

Analog pH sensor Orbisint CPS11

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)
- Optional salt ring for low conductivity applications such as boiler feed water and water for injection

Specs at a glance

- **Measurement range** pH 0-14
- **Process temperature** max. 135°C (274°F)
- **Process pressure** max. 16 bar (230 psi)

Field of application: Orbisint CPS11 is the all-rounder for pH measurement in process and environmental applications. It performs reliably and accurately even in highly alkaline media or hazardous areas. Designed for low maintenance and a long operating life, the sensor offers you best value for money.

Features and specifications

pH

Measuring principle

Potentiometric

Application

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

pH

Characteristic

Very robust, heavy-duty version / high pressure, integrated potential matching, flat membrane available.

Measurement range

pH 0-14

Measuring principle

Gel compact electrode with PTFE ring-diaphragm.

Design

- all shaft lengths with temperature sensor
- advanced gel technology.
- With dirt-repellent PTFE diaphragm.

Material

Glass / PTFE

Dimension

Diameter: 12 mm (0.46 inch) shaft length: 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. 16 bar (230 psi)

Temperature sensor

optional with integrated Pt100 or Pt1000

Ex certification

Simple operational equipment, no certification necessary.

Connection

TOP68 connection head

Ingress protection

IP 68

pH

Additional certifications

Biocompatibility validated acc. to ISO 10993-5 USP (current version).
TÜV certificate for pressure resistance 16 bar, min. triple overpressure safety.



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