



Siemens Process Analytics SITRANS SL Oxygen Analyzer Volume 2 Issue 3

Siemens Process Analytics: Customer Focus

October 2009

What measures oxygen with no interference?

SITRANS SL Tunable Diode Laser Oxygen Analyzer

The Siemens SITRANS SL sets a new benchmark with in-situ technology for process control – even under extreme measuring conditions. It offers proven technology integrated into a more compact in-situ gas analyzer design.

As a tunable diode laser-based technology this in-situ device enables high-performance measurements. The sensors (transmitter and receiver) are meant to be mounted directly on the process with no need of sampling systems. Laser light is sent from the transmitter, passing through the process gas, arriving at the detector on the receiver side. The measurements are carried out on-line with a very short response time permitting fast and effective cost-savings in process control.

The laser characteristics allow single-line spectroscopy free of interferences. Since the bandwidth of the laser light is extremely narrow, only the gas component of interest will interact with it. Other process influences, such as dust and temperature, are easily eliminated due to the excellent inherent compensation capabilities of this technique.

An in-line referenced cell filled with a non-interfering reference gas, a further development of the already established Siemens TDL technology, provides unique user benefit in terms of minimum need for maintenance and recalibration.

Applications

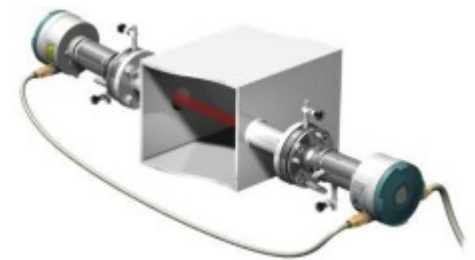
- Process control (chemical industry)
- Process optimization (steel industry)
- Safety monitoring, e.g. measuring minimum or maximum concentration limit for oxygen in explosive-proof environment (refinery, chemical, steel and cement industries)
- Combustion control (boilers, municipal waste incinerators and Power Plants)

Benefits

- In-situ measurements – no gas sampling required
- In-line reference cell – stable instrument operation with outstanding performance
- Dynamic dust load compensation
- Unparalleled cost/performance ratio for single-point measurements
- Fast response time
- Almost no cross interferences
- Low maintenance
- Easy to align and service
- FM certified for Class I Div. 1

SITRANS SL is the perfect solution for single-point O₂ measurement in combustion control, process control, and O₂ safety applications in rough or hazardous environments; maintenance free and recalibration once a year at most.

Direct Contact:



Customer Focus Contact:

Debbie Boatman
Siemens Industry, Inc..
7101 Hollister Road
Houston, TX 77040
Phone: 713-939-3755
Fax: 713-939-9050
Email: processanalytics.industry@siemens.com

Warren Dean
Laser Business Development Manager
email: warren.dean@siemens.com
Phone: 918-662-7339
Fax: 918-662-7052

SITRANS SL Flyer



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