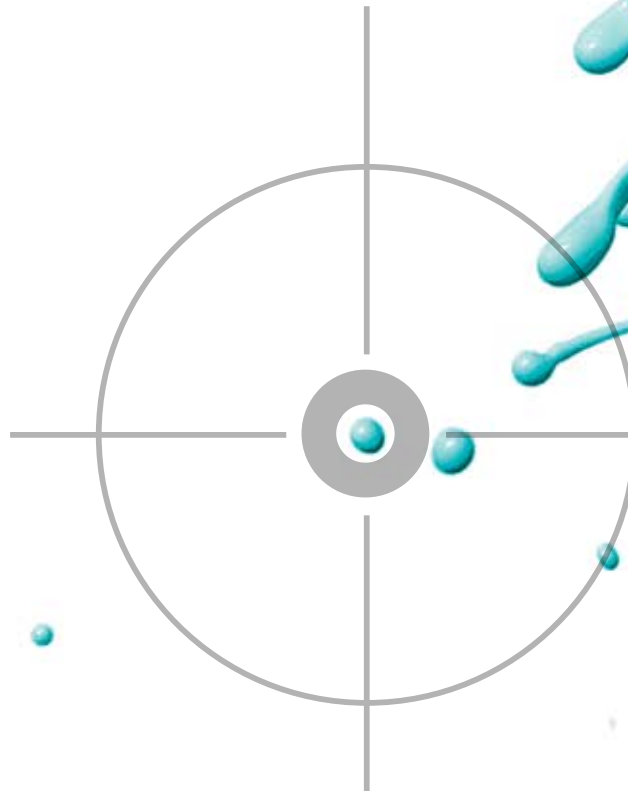




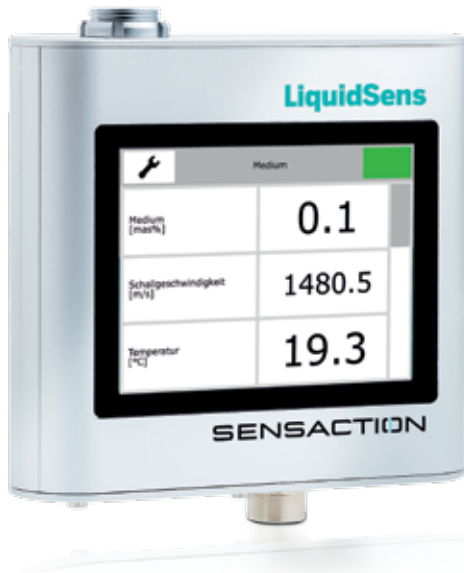
LiquidSens

**...sets standards in the measurement
of liquids – smart and individually**



SENSACTION

Innovative Measurement Technology for Almost Every Industry



Liquid monitoring in a few seconds: robust, universally applicable and user-friendly.

Together, we develop solutions tailored to your needs. We are at your side with our expertise, starting from planning the joint application development to accompanying the installation, and after-sales service.

LiquidSens continuously monitors your liquids during the ongoing process. This enables you to ensure quality and also to achieve more ecological responsibility take over.

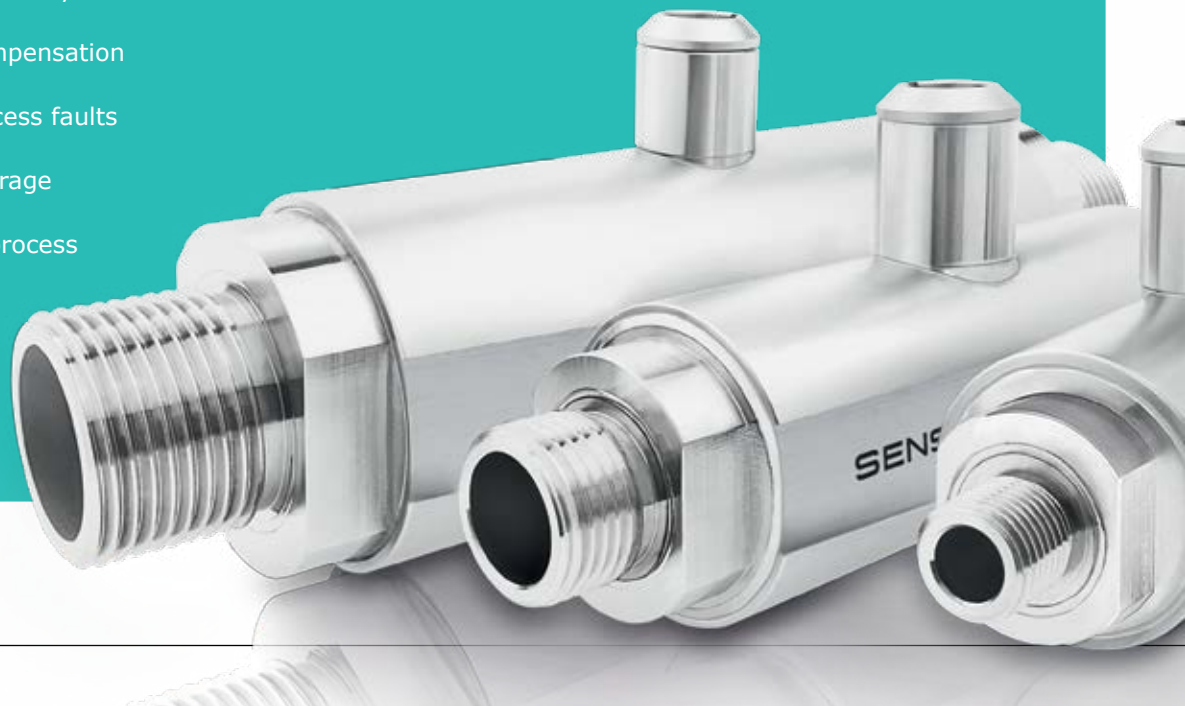
LiquidSens offers a wide range of functions that help optimise production processes in the most diverse industries.

The simple integration into existing systems and the intuitive user interface are sure to impress!

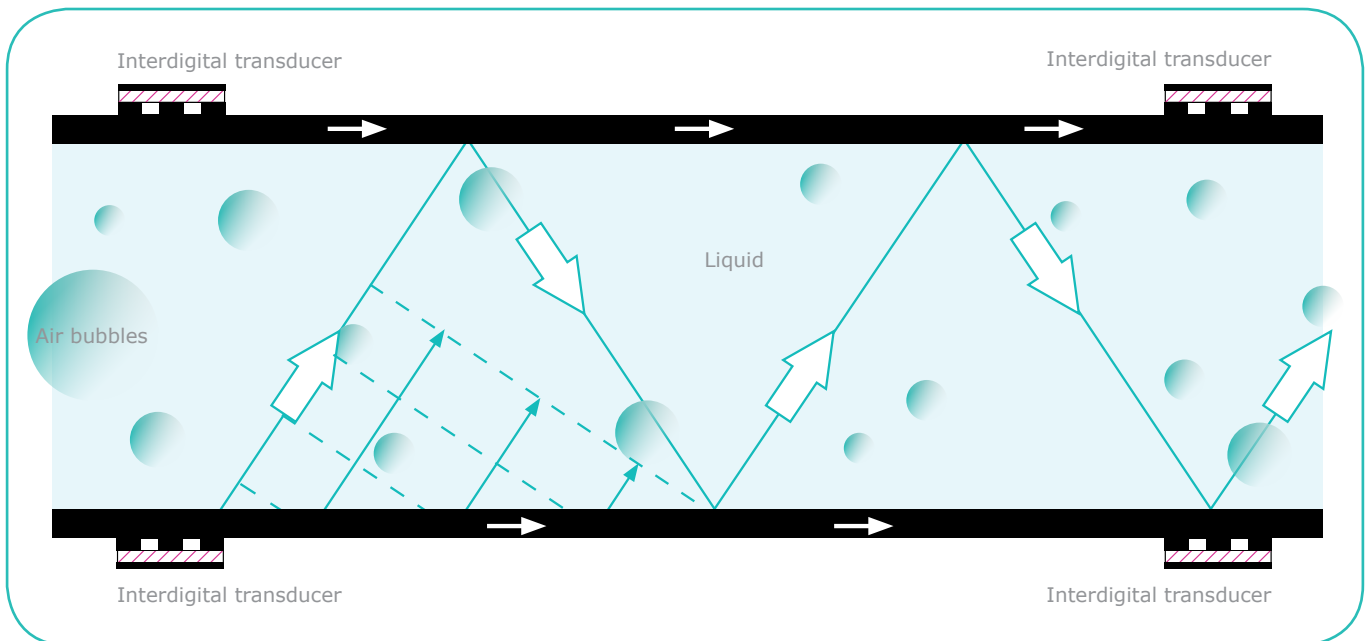
You can continuously expand and extend your measuring system with additional media apps – **simply smart!**

Your Advantages:

- + Cross-application measuring system
- + Reports for QA-compliant documentation
- + Measurement accuracy
- + Temperature compensation
- + Detection of process faults
- + Internal data storage
- + Cleaning in the process
- + Robustness
- + Inline sensor test possible
- + Recalibration according to QA systems possible



Measuring Principle



The core of our LiquidSens sensors is an acoustic waveguide.

Acoustic surface waves are used to determine the speed of sound. By simultaneously measuring the temperature and using sophisticated algorithms, the concentration of a liquid can be determined.

Every liquid has its own fingerprint, which we make use of for our precise measurements.



Comparison



Application	LiquidSens Liner	LiquidSens Mobile	LiquidSens Probe	LiquidSens Liner Hygienic
Concentration measurement	+	+	+	+
Product differentiation	+		+	+
Speed of sound measurement	+		+	+
Reaction control	+		+	+
Change of state	+		+	+
Materials	1.4571 (316 Ti)	1.4571 (316 Ti) 2.4602	1.4571 (316 Ti) 1.4435 (316 L) 2.4602	1.4404 (316 L)
Possible applications	inline	mobile	inline/mobile	inline

LiquidSens in Use

Our LiquidSens sensors are easy to implement – whether in your pipeline or in the tank.

Various process connections, materials and nominal sizes enable the use in almost every industry.

Standardized signal outputs and interfaces enable connection to all common control systems. This means that automated process control can be implemented.



Above image: LiquidSens Controller Touch in the control cabinet of a cleaning system

Left image: LiquidSens liner DN15 with external thread in a cleaning system

Applications

With our technology, you too can find the right solution for your measuring task.



Concentration measurement:

Cleaning agents/disinfectants, drawing lubricants, hardening polymers, corrosion protection, spirits, soft drinks/juices, glycols, acids, alkalis



Product differentiation:

for example acids vs. alkalis



Reaction control:

Dissolution processes, precipitation processes



Speed of sound measurement



Change of state:

Leakage detection, cleanliness control, Filter breakage, phase separation

Our Sectors



Metalworking industry



Water/waste water



Life science



Food and beverage industry

Company

SensAction, a brand of Endress+Hauser Flow Deutschland AG, is a leading supplier of multi-sensors for monitoring liquids.

The success story began in 2008 with the founding of SensAction AG, which has been strengthened by its affiliation with the Endress+Hauser Group since 2017.

In 2021, Sensaction AG became today's Endress+Hauser Flow Deutschland AG – new name, same spirit.

We have all our expertise under one roof: from R&D and production to sales and service. Quality in accordance with DIN ISO 9001:2015 and fast, customer-oriented solutions are the building blocks for long-term and successful business relationships.



SensAction by
Endress+Hauser Flow Deutschland AG
Rosenauer Straße 27
96450 Coburg / GERMANY
Phone +49 9561 976 23 0
Fax +49 9561 976 23 99
info.de.ehfl@endress.com
www.sensaction.de



SENSACTION