

# Digital combined pH/ORP sensor Memosens CPS16D

## Memosens glass electrode for standard applications



More information and current pricing:

[www.au.endress.com/CPS16D](http://www.au.endress.com/CPS16D)

### Benefits:

- Simultaneous measurement of pH, ORP and rH values (in rH mode) for a better process overview
- Additional platinum electrode enables constant monitoring of reference impedance and thus sensor quality
- Robust and resistant to poisoning thanks to large PTFE ring diaphragm and reference with ion trap
- Suitable for harsh applications: Process glass for highly alkaline media and pressure-stable up to 17 bar (246 psi)
- 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

### Specs at a glance

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

**Field of application:** Memosens CPS16D is the digital all-rounder for simultaneous pH and ORP measurement offering better process control and increased quality. The sensor features a dirt-repellent PTFE diaphragm for process and environment applications with long-term stable conditions. Thanks to Memosens digital technology, CPS16D combines maximum process and data integrity with simple operation. It resists corrosion and moisture, enables lab calibration and facilitates predictive maintenance.

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## Features and specifications

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pH

**Measuring principle**

Potentiometric

**Application**

Standard applications in process and environment, long-term monitoring, processes with stable conditions, water treatment

**Characteristic**

Combination of pH and ORP electrode for standard applications in process technology and environmental engineering

Poison-resistant reference with ion trap

**Measuring principle**

Gel compact electrode with PTFE ring-diaphragm with ion trap

Pt-disc as additional ORP element

rH measurement and control of the reference impedance

**Design**

All shaft lengths with temperature sensor

Advanced gel technology

Digital electrode with Memosens technology

**Material**

Glass and PTFE

**Dimension**

Diameter: 12 mm (0.47 inch)

Shaft Lengths: 120, 225 and 360 mm

(4.72, 8.86 and 14.17 inch)

**Process temperature**

0 to 135 °C (32 to 275 °F)

**Process pressure**

1 to 17 bar (15 to 246 psi)

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pH

**Temperature sensor**

NTC 30K $\Omega$

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**Connection**

Inductive, digital connection head with Memosens technology

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**Ingres protection**

IP68

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