LFE Laboratorium für
industrielle Forschung GmbH & Co.
Entwicklungs KG

Ultrasound Cleaning System for process pH-electrodes

On-line water analysis often places heavy demands on practical solutions. This applies also to the process pH-analysis, which requires a high availability of the analysis system in conjunction with low maintenance.

The ultrasound cleaning system manufactured by LFE for this purpose helps meet these requirements. The pH electrode(s) mounted in a cross flow vessel is (are) irradiated at adjustable, regular intervals by ultrasonic energy. The ultrasound generator (approx. 35 kHz) creates cavitation in the water sample which serves as the coupling medium. The implosions of a tremendous number of micro cavitation bubbles results in the familiar excellent cleaning effect. The particles loosened from the pH electrode(s) are carried away by the sample stream.

LFE's ultrasound cleaning system consists of the pH electrode vessel with the ultrasonic transducer and a separate control unit with the timer-controlled ultrasound generator.

Features

- cross flow vessel for up to 3 process pH-electrodes
- timer controlled ultrasonic irradiation of pH-electrodes
- transducer membrane made of Hastelloy®
- water-protected (IP66), wall-mounted control unit

LFE Analytical Instrumentation

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