

Digital pH sensor Orbipore CPS91D

Memosens glass sensor for heavily polluted media in chemical processes, paper or paint production



More information and current pricing:

www.apsc.endress.com/CPS91D

Benefits:

- Open aperture for application in heavily soiled media
- Low maintenance and long service life due to stabilized gel filling
- Not affected by fluctuations in pressure and temperature
- 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** 0 to 14 pH
- **Process temperature** 0 to 110 °C (32 to 230 °F)
- **Process pressure** 1 to 14 bar (15 to 203 psi)

Field of application: Orbipore CPS91D is the digital specialist for fibrous media or media with a high content of suspended solids such as dispersions, precipitation reactions or emulsions. The open aperture prevents fouling and guarantees you the most reliable measurement under extreme process conditions. Thanks to Memosens digital technology, CPS91D 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

Chemical processes, pulp and paper, flue gas cleaning, contaminated media

CharacteristicAnalog, digital pH electrodes
Open aperture for contaminated media,
optionally integrated temperature sensor**Measurement range**

0 to 14 pH

Measuring principle

Open aperture, double gel reference

DesignAll shaft lengths with temperature sensor
Advanced gel technology
Digital electrode with Memosens technology**Material**

Glass

DimensionDiameter: 12 mm (0.47 inch)
Shaft lengths: 120, 225, 360 and 425 mm
(4.72, 8.86, 14.17 and 16.73 inch)**Process temperature**

0 to 110 °C (32 to 230 °F)

Process pressure

1 to 14 bar (15 to 203 psi)

Temperature sensor

Optional with integrated Pt100 or Pt1000

pH

Ex certification

ATEX, FM

Connection

Inductive, contactless connection head with Memosens technology

Ingres protection

IP68

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