

# Digital non-glass pH sensor Memosens CPS77D

## Memosens ISFET electrode for food and life sciences industries



More information and current pricing:

[www.de.endress.com/CPS77D](http://www.de.endress.com/CPS77D)

### Benefits:

- Unbreakable for highest product safety
- Certified biocompatibility
- Suitable for hot steam sterilization and autoclaving
- Low maintenance thanks to long calibration intervals
- Six times higher CIP stability compared to conventional ISFET pH sensors
- Optional Pharma CoC available
- Maximum process safety through non-contact inductive signal transmission

### Specs at a glance

- **Measurement range** pH 0 to 14
- **Process temperature** -15 to 135°C (5 to 275°F)
- **Process pressure** Max. 11 bar abs at 100 °C (Max. 160 psi at 212 °F)

**Field of application:** Memosens CPS77D is the digital specialist for hygienic applications. Its bacteria-proof reference with contamination-resistant gel guarantees stable measurements. The sensor is sterilizable with hot steam, autoclavable and features an unbreakable PEEK shaft assuring highest product safety. **Memosens CPS77D is not the latest Memosens generation. To get information on the new Memosens CPS77E sensor with extended functionality, click [here](#).**

### Features and specifications

pH

**Measuring principle**

ISFET

**Application**

Hygienic and sterile applications, food industry, pharmaceutical industry, biotechnology

**Characteristic**

Sterilizable and autoclavable ISFET sensor for pH measurement  
Digital with Memosens technology

**Reference**

Double chamber reference system

**Measurement range**

pH 0 to 14

**Material**

Sensor shaft: PEEK

Seals: FFKM

Junction: ceramic

**Dimension**

Diameter: 12 mm (0.47 inch)

Shaft lengths: 120, 225 and 360 mm  
(4.72, 8.86 and 14.2 inch)

**Process temperature**

-15 to 135°C (5 to 275°F)

**Process pressure**

Max. 11 bar abs at 100 °C  
(Max. 160 psi at 212 °F)

**Temperature sensor**

Pt1000

**Connection**

Inductive, digital connection head with Memosens technology

pH

**Ingres protection**

IP 68 (10 m (33 ft) water column, 25 °C (77 °F), 45 days

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**Additional certifications**

3-A, FDA compatible

EHEDG Typ EL Class I aseptic

ASME BPE-2018

Regulation (EC) No. 1935/2004

USP <87>, USP <88> Class VI, 121 °C (250 °F)

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