



**SensoTech**

In liquids, we set the measure.



Chemistry



Pharmacy



Pulp & paper



Brewery



Food & beverage industry



Steel & iron



Petrochemistry



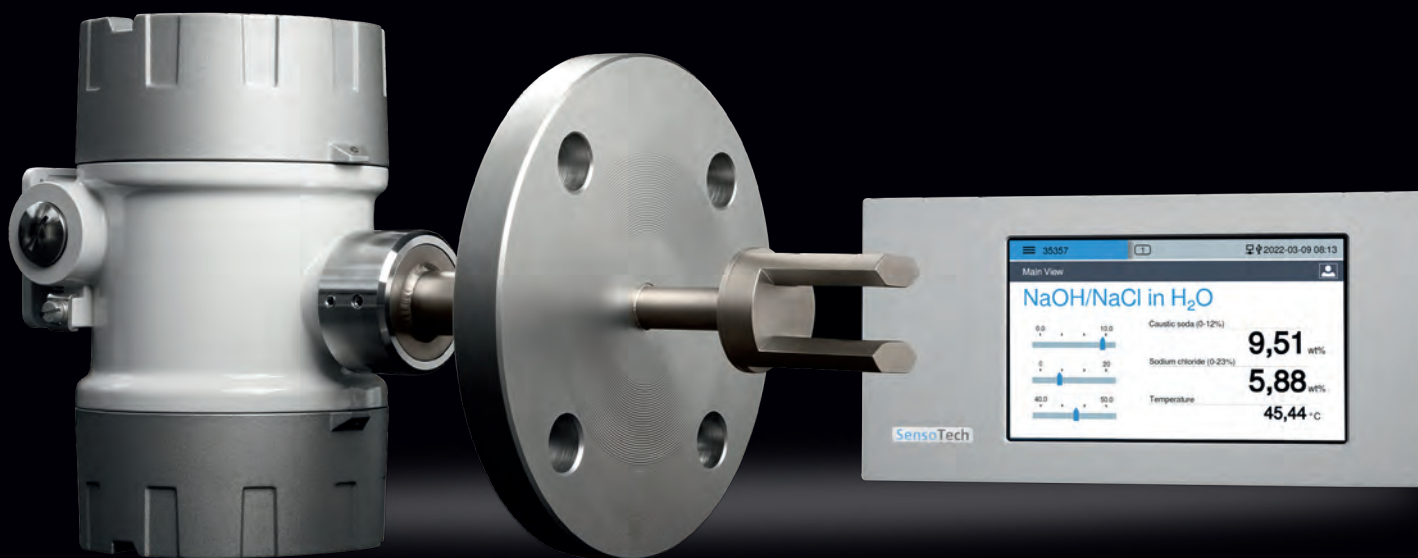
Semiconductor & photovoltaic



Refrigeration & air conditioning



Plant engineering



# Innovative method for inline monitoring of liquids of all kinds

SensoTech is a provider of systems for the analysis and optimization of process liquids. Since our establishment in 1990, we have developed into a leading supplier of process analyzers for the inline measurement of concentration and density of liquids. Our analytical systems set benchmarks that are used globally.

Manufactured in Germany, the main principle of our innovative systems is to measure ultrasonic velocity and density in continuous processes. We have perfected this method into an extremely precise and remarkably user-friendly sensor technology.

## Many industries rely on our analysis technology

Our LiquiSonic® analytical systems precisely detect and monitor the concentration of all types of liquids – whether it is the original gravity of beer, the composition of cleaning and treatment baths in the steel industry, the sugar content of beverages or the concentration of solutions, acids and alkalis in the chemical industry.

You are able to determine the actual concentration value immediately after installation and activation. A field calibration feature allows you to adjust the measurement results to match your reference standards.





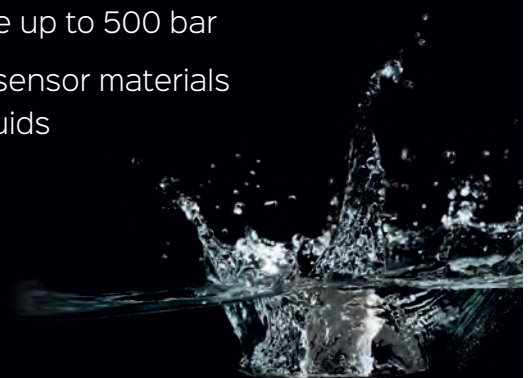
# Measurement of concentration even for extreme requirements: LiquiSonic®

The sonic velocity can easily be calculated by measuring the travel time of the sonic signal, which can be realized very accurately and with long-term stability. The sensor firmware calculates the sonic velocity by using the known distance between the transmitter and receiver.

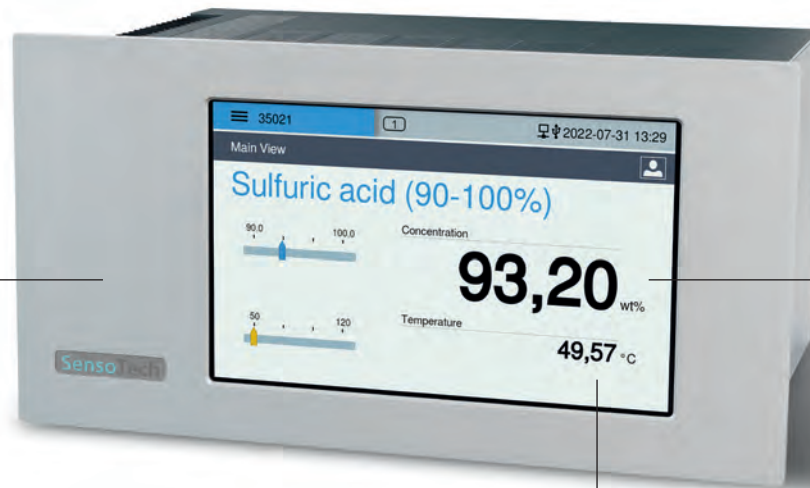
The typical sensor design includes transmitter and receiver within one rough construction.

Sonic velocity analyzers have no moving parts; therefore there is no long time degradation of their mechanical properties. Using this sensor technology, the user will have several advantages against competitive methods.

- measurement is independent of the color, conductivity and transparency of the process fluid
- high, drift-free measuring accuracy even at high proportion of gas bubbles
- installation directly in pipelines or vessels
- bypass-free installation
- robust sensor design without gaskets or moving parts
- maintenance-free measurement technology
- insensitive to contamination
- use at temperature from -90 °C to 200 °C
- use at pressure up to 500 bar
- use of special sensor materials in corrosive liquids



updating of  
measuring values  
up to every 250 ms



measuring  
accuracy  
up to  
 $\pm 0.01$  wt%

integrated temperature  
measurement

## Real-time measurement results - reliable, robust and maintenance-free

With the sonic velocity the device calculates the concentration or density of the liquid. More concentration units can be displayed, e.g. Brix, solid content, dry matter or suspension density.

The measuring method is independent of conductivity, color and transparency of the liquid and has excellent reliability. The user achieves an accuracy between 0.01 wt% and 0.1 wt% by weight. In addition to the sonic velocity measurement, all LiquiSonic® sensors have an integrated temperature measurement.

The system is configured according to the customer's requirements. All required values and data are immediately visible and can be corrected just in time and returned to the control process. In addition, a graphical trend display provides fast and clear information about the current process development.

As well as the measurement of concentration and density, typical applications include phase interface detection or the monitoring of complex reactions such as polymerization and crystallization.

LiquiSonic® systems allow optimal, flexible process monitoring. Thus, they ensure increased product quality, sustainability by saving energy and raw materials, a reduction of laboratory analyses and an increase in plant safety.

### Diverse applications – from demanding to extraordinary

- concentration and density measurement
- phase interface detection
- incoming goods control
- neutralization
- gas scrubbers
- polymerization monitoring
- crystallization monitoring



# Powerful for over 30 years

In the wide variety of industries such as chemical and pharmaceutical, steel, food technology, machinery and plant engineering, car manufacturing and more, our systems provide highly accurate and reproducible measuring results even under difficult process conditions. Inline analysis eliminates safety-critical manual sampling and is immediately available for your automation system. All parameters can also be adjusted with high-performance configuration tools, so that you can react quickly and easily to process fluctuations.

## High performer and innovator

We provide excellent and reliable technology to help to improve your production processes, and we take a sophisticated and often novel approach to find solutions. In your industry, for your applications – no matter how specific the requirements are. When it comes to process analysis, we set the standards and develop for you the effective solution. A top priority for us is to understand the requirements of our customers in a rapid and concentrated way, and implement solutions with foresight and technical excellence.







## Quality

SensoTech works intensively on the development and manufacturing of first-class measuring devices for process applications in plants and laboratories. Our quality management have been certified since 1995 according to the rules of DIN EN ISO 9001. In various repeated audits, our high level of standards was confirmed and approved by the surveillance authorities. Meanwhile the system was approved according to the actual release ISO 9001:2015.

This complex process guarantees that every SensoTech product corresponds to a continuously high standard from development, to manufacturing and final inspection of each device. The systems all go through an internal burn-in procedure. Every employee is committed to quality in the company. The foundation of competence and motivation of our staff members are the basis for quality in day to day operations.



## Service and Support

In addition to first-class products and comprehensive service, SensoTech offers its customers a range of events and webinars. An established network and our numerous international representatives in all important geographic markets of the world, in which our expert knowledge is expanded, is the basis for innovative solutions that set standards in the market.





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