



Passavant



We Build Responsibility

A brand of
Aqseptence Group

Advantages of Aqualogic®

- ✓ The Aqualogic® system control is **independent** from the manufacturer and brand of the used measuring probes.
- ✓ Aqualogic® **does not require any additional hardware** as long as a personal computer and SPS are existing and available. If requested, we can deliver suitable hardware out of one hand.
- ✓ Aqualogic® is based on **Fuzzy-Logic** and therefore of **higher value** and **more efficient** compared to other control-systems (e.g. PID-control).
- ✓ Aqualogic® is **more tolerant** towards measuring errors or even total measuring loss.
- ✓ Aqualogic® already includes a **oxygen consumption-control** which is **dependent on temperature** and therefore considers the additional carbon load. In this way, a sensor-loss (e.g. measurement of Ammonium) can be adequately compensated.
- ✓ Aqualogic® will be **individually configured** for each and every treatment plant and therefore adjusted to the specific local requirements.
- ✓ Aqualogic® already **includes the oxygen setpoint control**.
- ✓ Aqualogic® can be operated with **variable measurements systems**. Most common is hereby the control method by measuring O₂, NH₄, NO₃, and temperature *or* by measuring O₂, redox potential und temperature.
- ✓ The control method O₂ / NH₄ / NO₃ of Aqualogic® allows **further energy savings** by varying the oxygen level depending on the ammonium level and, in addition, by allowing a calculation of the starting level of the blowers depending on the ammonium level and temperature. Unnecessary high starting levels (e.g. in winter months) can thus be avoided. Consequently, energy consumption will be reduced and blowers will be preserved. Due to the optimized control, the overall treatment performance will be further improved.
- ✓ Aqualogic® offers the **biggest selection of additional modules**. These can be integrated into existing system at any time very quickly at economic costs.
- ✓ Aqualogic® allows an aeration-dependant **precipitant dosing** and therefore does not require an expensive and maintenance-intense P-analyser. Precipitant dosing via PO₄-P measurement is of course available, too.

- ✓ **Significant precipitant savings** can be achieved through the load-dependent precipitant dosing (with or without PO₄-measurement).
- ✓ Aqualogic® **does not require any upgrade** to a large measurement transmitter if the required sensors do already exist.
- ✓ Operation and visualization of Aqualogic® take place via a standard personal computer and are therefore **very convenient**
- ✓ The modul Alerting can optionally be used as an **alarm function**, e.g. in case of a critical condition of the plant (measured value exceedance or shortfall, rain event, activation of the emergency program, etc.)
- ✓ The modul Alerting includes an external monitoring function, which sends a fault signal in case of an potential computer breakdown of even an local power failure on the plant.
- ✓ **Operation and remote maintenance** of Aqualogic® can be done software based via TeamViewer (including via smartphones).
- ✓ In case a customer requires any help, we offer our **competent and inexpensive support**. If required, we offer a variety of support- and service contracts.

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Read more

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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.