



FILTRATION TECHNOLOGY

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# Sample filtration with CMS System

for biology and outlet of sewage treatment plants



# CMS System with backflushable filter probe

## Sample filtration for biology and outlet of sewage treatment plants

Backflushable, compact and highly efficient

### Applications

The CMS System is used especially for measurements in the biology and the discharge of municipal and industrial sewage treatment plants. Due to the very short dead time, this sample filtration in combination with On-Line analyzers is ideally suited for controlling e.g. aeration and precipitant dosing. The complete system consists of control unit, basin fixing and CMS probe with filter insert.

### System cabinet

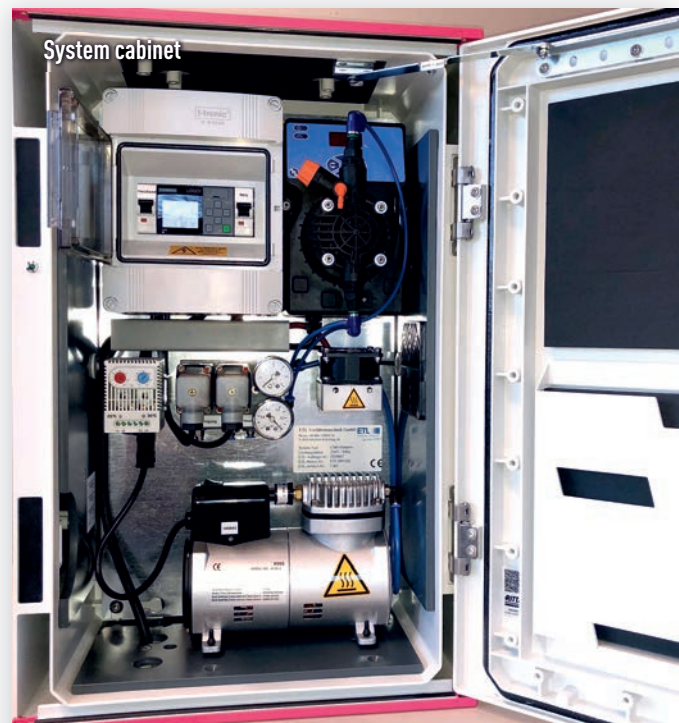
The special filtrate pump, integrated in the control cabinet, ensures reliable delivery of the filtered sample from the submerged filter probe. The pressure gauge monitors the negative pressure. The current liquid sample is conveyed to the analyzer. The automatic cleaning with compressed air can be individually adjusted in the control program depending on the boundary conditions. The outdoor installation of the system is ensured by heating the cabinet and the filtrate lines. The filter probe is submerged with a holder in the basin or channel.

### Filter probe

There are different types of probes, which are used depending on the measuring method. The probes differ in the filter fineness (from 5 up to 200  $\mu\text{m}$ ). This makes the CMS System also ideally suited for applications such as TOC measurement. If necessary, the filter insert can be easily and quickly replaced with a cleaned or new insert. The low weight of the filter probe is of great advantage for handling.

### Basin fixing

The stainless steel / aluminum basin bracket is supplied with a base and is easy to install. The bracket can be swiveled and adjusted in height, using a quick-release fastener, which ensures both easy maintenance and quick replacement of the filter insert.



### Advantages

- Easy filter change
- Low weight of the filter probe
- Particle free filtrate
- Periodic backflushing
- Short dead time
- Compact system
- Tank installation possible
- Long operating times of the filter inserts
- Low maintenance
- High operating safety
- Low investment and operating costs
- TOC applications with large filter pore size
- Suitable for SBR process
- Duct installation possible
- Applications in basins and canals
- Outdoor installation with heating

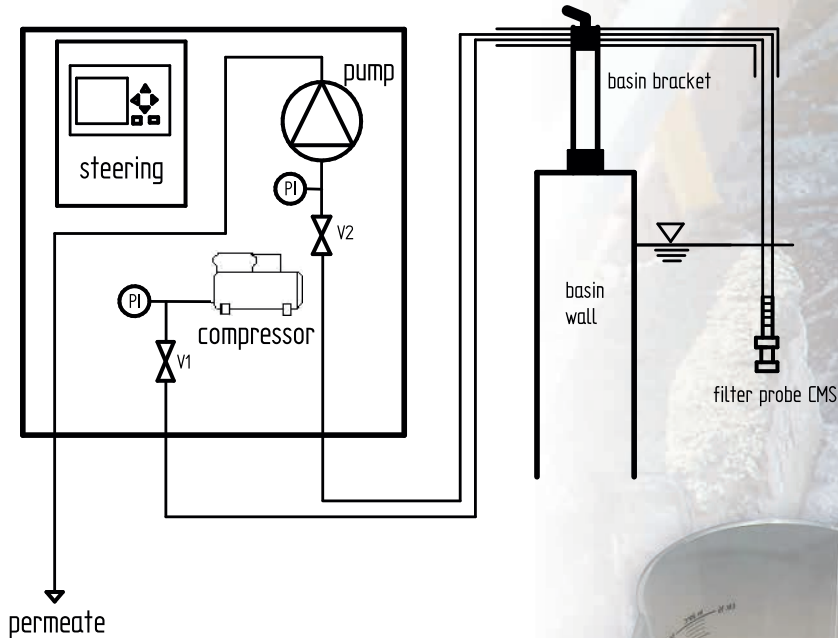
### Technical data

#### Operating data

- Power supply: 230 V / 50 Hz or 110 V / 50 Hz
- Membrane area: 10 cm<sup>2</sup>
- Pore size: 5 / 25 / 50 / 100 / 200 µm
- Ambient temperature: -20°C till +45°C
- Weight filter unit: 0.4 kg

#### Materials

- CMS probe housing: PVC
- Sealings: EPDM, FKM
- Hoses: PE
- Filter material: stainless steel
- Pump: PP, FKM, PTFE



### CMS Cleaning Set





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