

Endress+Hauser's new generation of glass-free pH sensors deliver improved CIP stability

BURLINGTON, ON, May 30, 2019 – Endress+Hauser's new generation of ISFET sensors made with unbreakable PEEK raises the performance bar in glass-free pH measurement. With their new design, these ISFET sensors – Memosens CPS47D, CPS77D and CPS97D – offer consistent accuracy, maximum product safety, and much improved clean in place (CIP) stability – up to six times greater CIP stability than the previous generation of ISFET sensors. They are built to perform reliably through at least 25 CIP cycles.

ISFET (Ion-sensitive field-effect transistor) sensors can be used in any applications where glass pH sensors are not desirable due to challenging process conditions or risk of breakage. Glass sensors are avoided in food and beverages applications and in the life sciences industries, since entire production batches can become contaminated in the event of glass breakage. PEEK (polyetheretherketone) is a high performance plastic with excellent chemical and temperature resistance. The new Endress+Hauser ISFET sensors are available with three different reference systems, which means that there is a glass-free sensor to suit every application.

The Memosens CPS47D and CPS77D are perfectly equipped to meet the strict demands of hygienic applications. Both deliver stable and reproducible measured values, even after sterilization and autoclaving up to temperatures of 135°C, and come with all the usual hygiene approvals for the food and life sciences industries, such as USP, EHEDG and 3A, and are TSE-/BSE-free. With its hygienic design and materials, the Memosens CPS77D also boasts excellent bacterial tightness to ensure food production remains free from contamination.

Chemical processes at low temperatures and the presence of a high proportion of organic solvents or solids pose specific challenges for pH measurement. Even at low temperatures, ISFET sensors such as the Memosens CPS97D have a fast response time and are chemically stable thanks to their rugged PEEK construction. Also, their open diaphragm means that they do not become clogged even in the case of high solids concentrations. The firm gel used in the reference also is extremely chemical resistant.

About Endress+Hauser

Endress+Hauser is a global leader in measurement instrumentation, services and solutions for industrial process engineering. Our products – sensors, instruments, systems and services for level, flow, pressure and temperature measurement as well as analytics and data acquisition – set standards in quality and technology. The company further supports its customers with automation engineering, logistics and IT services and solutions. Founded in 1953 by Georg H. Endress and Ludwig Hauser, the Endress+Hauser Group has been solely owned by the Endress family since 1975. Today, the Group is managed and coordinated by a holding company based in Reinach, Switzerland, employing close to 14,000 personnel across the globe. In 2018, the Group generated net sales of over 2.4 billion euros. Endress+Hauser's production centres in 12 countries meet customers' needs and requirements quickly and effectively, while our dedicated sales centres and strong partner network guarantee competent worldwide support.

Press Photos (see JPEG files attached)

Caption for photo #1

Endress+Hauser's new generation of ISFET sensors made from unbreakable PEEK raises the performance bar in glass-free pH measurement. All three models are built to perform reliably through at least 25 Clean in Place (CIP) cycles.

Caption for photo #2

Endress+Hauser's Memosens CPS77D, one of three new ISFET sensors made from rugged PEEK, is ideal for food production. With its hygienic design and materials, it offers excellent bacterial tightness to help maintain contaminant-free operations.

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