

# Digital pH sensor Ceraliquid CPS41D

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



More information and current pricing:

[www.apsc.endress.com/CPS41D](http://www.apsc.endress.com/CPS41D)

### Benefits:

- Resistant to poisoning due to constant refilling of KCl bridge electrolyte and separate reference lead
- Applicable at very low conductivities (= 0.1  $\mu\text{S}/\text{cm}$ ) thanks to liquid KCl electrolyte
- Suitable for cleaning in place (CIP) and sterilization in place (SIP)
- Perfectly suited for quickly changing media: Combination of liquid KCl electrolyte and ceramic diaphragm enables fast response time
- 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 0 to 14
- **Process temperature** 0 to 135 °C (32 to 275 °F)
- **Process pressure** 1 to 11 bar abs (15 to 160 psi)

**Field of application:** Ceraliquid CPS41D is the digital high performer for harsh chemical applications, media with low conductivity or a considerable content of organic solvents. The sensor is designed for fast response guaranteeing you high process safety even in applications with fast-changing media. Thanks to Memosens digital technology, CPS41D combines maximum process and data integrity with simple operation. It resists corrosion and moisture, enables lab calibration and facilitates predictive maintenance.

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## Features and specifications

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pH

**Measuring principle**

Potentiometric

**Application**

Chemical industry, organic chemicals, power stations, food industry, laboratory measurements

**Characteristic**

Analog or digital pH electrodes for process engineering with ceramic diaphragm and KCl liquid electrolyte

**Measurement range**

pH 0 to 14

**Measuring principle**

Liquid-KCl with ceramic diaphragm

**Design**All shaft lengths with temperature sensor  
Digital electrode with Memosens technology**Material**

Glass and ceramic

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

0 to 135 °C (32 to 275 °F)

**Process pressure**

1 to 11 bar abs (15 to 160 psi)

pH

**Temperature sensor**

NTC30k

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**Ex certification**

ATEX, FM, CSA

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**Connection**

Contactless, inductive, digital connection head with Memosens technology

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**Ingres protection**

IP68

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**Additional certifications**

3A, EHEDG

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