

Digital pH sensor Ceragel CPS71D

Memosens glass electrode for the chemical and life sciences industries



More information and current pricing:

www.ca.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

Connection

Inductive, digital connection head with Memosens technology

Ingres protection

IP68

Additional certifications

3A, biocompatibility

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