

Digital non-glass pH sensor Tophit CPS471D

Memosens ISFET electrode for food and life sciences industries



More information and current pricing:

www.ch.endress.com/CPS471D

Benefits:

- Unbreakable for highest product safety
- Certified biocompatibility
- Suitable for sterilization and autoclaving
- 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 thanks 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. 10 bar at 100 °C (Max. 145 psi at 212 °F)

Field of application: Tophit CPS471D is the digital specialist for hygienic applications. Its contamination-resistant gel guarantees stable measurement for a solid process database. The sensor is sterilizable and autoclavable and features an unbreakable PEEK shaft assuring highest safety of your products. Thanks to Memosens digital technology, CPS471D combines maximum process and data integrity with simple operation. It resists corrosion and moisture, enables lab calibration and facilitates predictive maintenance.

Features and specifications

pH

Measuring principle

ISFET

Application

Hygienic and sterile applications, food industry, pharmaceutical industry, biotechnology

Characteristic

Sterilizable and autoclavable ISFET sensor for the pH measurement
Analog or digital sensors with Memosens technology

Measurement range

pH 0 to 14

Measuring principle

Ceramic diaphragm, double chamber reference, double gel

Design

All shaft lengths with temperature sensor
Advanced gel technology

Material

PEEK, Ceramics und EPDM

Dimension

Diameter: 12 mm (0.47 inch)
Shaft lengths: 120, 225, 360 and 425 mm
(4.72, 8.86, 14.2 and 16.7 inch)

Process temperature

-15 to 135 °C
(5 to 275 °F)

Process pressure

Max. 10 bar at 100 °C
(Max. 145 psi at 212 °F)

Temperature sensor

Pt1000

pH

Ex certification

ATEX, FM, CSA

Connection

Contactless, inductive, digital connection head with Memosens technology

Ingres protection

IP68

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