

# Digital non-glass pH sensor Ceramax CPS341D

## Memosens enamel electrode for food and life sciences industries



More information and current pricing:

[www.ca.endress.com/CPS341D](http://www.ca.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

- **Measurement range** pH -2 to 14
- **Process temperature** 0 to 140 °C (32 to 280 °F)
- **Process pressure** 0 to 7 bar abs (0 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**Measurement range**

pH -2 to 14

**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 to 7 bar abs

(0 to 101.5 psi)

**Temperature sensor**

NTC 30KΩ

pH

**Connection**

Contactless, inductive, digital connection head with Memosens technology

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