

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.apsc.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. Thanks to Memosens digital technology, CPS42D combines maximum process and data integrity with simple operation. It

resists corrosion and moisture, enables lab calibration and facilitates predictive maintenance.

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

ORP / Redox

Connection

Inductive transfer of digital signals.

Ingres protection

IP68

Additional certifications

EHEDG

More information www.apsc.endress.com/CPS42D