

# Analog pH sensor Ceraliquid CPS41

Glass electrode for applications with fast-changing medium compositions or low conductivity



More information and current pricing:

[www.be.endress.com/CPS41](http://www.be.endress.com/CPS41)

## 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

## Specs at a glance

- **Measurement range** pH 0-14
- **Process temperature** max. 135°C (274°F)
- **Process pressure** max. 10bar (145psi)

**Field of application:** Ceraliquid CPS41 is the analog high performer for pH measurement in harsh chemical applications and 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 quickly changing medium compositions.

## Features and specifications

pH

### Measuring principle

Potentiometric

pH

**Application**

- special applications with high requirements with regard to accuracy and speed - rapid changing composition of media, highly clogging media, low conductivities.

**Characteristic**

- for lowest conductivity - diaphragm with defined electrolyte flow - can be subject to pressure to prevent clogging - gel-free refillable electrolyte - fast response time

**Measurement range**

pH 0-14

**Measuring principle**

liquid-KCl with ceramic diaphragm

**Design**

- all shaft lengths with temperature sensor.

**Material**

glass / ceramic

**Dimension**

Diameter: 12mm (0.46 inch) shaft length: 120, 225, 360 and 425 mm (4.68, 8.77, 14.04 and 16,57 inch)

**Process temperature**

max. 135°C (274°F)

**Process pressure**

max. 10bar (145psi)

**Temperature sensor**

Optional with integrated Pt100

**Ex certification**

Simple operational equipment, no certification necessary.

pH

**Connection**

TOP68 connection head

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**Ingres protection**

IP 68

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**Additional certifications**

3A

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