

Emission Monitoring of Greenhouse Gases

An Integrated Analytical Solution to meet your needs



Our contribution to climate protection

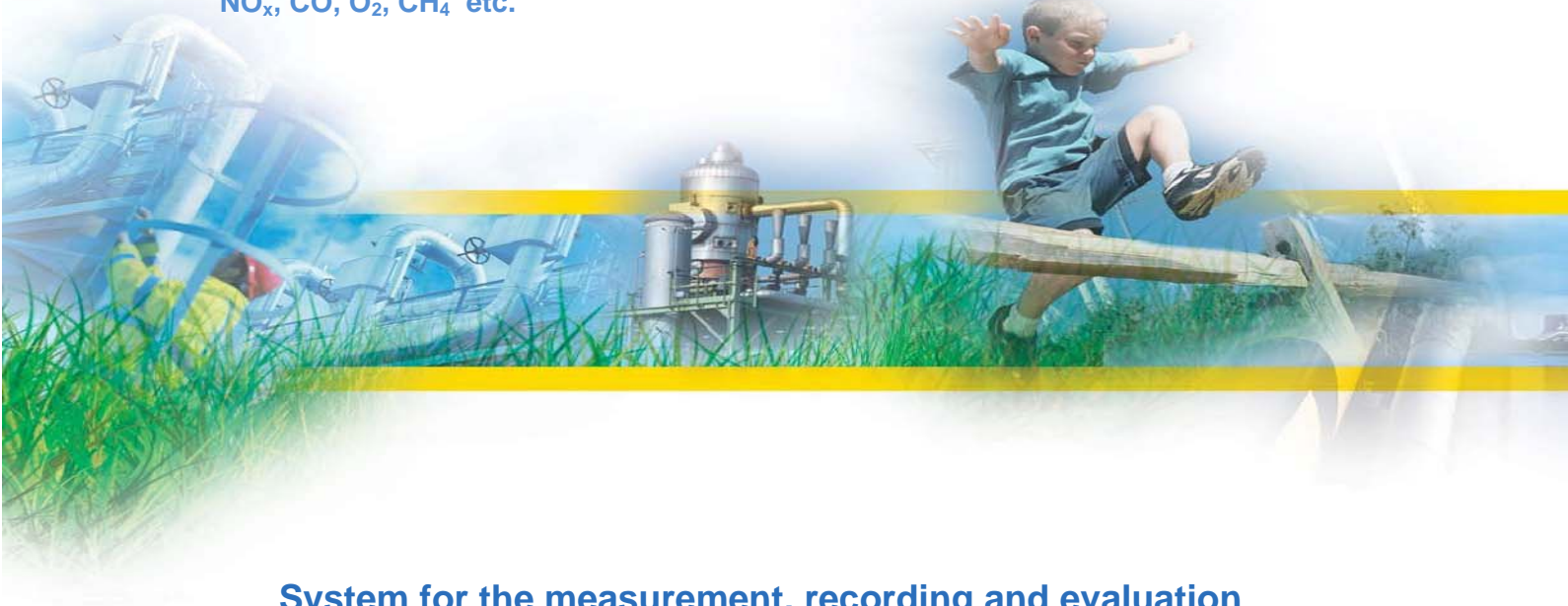
The Kyoto Protocol, a milestone for climate protection which entered into effect in February 2005, obliges the industrial countries to limit the emission greenhouse gases. It also allows for “carbon credit” trading between both compliant and non-compliant countries when total reductions are shown.

The “Approved Methodologies” (AM) of the UNFCCC* specify the project activities for emissions reduction and define the metrological recording and evaluation.

ABB and Applied Controls offers a complete integrated system for determination of the concentration of the greenhouse gas nitrous oxide (N₂O) which complies with the AM requirements. Additional gases that can be measured include NO_x, CO, O₂, CH₄ etc.

Typical area of use

- ◆ AM-compliant determination of the concentration of the greenhouse gas nitrous oxide
- ◆ Chemical processes such as the production of caprolactam, nitric acid and adipic acid



System for the measurement, recording and evaluation of the N₂O concentration

Worldwide first ABB-CEMS with declaration of conformity according to AM0034

ABB offers a standardized solution whose AM conformity was confirmed by a UN-accredited institute.

The overall solution consists of the following “modules”

- ◆ Automated measuring system (AMS) for continuous determination of the N₂O concentration
- ◆ Volumetric flow measuring system (optional)
- ◆ Data acquisition and evaluation unit

The advantage for you

- ◆ One tailor-made system
- ◆ Reliable and proven gas analyzer with automatic calibration
- ◆ Adapted sample and processing
- ◆ Software for quality assurance and control according to EN14181-QAL3
- ◆ Easy to maintain and service
- ◆ Remote maintenance
- ◆ Maximum availability

*UNFCCC-United Nations Framework Convention of Climate Change

Reliable emission monitoring of N₂O

Proven analyzer technology of the Advanced Optima series

- ◆ AO2000-Uras26 analyzer, NDIR photometer
- ◆ Automatic calibration by calibration cells
- ◆ With EN14181-QAL1 certificate

Volumetric flow determination

- ◆ Probe for differential pressure, absolute pressure and temperature

Sample Conditioning

- ◆ Sample probe with application specific primary conditioning
- ◆ Heated sample gas line
- ◆ Sample gas cooler and feed-in unit with internal bus communication to the analyzer



Data acquisition and evaluation unit

- ◆ Data logger with storage (option)
- ◆ Server PC with redundant power supply (option)
- ◆ Software for quality assurance and control according to EN14181-QAL3

Easy to maintain and service

- ◆ Remote visualization and maintenance module for worldwide access
- ◆ Worldwide service network



Analyzer technology is our strength

ABB is one of the leading international companies in the field of analyzer technology. Thanks to decades of experience, we can develop innovative instruments and systems to meet your company's individual requirements.

And with our Authorized Systems Integration Partner Applied Controls you can be confident knowing the system will perform to your specifications.

Naturally, after any purchase after-sales services are just as important to you, as they are to us. That's why Applied Controls offer you a broad spectrum of Specialized services, such as: continuous maintenance, analyzer modifications and troubleshooting etc. We'll be pleased to put together an individual service package for you.

Tradition and innovation

More than 75 years of experience in the development and production of analyzers as well as regular contacts with our customers are the basis for our innovative solutions – which have always been the market leader.

Under the brandname “Hartmann & Braun”, our products for the continuous measurement of process gases have gained an outstanding international reputation and represent the leading edge of technology. Since then, analyzers with the names Uras, Limas, Caldos and Mag-nos have enjoyed worldwide acclaim and stand for the highest efficiency.

Today, more than 50,000 of these analyzers have been installed in virtually every industry – around the world.

ABB and Applied Controls is your Partner: From consulting to project planning, from system installation to after-sales service.



An Authorized Systems Integration Partner

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