HILLER
separation & process
Member of the ferrum Group

# DECANTER CENTRIFUGES
## & PLANTS FOR SOLID/LIQUID SEPARATION


# HILLER 4.0
## INNOVATIVE SOLUTIONS FOR OUR CUSTOMERS

**Industry 4.0, Internet of Things (IoT), cloud, machine-learning and predicitve maintenance - all terms that are now an integral part of the industry. Digitisation also offers opportunities in dewatering by using decanters, which Hiller uses and can therefore offer its customers high added value.**

Predictive maintenance, condition monitoring of the centrate, automated polymer dosing, remote monitoring of the decanter and the integration of the innovative Hiller control system *SEE-Control pro* into the overall control of the plant: all this leads to a networking of man, machine and data which ensures highest operational safety and efficiency for the customer.

### HILLER CENTRATE CONTROL

The highest possible process stability is also guaranteed by Hiller's automatic centrate control. This system uses an object sensor to monitor the quality of the centrate water and can intervene to regulate deviations. By means of a SPS module specially developed by Hiller the polymer or feed quantity is changed depending on the discolouration of the centrate. This automatically optimizes the polymer consumption and prevents overdosing.

## HILLER REMOTE MONITORING

With the development of the in-house remote maintenance and data analysis system Hiller has already created a pioneering position on the market years ago. The flexible remote maintenance solution via a web-based service portal and correspondingly intelligent terminals considerably reduces downtimes of decanter plants or even avoids them completely.

Hiller remote maintenance is designed as a universal complete solution for the simple and secure connection of networks via the internet. It is equally suitable for the operation of a small sewage treatment plant as for the connection of a large number of industrial decanters which are serviced worldwide. All you need is access to the Internet, either via the company network, via the DSL connection at home or on the road via the UMTS modem. If required, a Hiller service technician can reach the machines and plants within minutes by mouse click.

## ADVANTAGES:

- fast support in case of incidents
- continuous process optimization
- low technical effort
- warning messages before maintenance or malfunctions
- simple and safe connection
- simple administration
- detailed reporting
- intelligent machine learning

The Hiller remote maintenance can optionally be offered with data recording. Data is stored on Hiller's own server and analysed and displayed by means of dashboards (trends, real-time values). In case of alarms or maintenance messages both the customer and the Hiller service can be informed in advance via email. In this way it is possible to take appropriate measures at an early stage, e.g. when an oil change is due.

## MACHINE-LEARNING

Due to further development of data analysis and by means of „machine-learning", the system automatically recognizes whether the decanter is running optimally or whether there is a need for maintenance or readjustment. Added to this is the online condition monitoring CMS from Siemens, which monitors the conditions of the main bearings and issues a message even before a defect occurs.

**This system can be retrofitted in all Hiller decanters.**

## HILLER SEE-CONTROL PRO

The new generation of the Hiller control device, the *SEE-Control pro*, will soon be available. A larger display with the usual mobile phone touch ProCap and a resolution of 1280x800px is used. Thus multi-touch functions are also possible. Interface to the superior SPS is Profinet.

**The visualisation has a completely new and modern design, which also won the German Design Award in the category „Excellent Product Design - Human-Machine-Interface".**

Integrated tutorial videos support the operator during operation or maintenance of the decanters.
The standard integrated SSD extension enables trend data to be stored for up to 2 years. A specially developed coating protects the boards better and longer than conventional coatings.
Additional system components, such as the solids pusher, are integrated into the *SEE-Control pro.*


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