

Digital non-glass pH sensor Ceramax CPS341D

Memosens enamel electrode for food and life sciences industries



More information and current pricing:

www.endress.com/CPS341D

Benefits:

- Long-term stability over many years
- Hygienic design: Suitable for cleaning in place (CIP) and sterilization in place (SIP)
- High mechanical stability due to pH-sensitive enamel on a steel carrier
- Insensitive to soiling thanks to large pH measuring surface
- Maximum process safety through non-contact inductive signal transmission
- Enables predictive maintenance due to storage of sensor and process-specific data
- Reduced operating costs due to minimized process downtime and extended sensor lifetime

Specs at a glance

- **Measuring range** 0 to 10 pH (linear range) -2 to 14 pH (application)
- **Process temperature** 0 to 140 °C (32 to 280 °F)
- **Process pressure** 0.8 to 7 bar abs (11.6 to 101.5 psi)

Field of application: Ceramax CPS341D is the long runner for hygienic applications in food and life sciences industries. The sensor guarantees long-term stability and lowest maintenance wherever it is applied. Thanks to Memosens digital sensor technology, CPS341D 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

Food production, beverage production, quality control, pharmaceutical industry, biotechnology

Characteristic

Electrode with pH sensitive enamel and digital Memosens technology
Meets highest demands of measuring accuracy, pressure, temperature, sterility and durability

Measuring range

0 to 10 pH (linear range)

-2 to 14 pH (application)

Measuring principle

Ground diaphragm, liquid KCl-filled reference

Design

Only one shaft length, different hygienic process connectors
Integrated temperature sensor

Material

pH sensitive enamel on a steel carrier

Dimension

Diameter: 12 mm (0.47 inch)

Shaft length: 120 mm (4.72 inch)

Process temperature

0 to 140 °C

(32 to 280 °F)

Process pressure

0.8 to 7 bar abs

(11.6 to 101.5 psi)

pH

Temperature sensor

NTC 30K Ω

Connection

Contactless, inductive, digital connection head with Memosens technology

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