Analog ORP sensor Orbisint CPS12

Glass electrode for standard applications

More information and current pricing:
www.at.endress.com/CPS12

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)

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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