

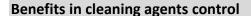
More process reliability in phase separation through inline conductivity measurement

Inductive Conductivity Meter ILM-4

Benefits in production and CIP / SIP processes

ILM-4 with IO-Link and 4...20 mA enables an active, automated and temperature compensated phase separation. This applies both to different media in production processes and to the CIP / SIP return flow of acid / caustic / water.

These media can be drained or returned to the storage tanks in the highest possible grade by means of precise inline conductivity measurement. The multiple use of the cleaning media ensures in addition maximum cost efficiency and environmental protection.



For an optimal and reproducible cleaning result, each cleaning agent must be concentrated to the specified value by re-dosing with concentrate and fresh water. This is ensured by the highly precise measurement of conductivity with the ILM-4.

Advantages of the ILM-4 conductivity sensor

- Extremely short response time (1.2 s) for maximum efficiency
- Ready for industry 4.0: digital IO-Link interface and analog
 4...20 mA data transmission in parallel
- Precise phase separation of different media means less product loss and cost minimization
- Optimum multiple use of the cleaning chemicals due to correct return to the respective tanks
- Minimization of cleaning time and water consumption: inline conductivity analysis for active switching after reaching the desired value and not after a passive, fixed time
- · Precise concentration control of the cleaning agents
- · Reliable product monitoring / quality assurance
- · Very favourable price-performance ratio

Practical experience / customer applications

- CIP cleaning for milk trucks (Röck): Minimum losses in cleaning agents and maximum recyclability thanks to active, precise switching
- CIP process in the Viöl dairy: In combination with the ITM-51 turbidity sensor, almost all media in the production and CIP/SIP processes can be precisely distinguished and separated.
- Breweries and beverage producers: Maximum product yield through precise phase separation







Technical data at a glance

- · Extremely compact & robust conductivity sensor
- Hybrid technology with digital + analog interface (IO-Link + 4...20 mA): from simple data transfer to intelligent communication
- · Fast sensor response time: approx. 1.2 s
- Modular design: configurable from the low-priced basic version to the high-end model
- Product-contacting sensor head made of 100 % PEEK prevents thermal stress cracking
- Measuring range freely selectable: 1...999 mS/cm
- High reproducibility of ≤ 1 % of measured value
- Fully compensated measurement up to 130 °C,
 CIP/SIP cleaning up to 150 °C / 60 min.
- Remote version with Smart Replace Design: Easy replacement of each component just by plugging it in



Modulare Sensorplattform mit IO-Link und 4...20 mA

The **Flex-Hybrid Technology** with **IO-Link and 4...20 mA** combines the best of both worlds: Data from the sensor can be transmitted digitally, analogously or in parallel. The bidirectional communication enables status control and preventive maintenance at any time to avoid production downtimes. Installation and commissioning are time- and cost-saving thanks to plug-and-play technology, and sensor replacement is easier than ever before thanks to "Smart Replace Design" with automatic detection, configuration and parameterization.

