

Digital ORP sensor Orbisint CPS12D

Memosens glass electrode for standard applications



Benefits:

- Robust electrode with long poison diffusion path, requires low maintenance due to large, dirt-repellent PTFE ring diaphragm
- Suitable for harsh applications: Process glass for highly alkaline media and pressure-stable up to 16 bar (232 psi)
- Various measuring elements for application in oxidizing or reducing media
- Maximum process safety through non-contact, inductive signal transmission
- Enables predictive maintenance due to storage of sensor and process-specific data
- Reduced operating costs thanks to minimized process downtime and extended sensor lifetime

More information and current pricing:

www.ca.endress.com/CPS12D

Specs at a glance

- **Measurement range** -1500 mV to +1500 mV
- **Process temperature** -15 to 135 °C (5 to 275 °F)
- **Process pressure** 0 to 16 bar (0 to 232 psi)

Field of application: Orbisint CPS12D is the digital all-rounder for process and environment technology. It measures reliably and accurately even in hazardous areas. Designed for low maintenance and a long operating life, the electrode offers you best value for money. Orbisint CPS12D is not the latest Memosens generation. To get information on the new Memosens CPS12E sensor with extended functionality, click [here](#).

Features and specifications

ORP / Redox

Measuring principle

Sensor ORP / Redox

Application

Standard applications in process and environment
Long-term monitoring of quiet stable processes

Characteristic

Digital, contactless electrode with Memosens technology
Very robust, heavy-duty applications, high pressure version

Measurement range

-1500 mV to +1500 mV

Measuring principle

Gel compact electrode with teflon diaphragm and double gel reference
Measuring part as gold-pin or platin ring

Design

All shaft lengths with temperature sensor
Advanced gel technology
Inductive, digital data transfer with Memosens technology

Material

Glass electrode with teflon diaphragm

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 to 16 bar
(0 to 232 psi)

ORP / Redox

Temperature sensor

NTC 30K

Ex certification

ATEX II 1G EEX ia IIC T3/T4/T6

FM/CSA Class 1 Div.2, in combination with CM42 and CPM153 transmitters

Connection

Inductive, digital connection head with Memosens technology

Ingres protection

IP68

Additional certifications

Biocompatibility validated according to ISO 10993-5:1993 and USP(current version)

TÜV certificate for pressure resistance up to 16 bar with triple overpressure safety

Electromagnetic compatibility complies with EN 61326:1997

More information www.ca.endress.com/CPS12D