

Digital ORP sensor Ceraliquid CPS42D

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



More information and current pricing:

www.apsc.endress.com/CPS42D

Benefits:

- Resistant to poisoning due to constant refilling of KCl bridge electrolyte and separate reference lead
- Applicable at very low conductivities ($= 5 \mu\text{S}/\text{cm}$) 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

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

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