



SIMATIC PCS 7 takes you beyond the limits.

SIMATIC PCS 7

Answers for industry.

SIEMENS



Your benefits

Performance

Scalability

Integration

Safety & Security

Innovation

Modernization

Global Network of Experts



The process control system SIMATIC PCS 7

In today's world, time is short when reacting to ever-changing global trends, very demanding market conditions, and the resulting economic consequences. Maximum flexibility is in great demand!

Reducing Total Cost of Ownership, increasing productivity, optimizing your production output and quality, meeting legislative requirements ... How can you be sure to meet the constantly increasing demands in your plant and its environment? With a process control system that can keep pace. This is the key to controlling your entire production.

The process control system plays a major role in meeting increased demands in your production facility and in achieving your business goals at the same time.

SIMATIC PCS 7 offers more than a conventional process control system: a scalable system architecture, high-performance engineering tools, additional features such as Alarm Management, Process Safety, Asset Management, a flexible modernization strategy of previously installed systems – all of these are unique advantages your business will benefit from.



Worried about winning the race?



Not if you have the system with the highest performance.

Performance

High-performance system components, redundancy on all levels, and engineering tools that are easy to use – this is how SIMATIC PCS 7 offers you more reliability and increased performance across your entire system and the entire life cycle of your plant.

What can better drive your system's performance than a highly redundant, fault-tolerant system that ensures maximum availability? SIMATIC PCS 7 engineering tools offer easy implementation of Advanced Process Control (APC), holistic Alarm Management, process simulation, and much more. With Flexible Modular Redundancy (FMR), you may flexibly define the level of redundancy and fine-tune it to fit your needs. This way you can run your plant at a higher degree of efficiency.

Your benefits with optimized asset performance

- Increased plant availability with Flexible Modular Redundancy at all levels and with no single point of system failure
- Help keep your capital equipment/plant assets operating at peak performance
- Increased productivity and faster reactions to change in conditions with powerful engineering tools, fast controllers, and fast networks
- Reduced Total Cost of Ownership and life cycle costs with reduced design, engineering, installation and commissioning
- Optimized productivity of key personnel such as operators, engineers, and maintenance
- Optimized processes with minimized product variability and consumption of raw materials



Always competing in the same class?

Scalability

An automation solution's scope and performance should always perfectly match your production requirements. You need maximum flexibility so your plant operator can react fast to constantly changing market demands. With its unique scalable architecture, SIMATIC PCS 7 can fit any plant size – from the lab to complete production plants.

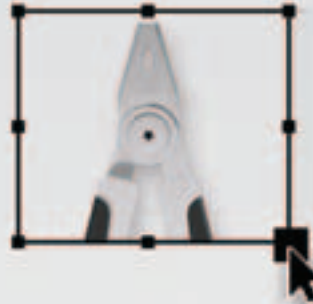
Your benefits with applications for all sizes

- System grows with the plant from pilot plant to full-scale facility
- Continuity with the same engineering tools and same "look and feel"
- Minimized risk by buying and using only what you need and when you need it
- No re-training and easy, fast, and cost-effective "scale-up"
- Reduced Total Cost of Ownership regarding hardware, engineering, training, and maintenance



Not if your system knows how to grow with you without losing your rhythm.





Feeling you don't have all the tools you need?

Integration

Integration is one of our innovative process control system's core strengths. With SIMATIC PCS 7, all automation processes may be integrated into a single system, optimizing all the processes in your enterprise over the entire life cycle of your plant, resulting in a lower Total Cost of Ownership.



Not if your system delivers all tools tightly integrated.



With SIMATIC PCS 7, we follow a consistent holistic integration approach. Your system can be optimally designed to your requirements, enabling fast and seamless integration of all system components – from integration of basic modules all the way to third-party systems. What does this mean for you? Access to all data, when and where you need it. This significantly reduces downtimes, increases your plant's efficiency, and reduces operational costs.

Your benefits with integrated concepts

- Access to all information; the right information in the right place, at the right time
- No automation islands with all plant areas visible
- Uniform visualization across your facility with a common view
- Everything works together with reduced operator training and increased employee utilization
- Reduced Total Cost of Ownership and life cycle costs by reduced design, engineering, installation and commissioning, and improved diagnostics

Always worried
about the road ahead?

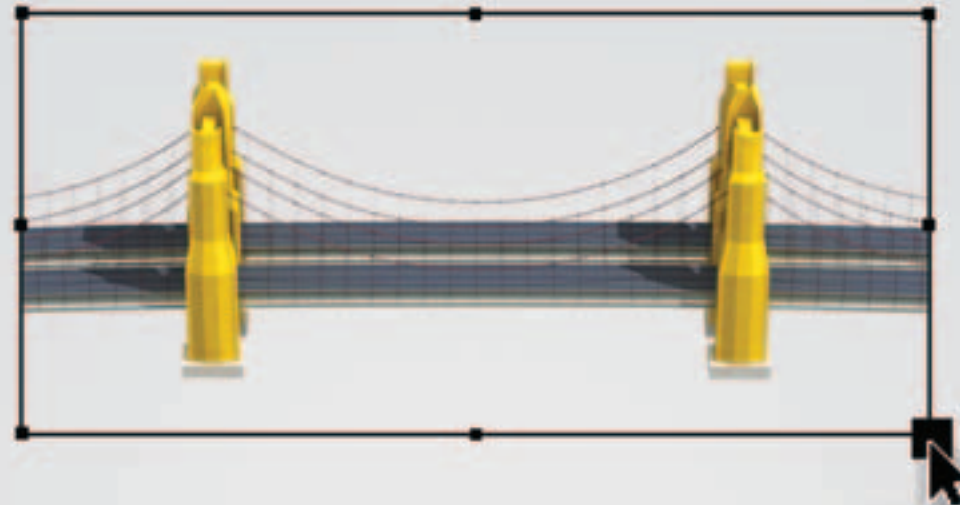


Safety & Security

Hacker attacks, computer viruses, and data spying – these are the negative side effects of continuous globalization and worldwide networks. With SIMATIC PCS 7, its Safety Instrumented System, and the integrated IT security concept, possible accidents and intolerable risks are things of the past.

In the process industry, every fault or malfunction can have fatal consequences for humans, plants, or the environment. Therefore, they must be avoided. The SIMATIC PCS 7 safety concept is based on a holistic approach to ensure comprehensive plant safety. It not only comprises individual safety and security

functionalities such as data encryption or firewalls, but also a number of functions that seamlessly fit together. Entirely integrated safety functions of SIMATIC PCS 7 offer you peace of mind, leaving you to concentrate on what really matters – running your plant in a manner that will make you meet all demands in your industry.



Not if your system is designed to keep your future safe and secure.

Takes you beyond the limits

Your benefits for safe and secure environments

Safety

- Maximized risk reduction to avoid accidents for personnel, plant, and environment
- Fulfill regulations of safety life cycle

Security

- Bundling of key security measures to a deep hierarchy of security known as "defense in depth"
- Increased plant availability with defense-in-depth solutions, software virus protection, firewalls, virus scanning, and security settings



Grounded by
conventional wisdom?



Innovation

Siemens strategy is to foresee further market changes
and to meet them with technological innovations.



SIMATIC PCS 7 takes you beyond the limits.

Innovation has always been one of the most important elements in our business strategy. It is part of our everyday job to develop new technologies, de-facto standards, and indispensable features for industrial automation markets. With SIMATIC PCS 7, we are following a holistic innovation strategy to help you reduce your costs, increase your profit, and reach your business goals. We want to enable you to take a leading position in your market field by setting decisive trends.

Your benefits for advantages in the marketplace

- State-of-the-art solutions with tomorrow's technology today
- Minimized risk and future-proof
- World's leading innovative automation supplier
- Internally developed core technology and standard-based design ensure your system is future-proof

Stuck in the past?



Modernization

With SIMATIC PCS 7, we give you good reasons to change your legacy DCS. Our stepwise, adaptable, and flexible modernization strategy not only works for Siemens' own control systems, but also for third-party systems.

When modernizing your plant we focus on the optimum utilization of existing components. Existing assets that still have an added value are integrated or reused while others are replaced or exchanged.

Timing plays an important role as well. Modernizing too early can call for unnecessary costs and expenses; modernizing too late can have negative effects on your productivity. With our modernization strategy, we will help you find exactly the right moment.

We always tailor the modernization process exactly to your needs – this is how unnecessary production downtimes and high operational costs can be avoided.

Not if your system knows how to move into the future.



Your benefits with step-by-step transition

- Proven solutions with optimized system changeover and step-by-step transition to newer, more productive technology
- Reduced risk with operator "buy-in" and only changing what you have to
- Experienced, reliable partners and dedicated migration support centers



Think you're all alone out there?



Not if your system is connected to a global network of experts.



Takes you beyond the limits

Global Network of Experts

Those who decide on SIMATIC PCS 7 and Siemens can rely on a dependable, worldwide partner with comprehensive know-how and many years of experience in process automation.

During our many years of experience in process automation, we have worked very hard to build up a network of partners and process experts, who are interconnected as closely as possible. The more granular the network, the shorter our response time – this is what we believe in. To implement our support and services we trust in our own system specialists or in authorized service partners. The cooperation with system integrators and partners plays a decisive role for success, especially in the process industries. Siemens has specifically developed a partner program that combines all the best from technology and application know-how with experience and comprehensive product and system knowledge.



Your benefits in over 190 countries

- Local connection to strong partners
- Global presence and local service
- Access to qualified resources for all industry sectors
- Quick response
- Complete support
- 24/7-round the clock helpline

SIMATIC PCS 7 and more ...

SIMATIC PCS 7 offers you so much more. As a key component in Totally Integrated Automation our innovative process control system is seamlessly integrated in the consistent automation of an enterprise's entire process chain – from order entry to delivery.



... Totally Integrated Automation



With Totally Integrated Automation (TIA), Siemens is the only provider of a complete portfolio of products, systems, and solutions for all hierarchy levels of industrial automation – for all areas of process and discrete automation. TIA distinguishes itself by its unique continuity. This feature is integrated into all your products and systems. With a perfect interplay of all automation components, the complexity of the entire automation solution may be significantly decreased.

Reducing interfaces ensures highest transparency from the field level via the production level all the way to the corporate management level. The further development of our products and systems guarantees you a high level of investment security when modernizing your plant.

More information at: www.siemens.com/simatic-pcs7

Get more information

www.siemens.com/simatic-pcs7

Siemens AG
Industry Sector
Industry Automation
P.O. Box 48 48
90327 NUREMBERG
GERMANY

www.siemens.com/automation

Subject to change without prior notice 04/08
Order No.: E20001-A227-P280-X-7600
DISPO 06303
2100/9183 MK.AS.PS.XXXX.52.8.13 WS 04083.
Printed in Germany
© Siemens AG 2008

The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.