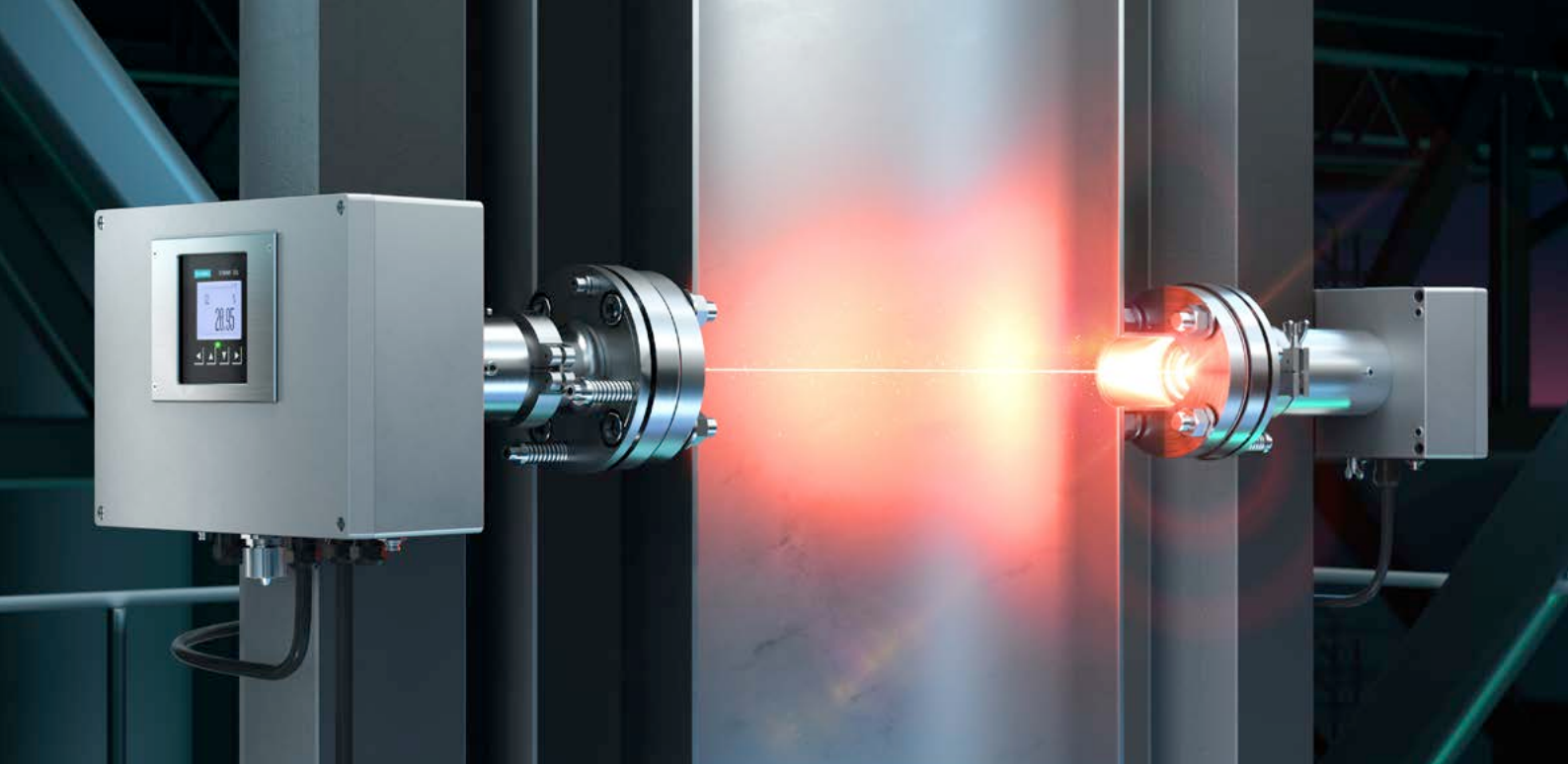




**SITRANS TDL – THE INNOVATIVE CROSS-DUCT GAS ANALYZER**

# The perfect-fit solution for your process gas monitoring applications

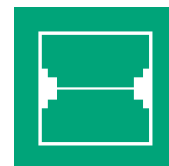
The new **SITRANS TDL** platform is leading you to the future of laser spectroscopy.

**[siemens.com/laser](https://www.siemens.com/laser)**

If you are looking for a robust, fast and stable technology to monitor your challenging process gases then the SITRANS TDL platform is your best choice. It has been optimized for real-time, accurate and reliable measurements to provide the optimum for your process gas measurements.

The **SITRANS TDL** platform concept is designed to be scalable. It can operate in several wavelength regions and can therefore measure many gas components.

Measurement accuracy, availability and stability, predictive and remote maintenance are the keys to the best possible process yield! The state-of-the-art internal features allow for predictive maintenance and remote service activities.



**SIEMENS**

## SITRANS TDL cross-duct analyzer

Based on tunable diode laser spectroscopy technology, the in situ SITRANS TDL offers various advantages compared to extractive analyzers.

### Contactless measurement

There is no need for sample conditioning, hence, chemically reactive gases are measured within their actual conditions and true concentrations.

The proven laser-based measurement design ensures that the process gases never get in contact with analyzer key components. This means that both the light source and the detector are unaffected by the gas stream, keeping all internal parts clean and safe on the long term.

### Line-lock verification

Depending on the process conditions the SITRANS TDL uses a reference gas to line-lock the diode laser on the desired wavelength for the selected gas absorption line. Any minor shift in the observed reference spectrum is used as feedback to adjust the laser, ensuring the proper operating wavelength stability, ensuring the perfect measurement of the targeted gas.

### Excellent selectivity

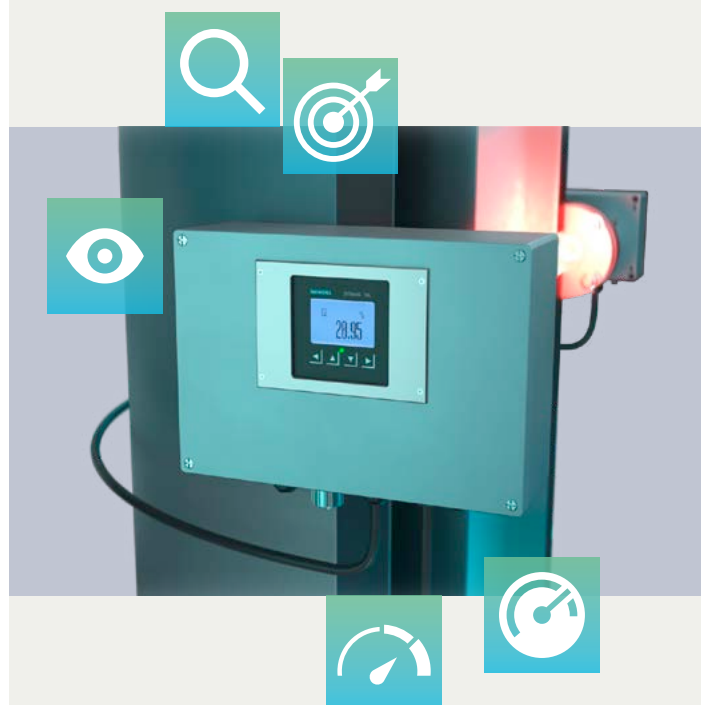
The SITRANS TDL can measure the desired gas components selectively. It may happen that the absorption line of the measured gas is influenced due to the presence of other gases. This influence is compensated by analyzing the full spectral line shape and applying algorithms that correct the potential discrepancies accordingly.

#### Main features

- In situ measurement
- Real-time monitoring
- Flexible platform
- Webserver
- Large variety of communication interfaces

#### Benefits

- No sample preparation
- Fast feedback on concentration changes
- Easy to extend
- Intuitive configuration and maintenance
- Seamless integration into customer plant



“Do you have further questions or need help with a challenging project?

Please get in touch with us.”

**Together we will find the optimal solution.**

**Optical. Precise. Simple.**

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