

Digital non-glass pH sensor Memosens CPS47D

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



More information and current pricing:

www.ch.endress.com/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. 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.

Features and specifications

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)

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