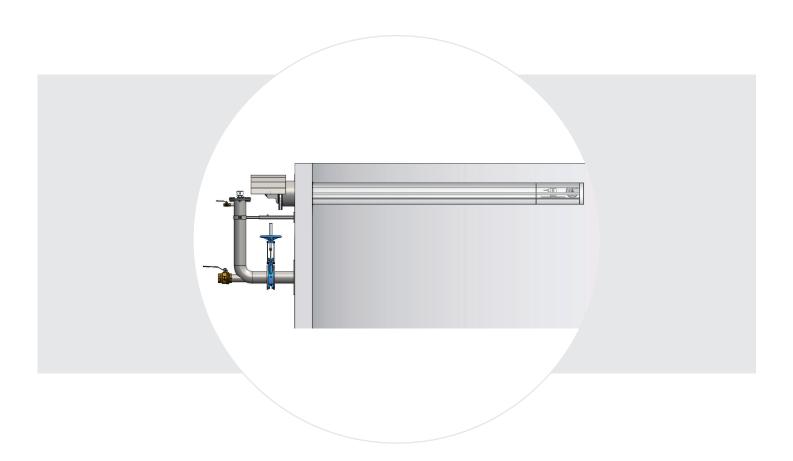
Floating layer detection and level measurement

SENSOSTREAM - THE INTELLIGENT MODULAR SYSTEM

The **SensoStream** is the next level of monitoring and optimization up to automatic plant control.

The modular system allows (depending on the selected components) an exact speed measurement, floating layer detection, level measurement and viscosity measurement.

The **SensoStream** enables optimization of the entire biogas plant. Potential energy savings are exploited and the gas yield is maximized. The real-time measurements allow faults to be detected at an early stage so that they can be avoided as best as possible.



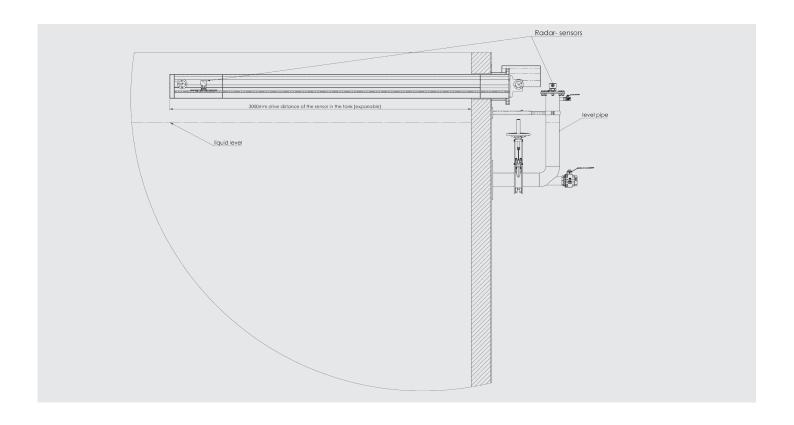
MODULAR COMPONENT FLOATING LAYER DETECTION AND LEVEL MEASUREMENT

Floating layers in biogas plants reduce biogas from rising out of the substrate. Floating layer sensors can detect the formation of a floating layer in good time and thus prevent it. When a floating layer is detected, the **SensoStream** issues a warning signal to that the agitators can counteract the floating layer directly.

The sensors of the **SensoStream** measure the filling level in the tank in real time.



Technical Data



Dimensions and connection to the tank

Inner measuring system: 1-3m standard

250mm pipe diameter wall panel 450x400mm NBR seal on flange

Outer measuring system: wall panel 400x400mm 5-inch compensating pipe

90° elbow upwards

valve

Core hole size above: 300mm diameter

Position above: 450mm above planned

filling level

Core hole size below: 200mm diameter

Position below: 1200mm below planned

filling level

Sensor

Measuring principle: Radar

DC supply: 24VDC

Output signal: 4-20mA

Process temperature: -40°C to +80°C

Waterproof: IP 66/68

Connection: Bluetooth 5.0 enabled

Evaluation unit

Max. power consumption: 5W

Input: signals of sensors

Evaluation: setting

Signal: 4-20mA an SPS
Relay output: 3, configurable
Temperature outside: -40°C to +60°C

Connection: Bluetooth 5.0 enabled

