



Expertise for analytical technology
From analyzers to complex solutions



Our expertise – your head start

Analytical technology by ABB ensures quality

ABB analyzers are successfully operating in almost all industries inclusive power generation.

As the international leader in cutting-edge analytical technology, ABB offers you a wide range of different analyzers for all kinds of applications. Relying on more than 75 years of experience, we support you with innovative ideas and individual solutions.

Your partner in analytical technology

We develop instruments, systems and solutions tailored exactly to your needs to give you a real competitive edge. We provide you with detailed consulting in complex measuring tasks and always come up with the right solution:

- We advise you on the measuring method that's best suited to your purposes.
- We come up with the proper analyzer.
- We provide the proper sampling and condition of samples for optimal measurement results.
- We build your complete analytical system.
- And, last but not least: We perform precise tests on all our systems, before we assemble them at your site.

We offer you

- Consulting
- Engineering
- Factory acceptance tests
- Project management
- System set-ups and assemblies
- Documentation
- Commissioning
- After-sales services

Convincing arguments

Apply our solutions for your purposes and optimize your production processes with ABB. Our mission is to be your dependable partner, because, together, we can achieve more:

- Increased production capacities
- Increased efficiency
- Increased profitability

We're here to help you – come talk to us!

Always the right choice – your competent ABB team

Interdisciplinary teams

Concentrated know-how for concentrated performance – that's our principle when we put together our teams. Our staff consists of experienced, motivated and competent project managers and engineers from the most diverse areas of expertise. Chemists, physicists, electrical engineers and IT system technicians work hand in hand, so you can count on optimal results.

Expert knowledge in analytical technology

As distinct experts in analytical technology, we incorporate our expert knowledge into all details – from spectroscopy to chromatography, there's no field we're not familiar with. Our collective know-how enables us to quickly and efficiently choose and apply the analytical measuring method best suited for specific industrial applications in a quick and efficient manner.

We also gladly handle the complex design of complex analyzer networks and additionally integrate them in control systems and higher-level logic controls – giving you advantages in form of remote maintenance and remote diagnostics, for example.

A safe handle on the protection of environment and climate

Our experts also provide you with detailed consulting on the increasingly important aspect of protecting the environment and climate with regard to issues such as:

- Emissions monitoring as well as data acquisition and evaluation
- Federal government guidelines
- International guidelines on climate protection based on the regulations of the Kyoto Protocol

Tailor-made solutions for the industry

We offer individual concepts and solutions for the following fields and industries:

- Refineries and petrochemicals
- Chemicals and pharmaceuticals
- Metals, minerals and cement
- Automotive industry
- Power generation
- Semi-conductor industry
- Environmental analysis

Innovative instruments and systems

Intelligent and efficient technology for maximum profitability – the ABB product portfolio for analytical technology:

- FTIR/NIR spectrometers
- Continuous gas analyzers
- Calorific-value analyzers
- Process gas chromatographs
- Process photometers
- Physical-property analyzers
- Complete analyzer systems

Individual services

Quality, know-how and reliability of the highest grade. Our services are subject to the same uncompromising standards as our products and systems are. From commissioning, on-site technical support right up to modernization and revamps, we're always by your side with our expertise, individual service and partnership – worldwide.



Examples of our solutions

Power plant – cost reduction in maintenance

Requirement:

Realization of a state-of-the-art maintenance concept to reduce operating costs.

Realization:

Implementation of an asset management system with remote maintenance for ca. 50 analyzers in the Ethernet network that are used for measuring O₂, pH, dust and conductivity. ROI within one year.



Climate protection – monitoring of greenhouse gases

Requirement:

AM-compliant analysis of the concentration of the greenhouse gas dinitrogen monoxide N₂O.

Realization:

Standardized complete system consisting of an automated measuring system (AMS) for continuous analysis of the N₂O concentration, a measuring facility for flow volume, a unit for data acquisition and evaluation, and a remote monitoring and maintenance module.



Emissions monitoring – emissions evaluation system

Requirement:

Compliance with federal guidelines on emissions monitoring pursuant to Federal German Regulations on Air Purity (TA-Luft), 13th, 17th, 27th, 30th and 31st Federal Regulation on Immissions (BImSchV).

Realization:

Emissions calculator with data logger for reliable capture and analysis of measurement data, long-term storage and data transfer to the inspecting authority.

Gas production – quality control

Requirement:

Purity measurement for certification purposes following the filling of a tank truck, control of the process and data integration in the quality management system of the corporate head office.

Realization:

Installation of an automated system with the option of remote maintenance, consisting of 7 analyzer houses with 11 linked analytical systems in 6 different facilities, full project management for hard- and software.

Cooperation for the future

When it comes to analytical technology, ABB offers a long and successful tradition, excellent products, innovative technology and superb achievements in research. The close cooperation between product management and product development at our international production sites Frankfurt, Lewisburg and Quebec and with system integration facilities in Houston, Shanghai and Telford enables us to exchange knowledge on a global basis – for the direct profit of our customers and partners.

Raise your technological edge to new levels with ABB – we look forward to working with you.



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