



## UNIQUE SELLING POINTS

High reliability

Less maintenance

Unique flow design

Fast measurement response (30-90 seconds)

Unique configuration 1 integrated system

Innovative automatic cleaning  
with revolutionary ultrasonic conditioning properties

Total solution Developed by Qsenz in cooperation with RHDHV and GMB

## The 'MISSING LINK' to optimize sludgetreatment

Reliable TSS (dry matter) measurements in centrate/rejection water



A cooperation between



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A product of  QSENZ  
water- en gasanalyse



# SOLiSENZ

The **SOLiSENZ** has been developed to measure reliable TSS (dry matter) in centrate/rejection water from the sludge dewatering. The unique composition ensures that you can measure reliable and over a long period of time TSS in these wastewater flows. A robust peristaltic pump ensures a continuous flow, the double automatic cleaning ensures a clean system and the ultrasonic sample conditioning\* ensures that the centrate contains no air. As a result, the optical solids sensor measures stably within 30 to 90 seconds from the supply. The system is controlled by a PLC which can be operated very easily by the user via the touchscreen. The clear user interface gives the customer the option to adapt the system to their own installation conditions.

\*Patent pending

### What does this innovation mean for you?

- Up to 80%** reduces staffing
- Reduction in CO<sub>2</sub> production by up to **80 tons per year**
- Up to 2% increase** in dry solids = lower costs
- 20% reduction** in chemical usage
- 24/7 autopilot** to optimize and automate the logistics and treatment of sludge
- 15% savings** on polymer consumption
- Online** process control



When the **SOLiSENZ** is connected to an operating system like Aquasuite MINE, major steps can be made in optimizing the sludge line. Resulting in an optimization of the polymer dosing, Improvement of sludge dewatering etc.

### Benefits

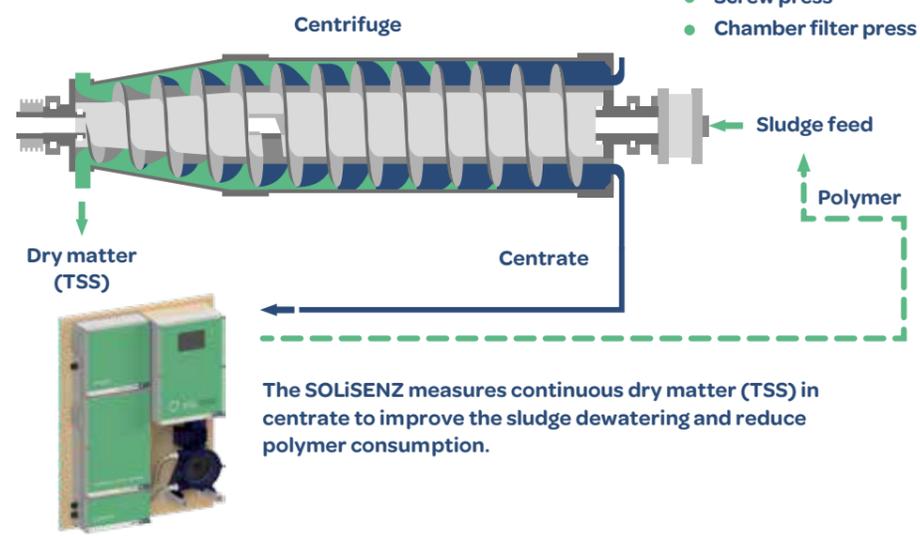
- Reduced polymer consumption
- Improvement of sludge dewatering
- Cleaner return flow to waste water treatment
- Less phosphate in return to the waterline

### Applications

- Communal waste water
- Industrial waste water



## Application example



- Also suitable for:**
- Belt filter press
  - Screw press
  - Chamber filter press

The **SOLiSENZ** measures continuous dry matter (TSS) in centrate to improve the sludge dewatering and reduce polymer consumption.



## Specifications

<b>System</b>		<b>SENSOR</b>	
Type	SZ-01	Measuring principle	Optical
Power	230VAC - 50Hz	Measuring principle detail	880nm
Power usage	1800 Watt max.	Measuring range	0 - 10.000 mg/l
Operating temperature	5 - 40°C non-condensing	Resolution	10 mg/l between 1000 - 9999 mg/l 1 mg/l below 1000 mg/l 100 mg/l above 10 g/l
<b>Pump</b>		Accuracy	+/-5%
Pump principle	Peristaltic	Repeatability	+/-1%
Flow	Adjustable trough HMI	Measuring speed from pump to sensor	30 - 90 seconde
<b>PLC/HMI</b>			
Display	5" Colour touchscreen		
Data Output	Modbus TCP / Analog 4-20mA		