

# Analog pH sensor Orbipac CPF81

## Compact electrode for wastewater, primaries and metal



More information and current pricing:

[www.apsc.endress.com/CPF81](http://www.apsc.endress.com/CPF81)

### Benefits:

- Suitable for flow and immersion installation
- Long time stable: Second electrolyte bridge for better protection against electrode poisoning ions such as  $S^{2-}$  or  $CN^{-}$
- Robust polymer housing protects against mechanical damage
- Optional flat membrane suitable for high flow rates, fibrous media, and mining applications

### Specs at a glance

- **Measurement range** pH 0-14
- **Process temperature** -10°C - 110°C (14°F - 230°F)
- **Process pressure** max. 10 bar (145 psi)

**Field of application:** Orbipac CPF81 is the analog simple solution for pH measurement in harsh environments. It measures reliably and accurately even in fibrous media and at high flow rates. With its integrated assembly, the electrode saves you space and time during flow or immersion installation.

## Features and specifications

pH

### Measuring principle

Potentiometric

### Application

Water, waste water, process, galvanic

pH

**Characteristic**

Resistent against electrolyte poisoning and dirt repellent gel-electrode including process connection NPT 3/4". Optional with amplifier.

**Measurement range**

pH 0-14

**Measuring principle**

Gel-compact electrode with double chamber reference system, kalium nitrate bridge electrolyte and PTFE-diaphragm.

**Design**

Compact electrode in PPS housing with NPT3/4" process connection.

**Material**

PPS / glass / PTFE

**Dimension**

Length: 120 mm  
(4.68 inch)

**Process temperature**

-10°C - 110°C  
(14°F - 230°F)

**Process pressure**

max. 10 bar  
(145 psi)

**Temperature sensor**

Optional with integrated Pt100.

**Ex certification**

ATEX  
FM

**Connection**

TOP68 connection head or fixed cable

pH

Ingres protection  
IP68

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