

Analog non-glass pH sensor Tophit CPS471

ISFET electrode for food and life sciences industries



More information and current pricing:

www.be.endress.com/CPS471

Benefits:

- Unbreakable for highest product safety
- Certified biocompatibility
- Suitable for sterilization and autoclaving
- Low maintenance thanks to long calibration intervals

Specs at a glance

- **Measurement range** pH 0-14
- **Process temperature** -15°C ... 135°C (5°F - 275°F)
- **Process pressure** max. 10 bar/100°C (145 psi/212°F)

Field of application: Tophit CPS471 is the analog specialist for sterile and hygienic applications. Its state-of-the-art gel is contamination resistant and 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.

Features and specifications

pH

Measuring principle

ISFET

Application

- Hygienic and sterile applications - non-glass, break-proof - low temperatures - pharmaceuticals, biotechnology - contaminating media

pH

Characteristic

- gel-compact electrode - SIP and autoclavable - rapid response at low temperature - lower amount of maintenance required than with glass - biocompatible gel inside (acryle and polyacrylamide free)- overhead installation

Measurement range

pH 0-14

Measuring principle

Ceramic diaphragm, double chamber reference, double gel

Design

- all shaft lengths with temperature sensor - advanced gel technology

Material

PEEK / metal oxide / ceramic / EPDM

Dimension

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

Process temperature

-15°C ... 135°C
(5°F - 275°F)

Process pressure

max. 10 bar/100°C (145 psi/212°F)

Temperature sensor

Optional with integrated Pt1000

Ex certification

ATEX
FM

Connection

TOP68 connection head

pH

Ingres protection

IP68

Additional certifications

EHEDG, 3A, biocompatibility

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