

# Digital combined pH/ORP sensor Memosens CPS16D

## Memosens glass electrode for standard applications



More information and current pricing:

[www.be.endress.com/CPS16D](http://www.be.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. Memosens CPS16D is not the latest Memosens generation. To get information on the new Memosens CPS16E sensor with extended functionality, click [here](#).

### Features and specifications

## pH

**Measuring principle**

Potentiometric

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**Application**

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

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**Characteristic**

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

Poison-resistant reference with ion trap

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**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

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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 Lengths: 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 30KΩ

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pH

**Connection**

Inductive, digital connection head with Memosens technology

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**Ingres protection**

IP68

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