

# 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.sg.endress.com/CPS171D](http://www.sg.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)

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**Process pressure**

1 to 7 bar abs (14.5 to 101.5 psi)

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**Temperature sensor**

NTC 30k

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**Ex certification**

IECEX, ATEX, NEPSI, FM, CSA

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**Connection**

Inductive, digital connection head with Memosens technology

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