



Glass-free, unbreakable, digital: Memosens CPS47D / 77D / 97D

The new generation of unbreakable pH sensors with improved CIP stability

The new, unbreakable pH ISFET sensors with three different reference systems:

CPS77D – product safety for the food and life science industries

- Unbreakable PEEK shaft
- Bacteria tightness due to gel-filled reference with micro-porous ceramic junction
- Six times greater CIP stability compared to conventional ISFET pH sensors
- Optimum cleanability due to new design and larger measuring surface

CPS47D – maximum precision for the chemical, food and life science industries

- With KCl liquid electrolyte filled reference, ceramic junction and KCl refill nozzle
- Reliable measurement also in media prone to clogging, in media with high levels of organic solvents and at low temperatures

CPS97D – for contaminated media in the chemical and paper industry

- Open aperture and specially treated, chemically stable reference gel
- Measurement in dispersions, precipitation reactions as well as media with high solids content and dirt load





All-inclusive package for optimum results in your processes

Cost-effective sensor management and regulation-compliant documentation with **Memobase Plus**



Process assemblies with certified hygienic design for the highest requirements



Easy-to-operate **Liquiline transmitters** for all of your process parameters



Quality calibration buffers guarantee pH measurements with extreme precision



Standardized **Memosens data cable** for all Memosens sensors



Robust **Liquiline To Go** handhelds make it really easy to check measuring points



Glass-free and unbreakable

Producing food of consistently high quality requires the use of modern measuring technology. The use of pH glass sensors, which are commonly deployed for pH measurement, is not beneficial in this case, since glass breakage can contaminate entire production batches. The unbreakable, glass-free Memosens CPS77D pH-ISFET sensor meets all food-related requirements as per EHEDG, 3-A, EU 1935/2004 and FDA. CIP stability has been increased to 25 cycles. The maximum service life of the Memosens CPS77D is achieved by means of an automatic cleaning and calibration system such as the Liquiline Control CDC90. Here, the pH

sensor is cleaned with an acid cleaner during the CIP procedure in the rinsing chamber of the assembly.

Hygienic design

The life science industry has very strict requirements in terms of hygienic design and the relevant documents. The parts of the Memosens CPS47D and CPS77D pH-ISFET sensors that get in contact with the medium comply with USP87, USP88 class VI, USP381, USP661 and are TSE/BSE-free. Pharmaceutical declarations of conformity are optionally available. The sensors deliver stable, accurate and reproducible results even after sterilization and autoclaving at temperatures up to 135°C.

Chemically stable

Chemical processes that take place at low temperatures and with a high concentration of organic solvents or solids pose particular 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 PEEK shaft. Their open aperture means that they do not become clogged even when there is a high concentration of solids. The firm gel used in the reference is also extremely resistant to chemicals.

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