

# Manual or automatic retractable assembly Cleanfit CPA871

## Flexible process assembly for the water & wastewater and chemical industries



More information and current pricing:

[www.si.endress.com/CPA871](http://www.si.endress.com/CPA871)

### Benefits:

- Highest operational safety: Intelligent functions prevent the assembly from moving into the process without sensor and the sensor from moving out of the process while it is in measuring position.
- Suitable for demanding applications: The optional immersion chamber eliminates problems due to sticky media.
- Robust assembly design: The steel support housing guarantees mechanical stability.
- Flexible adaption to your process: A wide variety of process connections and wetted materials are available, even for corrosive media or hazardous areas.

### Specs at a glance

- **Process temperature** -10 to 140 °C (14 to 284 °F) for all materials except PVDF and conductive PVDF -10 to 100 / 90 °C (14 to 212 / 194 °F) for PVDF and conductive PVDF materials
- **Process pressure** Stainless steel, Alloy C22, PEEK: 16 bar up to 140 °C (232 psi up to 284 °F) PVDF, conductive PVDF: Basic version: 16 bar up to 100 °C (232 psi up to 212 °F) Immersion chamber version: 4 bar to 90 °C (58 psi up to 194 °F)

**Field of application:** Cleanfit CPA871 guarantees the highest operational safety in both standard and demanding applications. Its intelligent functions prevent any leakage of medium during operation, cleaning or calibration, offering optimum protection of the process and operating personnel. The retractable assembly flexibly adapts to your application. Be it long immersion depths in sticky media, aggressive environments or hazardous areas, you choose the right material and specification to suit your application.

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## Features and specifications

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pH

**Measuring principle**

Potentiometric

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**Application**

Water and wastewater including sea water, chemical industry, oil and gas, electricity and energy, hazardous areas, primaries and metals

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**Installation**

Retractable process assembly

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**Characteristic**

Open and closed tanks, piping

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**Design**

Robust and safe style  
Manual or pneumatic

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**Material**

Seals: EPDM, FPM (Viton) or FFKM  
Immersion tube, process connection, service chamber: Stainless steel  
1.4404 Ra < 0.76, PEEK,  
Alloy C22 Ra < 0.76, PVDF, conductive PVDF

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**Dimension**

Immersion depth: 32.2 to 188.6 mm (1.27 to 7.40 inch), depending on process adaption

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**Process temperature**

-10 to 140 °C (14 to 284 °F) for all materials except PVDF and conductive PVDF  
-10 to 100 / 90 °C (14 to 212 / 194 °F) for PVDF and conductive PVDF materials

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## pH

### Process pressure

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PVDF, conductive PVDF:

Basic version: 16 bar up to 100 °C (232 psi up to 212 °F)

Immersion chamber version:

4 bar to 90 °C (58 psi up to 194 °F)

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### Connection

Clamp 2", ISO2852, ASME BPE-2012, Clamp 2½", Flange DN 40, DN50, DN65, DN80, EN1092-1, ASME B16.5, 10K50, JIS B2220, 10K80, Thread NPT 1½", Thread ISO 228 G1¼

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## Conductivity

### Measuring principle

Sensor ORP / Redox

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### Application

Water and wastewater including sea water, chemical industry, oil and gas, electricity and energy, hazardous areas, mining, minerals & metals

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### Installation

Retractable process assembly

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### Characteristic

Open and closed tanks, piping

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### Material

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Immersion tube, process connection, service chamber: Stainless steel

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## Conductivity

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## Oxygen

### Measuring principle

Amperometric oxygen measurement

### Application

Water and wastewater including sea water, chemical industry, oil and gas, electricity and energy, hazardous areas, mining, minerals & metals

### Installation

Retractable process assembly

### Characteristic

Open and closed tanks, piping

## Oxygen

### Design

Robust and safe style  
Manual or pneumatic

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### Material

Seals: EPDM, FPM (Viton) or FFKM  
Immersion tube, process connection, service chamber: Stainless steel  
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