

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.at.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

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

pH

Ex certification

ATEX, FM, CSA, NEPSI

Connection

Inductive, digital connection head with Memosens technology

Ingres protection

IP68

Additional certifications

Also available as SIL version

More information www.at.endress.com/CPS11D