

Digital pH sensor Memosens CPS31E

Memosens 2.0 glass electrode for application in drinking water and swimming pools



Thông tin thêm và mức tính giá hiện tại:

www.apsc.endress.com/CPS31E

Lợi ích:

- **Reliable:** Ceramic junction ensures reliable measurement at low conductivities. For minimum conductivities, 3 junctions are the best choice.
- **Robust:** The optional salt storage provides for extended operating time.
- **Precise:** The sensor shows minimum drift thanks to a very low level of ion depletion in electrolyte.
- **Memosens 2.0** offers extended storage of calibration and process data. These data are the ideal basis for predictive maintenance and can also be used to develop and provide enhanced IIoT services.
- **Safe:** Non-contact, inductive, digital signal transmission eliminates errors due to moisture.
- **Cost-efficient:** Fast sensor exchange in the field increases process uptime and regeneration extends the sensor lifetime.

Tổng quan về thông số kỹ thuật

- **Measurement range** pH 1 to 13
- **Process temperature** -15 to 80 °C (5 to 176 °F)
- **Process pressure** 0.8 to 4 bar (11.6 to 58 psi) (absolute)

Phạm vi ứng dụng: Memosens CPS31E is the expert for pH compensation in disinfection processes. It delivers stable measurement results, ensuring safe swimming pool and drinking water. Thanks to Memosens 2.0 digital technology, CPS31E provides the perfect data basis for predictive maintenance, offers easy operation and more process uptime since it can be calibrated in the laboratory and quickly exchanged on site. The sensor resists moisture and its 3 optional junctions make it suitable for minimum conductivity.

Tín năng và thông số kỹ thuật

pH

Measuring principle

Potentiometric

Application

- Drinking water
 - Swimming pool water
 - pH compensation during the measurement of free chlorine
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Characteristic

Digital pH electrode for standard applications in drinking water and swimming pool water

Measurement range

pH 1 to 13

Measuring principle

Gel filled reference with one or three ceramic junctions with optional salt storage

Design

All shaft lengths with temperature sensor

pH

Material

Sensor shaft: Glass to suit process

pH membrane: glass Type A

Metal lead Ag/AgCl

Open aperture: Ceramic junction

O-ring: FKM

Process coupling: PPS fiber-glass reinforced

Nameplate: Ceramic metal oxide

Dimension

Diameter: 12 mm (0.47 inch)

Shaft length: 120 mm (4.70 inch)

Process temperature

-15 to 80 °C (5 to 176 °F)

Process pressure

0.8 to 4 bar (11.6 to 58 psi) (absolute)

Temperature sensor

NTC 30k

Ex certification

With ATEX, IECEx, CSA C/US, NEPSI, Japan Ex and INMETRO approvals for use in hazardous areas Zone 0, Zone 1 and Zone 2.

Connection

Inductive, contactless connection head with Memosens 2.0 technology

Ingres protection

IP68

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