

SUGGESTED TOPIC / FACTSHEET

Multi-gas analysis of stack emissions: OFCEAS® technology wins over the market

Background / Topic

In response to environmental challenges and the ever-evolving technology available, many industries are facing increasingly stringent regulations for emission limits. This is where ProCeas LaserCEM® comes into play, a system that uses patented OFCEAS® (Optical Feedback Cavity Enhanced Absorption Spectroscopy) technology. This innovative technological solution from AP2E, a French specialist in industrial gas analysis systems and a member of the DURAG GROUP since 2018, enables more accurate, efficient and sustainable continuous monitoring of gaseous pollutant emissions into the atmosphere. The OFCEAS® technology is based on extractive high-resolution absorption spectroscopy and therefore achieves unrivaled measurement quality in terms of accuracy and resolution for a multi-gas analysis system. The LaserCEM® was designed and certified as a fully pre-calibrated multi-gas analysis system for the continuous, simultaneous measurement of several gases such as HF, HCl, NH₃, CH₄, SO₂, CO, CO₂, NO, NO₂, O₂, N₂O, H₂S, CHOH or H₂O. Installation, operating and maintenance costs remain low and companies can adapt to new legal requirements in a cost- and resource-efficient manner without having to invest in a completely new system.

Given these and other benefits, the technology is already being adopted by many industries where emissions are particularly tightly controlled, including power generation, the chemical industry, metallurgy and waste-to-energy (WtoE) plants. In summary, the modularity and energy efficiency of LaserCEM® with OFCEAS® technology make it a future-proof, scalable solution capable of meeting current and future environmental requirements. With several hundred installations already in operation, this technology promises to become an essential tool for monitoring emissions to the atmosphere and paving the way for a cleaner and more sustainable future.

Detailed information: [Link to the technical article](#)

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