

Digital non-glass pH sensor Tophit CPS491D

Memosens ISFET sensor for heavily polluted media in chemical processes, paper or paint production



More information and current pricing:

www.at.endress.com/CPS491D

Benefits:

- Unbreakable for highest product safety
- Open aperture for application in heavily soiled media
- Application possible at low temperatures
- 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 0-14
- **Process temperature** max. 130°C (266°F)
- **Process pressure** max. 10 bar/100°C (145 psi/212°F)

Field of application: Tophit CPS491D is the specialist for fibrous media or media with a high content of suspended solids such as dispersions, precipitation, emulsions. Its unbreakable shaft ensures a long operating life while the open aperture guarantees reliable measurement under harsh process conditions. Thanks to Memosens digital technology, CPS491D 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

- Process applications - non-glass, break-proof - low temperatures - min. conductivity >500 μ S/cm - emulsions, suspensions, organic solvents

Characteristic

- Rapid response at low temperatures - stabilised gel insensitive to contamination - lower amount of maintenance required than with glass - overhead installation

Measurement range

pH 0-14

Measuring principle

- Open aperture - double gel reference

Design

- All shaft lengths with temperature sensor - advanced gel technology

Material

PEEK / metal oxide / Perfluorelastomere

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

max. 130°C (266°F)

Process pressure

max. 10 bar/100°C (145 psi/212°F)

Temperature sensor

Pt1000.

pH

Ex certification

ATEX

FM

Connection

Contactless, inductive, digital connection head with Memosens technology

Ingres protection

IP68

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