

# Digital pH sensor Ceragel CPS71D

## Memosens glass electrode for the chemical and life sciences industries



More information and current pricing:

[www.de.endress.com/CPS71D](http://www.de.endress.com/CPS71D)

### Benefits:

- Sensor resists strong acids and bases and high organic loads
- Suitable for CIP/SIP and autoclaving maintaining high accuracy
- Free from animal-based materials and from acrylamide
- 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** pH 0 to 14
- **Process temperature** 0 to 140 °C (32 to 284 °F)
- **Process pressure** 1 to 14 bar (15 to 203 psi)

**Field of application:** Ceragel CPS71D is the digital specialist for demanding processes and hygienic applications. Its contamination-resistant gel guarantees stable measurement even in flowing media or low conductivity. The sensor measures reliably at high temperatures and is non-toxic assuring highest safety. Ceragel CPS71D is not the latest Memosens generation. **To get information on the new Memosens sensors with extended functionality, click [CPS71E](#) for chemical applications and [CPS61E](#) for hygienic applications.**

### Features and specifications

pH

**Measuring principle**

Potentiometric

**Application**

Aggressive chemical and hygienic applications, process

**Characteristic**

Analog, digital pH single-rod measuring cells  
For chemical process, hygienic and sterile applications with an ion trap  
for poison-resistant reference

**Measurement range**

pH 0 to 14

**Measuring principle**

Ceramic diaphragm, ion-trap

**Design**

All shaft lengths with temperature sensor  
Advanced gel technology  
Digital electrode with Memosens technology

**Material**

Glass and ceramic

**Dimension**

Diameter: 12 mm (0.47 inch)  
Shaft lengths: 120, 225, 360 and 425 mm  
(4.72, 8.86, 14.2 and 16.7 inch)

**Process temperature**

0 to 140 °C (32 to 284 °F)

**Process pressure**

1 to 14 bar (15 to 203 psi)

**Temperature sensor**

NTC 30k

pH

**Ex certification**

ATEX, FM, CSA

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**Connection**

Inductive, digital connection head with Memosens technology

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**Ingres protection**

IP68

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**Additional certifications**

3A, biocompatibility

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