

next Generation



Completely Integrated Solutions
for the Water Industry

SIWA^{CIS} PIPE

Keeping water flowing
reliably and efficiently

Your Success is Our Goal

SIEMENS

Industrial Solutions and Services

SIWA^{CIS} PIPE monitors, controls and optimizes water transport from extraction to the end user. Integrated in a modular system, its components perform all the related measuring, open-loop and closed-loop control tasks – from measuring systems to energy generation, from simulation to automation and from monitoring to communication. And all this over the entire life-cycle of the system. As part of our SIWA^{CIS} family of products for the water industry, SIWA^{CIS} PIPE provides you with an outstanding solution that seamlessly complements other SIWA^{CIS} products.

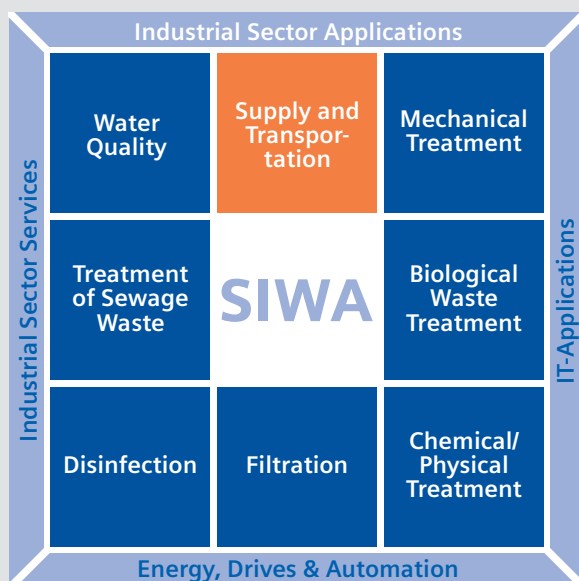
The challenge

Increasing competition in the area of potable-water is forcing plant operators to continuously analyze the costs and reliability of supply. Especially in conurbations, this means that it is necessary to critically examine the often long distances between extraction source and consumers

and to achieve the following goals without impairing the supply process:

- to run your existing plant in the best point efficiency,
- to manage dynamic changes in demand with minimal expenditure,
- to detect and locate water losses, even < 3%, quickly and reliably,
- to adapt and expand your installation easily and flexibly in the face of operational necessities, and
- to utilize your personnel more efficiently for operation and maintenance.

With the systematic approach of our Completely Integrated Solutions, we offer solutions that will enable you to meet all these challenges successfully.



Six good reasons for SIWA^{CIS} PIPE

- Sustained increase in the reliability of supply, plus safeguarding of your investment thanks to our proven, integrated technology
- More lastingly efficient operations thanks to optimized algorithms and uniform user interfaces for all relevant tasks
- Up to approximately 20% more efficient commissioning and up to 50% shorter execution times when future extensions are carried out
- MTTR (mean time to repair) halved thanks to improved maintenance-friendly design
- Lower costs: up to 10% energy savings in your installation
- Reliable detection and location of water leaks

SIWA^{CIS} PIPE – Our solution in detail

SIWA^{CIS} PIPE uses intelligent control technology to extract the maximum performance from your plant and installations. This applies not only to individual components such as pump stations, pressure control stations, high-level tanks and disinfection equipment but also to the system as a whole. The reason is that the combinative technology of SIWA^{CIS} PIPE integrates all individual elements to form a controllable, uniform system. Intelligent tools also provide you with numerous ways of making your plant and equipment safer, more flexible and more efficient.

Lasting increase in safety

SIWA^{CIS} PIPE incorporates comprehensive, proven technologies for maximum efficiency with minimum use of personnel. And it can be expanded at any time. The use of standardized modules – combined and adapted so that they are tailor-made for your installation – ensures that the economic efficiency of SIWA^{CIS} PIPE is especially high. You only invest in the components and services you really need. Thanks to our migration concepts, you can change over to the new systems in a step-by-step process and continue operating the existing parts of your installations as long as it makes technical and/or economic sense. The fact that the life-cycle of your equipment can be extended by up to 15% is due to the wear-reducing effects of using our SIWA^{CIS} PLAN OPTIM.

Simply more economically efficient

Proven methods of optimization calculation and the tailor-made algorithms in SIWA^{CIS} PLAN OPTIM operate all the machines in your installation such as pumps, reservoirs, tanks and gate valves at their optimum working point. Creating energy savings of up to 10%, SIWA^{CIS} PIPE



combined with its complementary module, SIWA^{CIS} PLAN OPTIM, represent the best possible compromise between enhancing plant performance and minimizing costs. Other benefits are: greatly simplified operation of your equipment thanks to uniform user-interfaces, lower expenditure for training, and a high level of automation as well as the possibility of detecting and locating even the smallest leak that occurs (under 3%) with SIWA^{CIS} PLAN LEAK.

Simply faster

SIWA^{CIS} PIPE also optimizes your system's performance, starting with the commissioning phase. Here, our perfectly matched modules and integrated components are around 20% faster than conventional technologies. We can also prepare and integrate later extensions of your plant with a time saving of up to 50%. The use of matching standard hardware and software components that have proven themselves in practice enables simple, user-friendly maintenance and inspection, thus halving repair times.

Telematics instead of long distance

SIWA^{CIS} PIPE facilitates your work with modern telecommunications. You can control your plant infrastructure from several hundred kilometers away and use video transmission methods to monitor remote field stations or parts of the installation that are difficult to gain access to. Process parameters are manipulated by means of classical telecontrol technology. Moreover, in the event of a fault, you are kept up to date via GSM networks, e. g. the on-duty standby personnel can be informed of the problem by SMS, analyze the fault with telediagnostic tools and then carry out the necessary switching actions and setpoint adaptations.

www.siemens.com/water

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CIS = Completely Integrated Solutions*

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An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

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SIWA^{CIS} – Completely Integrated Solutions for the Water Industry

As a comprehensive industry-specific solution for the water industry, our SIWA^{CIS} product family integrates all the products and services you need for sustained maximization of your plant's performance

For each particular task, a solution has been defined that

- **horizontally** improves all production processes – from the preparation of drinking water to environment-friendly wastewater disposal
- **vertically** integrates the company's information flows end-to-end, helping corporate management to make better-founded decisions
- and **chronologically** lowers operating costs and provides lasting security and economic efficiency – for example with the SIWA^{CIS} PLAN water management solutions and our life cycle services.

Due to this unique combination of horizontal, vertical and life cycle dimensions, our solutions all carry the genes of an exhaustive and sustained plant productivity in their very core.

For More Productivity. More Performance. More Power. Completely Integrated Solutions from Siemens.