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

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 not the latest Memosens generation and will be phased out soon. To get information on the new Memosens CPS11E sensor with extended functionality, click here.**
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.

Features and specifications
### pH

**Measuring principle**
Potentiometric

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

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

**Measurement range**
pH 0 to 14

**Measuring principle**
Gel compact electrode with PTFE ring-diaphragm

**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 length: 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)

**Temperature sensor**
NTC 30k
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<tr>
<th>pH</th>
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<tbody>
<tr>
<td><strong>Ex certification</strong></td>
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<tr>
<td>ATEX, FM, CSA, NEPSI</td>
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<tr>
<td><strong>Connection</strong></td>
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<tr>
<td>Inductive, digital connection head with Memosens technology</td>
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<tr>
<td><strong>Ingress protection</strong></td>
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<tr>
<td>IP68</td>
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<tr>
<td><strong>Additional certifications</strong></td>
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<td>Also available as SIL version</td>
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More information [www.us.endress.com/CPS11D](http://www.us.endress.com/CPS11D)