Digital ORP sensor Memosens CPS12E

Memosens 2.0 ORP electrode for standard applications in process and water & wastewater industries

More information and current pricing:
www.apsc.endress.com/CPS12E

Benefits:

- Robust, low maintenance ORP sensor: Large, dirt-repellent PTFE junction protects from soiling by the medium. Long poison diffusion path prevents poisoning of the electrode reference.
- Suitable for harsh applications: Gold pin or platinum cap cover the full range of oxidizing or reducing media. Shaft glass ensures high chemical stability. The sensor is pressure stable up to 17 bar (246.5 psi) absolute.
- Memosens 2.0 technology enables the sensor to store more process and calibration data. It lays the basis for IIoT services and predictive maintenance.
- Extremely reliable measurement with to non-contact, inductive signal transmission results in increased process safety.
- Lab calibration and fast sensor replacement on site allow for minimized process downtimes, reducing operating costs.

Specs at a glance

- **Measurement range** -1500 mV to +1500 mV
- **Process temperature** -15 to 135 °C (5 to 275 °F)
- **Process pressure** 0.8 to 17 bar (11.6 to 246.5 psi) absolute

Field of application: Memosens CPS12E is the digital all-round ORP sensor. It measures reliably even in harsh applications or hazardous areas. Designed for low maintenance and a long operating life, the ORP sensor offers you best value for money. Memosens CPS12E features Memosens 2.0 digital technology that provides the perfect basis for predictive maintenance thanks to extended storage of calibration and

process data. The plug & play principle of Memosens allows for easy operation and more process uptime.

Features and specifications

ORP / Redox

Measuring principle
Sensor ORP / Redox

Application
Long-term monitoring and limit control in processes with stable process conditions
Water treatment

Characteristic
Digital ORP sensor for standard applications in process technology and environmental engineering with dirt-repellent PTFE junction and integrated temperature sensor

Measurement range
-1500 mV to +1500 mV

Measuring principle
Gel compact electrode with teflon junction and double gel reference
Measuring part as gold-pin or platinum ring

Design
All shaft lengths with temperature sensor

Advanced gel technology

ORP / Redox

Material

Sensor shaft: Glass to suit process

ORP measuring element: Platinum or gold

Metal lead: Ag/AgCl

Aperture: Ring-shaped PTFE diaphragm, sterilizable

O-ring: FKM

Process coupling: PPS fibre-glass reinforced

Nameplate: ceramic metal oxide

Dimension

Diameter: 12 mm (0.47 inch)
Shaft lengths: 120, 225 and 360 mm
(4.72, 8.86 and 14.17 inch)

Process temperature

-15 to 135 °C
(5 to 275 °F)

Process pressure

0.8 to 17 bar (11.6 to 246.5 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, digital connection head with Memosens 2.0 technology

ORP / Redox

Ingres protection

IP68

Additional certifications

Additional certifications

More information **www.apsc.endress.com/CPS12E**

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