

## PRESS RELEASE

### Hamilton launches VisiFerm™ SU

**Redesign of proven dissolved oxygen sensors especially for single-use applications**

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#### **VisiFerm™ SU RS485-ECS**

Hamilton Bonaduz AG presents VisiFerm™ SU RS485-ECS, a new member of the Hamilton product family of dissolved oxygen (DO) sensors, thus ensuring 'supply security' in the future due to the integrated technology. The novelty impresses with its robust, low-maintenance, fast and accurate measurements compared to polarographic DO sensors, which rely on sensitive membranes and liquid electrolytes. The sensor offers the reliability and measurement stability that users have come to expect from VisiFerm™ DO sensor technology, but it is specifically designed for use in single-use (SU) applications. This means that the sensor can also be combined with other Hamilton SU products for biopharma processes, thus providing added value for comprehensive, practical PAT solutions in bioreactors.





## **The biopharmaceutical**

"In recent years, we have seen an increase in demand from the biopharmaceutical industry for flexible solutions that can be easily adapted to fluctuations in demand," says Monika Alder Novotni, Product Manager at Hamilton. She adds: "The aim was to keep investment costs as low as possible for the user, to ensure fast and reliable delivery, and to create the possibility of flexibly adapting the sensor solution to local production. The use of single-use technologies is the ideal choice here, as time-consuming and costly cleaning processes of conventional bioreactor vessels and their supply lines are no longer necessary. Our VisiFerm™ SU RS485-ECS now makes it possible to take advantage of the single-use workflow without sacrificing the accuracy and precision of the measurement."

### **If conventional, polarographic DO sensors**

are installed in single-use applications, there is a risk of contamination and leakage. This problem is solved by using VisiFerm SU with its two-component system: In close cooperation with manufacturers of single-use bags and bioreactors, it was ensured that the single-use cap is integrated directly into the container and gamma-sterilized. This results in an optimally fitted, hermetically sealed and sterile single-use solution that enables low-risk installation of the reusable DO sensor by the end user. State-of-the-art electronics ensure fast and reliable results for decades to come. Validation packages are available for all single-use caps. In addition, the caps meet the regulatory requirements of the biopharmaceutical industry, so that the end user can use them for their processes without hesitation.

### **To learn more about VisiFerm SU,**

visit <https://www.hamiltoncompany.com/process-analytics/sensors/dissolved-oxygen/single-use-dissolved-oxygen>.

## **About HAMILTON:**

Process analytics is one of Hamilton's fast-growing business units, having developed the first pH sensors in 1989 and has grown steadily ever since. Today, the portfolio includes parameters such as pH, ORP, CO<sub>2</sub>, conductivity, dissolved oxygen, and total and live cell density. With a focus on the biopharmaceutical industry, the division



solves the challenges of process analytics with groundbreaking developments. Arc sensors represent an important development in recent years, as the integrated micro-transmitters make external transmitters superfluous. For the ever-growing single-use sector, Hamilton also offers special pH, oxygen, conductivity and cell density sensors. In addition to sensors, Process Analytics supplies the associated cables, fittings, transmitters, buffers, standards and accessories.

Hamilton's story began in California in the late 1940s. Today, the company is headquartered in Reno, Nevada; Franklin, Massachusetts (both USA), Bonaduz, Ems (both Switzerland), Timisoara (Romania) as well as sales offices around the world. With its subsidiaries and over 2500 employees, Hamilton is a leader in the development and production of liquid handling, process analytics, robotics, medical and automated storage solutions.

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