

LS25, tunable diode laser analyzer

Highest precision for harshest conditions



01 LS25 in-situ laser analyzer

Solution suitable for measurement directly in the process. Typically O_2 , NH_3 (+ H_2O), HCl (+ H_2O), H_2O or CO , CO_2

The laser is selected for a single wave length in the sample gas absorption spectrum, where no cross sensitivity from other gases occurs. The absorption line is scanned and the receiver detects the absorption caused by the measuring component and calculates the gas concentration.

LS25

As an integrated part of the Advance Optima series, the LS25 can be combined with further analyzer modules and completely operated remotely in Ethernet networks. The LS25 holds ATEX and IECEx Zone 1 & 2 as well as CSA Class 1 Division 2 certificates for hazardous locations. Depending on the application, LS25 is suitable for measurements at temperatures of over 1,500°C and pressures of up to 10 bar.

Typical applications

- Process control and safety monitoring
- Combustion control
- Control of flue gas abatement equipment for example, ammonia slip measurements
- Emission monitoring

Typical industries served

- Chemical and petrochemical industry
- Power industry
- Iron and steel industry
- Waste to Energy



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LS25 is an in-situ cross-duct analyzer for measuring gas components concentrations. It applies the highly selective, optical measuring principle of tunable diode laser (TDL) absorption spectroscopy.