

LiquiSonic® online bath monitor

Inline concentration measurement of cleaning, anti-corrosive or quenching agents, acids, emulsions and many more

The LiquiSonic® online bath monitor enables a continuous and real-time monitoring of the bath concentration and bath contamination degree in for example:

- cleaning, degreasing and rinsing baths,
- preservative and coating baths,
- quenching baths,
- etching and pickling baths.

Bath preparation & bath maintenance

The process analysis with the LiquiSonic® online bath monitor ensures an exact initial control and re-dosing of the cleaning agent and allows an efficient control of bath changes.

Quality & efficiency

- stable component cleanliness
- avoiding of over- and under-dosing
- savings of raw materials and energy
- lower lab analyses
- maximum process safety and comprehensive documentation

Advantages

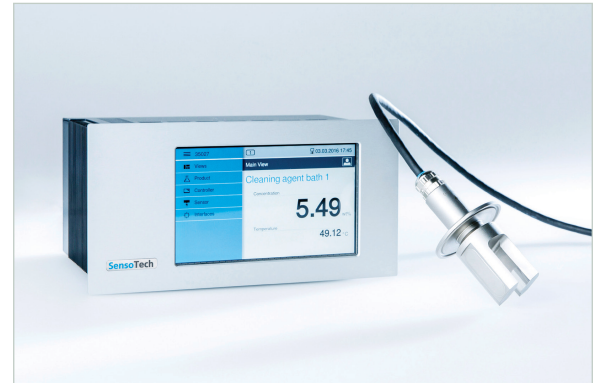
- widest range of sensors from the standard product with an attractive price-performance ratio to the sensor with customized process connection, corrosion-resistant material and variable installation dimensions
- precise temperature measurement and dynamic compensation
- integrated flow detection (flow-stop-feature)
- status monitoring via integrated absorption measurement and SonicGraph®
- creating and upload of product data set by the user possible
- maximum robustness and connection of up to four sensors to one controller

Robust, precise, stable

The measurement is inline and the results are available online for PCs and control systems. The LiquiSonic® technology is based on sonic velocity measurement, providing precise and stable measurement results. The robust sensor construction impresses with user-friendliness, long life time and no maintenance.

Easy integration into the process

The sensor can be integrated in any facility and is installed directly in the bath or pipe of up to DN ½" (ASME) or DN 15 (DIN) or optional larger. The measurement results can be transferred via 4-20 mA signal, digital outputs, Profibus DP, Modbus or Ethernet.



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Sensor integration in the flow adapter

Sonic velocity

resolution: 0.01 m/s
repeatability: ±0.02 m/s
accuracy: ±0.1 m/s

Temperature

resolution: 1 mK
repeatability: ±0.02 K
accuracy: ±0.025 K

Attenuation

resolution: 0.1 dB
repeatability: ±0.2 dB
accuracy: ±0.3 dB

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In liquids, we set the measure.

LSM244_01_04 08/2018