PRESS RELEASE

New Fluid Quality Sensors offer Innovative Fluid Property Detection for OEM Applications

Leinfelden-Echterdingen, 11 June 2024. EBE's new QCRB corTEC® quality sensors open up groundbreaking possibilities for measuring fluid properties in OEM and process applications. These innovative sensors combine capacitive and conductive measurements for precise media detection and enable comprehensive monitoring of fluid properties.

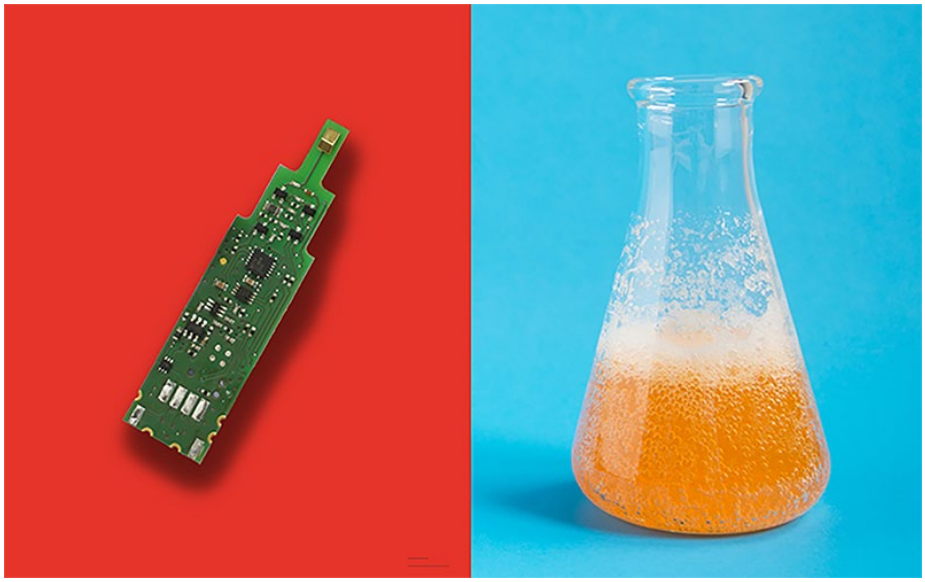
Many OEM and process applications require the detection and monitoring of fluid properties. Quality degradation over time, concentration measurement, air/gas bubble detection or the determination of the medium itself are just some of the tasks that today require different sensors to achieve the required detections. EBE fluid quality sensors now offer a way to achieve all this with a single sensor. Applicable for gases, liquids, solids and even highly viscous media, EBE's corTEC® sensors can be housed in special hygienic, robust or miniature housings and excellently detect media properties even without direct contact to the medium.

Simultaneous acquisition of capacitive and conductive measured values

The QCRB sensors enable simultaneous and real-time acquisition of capacitive and conductive measured values, which previously required the use of two or more measuring devices. They cover capacitive measuring ranges from 0.1pF to 80pF and enable the detection of media in a range of relative permittivity (ε_r) from vacuum to water and beyond. To enable a comprehensive analysis of the media a conductivity measuring range extended from typ. 0.1 to 200mS/cm is available. In addition, the sensors offer real-time calibration to compensate for environmental influences, ensuring high short and long-term stability and repeatability. The sensors are ideal for mass production and enable OEMs to offer excellent quality analysis on a large scale in a cost-efficient manner.

Increasing efficiency and quality with QCRB sensors

In industrial and medical applications, EBE fluid quality sensors help to comply with regulations, improve health and safety and increase production efficiency through predictive maintenance and process optimization. Especially in industries such as food and beverage, pharmaceuticals and medical technology, where strict regulations apply, the sensor technology provides valuable real-time data, reduces the need for frequent laboratory testing and minimizes the associated costs. With the corTEC® fluid quality sensors, EBE offers a cost-effective, universal solution for the sophisticated detection and analysis of fluid properties in a wide range of industrial applications.



Picture file: EBE_QCRB_fluid_quality_sensor
Picture text: To measure fluid properties, the QCRB fluid quality sensor provides capacitive and conductive measured values simultaneously
Picture source: EBE Elektro-Bau-Elemente GmbH

Short Profile

The company EBE Elektro-Bau-Elemente GmbH (brand name: EBE sensors + motion) based in Leinfelden-Echterdingen near Stuttgart develops and manufactures OEM-products in the fields of sensor technology, components for HMI-interfaces as well as actuator and mechatronics technology. The focus lies on capacitive and inductive sensors based on the technologies developed in-house and mechatronic solutions for industry, appliances, medicine and mobility. The sensor program also includes level sensors, pressure sensors, position sensors and capacitive buttons. Furthermore, EBE develops and manufactures customer-specific solenoids and robust rotary switches, buttons and encoders and adapts them to the customer requirements. The company sees itself as a competence center for the development and production of sensor systems and drive technology.

Contact

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