

Analog pH sensor Ceraliquid CPS41

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



More information and current pricing:

www.endress.com/CPS41

Benefits:

- Resistant to poisoning due to constant refilling of KCl bridge electrolyte and separate reference lead
- Applicable at very low conductivities ($= 0.1 \mu\text{S/cm}$) 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

- **Measuring 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

Measuring 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

Ingress protection

IP 68

Additional certifications

3A

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