

Solutions for
Process Analytics

A photograph of an industrial plant at night, illuminated with green and blue lights. The plant features several large, complex structures with scaffolding and piping, set against a dark blue sky. The overall scene is industrial and modern.

process ANALYTICS

The Siemens logo, consisting of a white square with a white cross inside, positioned in the bottom right corner of the page.

SIEMENS



Siemens Process Analytics

Customized solutions for every task

For well over 40 years, Siemens Process Analytics has been working with its customers to develop and implement efficient, durable and inexpensive solutions for defined analytical tasks. Together we have created solutions for optimizing processes, increasing reliability, and improving product quality and system availability for a wide variety of industrial sectors.

Around the world, we continue to gather, process and pass on our extensive knowledge and experience on applications – from specific knowledge of processes in the oil and gas, chemical, power and cement industries, for example, to knowledge of the analytical requirements in waste incineration plants.

We consider the users of our solutions to be our partners: their tasks define the technology we must provide, and their needs are the first link in our chain of innovation. That's why Siemens Process Analytics has always maintained close contact with users in the industry, with industrial associations and with research facilities. In joint working groups, we develop proposals and collaborate with users to turn these ideas into innovative solutions.

Our customers know they get a competitive edge with Siemens as a partner – and will be able to keep it. That's because we support them with:

- Application-oriented knowledge
- Customized solutions
- Powerful devices and systems
- Our international presence

Siemens Process Analytics – the basic principles of our corporate policy

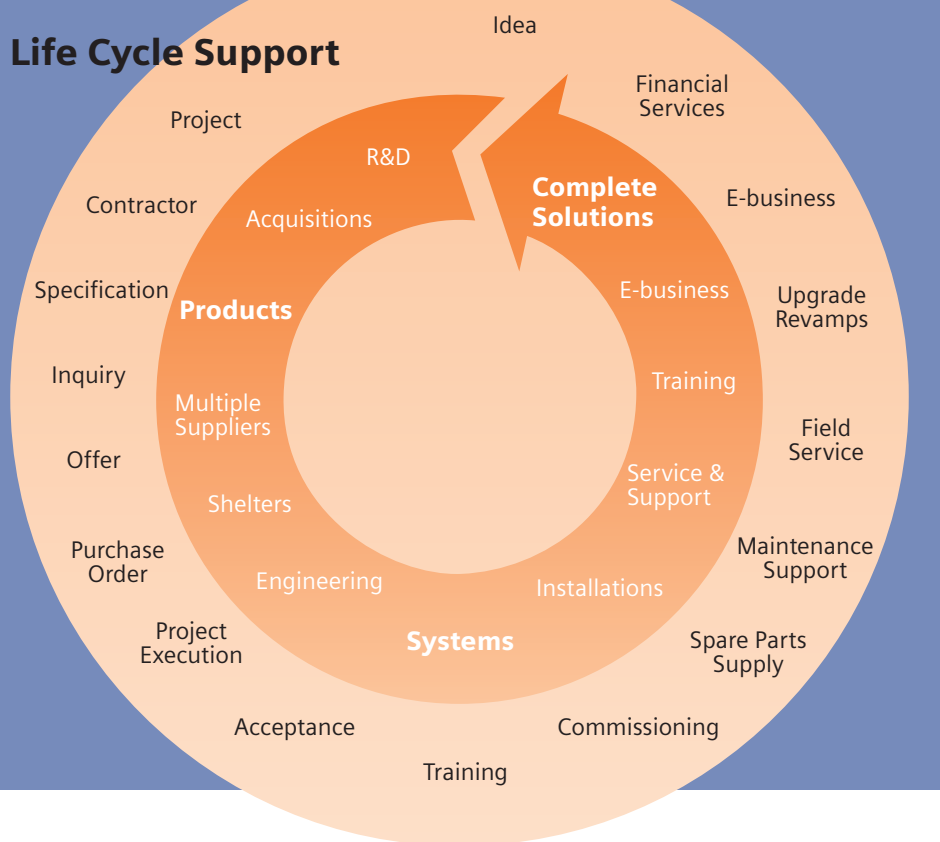
Siemens Process Analytics is a leading provider of process analyzers and process analysis systems. We offer our customers worldwide the best possible solutions for their applications based on innovative analysis technologies, customized system engineering, sound knowledge of their application and professional support. And with Totally Integrated Automation, Siemens Process Analytics is your qualified partner for efficient solutions that integrate process analyzers in automation systems in the process industry.





Our solutions:
Innovation plus a broad range of products

Life Cycle Support



Range of services

Users need to create efficient processes and expect us to support them in that task with an innovative range of services. At the same time, they need existing installations to remain fully operational over the long term and want to safeguard the investments they've already made.

These are reasonable expectations, and ones which Siemens Process Analytics takes very seriously. They have long been reflected in our product policy. We work to provide innovative products based on state-of-the-art technology while at the same time ensuring compatibility, availability of spare parts, and service. You can be sure that innovation and safeguarding your investments are much more than just slogans at Siemens Process Analytics.



MAXUM edition II



MicroSAM

Products

In state-of-the-art process analyzers the technology used is determined by the needs of the specific application. Devices must be cost-oriented, functional, intelligent, space- and energy-saving, and must provide just the right amount of power to meet all needs – but not more.

Siemens Process Analytics offers a wide and innovative portfolio designed to meet all users expectations for comprehensive products and solutions. We combine an outstanding expertise in developing high-performance analytical devices with a broad and deep application know-how from almost any process industry.

■ MAXUM edition II

Synergy at work for the user – being the benchmark in process gas chromatography MAXUM ed. II provides unrivaled versatility with state-of-the-art analytical performance.

■ MicroSAM

The newest process gas chromatograph – small but powerful, installed directly at the sampling point

■ SITRANS CV

This natural gas chromatograph has been especially developed for fast, exact and reliable determination of calorific values. Based on the proven MEMS (micro electro mechanical systems) technology of MicroSAM and an operation software which is specially designed for fiscal metering purposes the analyzer combines reliable technology with high ease of use.

■ Series-6 process gas analyzers – ULTRAMAT, OXYMAT, CALOMAT, FIDAMAT

IR gas analysis and paramagnetic-oxygen, thermal-conductivity and FID measurement – a complete series offering the widest variety of applications, the fastest response times and extensive diagnostic options

■ ULTRAMAT 23

Multicomponent gas analyzer with an excellent price/performance ratio and a unique AUTOCAL function for standard applications

■ LDS 6 in-situ laser technology

Fast and highly available in-situ process measurements including at high temperatures, unaffected by dust or interference

■ FLK-Gas Sample Probe

A specially designed extraction probe for cement rotary kilns with liquid to air cooling.

The cooling of the probe is done by means of a special cooling liquid which allows gas sample temperatures up to 200 °C and therefore lies above the acid dew point of the flue gas. Buildup of condensate products and offtime due to frequent maintenance are prevented.



ULTRAMAT in field housing



OXYMAT 61



ULTRAMAT 23



LDS 6



FLK-Gas Sample Probe

Focus on viability into the future: Our services and support



Support means customer service

For us, customer support means communicating knowledge – and is an essential part of our business relationship! Not even the best IT technologies can take the place of personal communications between individuals.

That's why Siemens Process Analytics is so committed to providing dedicated Siemens contacts on site and in our Competence Centers. These contacts pass on to customers many decades worth of knowledge in device engineering, applications and global solutions, and ensure that best practice sharing is truly put into practice. Our experienced staff is skilled in implementing efficient solutions for defined tasks using existing technology, while at the same time keeping costs within reason.

For us, service means just that! The actual purchase is only one of many deciding factors affecting the costs and benefits of a process analyzer or solution over its entire life cycle. Benefits such as device availability and measurement quality, as well as overall costs, are increasingly determined by the services necessary for planning, assembly, installation, maintenance and calibration. Siemens Process Analytics is aware of these aspects and offers a comprehensive range of services worldwide from which users can select exactly what they require.

As an international company, we're available around the clock. To ensure effective service, we offer well-trained staff – available flexibly and at short notice – together with superior spare parts logistics. But in addition, we also offer technical information on the Internet at all times and from any location, plus the support of specialists in Competence Centers, and the increased capability of the devices themselves to supply diagnostic information through the analyzers for remote servicing.





Equipment development and manufacture

By coordinating product development and manufacture based on the highest quality standards, we can ensure:

- Maximum cost-effectiveness
- Top analytical performance
- Maximum operational safety
- Minimal operating and maintenance costs

Quality always pays, especially over the entire life cycle of an installation, ensuring reliability for control and process optimization and safety for personnel and systems.

System setup

Beyond our excellent expertise we offer customized services and solutions from front-end engineering and design (FEED) up to fully air-conditioned analyzer shelters. Working together with users, our specialists plan analysis systems and implement them with state-of-the-art process analyzers, and use their own extensive experience to ensure that all details for the individual application are taken into account.

Our services include:

- Consulting, design engineering and planning
- Support for obtaining approvals
- Individualized sample preparation
- Engineering and documentation
- Production in Houston, Karlsruhe and Singapore
- Communication and integration in control systems
- Installation, commissioning and service
- Spare parts
- Training of plant personnel

Siemens Process Analytics has consistently developed this expertise on all levels and is standing by around the world to provide you with analytics specialists with many years of experience and industry know-how.

Totally Integrated Automation

Process analyzers integrated in automation systems have long been a reality at Siemens. Process analyzers are part of a system's process instruments, and their measurement data is part of the information required for efficient and reliable system operation. Today analytical devices are also expected to provide comprehensive solutions in field bus technology with end-to-end communications, engineering and data management. Process analyzers from Siemens Process Analytics are equipped with interfaces to the latest communications systems and, as part of Siemens automation technology, are a component in the proven "Totally Integrated Automation" platform concept.

Presence and expertise: Available for our customers around the world

As part of a future-oriented, globally active company, Siemens Process Analytics maintains a global presence. It supports its customers through numerous subsidiaries with analyzer and service specialists around the world, with additional support coming from our five strategically located Analytical Competence Centers. Through this global network of competence Siemens ensures that its products, consulting services and system integration capabilities are available to its customers everywhere and at any time.

In this way, Siemens Process Analytics can offer products, systems and services around the world that are both consistent and customized.



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