

# Digital pH sensor Memosens CPS31D

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



More information and current pricing:

[www.endress.com/CPS31D](http://www.endress.com/CPS31D)

### Benefits:

- Reliable measurement at minimum conductivity thanks to three diaphragms
- Low drift by very low level of ion depletion in electrolyte
- Optional salt ring for extended operating 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 1 to 12
- **Process temperature** 0 to 80 °C (32 to 176 °F)
- **Process pressure** 1 to 4 bar (15 to 60 psi)

**Field of application:** Memosens CPS31D is the digital expert for pH compensation in disinfection processes. Its three diaphragms make it suitable for minimum conductivity while its low drift guarantees stable measurement. The sensor makes sure that swimming pool water is agreeable and drinking water tasteful. Memosens CPS31D is not the latest Memosens generation. To get information on the new Memosens CPS31E sensor with extended functionality, click [here](#).

### Features and specifications

pH

**Measuring principle**

Potentiometric

**Application**Drinking water and swimming pool water,  
pH compensation for measuring free chlorine**Characteristic**

Standard applications in water, long lifetime

**Measurement range**

pH 1 to 12

**Measuring principle**Gel filled reference with one or three diaphragms, optional  
saltring**Design**

Shaft with temperature sensor

**Material**

Glass and Ceramic

**Dimension**Diameter: 12 mm (0.47 inch)  
Shaft length: 120 mm (4.70 inch)**Process temperature**0 to 80 °C  
(32 to 176 °F)**Process pressure**1 to 4 bar  
(15 to 60 psi)**Temperature sensor**

NTC 30k

pH

**Ex certification**

None

---

**Connection**

Memosens plug-in head for digital, non-contact data transmission

---

**Ingres protection**

IP68

---

More information [www.endress.com/CPS31D](http://www.endress.com/CPS31D)