

# Digital non-glass pH sensor Memosens CPS77D

## Memosens ISFET electrode for food and life sciences industries



More information and current pricing:

[www.at.endress.com/CPS77D](http://www.at.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. In addition, the Memosens digital technology combines maximum process and data integrity with simple handling. It resists corrosion and moisture, enables lab calibration and facilitates predictive maintenance.

### 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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