistently.

CERTIFIED QUALITY

ISO 9001 CERTIFICATION

UKAS MANAGEMENT SYSTEMS 0060

Certificate No. 8180

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