

# Digital non-glass pH sensor Tophit CPS471D

## Memosens ISFET electrode for food and life sciences industries



More information and current pricing:

[www.cz.endress.com/CPS471D](http://www.cz.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

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**Connection**

Contactless, inductive, digital connection head with Memosens technology

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**Ingres protection**

IP68

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