

Digital ORP sensor Memosens CPS92E

Memosens 2.0 glass sensor for heavily polluted media in chemical industry, paper, pigment production



More information and current pricing:

www.at.endress.com/CPS92E

Benefits:

- Memosens 2.0 offers extended storage of calibration and process data, enabling better trend identification and providing a future-proof basis for predictive maintenance and enhanced IIoT services.
- Open aperture for application in heavily soiled media: Junction cannot be blocked by fibres or suspended solids.
- Not affected by fluctuations in pressure and temperature: Thanks to open aperture no diffusion potential can build up at the junction.
- Low maintenance and long lifetime due to stabilized gel filling
- Maximum process safety through non-contact inductive signal transmission
- Reduced operating costs thanks to minimized process downtime.

Specs at a glance

- **Measurement range** -1 500 to 1 500 mV
- **Process temperature** 0 to 110 °C (32 to 230 °F)
- **Process pressure** 0.8 to 14 bar (11.6 to 203 psi) (absolute)

Field of application: Memosens CPS92E with platinum cap is specialized on media with a high content of suspended solids such as dispersions, precipitations or emulsions. The open aperture prevents fouling and ensures the most reliable measurement. Thanks to Memosens 2.0 digital technology, CPS92E combines maximum process integrity with simple operation. It resists moisture, enables lab calibration and offers extended storage of calibration and process data providing the perfect basis for predictive maintenance.

Features and specifications

ORP / Redox

Measuring principle

Sensor ORP / Redox

Application

- Chemical processes

 - Pulp and paper industry

 - Contaminated media:
 - Solids
 - Emulsions
 - Precipitation reactions
 - Dispersions
-

Installation

Installation

Characteristic

Digital ORP electrodes with open aperture for contaminated media and integrated temperature sensor

Measurement range

-1 500 to 1 500 mV

Measuring principle

Gel compact electrode with open aperture and measuring part as platinum cap

Design

All shaft lengths with temperature sensor
Advanced gel technology

ORP / Redox

Material

Sensor shaft: Glass to suit process

ORP measuring element: Platinum

Metal lead: Ag/AgCl

O-ring: FKM

Process coupling: PPS fiber-glass reinforced

Nameplate: Ceramic metal oxide

Dimension

Diameter: 12 mm (0.47 inch)

Shaft lengths: 120, 225 and 360 mm
(4.72, 8.86 and 14.17 inch)

Process temperature

0 to 110 °C (32 to 230 °F)

Process pressure

0.8 to 14 bar (11.6 to 203 psi) (absolute)

Temperature sensor

NTC 30k

Ex certification

With ATEX, IECEx, CSA C/US, NEPSI, Japan Ex and INMETRO approvals for use in hazardous areas Zone 0, Zone 1 and Zone 2.

Connection

Inductive, contactless connection head with Memosens 2.0 technology

Ingres protection

IP68

More information www.at.endress.com/CPS92E