

**Reliable Performance.
Sustainable Results.**

Intech Aqualogic® Process Efficiency

Your insurance for running a safe, stable and reliable waste water treatment plant.



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|--|---|--|---|
| <p>1 Aqualogic®
Ventilation controller Provision/load computation</p> | <p>2 Aqualogic®
Excess sludge and Return sludge controller</p> | <p>3 Aqualogic®
Phosphate precipitation Carbon sources dosing</p> | <p>4 Aqualogic®
Recirculation controller</p> |
| <p>5 Enerlogic®
Power saving mode Sludge age controller</p> | <p>6 Aqualogic®
Process water management</p> | <p>7 Aqualogic®
Intake management</p> | <p>Aqualogic®
Main controller</p> <p>Aqualogic®
Add-on module</p> |

Aqualogic® offers flexible, on-demand control of all aggregates connected with the biology of your water treatment plant. By recording and evaluating various measured values such as oxygen, ammonium, nitrates and temperature, Aqualogic® constantly calculates and monitors the load conditions and the process environment at the biological stage and controls all the available aggregates in a way that ensures optimal process management at all times. Aqualogic® reacts independently to the load fluctuations and changing process conditions that regularly occur in everyday operations, for example, as a result of weather or time-related influences.

Benefits

- Optimal purification capacity
- High energy efficiency
- Maximum operational safety
- Accounts for different temperature and provision conditions
- Control strategies can be changed without programming
- Controller settings can be adjusted independently at all times to meet the specific needs of your waste water treatment plant
- Supports modular expansion with numerous additional modules
- Non-proprietary (both the connectible sensors and the controlled aggregates)

Function

With 20 years of practical experience, Aqualogic® purifies wastewater from over 5 million residents at around 400 waste water

treatment plants. With Aqualogic®, you can apply complex process expertise and user knowledge to biological waste water treatment,

Function

so that the biological treatment stage of a waste water treatment plant can be optimized in every load situation.

For this purpose we offer numerous add-on modules that ensure comprehensive and seamless optimization of every process and enable the processes to be calibrated with each other based on the current load situation.

Significant advantages over PLC programming

Unlike PLC controller programming, Aqualogic® can be flexibly adjusted without programming at any time to suit changing conditions. The various functions can therefore be changed dynamically, and new modules can be added as needed for expanded control tasks. Furthermore, the control strategies can be changed without programming and new program versions can be loaded easily.

No 'black box.' It is always clear and transparent and can be flexibly adjusted as required

Aqualogic® is designed for clarity and transparency. The screen displays only the necessary

measured values and important notifications. There is no need to intervene in normal situations. However, if it becomes necessary to adjust controller settings or framework conditions, this can be achieved in detail by means of numerous parameters

Various options for integration to suit every plant environment

Aqualogic® can be installed as a standalone automation solution, and the requirements for this are minimal. Aqualogic® has various interfaces and can therefore be integrated flexibly in every plant environment, whether via an existing process control system, a direct connection to the controller/PLC or as a parallel system; it is always possible to integrate Aqualogic® into an existing, non-proprietary automation environment. You can connect any sensor and control any aggregate. As a result, Aqualogic® makes it possible to convert a heterogeneous plant environment into a homogeneous one in which all the components are perfectly coordinated and work together flawlessly.

Results

Installing the Aqualogic® control system and its modules facilitates the comprehensive optimization of every process at the biological treatment stage. This substantially improves the plant's treatment capacity and power consumption and its use of precipitants and other aggregates.

Experience shows that operating the biological stage in a dynamic and load-dependent

manner with Aqualogic® results, on average, in a 20% to 30% reduction in outflow concentrations; in some cases, reductions of over 50% are possible for certain parameters. In addition, operating the ventilation system on demand results in a roughly 10% to 20% reduction in energy consumption. And savings of up to 40% can be achieved by adding auxiliary agents such as precipitants.

Aqseptence Group GmbH Water Processing Solutions

Kettelerstrasse 5-11
97222 Rimpfing · Germany
Phone +49 9365 8082-60
Fax +49 9365 8082-50
intech@aqseptence.com

www.aqseptence.com



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The technical data stated in this brochure are indicative only and have to be determined for each individual case. Reserve technical changes.