

Digital combined pH/ORP sensor Memosens CPS96D

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



More information and current pricing:

www.at.endress.com/CPS96D

Benefits:

- Simultaneous measurement of pH, ORP and rH values (in rH mode) for a better process overview
- Additional platinum electrode enables constant monitoring of reference impedance and thus sensor quality
- Robust and resistant to poisoning thanks to stabilized gel and reference with ion trap
- Not affected by fluctuations in pressure and temperature
- Maximum process safety through non-contact inductive signal transmission
- Enables predictive maintenance due to storage of sensor and process-specific data
- Reduced operating costs due to minimized process downtime and extended sensor lifetime

Specs at a glance

- **Measurement range** pH 0-14
- **Process temperature** max. 110°C (230°F)
- **Process pressure** max. 10 bar (145 psi)

Field of application: Memosens CPS96D is the expert for fibrous media or media with a high content of suspended solids such as dispersions, precipitation or emulsions. The open aperture guarantees the most reliable, simultaneous pH and ORP measurement for better process control and increased quality. Thanks to Memosens digital technology, CPS96D combines maximum process and data integrity with simple

operation. It resists corrosion and moisture, enables lab calibration and facilitates predictive maintenance.

Features and specifications

pH

Measuring principle

Potentiometric

Application

- Process applications - media with high contamination: emulsions, suspensions, precipitation reactions - min. conductivity >500 μ S/cm

Characteristic

- Rapid response - new, stabilised gel insensitive to contaminations

Measurement range

pH 0-14

Measuring principle

- Open aperture - double gel reference with ion trap
Pt-disc as additional ORP element.
rH measurement and control of the reference impedance.

Design

- All shaft lengths with temperature sensor - advanced gel technology - digital electrode with Memosens technology

Material

Glass

Dimension

Diameter: 12 mm (0.46 inch)
Shaft lengths: 120, 225, 360 and 425 mm
(4.68, 8.77, 14.04 and 16,57 inch)

Process temperature

max. 110°C
(230°F)

pH

Process pressure

max. 10 bar
(145 psi)

Temperature sensor

NTC 30k

Connection

Inductive, contactless connection head with Memosens technology

Ingres protection

IP68

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