

# Analog ORP sensor Orbisint CPS12

## 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

### Specs at a glance

- **Measurement range** -1500 mV to +1500 mV
- **Process temperature** max. 135°C (274°F)
- **Process pressure** max. 16bar (230psi)

More information and current pricing:

[www.ch.endress.com/CPS12](http://www.ch.endress.com/CPS12)

**Field of application:** Orbisint CPS12 is the all-rounder for ORP measurement in process and environmental applications. It performs reliably and accurately even in hazardous areas. Designed for low maintenance and a long operating life, the sensor offers you best value for money.

## Features and specifications

ORP / Redox

### Measuring principle

Sensor ORP / Redox

### Application

Standard applications in process and environment. Long-term monitoring, processes with little changes.

## ORP / Redox

**Characteristic**

Very robust, heavy-duty / high pressure, integrated potential matching.

**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 platinum-ring.

**Design**

All shaft lengths with temperature sensor  
Advanced gel technology

**Material**

Glass electrode with PTFE diaphragm and gold pin or platinum ring.

**Dimension**

Diameter: 12 mm (0.46 inch)  
Shaft lengths: 120, 225, 360 and 425 mm  
(4.68, 8.77, 14.04 and 16,57 inch)

**Process temperature**

max. 135°C (274°F)

**Process pressure**

max. 16bar (230psi)

**Ex certification**

Simple operational device, no certification necessary.

**Connection**

TOP68 connection head

**Ingres protection**

IP68

ORP / Redox

**Additional certifications**

Biocompatibility acc. ISO 10993-5 and USP (current version).

TÜV certificate for pressure resistance with min. triple overpressure safety.

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