

## Digital ORP sensor Orbipac CPF82D

Memosens compact electrode for wastewater, primaries and metal



More information and current pricing:

[www.sg.endress.com/CPF82D](http://www.sg.endress.com/CPF82D)

### 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  $CN^-$  ions
- Robust polymer housing protects against mechanical damage
- Maximum process safety through non-contact inductive signal transmission
- Enables predictive maintenance due to storage of sensor and process-specific data
- Reduced operating costs thanks to minimized process downtime and extended sensor lifetime

### Specs at a glance

- **Measurement range** -1500mV to +1500mV
- **Process temperature** 0 to 80 °C (32 to 170 °F)
- **Process pressure** 1 to 10 bar abs at 80 °C (15 to 145 psi abs at 176 °F)

**Field of application:** Orbipac CPF82D is the digital simple solution for ORP measurement in harsh environments. Its large, dirt-repellent PTFE diaphragm guarantees low maintenance while its integrated assembly saves space and time during flow or immersion installation. Thanks to Memosens digital technology, CPF82D combines maximum process and data integrity with simple operation. It resists corrosion and moisture, enables lab calibration and simplifies predictive maintenance.

### Features and specifications

## ORP / Redox

**Measuring principle**

Sensor ORP / Redox

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**Application**

Flotation, leaching, neutralization, outlet monitoring

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**Characteristic**

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

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**Measurement range**

-1500mV to +1500mV

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**Measuring principle**

Gel-compact electrode with double chamber reference system, potassium nitrate bridge electrolyte and PTFE-diaphragm, platinum ring

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**Design**

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

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**Material**

Housing: PPS

ORP electrode: platinum ring

Double chamber reference system: KNO<sub>3</sub> and KCl/AgCl

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**Dimension**

Diameter: 22 mm (0.87 inch)

Length: 150 mm (5.91 inch)

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**Process temperature**

0 to 80 °C (32 to 170 °F)

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**Process pressure**

1 to 10 bar abs at 80 °C

(15 to 145 psi abs at 176 °F)

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**Temperature sensor**

NTC

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ORP / Redox

**Ex certification**

(optional) FM IS NI Cl. I Div.1&2, Groups A-D

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**Connection**

Process connection: NPT 3/4"

Memosens plug

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**Ingres protection**

IP 68

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