

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.th.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

Ingres protection

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

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