

# Digital non-glass pH sensor Memosens CPS47D

Memosens ISFET electrode for the chemical, life sciences and food industries



## Lợi ích:

- 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

Thông tin thêm và mức tính giá hiện tại:

[www.apsc.endress.com/CPS47D](http://www.apsc.endress.com/CPS47D)

## Tổng quan về thông số kỹ thuật

- **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)

**Phạm vi ứng dụng:** 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. In addition, the Memosens digital technology combines maximum process and data integrity with simple handling. It resists corrosion and moisture, enables lab calibration and facilitates predictive maintenance.

## Tín năng và thông số kỹ thuật

pH

**Measuring principle**

ISFET

**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

pH

**Ingres protection**

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

---

**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)

---

Thông tin bổ sung [www.apsc.endress.com/CPS47D](http://www.apsc.endress.com/CPS47D)