

Digital pH sensor Memosens CPS171D

Memosens glass electrode for bioreactors in the biotech industry and for the food industry



More information and current pricing:

www.fi.endress.com/CPS171D

Benefits:

- The sensor's exceptional accuracy, reproducibility and reliability helps you to keep the pH value in the optimum range for a maximized product yield.
- A specialized glass membrane and reference system makes the sensor CIP/SIP and autoclaving resistant (up to 140°C/284°F) offering maximum long-term stability.
- Thanks to the Memosens technology, the cable connection cannot be affected by moisture or corrosion: you can count on the sensor's highest availability and your batch is safe.
- The sensor protects your product quality with its certified biocompatibility according to USP class VI, FDA compliance of wetted parts, no cytotoxicity, bioreactivity or animal-based materials.
- The sensor provides you with process and sensor data that allows you to decide if the sensor is ready for the next batch or should be replaced - a big improvement for your product safety.
- Streamline maintenance of CPS171D with the Memobase Plus software that automatically stores and documents all relevant sensor and process data.
- Approved for hazardous area use.

Specs at a glance

- **Measurement range** pH 0 to 14
- **Process temperature** 0 to 135 °C (32 to 275 °F)
- **Process pressure** 1 to 7 bar abs (14.5 to 101.5 psi)

Field of application: Keep the pH value of your batch in the optimum range and maximize your product yield with Memosens CPS171D. Thanks to its rugged design and long-term stability, it provides extremely

accurate, reproducible and reliable measuring values even after CIP/SIP and autoclaving. Memosens CPS171D is not the latest Memosens generation. To get information on the new Memosens CPS61E sensor with extended functionality, click [here](#).

Features and specifications

pH

Measuring principle

Potentiometric

Application

Hygienic and sterile applications, bioreactor, fermenter, biotechnology, pharmaceutical industry, foods

Characteristic

Digital pH electrodes for bioreactors and biotechnology production processes with ion trap for long-term stable reference

Measurement range

pH 0 to 14

Measuring principle

Ceramic diaphragm, ion-trap

Design

All shaft lengths with temperature sensor
Advanced gel technology
Digital electrode with Memosens technology

Material

Glass and ceramic

Dimension

Diameter: 12 mm (0.47 inch)
Shaft lengths: 120, 225, 360 and 425 mm
(4.72, 8.86, 14.2 and 16.7 inch)

pH

Process temperature

0 to 135 °C (32 to 275 °F)

Process pressure

1 to 7 bar abs (14.5 to 101.5 psi)

Temperature sensor

NTC 30k

Ex certification

IECEX, ATEX, NEPSI, FM, CSA

Connection

Inductive, digital connection head with Memosens technology

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