

# Digital pH sensor Orbisint CPS11D

## 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)
- Optional salt ring for low conductivity applications such as boiler feed water and water for injection
- 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.ch.endress.com/CPS11D](http://www.ch.endress.com/CPS11D)

### Specs at a glance

- **Measurement range** pH 0 to 14
- **Process temperature** 0 to 135 °C (32 to 275 °F)
- **Process pressure** 1 to 17 bar (15 to 246 psi)

**Field of application:** Orbisint CPS11D is the digital all-rounder for process and environmental technology. It measures reliably even in highly alkaline media or hazardous areas. Designed for low maintenance and a long operating life, the electrode offers you best value for money. Thanks to Memosens digital technology, CPS11D combines maximum process and data integrity with simple operation. It resists corrosion and moisture, enables lab calibration and facilitates predictive maintenance.

### Features and specifications

## pH

**Measuring principle**

Potentiometric

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**Application**

Long-term monitoring, processes with little change  
Water and wastewater treatment

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**Characteristic**

Analog, digital pH electrodes for standard applications in process and environmental technology  
Dirt-repellent PTFE diaphragm, built-in temperature sensor

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**Measurement range**

pH 0 to 14

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**Measuring principle**

Gel compact electrode with PTFE ring-diaphragm

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**Design**

All shaft lengths with temperature sensor  
Advanced gel technology  
Digital electrode with Memosens technology

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**Material**

Glass and PTFE

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**Dimension**

Diameter: 12 mm (0.47 inch)  
Shaft length: 120, 225 and 360 mm  
(4.72, 8.86 and 14.17 inch)

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**Process temperature**

0 to 135 °C (32 to 275 °F)

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**Process pressure**

1 to 17 bar (15 to 246 psi)

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**Temperature sensor**

NTC 30k

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pH

**Ex certification**

ATEX, FM, CSA, NEPSI

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**Connection**

Inductive, digital connection head with Memosens technology

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**Ingres protection**

IP68

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**Additional certifications**

Also available as SIL version

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More information [www.ch.endress.com/CPS11D](http://www.ch.endress.com/CPS11D)