# Digital ORP sensor Ceraliquid CPS42D

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


More information and current pricing:
www.endress.com/CPS42D

**Benefits:**

- Resistant to poisoning due to constant refilling of KCl bridge electrolyte and separate reference lead
- Applicable at very low conductivities (= 5 µS/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

### 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.endress.com/CPS42D**

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