

# Digital non-glass pH sensor Memosens CPS97D

Memosens ISFET sensor for heavily polluted media in chemical processes, paper or paint production



More information and current pricing:

[www.at.endress.com/CPS97D](http://www.at.endress.com/CPS97D)

## Benefits:

- Unbreakable for highest product safety
- Open aperture for application in heavily soiled media
- Chemically stable reference gel for long-term stable measurements
- Application possible at low temperatures
- Low maintenance thanks to long calibration intervals
- Maximum process safety through non-contact inductive signal transmission
- Enables predictive maintenance due to storage of sensor and process-specific data

## Specs at a glance

- **Measurement range** pH 0 to 14
- **Process temperature** -15 to 110 °C (5 to 230 °F)
- **Process pressure** Max. 11 bar abs. at 100 °C (Max. 159.5 psi at 212 °F)

**Field of application:** Memosens CPS97D is the specialist for fibrous media or media with a high content of suspended solids such as dispersions, precipitation, emulsions. Its unbreakable shaft ensures a long operating life while the open aperture guarantees reliable measurement under harsh process conditions. 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**

Chemical industry, pulp and paper, primaries and metal, mining, minerals & metals

**Characteristic**

Unbreakable

Useable in highest clogging media, e.g. suspended solids, dispersion, precipitation reaction

Needs min. conductivity of  $>500\mu\text{S}/\text{cm}$

**Reference**

Stabilized gel reference system

**Measurement range**

pH 0 to 14

**Material**

Sensor shaft: PEEK

Sealing: FFKM

**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)

**Process temperature**

-15 to 110 °C (5 to 230 °F)

**Process pressure**

Max. 11 bar abs. at 100 °C  
(Max. 159.5 psi at 212 °F)

**Temperature sensor**

Pt1000

pH

**Connection**

Inductive, digital connection head with Memosens technology

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**Ingres protection**

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

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