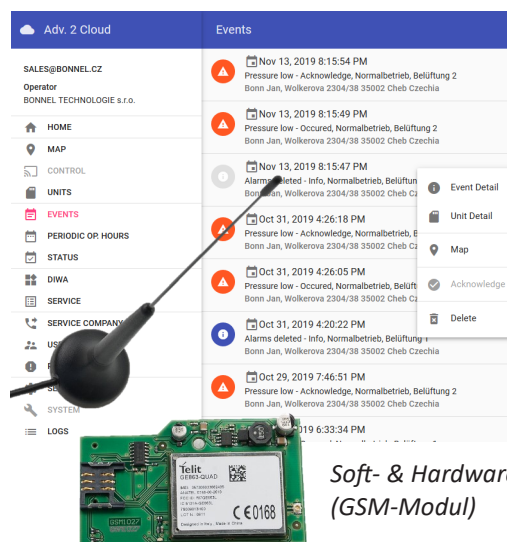# *Aquavisor* Telemetry System

Service optimization and cost reduction of decentralized sewage treatment plants by remote monitoring and remote operation

→ Plant monitoring via 2G/4G or LoRa®/Sigfox®

→ Full remote control

→ Access via web browser

→ Scalable from 1 - ∞ plants

→ Error notification via e-mail

→ Different access levels to the plant data

*Why use the **Aquavisor®** Telemetry System?*

- With the clear-text error messages you know what you can expect on-site

- Remote control allows you to solve problems without leaving your office

- Service planning and digital maps helps you to optimize your service trips

- Digital service reports enable your automatic invoicing

- Plant and customer database with photo and GPS coordinates will help you to find the plant

- Telemetry facilitates various operator models (BOT, BOOT,...)

- Telemetry provides evidence to water authorities of proper plant functioning

Soft- & Hardware (GSM-Modul)

Wolkerova 38
350 02 Cheb
Czech Republic
www.bonnel.eu

Aquavisor® Telemetry System details

Aquavisor® is a scalable telemetry platform that can be adopted to your particular requirements and IT infrastructure.

Basic functions

Remote monitoring

Plants are monitored remotely via 2G networks. On request, 4G and *LoRa®/Sigfox®* are available, as well.

Alarms and events can be forwarded by mail to the service company and/or plant owner.

Data storage

All data will be stored in SQL databases on a server. This can be either your server, a BONNEL server or cloud servers.

Stored data contains alarms and events, as well as all plant data (e.g. address, GPS coordinates), customer contact data and service company data.

Data access

You can view and modify the data via the *Aquavisor®* webpages, that you can access with any browser from your PC, tablet or mobile phone. Different user levels for the plant owner, the service company and the portal owner are available.

Service reports

Your service reports can be stored into the database as pdf files. Like this, your service history remains transparent and you can easily review it.

Remote control

The plant can be fully remote-controlled. You can change all parameters and acknowledge alarms. Perform manual operation and even monitor the pressure or current values during these tests.

Firmware and software updates

Firmware and software can be updated remotely, either on particular plants or on all plants. Like this you can keep all control units up-to-date.

Functions on request

Extended Service Reporting

On request, digital service reports can be added. The reports are designed for your fast and simple completion on-site using prefilled fields, comboboxes and similar. The design and scope of the report can be agreed individually.

Connection to your ERP/CRM/accounting system

An interface to your ERP can be created, to synchronize data between the *Aquavisor®* telemetry database and your ERP system. This empowers you to transfer various data, as customer data and data about performed works, worktimes and distances to other systems. This data is vital for automatic invoicing systems, which can generate relevant savings at the administrative costs for you.
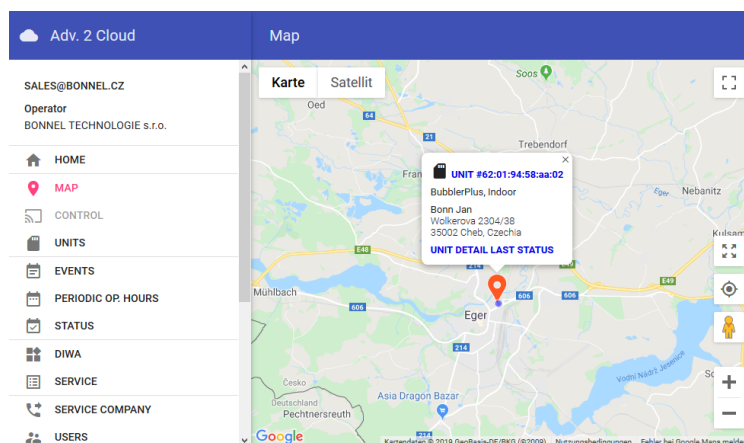
Reporting functions

Reporting can be necessary for different legal requirements. In some countries, subsidies for plants will only be granted, if periodic reports about the operation of the plant are provided. Also operator models like Public Private Partnership (PPP) mostly require reporting.

But reporting can also help you to analyze processes and products by means of statistical approaches like SPC.

Automatic service-trip planning & optimization

According to planned service dates, incoming alarm messages, and average times for regular services and troubleshooting, the *Aquavisor®* telemetry system can be extended on request to suggest or to optimize service trips. You can save administrative costs and use the shift time of your servicemen to full potential.

All details are without guarantee