Digital pH sensor Ceraliquid CPS41D

Memosens glass electrode for the chemical and life sciences industries



Benefits:

- Resistant to poisoning due to constant refilling of KCl bridge electrolyte and separate reference lead
- Applicable at very low conductivities (= 0.1 µS/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. Ceraliquid CPS41D is not the latest Memosens generation. To get information on the new Memosens CPS41E sensor with extended functionality, click **here**.

Features and specifications

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)

Temperature sensor
NTC30k

pH

Ex certification
ATEX, FM, CSA

Connection
Contactless, inductive, digital connection head with Memosens technology

Ingress protection
IP68

Additional certifications
3A, EHEDG

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