

Endress+Hauser development team receives AMA Innovation Award

QWX43 multisensor system provides continuous and easy monitoring of fermentation

This year's AMA Innovation Award goes to a team of developers at Endress+Hauser. The QWX43, designed for breweries, impressed the experts at AMA Association for Sensors and Measurement with its compact design, high measuring accuracy and easy application as well as uncomplicated installation, commissioning and maintenance. The award was presented during the opening ceremony of Sensor and Measurement Science International (SMSI) in Nuremberg, Germany on 3 May 2021.

Brewing beer requires continuous monitoring of many parameters. Manual samples can now be eliminated thanks to a sensor for fermentation monitoring by Endress+Hauser called QWX43 that features highly accurate inline-measuring of relevant parameters like density, viscosity, fermentation grade, residual extract, original extract or alcohol content around the clock. Brewers can retrieve measured values at any time using either mobile devices or a computer with internet access. Notifications can be configured in addition immediately notifying users in case of critical deviations during fermentation.

"When developing the sensor our first thought was to support our brewers in the best possible way," says Julia Rosenheim, product manager at Endress+Hauser Level+Pressure. "And we are pleased that we found a convincing answer, which is this compact and easy to operate multisensor system." From the first prototype to the finished instrument in its compact design, the development took two years. Currently, the QWX43 is in use at pilot customers. The serial product will be launched in fall 2021.

To independently and precisely measure several parameters, the QWX43 was designed as a multisensor system that simultaneously measures four physical values, including density, viscosity, acoustic velocity and temperature. It can easily be fit to different fermentation tank systems without adjustment or calibration. The hygienic sensor design allows for quite simple cleaning.

The AMA Innovation Award

The Innovation Award presented by AMA Association for Sensors and Measurement has been bestowed on research and development teams both from Germany and abroad for more than 20 years. The association is looking for innovative projects and product ideas in the field of sensors and measurement technology with considerable market significance. The award is endowed with an amount of 10,000 euros.

In 2021, the jury comprising industry experts from universities and research institutes as well as companies selected the Endress+Hauser development team of six as one of two of this year's winning teams. The team includes Julia Rosenheim (Product Manager), Dr Tobias Brengartner (Advanced

Sensor Engineer), Jan Schleiferböck (Advanced Sensor Engineer), Dr Sergey Lopatin (Senior Expert), Andrey Dodonov (Software Engineer) and Pablo Ottersbach (Design Engineer).



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Delighted with the AMA Innovation Award: The Endress+Hauser development team (from the left) Dr Sergey Lopatin, Julia Rosenheim, Dr Tobias Brengartner, Jan Schleiferböck and Pablo Ottersbach. Not in the picture: Andrey Dodonov.



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Thanks to the multisensor system QWX43, breweries can eliminate manual field sampling in the future.

The Endress+Hauser Group

Endress+Hauser is a global leader in measurement and automation technology for process and laboratory applications. The family company, headquartered in Reinach, Switzerland, achieved net sales of approximately 2.6 billion euros in 2020 with a total workforce of more than 14,000.

Endress+Hauser devices, solutions and services are at home in many industries. Customers thus use them to gain valuable knowledge from their applications. This enables them to improve their products, work economically and at the same time protect people and the environment.

Endress+Hauser is a reliable partner worldwide. Its own sales companies in 50 countries as well as representatives in another 70 countries ensure competent support. Production facilities on four continents manufacture quickly and flexibly to the highest quality standards.

Endress+Hauser was founded in 1953 by Georg H Endress and Ludwig Hauser. Ever since, the company has been pushing ahead with the development and use of innovative technologies, now helping to shape the industry's digital transformation. 8,900 patents and applications protect the Group's intellectual property.

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