

Digital pH sensor Memosens CPS41E

Memosens 2.0 pH electrode for demanding applications in the chemical and life sciences industries



Más información y precios actuales:

www.ar.endress.com/CPS41E

Ventajas:

- Memosens 2.0 for perfect support of IIoT, digital transformation and predictive maintenance: It provides enhanced storage of calibration and process data, enabling better trend identification.
- Suitable for harsh conditions: Continuous refilling of KCl bridge electrolyte and a separate reference lead prevent poisoning of the electrode.
- Application in quickly changing media: Memosens CPS41E offers a fast response time thanks to its liquid KCl electrolyte and ceramic junction.
- Liquid KCl electrolyte enables reliable measurement even at very low conductivities ($> 0.1 \mu\text{S}/\text{cm}$).
- Suitable for cleaning in place (CIP) and sterilization in place (SIP)
- Inductive signal transmission eliminates any interference by moisture, leading to safer processes.
- Reduced operating costs: Sensor calibration and regeneration in the lab allows for less process downtime and extends the sensor lifetime.

Resumen de especificaciones

- **Rango de medición** Application A ▪ pH: 1 to 12 Application B ▪ pH: 0 to 14
- **Temperatura del proceso** Application A: -15 to 80 °C (5 to 176 °F) Application B: 0 to 135 °C (32 to 275 °F)
- **Presión de proceso** 0.8 to 11 bar (11.6 to 159.5 psi) absolute

Ámbito de aplicación: Memosens CPS41E features a liquid KCl electrolyte and a ceramic junction making it extremely suitable for harsh chemical applications, fast-changing media and liquids with low conductivity or high organic content. Its integrated Memosens 2.0 digital

technology enables extended data storage and lab calibration which results in easier operation and more process uptime and provides the perfect basis for predictive maintenance. The non-contact signal transmission ensures integrity of your process.

Características y especificaciones

pH

Measuring principle

Potenciométrico

Aplicación

Media with very low conductivity or a high proportion of organic solvents or alcohol:

- Chemical industry
- Organic chemicals
- Power stations
- Laboratory measurements

Característica

Digital pH electrode for process engineering with ceramic junction and KCl liquid electrolyte

Rango de medición

Application A

- pH: 1 to 12

Application B

- pH: 0 to 14

Principio de medición

Liquid-KCl compact electrode with ceramic junction

pH

Diseño

All shaft lengths with temperature sensor

Material

Sensor shaft: Glass to suit process

pH membrane glass: Type A and B

Metal lead: Ag/AgCl

Open aperture: Ceramic junction, zirconium dioxide

O-ring: FKM

Process coupling: PPS fiber-glass reinforced

Nameplate: Ceramic metal oxide

Dimensión

Diameter: 12 mm (0.47 inch)

Shaft length: 120, 225, 360 and 425 mm
(4.72, 8.86, 14.17 and 16.73 inch)

Temperatura del proceso

Application A: -15 to 80 °C (5 to 176 °F)

Application B: 0 to 135 °C (32 to 275 °F)

Presión de proceso

0.8 to 11 bar (11.6 to 159.5 psi) absolute

Sensor de temperatura

NTC 30K

Certificación Ex

With ATEX, IECEx, CSA C/US, NEPSI, Japan Ex and INMETRO approvals for use in

hazardous areas Zone 0, Zone 1 and Zone 2.

pH

Conexión

Inductive, digital connection head with Memosens 2.0 technology

Protección contra ingreso

IP68

Certificados adicionales

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