

## 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.apsc.endress.com/CPS92E](http://www.apsc.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.apsc.endress.com/CPS92E](http://www.apsc.endress.com/CPS92E)