

The solution package offers a completely pre-assembled process control system based on the standard components of SIMATIC® PCS 7. It is designed for implementation of modern technology quickly and cost-effectively in small and medium plants of the water industry.

The challenge: Operational reliability and cost optimization throughout the entire plant life cycle

Apart from a few large plants, the water industry in Germany is characterized by a dense network of several small and medium water and wastewater treatment plants. To ensure smooth operation, operating personnel need access to all necessary information at all times in order to reliably intervene in the process as needed. However, the cycles of innovation of the underlying hardware and software components are continually becoming shorter – which is why it's necessary to invest in up-to-date systems. A future-proof solution must be designed both for high operational reliability and for optimized costs for ongoing system maintenance. The basis for this is transparent, consistent end-to-end engineering as well as integrated functionalities for optimizing operational monitoring.



Good reasons for small plants based on SIMATIC PCS 7

- **Increased operational reliability** thanks to stable automation and a uniform interface for monitoring and operating all plants. Personnel can reliably intervene in the process as needed.
- **Minimal constraints in ongoing operations** through fast implementation of a pre-assembled solution package.
- **Reduced costs for system maintenance** throughout the plant life cycle as a result of a transparent and consistent engineering concept.
- **Long-term safeguarding of investments** through expandability and openness to the implementation of additional solutions.

A smart solution for small and medium plants of the water industry

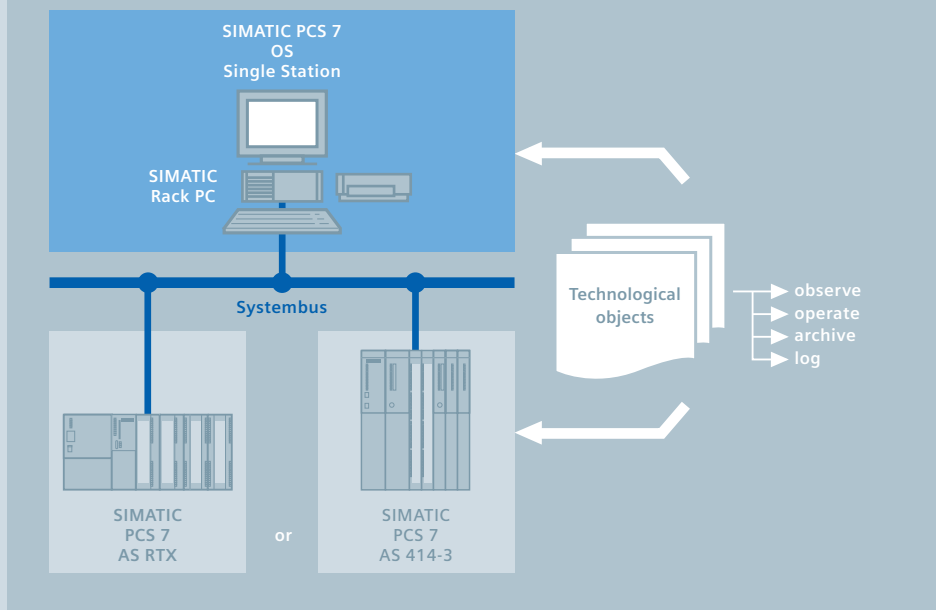
A pre-assembled control system based on SIMATIC PCS 7

Our solution: Everything you need in a process control system – installed quickly and open to future developments

We offer a solution package that's based on the proven SIMATIC PCS 7 process control system for consistent automation and monitoring of water technology plants. It is designed precisely for the needs of small and medium plants of the water industry.

The process control system is completely pre-assembled and consists mainly of two standard components: the automation station (AS) and the process control computer.

The system is delivered pre-installed and ready to use. Suitably coordinated and system-tested modules for the automation device as well as the operator-process control and monitoring – completed with a supplied sample for visualization – merely require simple and fast parameterization. Communication between the automation controller and process control computer takes place via Ethernet.



The use of pre-defined standards allows the solution to be implemented quickly in a running plant. The uniform operating, monitoring and archiving philosophy enables quick response to special incidents and ensures the operational reliability of the plant.

Open for additional solutions

The trend toward centralized monitoring of several distributed plants requires stable automation and a uniform interface for monitoring and operating all plants. That's why a control system should provide the option of connecting the plants to a primary control room. This feature is already included in the solution.

Existing solutions such as the connection of telecontrol technology or optimization solutions can be integrated easily. Additional or innovated products can be integrated just as easily – without having to completely replace a level. This helps to safeguard investments for the long term.

Completely Integrated Solutions

Completely Integrated Solutions bundle our entire range of products and services for your plant.

In particular, they help you by

- **Optimizing** the entire process chain – with plant solutions including technology, automation, electrical engineering and environmental technologies
- **Connecting** all IT levels of your company – with IT and management solutions from production to the planning level
- **Supporting** you throughout the life cycle – from consulting through commissioning and training onward to modernization.

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