# Digital ORP sensor Memosens CPS72E

# Memosens 2.0 ORP electrode for chemical processes and poisoning media

# 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.
- The sensor resists strong acids and bases and high organic loads.
- Its unique ion trap prevents poisoning of the junction and reference, ensuring a long sensor lifetime.
- Non-contact, inductive signal transmission maximizes process safety.
- Reduced process downtime and extended sensor lifetime minimize operating costs.

# Specs at a glance

- Measurement range -1 500 to 1 500 mV
- Process temperature 0 to 140 °C (32 to 284 °F)
- Process pressure 0.8 to 14 bar (11.6 to 203 psi) (absolute)

**Field of application:** Memosens CPS72E is the digital specialist for demanding processes. Its unique, contamination-resistant reference guarantees stable measurement in poisoning media but also in media with low conductivity. Thanks to Memosens 2.0 digital technology, CPS72E 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 and IIoT services.

# Features and specifications



More information and current pricing: www.endress.com/CPS72E



### ORP / Redox

#### Measuring principle

Sensor ORP / Redox

#### Application

Process technology and monitoring of processes with:

- Rapidly changing ORP values
- High proportion of electrode poisons, such as H2S

#### Characteristic

Digital ORP electrode for chemical process with an ion trap for poisonresistant reference

#### Measurement range

-1 500 to 1 500 mV

#### Measuring principle

Gel compact electrode with ceramic junction

#### Design

All shaft lengths with temperature sensor Advanced gel technology

#### Material

Sensor shaft: Glass to suit process ORP measuring element: Platinum Metal lead: Ag/AgCl Open aperture: Ceramic junction, zirconium dioxide O-ring: FKM Process coupling: PPS fiber-glass reinforced Nameplate: Ceramic metal oxide

#### Dimension

Diameter: 12 mm (0.47 inch) Shaft lengths: 120, 225, 360 and 425 mm (4.72, 8.86, 14.2 and 16.7 inch)

#### **Process temperature**

0 to 140 °C (32 to 284 °F)

# ORP / Redox

#### **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

#### Additional certifications

Additional certifications

More information www.endress.com/CPS72E

