

# Digital pH sensor Memosens CPS31E

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



Meer informatie en actuele prijzen:

[www.be.endress.com/CPS31E](http://www.be.endress.com/CPS31E)

### Voordelen:

- **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.

### Overzicht specificaties

- **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)

**Toepassingsgebied:** 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.

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## Kenmerken en specificaties

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pH

**Meetprincipe**

Potentiometric

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**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

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**Measurement range**

pH 1 to 13

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**Measuring principle**

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

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**Design**

All shaft lengths with temperature sensor

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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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