

sonic**clean** – cleaning sensors in liquids

The ultrasonic cleaning system for contaminated probes



Your advantages using our technology:

- › Save electricity costs up to -10%
- › Amortization within 2.5 years
- › Reduce employees' workload
- › For O₂ - and pH-probes



Clean probes – accurate measurements!

sonic**clean** keeps the contamination from your measuring probes permanently, thus ensuring cleanliness and preventing falsified measurements. An ultrasonic cleaning system for **real-time data providing** in-line sensors.

1.

For clean probes in wastewater treatment plants



The influence of impurities on the measurement data of **O₂-probes** is often neglected. Coatings block the path of oxygen molecules and thus reduce the measured oxygen content. As a result, the process control system records the falsified information and draws suboptimal conclusions based on it. For example, excessive aeration leads to increased energy consumption.

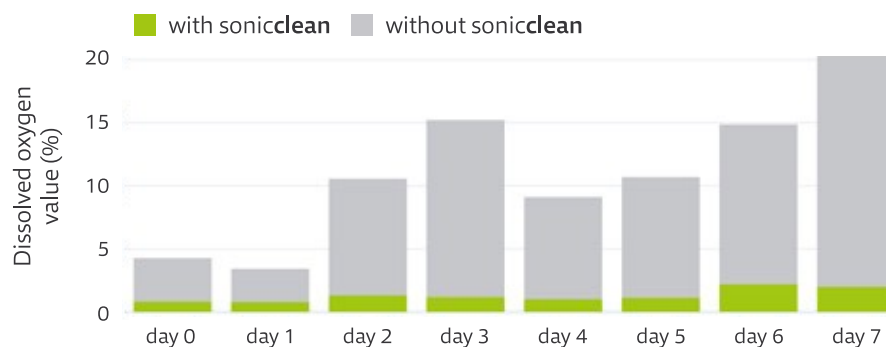
The use of sonicclean in wastewater treatment plants ensures an accurate measurement of the oxygen values!

- › Save energy in aeration
- › Reliable status of the oxygen content
- › O₂-probe remains in the process
- › Durable and robust
- › Also suitable for pH- and other probes
- › European and regional funding may be an option



Detailed graphics and application examples

Saving energy through efficient aeration:





In combination with process control systems

Do you want to connect the in-line cleaning armature to a process control system? With our sonicwipe, you can control the cleaning process specifically via your process control system. You can set individual cleaning cycles and thus react to special conditions. www.usepat.com/products/sonicwipe

2.

For clean sensors in industry



The influence of contaminations on the measurement data of **pH-sensors** is largely underestimated. Impurities and the formation of layers block the path of the ions through the sensitive membrane of the pH sensor. The effect is often thought to be caused by an internal drift of the measured value. As a countermeasure, the sensor is recalibrated or the actual process values are estimated from the measured data. Frequent recalibration may shorten the lifetime of the sensor.

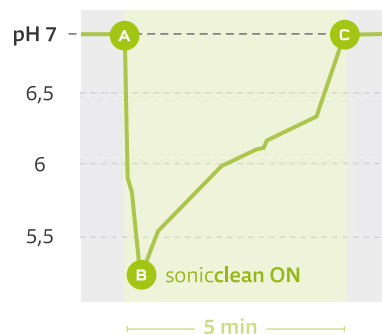
The use of sonicclean in industry ensures accurate, reliable and continuous process information in real time!

- › Optimization of time, quality and safety
- › Reduced maintenance effort
- › Reduction of downtimes
- › Ultrasound works on the entire pH-sensor
- › Gentle, effective cleaning
- › Suitable for O2- and other sensors

A clean sensor within a short time:



Detailed graphics and application examples



A contamination of the sensor B sonicclean active C clean sensor within 5 min*

— pH-profile with sonicclean ON

* The cleaning time depends on the degree and type of contamination.

usePAT

accurate measuring solutions

The award-winning usePAT team around the managing directors Dr. Stefan Radel & Mag. Georg Heinz consists of experts from different backgrounds. The technology combines different scientific fields such as ultrasonic & technology development, mechanical engineering, chemical analytics, electronics and process engineering. In addition, usePAT works with experts from the fields of spectroscopy, process technology, software, microcontrollers and industrialization.

usePAT is an Austrian company based in Vienna and serves customers worldwide. We develop, produce and distribute ultrasonic devices to improve in-line measurements in liquids.



“We are proud and happy
to combine so much competence
and enthusiasm in our team!”

Dr. Stefan Radel & Mag. Georg Heinz | Managing Directors, usePAT GmbH

**For further information and orders
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Legal notice Editor and publisher: usePAT GmbH
Printing: druck.at | Photos: shutterstock, iStock Photo, usePAT | Design: socher-mit-e.at