

Analog non-glass pH sensor Tophit CPS441

ISFET electrode for the chemical, life sciences
and food industries



More information and current pricing:

www.ch.endress.com/CPS441

Benefits:

- Unbreakable for highest product safety
- Resistant to poisoning thanks to constant refilling of KCl bridge electrolyte and separate reference lead
- Suitable for sterilization
- 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 CPS441 is the analog high performer for media with low conductivity or a high content of organic solvents. Designed for fast response, it accurately measures even in fast-changing medium compositions. Its unbreakable shaft ensures absolute safety of your products.

Features and specifications

pH

Measuring principle

ISFET

Application

- Special applications with high requirements with regard to accuracy and speed - non-glass, break-proof - low temperatures - rapidly changing composition of media - highly clogging media - low conductivities

pH

Characteristic

- Ion sensitive field effect transistor (ISFET) technology - overhead installation - rapid response at low temperatures - lower amount of maintenance required than with glass - 3A

Measurement range

pH 0-14

Measuring principle

- Ceramic diaphragm - liquid lead

Design

- All shaft lengths with temperature sensor

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

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