

## Digital ORP sensor Ceraliquid CPS42D

Memosens glass electrode for applications with fast-changing medium compositions or low conductivity



### Benefits:

- Resistant to poisoning due to constant refilling of KCl bridge electrolyte and separate reference lead
- Applicable at very low conductivities ( $= 5 \mu\text{S}/\text{cm}$ ) thanks to liquid KCl electrolyte
- Suitable for cleaning in place (CIP) and sterilization in place (SIP)
- Perfectly suited for quickly changing media: Combination of liquid KCl electrolyte and ceramic diaphragm enables fast response time
- 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

More information and current pricing:

[www.au.endress.com/CPS42D](http://www.au.endress.com/CPS42D)

### Specs at a glance

- **Measurement range** -1500 mV - +1500 mV
- **Process temperature** -15°C - 130°C
- **Process pressure** max. 8bar

**Field of application:** Ceraliquid CPS42D is the digital high performer for harsh chemical applications, media with low conductivity or a considerable content of organic solvents. The sensor is designed for fast response guaranteeing high process safety even in applications with fast-changing media. Ceraliquid CPS42D is not the latest Memosens generation. To get information on the new Memosens CPS42E sensor with extended functionality, click [here](#).

---

## Features and specifications

---

### ORP / Redox

**Measuring principle**

Sensor ORP / Redox

---

**Application**

- Special applications with high requirements with regard to accuracy, speed.- rapidly changing composition of media, highly clogging media, low conductivities.

---

**Characteristic**

- Digital electrode with Memosens technology - gel-free, refillable electrolyte - greatest accuracy - can be subject to pressure to prevent clogging

---

**Measurement range**

-1500 mV - +1500 mV

---

**Measuring principle**

- Liquid filled compact electrode with ceramic diaphragm - platinum ring

---

**Dimension**

Diameter: 12 mm

Shaft lengths: 120, 225 mm

---

**Process temperature**

-15°C - 130°C

---

**Process pressure**

max. 8bar

---

**Ex certification**

ATEX

FM

CSA

---

**Connection**

Inductive transfer of digital signals.

---

ORP / Redox

**Ingres protection**

IP68

---

**Additional certifications**

EHEDG

---

More information [www.au.endress.com/CPS42D](http://www.au.endress.com/CPS42D)