sonicclean
by usePAT

sonic**clean** – cleaning sensors in liquids

ultrasonic cleaning system for contaminated probes

Your advantages using our technology:

- → Save electricity costs up to 10%
- → Amortization within 2.5 years
- → Relieve employees – Increase efficiency
- → compatible with various probe types

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Clean probes – accurate measurements!

sonic**clean** prevents contamination of your measuring probes continuously. Thus ensures accurate measurements directly in the process.

For clean probes in **wastewater treatment plants**

The influence of contamination of **O_2-probes** on the measurement data 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 due to under-estimated oxygen levels leads to increased energy cosumption.

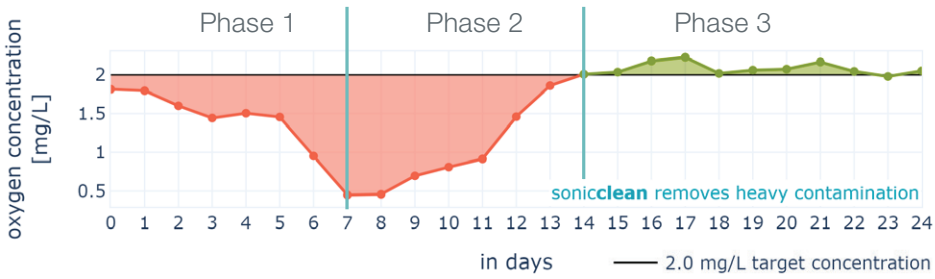
The use of sonic**clean** in wastewater treatment plants ensures an accurate measurement of the oxygen values!

- O_2-probe remains in the process
- Probes thus provide accurate real-time data
- Saves energy through optimised aeration
- Work efficiently without manual cleaning
- Monitor limit values more accurately with sonic**clean**
- Durable and robust upgrade for probes

Further information on probe cleaning

Saving energy through efficient aeration:

Phase 1: Contamination builds up on the oxygen probe
Phase 2: sonic**clean** is activated: cleaning begins
Phase 3: Contamination has been removed – the probe is kept clean



In combination with process control systems

With our sonic**clean**, you can control the cleaning process specifically via your process control system. You can set individual cleaning cycles and thus can react to special conditions.

For clean sensors in **industry**

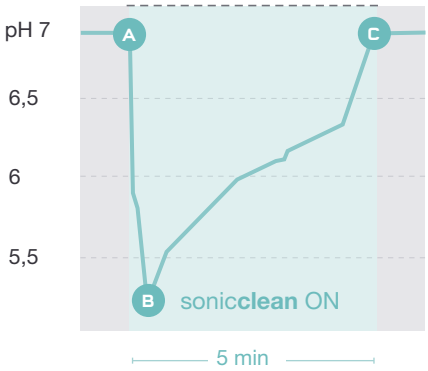
The influence of contaminations on the measurement data of **pH-sensors** is largely underestimated. Impurities and the formation of layers block the path of the ions through the sensitive membrane of the pH sensor. The effect is often thought to be caused by an internal drift of the measured value.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

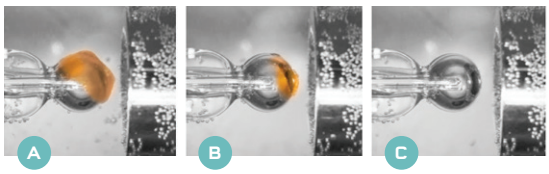
The use of sonic**clean** in industry ensures accurate, reliable and continuous process information in real time!

- Gentle, effective cleaning
- Ultrasound works on the entire measuring head of the probe
- Reduced maintenance effort
- Optimization of time, quality and safety
- Suitable for O_2- and other sensors
- Reduction of downtimes

A clean sensor within a short time:

application examples





contamination of the sensor | sonic**clean** active | clean sensor within 5 min*

— pH-profile with sonic**clean** ON

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

usePAT

accurate measuring solutions

> 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

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 develope, produce and distribute ultrasonic devices to improve in-line measurements in liquids.

For further information and orders please contact our Sales Manager:

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