

PSIcontrol

Optimal management of energy networks for manufacturing Industry



PSI 



The optimal software solution

For automotive, chemical, steel, aluminum, and other manufacturing companies

Modern manufacturing companies face the challenge of reconciling high energy demand, economic production, and minimal environmental impact. Manufacturing companies can rely on PSI products to achieve this objective.

Besides the electrical energy, the energy used in the production processes (such as steam) plays an important role in the operation of energy networks in manufacturing environments. The network control system PSIcontrol helps manufacturing companies to manage their energy networks on all electrical voltage levels as well as pipe networks for heating, cooling, process energy, air ventilation, gas, and water.

At the same time, we support our customers in achieving their environmental and decarbonization objectives. Our products combine high supply quality and optimal economic efficiency. They avoid outages and minimize standstill of manufacturing plants.

The combination with PSICOMMAND further increases the reliability for manufacturers by integrating intelligent repair and maintenance strategies. In addition, the software supports all fault clearance processes in order to enable fast and correct responses in error situations.

Using machine learning, a high degree of automation, and seamless processes from the control center all the way to tablets are only some of the many benefits of the software solutions PSIcontrol and PSICOMMAND which are optimal for manufacturing companies.

The PSI solutions are based on practical expertise over many years in all manufacturing sectors. Whether it is an individual plant, the combination of several companies into an industrial park, or central management of several plants at different locations: numerous customers in the automotive, chemical, steel, and other manufacturing sectors already implemented optimal management of their energy networks based on our software.



Combining the benefits of the various components results in a powerful solution adapted to your individual processes and systems.

+ Maintenance and fault management:

- + Reducing faults by proactive maintenance strategies for all plants
- + Minimization of fault clearance times by support for identification, resolution, and documentation of faults
- + Multi-criteria optimization by artificial intelligence
- + Emergency and crisis management
- + Support for smart phones and tablets for mobile service staff

+ Cyber Security:

- + Comprehensive system hardening, redundancy concepts, and penetration testing
- + Based on applicable norms and standards

+ Transparency across sectors and stable energy supply for your plants:

- + Network transparency and stability on all voltage levels of the electrical network and in all pipe networks Centralized network monitoring and control for multiple locations and plants in a single network control system
- + Integration of all types of energy (electricity, gas, water, heating, cooling, process energy such as steam, etc.)
- + Fault localization and resolution
- + Integration of a broad range of telecontrol protocols

+ Increased supply quality:

- + Fast responses to power fluctuations in the energy networks
- + Active stabilization of the energy networks and strain relief for staff by complete digitization and a high degree of automation
- + Switching management
- + Advanced decision and optimization functions for optimal supply quality
- + Integration of redispatch measures
- + Integration with production management systems

+ Optimal services for industrial parks:

- + Multitenancy solutions for industrial parks with multiple companies
- + Role and rights based access via web clients, tablets, and smart phones

+ Support for environmental protection and decarbonization:

- + Integration of renewable energy sources (e.g. rooftop photovoltaic generation)
- + Intelligent charging management for electric vehicle fleets
- + Minimization of energy consumption and costs
- + Energy management

+ Comprehensive services:

- + 24/7 service
- + Update & upgrade service, training, etc.

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PSI products go far beyond simple management of energy networks. Also contact us about optimizing your production processes by using artificial intelligence!



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