

# Analog pH sensor Orbisint CPS11

## Glass electrode for standard applications



More information and current pricing:

[www.cz.endress.com/CPS11](http://www.cz.endress.com/CPS11)

### 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

**Ingres 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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