

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.de.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. **Memosens CPS97D is not the latest Memosens generation. To get information on the new Memosens CPS97E sensor with extended functionality, click [here](#).**

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

Ingres protection

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

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