

## Memosens CPS47D



### Benefits:

- Unbreakable for highest product safety
- Resistant to poisoning thanks to constant refilling of KCl bridge electrolyte and separate reference lead
- Suitable for sterilization with hot steam
- Low maintenance thanks to long calibration intervals
- 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** -15 to 135 °C (5 to 275 °F)
- **Process pressure** Max. 11 bar abs at 100 °C (max. 160 psi at 212 °F)

**Field of application:** Memosens CPS47D is the digital high performer with liquid KCl reference for media with low conductivity or high organic solvents content. Designed for fast response, it measures accurately even in applications with fast-changing media. Its unbreakable shaft ensures best product safety. **Memosens CPS47D is not the latest Memosens generation. To get information on the new Memosens CPS47E sensor with extended functionality, click [here](#).**

### Features and specifications

pH

Measuring principle

## pH

**Application**

High accuracy, clogging media, high concentration of organic solvents, low conductivities

**Characteristic**

Sterilizable and autoclavable ISFET sensor for pH measurement  
Digital with Memosens technology

**Reference**

Liquid KCl

**Measurement range**

pH 0 to 14

**Material**

Sensor shaft: PEEK

Seals: FFKM

Junction: ceramic

**Dimension**

Diameter: 12 mm (0.47 inch)

Shaft lengths: 120, 225 and 360 mm  
(4.72, 8.86 and 14.17 inch)

**Process temperature**

-15 to 135 °C (5 to 275 °F)

**Process pressure**

Max. 11 bar abs at 100 °C (max. 160 psi at 212 °F)

**Temperature sensor**

Pt1000

**Connection**

Inductive, digital connection head with Memosens technology

**Ingress protection**

IP 68 (10 m (33 ft) water column, 25 °C (77 °F), 45 days)

pH

**Additional certifications**

3-A, FDA compatible

EHEDG Typ EL Class I aseptic

ASME BPE-2018

Regulation (EC) No. 1935/2004

USP <87>, USP <88> Class VI, 121 °C (250 °F)

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