

Digital combined pH/ORP sensor Memosens CPS16D

Memosens glass electrode for standard applications



More information and current pricing:

www.pt.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.

Features and specifications

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)

pH

Temperature sensor

NTC 30K Ω

Connection

Inductive, digital connection head with Memosens technology

Ingres protection

IP68

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