

Programmable control unit for domestic sewage treatment plants with water-level sensing by pressure measurement (instead of float switch)

- Easily programmable
- Water-level sensing by pressure measurement
- Up to 8 + 1 relay outputs
- Individually equipped according to customer requirements
- Multi-language menu
- GSM-module as option

Why use the Sequetrol® control unit?

- Water-level control without expensive and unreliable float switches means no more electricity carrying parts in the cesspool.
- Reliable technology proven in thousands of installations
- Up to 8 + 1 relay outputs (8 x 230VAC, 1 x low voltage) for an easy connection of accessory devices
- Event protocol with event, date & time and program step
- Individually equipped according to customer requirements
- Sequence program can be easily created and modified with the PC software *MenuMaker*
- Password protected operating levels
- Updateable firmware and software
- Rechargeable batteries for mains failure alarm



Sequetrol® details

Sequetrol® was designed as a comfortable and reasonably priced control unit for small wastewater treatment plants.

Water-level control:

The innovative water-level sensing by pressure measurement allows cost-effective detection of preset water levels without the use of failure-prone float-switches.

State machine:

The **Sequetrol®** control unit is especially suited for sophisticated control algorithms with normal and eco mode and multiple programs for different numbers of inhabitants or different plant types. The programs can be chosen on-site. This can help to reduce the number of different control units on stock.

The program can be triggered by the daytime, so day / night mode or similar is possible.

The **Sequetrol®** has an in-build memory for event logs and for an electronic operating book. The operating book will store basic information about the regularly performed owner maintenance checks. The event logs as well as the electronic operating book can be transferred from the **Sequetrol®** to a PC using a special memory key.

The menu is prepared for up to five languages. The languages can be switched on-site.

The menu access can be restricted in up to three

different access levels (user, service, admin).

Interfaces and connectors:

The optional analogue input can be used for a further optimization of the wastewater treatment process. Properties, such as the turbidity of the treated water can be analyzed.

Up to four external digital signals can be monitored and processed within the control algorithm.

Up to 8 relay outputs for 230VAC offer a comfortable connection of solenoid valves, diaphragm blowers, submersible pumps or other loads.

The optional GSM module can be used to monitor the plant together with the BONNEL *Aquavisor* telemetry server.

All electrical connections are made using reverse polarity protected plugs with IP54 rating. Of course the type of connectors can be changed according to customer requirements.

Equipment:

The extent of the system functionality and the design of the front panel of the **Sequetrol®** control unit can be tailored to match your individual needs.

The **Sequetrol®** is equipped with features as acoustic signaling of predefined conditions, rechargeable batteries to signal mains failure and non-volatile EEPROM memory for programs, event logs and an electronic operating book.

Technical data

Attribute	Value
Dimensions (l x w x h), weight	179mm x 190mm x 83mm; 1.5kg
Ambient temperature	-20°C to +55°C
Protection classification	IP 54
Functions, sequence program, alarms, GSM-communication, display messages (also foreign-languages)	All according to customer request and requirement. Sequence programs are designed and adapted by the wastewater treatment plant manufacturer by means of a clear and easy-to-use PC-software.
Display / LED	Illuminated (backlit) alphanumeric LCD Additionally up to 3 LED (colors as requested)
Signal-input	Up to 4 x digital inputs <i>or</i> a combination of digital and analog (0-10V) inputs
Data interface	RS-232
Electrical output	According to customer request, up to 8 relays 230VAC + 1 x low voltage
Power supply during mains failure	Battery pack 7.2V (NiMH rechargeable batteries)
Power supply	230VAC, 6VA max.