

PRESS RELEASE

10 years of Arc technology

Hamilton Bonaduz AG ushers in a new era of process control

(Bonaduz, 7/20/2021) - 10 years ago, Hamilton Bonaduz AG revolutionized the best way to continuously monitor and control bioprocesses. At the time, the development of Arc technology resulted in a significant, positive change for customers as it facilitates digital communication – a real revolution in regard to the established measurement with analog sensors.

Monitoring was completely redesigned, and the PAT framework was brought closer to reality. Today, it is impossible to imagine the industry without Arc sensors. They not only send an interference-free, digital, and compensated measurement value directly to the process control system, but also offer a wide range of GMP-compliant diagnostic functions that are recorded automatically. All relevant data and critical parameters can be collected and documented quickly and accurately. Regardless of measurement parameter (pH, ORP, dissolved oxygen, conductivity, cell density, or newly available CO₂), the values are available in real time. This enables processes to be optimally controlled, improving the quality of the results while minimizing lost batches and time. Smart sensors allow calibration in the measurement lab or other controlled environments to ensure high reliability. “This technology also makes it possible to transmit all sensor data to the process control system (PCS),” says Global Sales Director Frank Wolpers, explaining how easy it is to use in practice. So users can view all information about each sensor remotely. Discrepancies or issues can be detected immediately for more immediate correction. The smart sensors can send alarms, troubleshooting information, quality indicators, and diagnostics to both the PCS and mobile devices. The history of each sensor is stored in the automatic GMP-compliant documentation so that the operator can see when it was used and whether calibration errors or warnings, interface errors or even hardware errors occur.



“We have introduced an innovative CO₂ sensor onto the market – CO₂NTROL – the newest member of the Arc family. It will revolutionize CO₂ measurement in bioprocesses thanks to a completely new development in optical measurement technology. This means not only is the handling improved compared to previous measurement methods, but it also significantly reduces the operating costs for customers,” Frank Wolpers sums it up and once again highlights the continuous research and development performance of Hamilton Bonaduz AG.

Characters (incl. spaces): 2,436

About HAMILTON Process Analytics:

Hamilton Process Analytics, a division of Hamilton Bonaduz AG, pioneers open sensing solutions to enhance the understanding and control of critical process parameters, including pH, ORP, CO₂, conductivity, and dissolved oxygen as well as total and viable cell density. First introduced in 1989, Hamilton sensors are found worldwide in applications ranging from biopharma to power generation to brewing. Hamilton continues to lead the industry with new innovations such as intelligent sensor management via Arc wireless technology, and single-use solutions to significantly reduce risk of contamination. Each Hamilton offering is supported by a full portfolio of accessories including armatures, transmitters, cables, buffers, and standards.

Hamilton Bonaduz AG is the European counterpart of Hamilton Company, founded by Clark Hamilton in 1960 and headquartered in Reno, Nevada, USA. With more than 2,500 employees across global manufacturing facilities and subsidiaries, Hamilton is a leader in numerous fields including automated liquid handling robotics, automated sample management, medical ventilation, laboratory products, and process analytics.



Press contact:

Jansen Communications
Public Relations & Marketing
Technology Center Siegen
Birlenbacher Str. 18
D-57078 Siegen
Phone: +49 (0) 271 70 30 21-0

info@jansen-communications.de
www.jansen-communications.de

Company contact:

Hamilton Bonaduz AG
Via Crusch 8
CH-7402 Bonaduz
Phone: +41 58 610 10 10

contact.pa.ch@hamilton.ch
www.hamiltoncompany.com