

## Digital ORP sensor Memosens CPF82E

### Memosens 2.0 compact electrode for wastewater, mining, minerals and metal industries



Lisätietoja ja ajankohtainen hinnasto:

[www.fi.endress.com/CPF82E](http://www.fi.endress.com/CPF82E)

#### Edut:

- Memosens 2.0 offers extended storage of calibration and process data, enabling better trend identification and providing a future-proof basis for predictive maintenance and enhanced IIoT services.
- Long time stable: Double junction provides better protection against electrode poisoning ions such as  $S^{2-}$  or  $CN^-$ .
- Robust polymer housing protects against mechanical damage.
- The sensor is suitable for flow and immersion installation
- Non-contact, inductive signal transmission maximizes process safety.
- Minimum process downtime and extended sensor lifetime reduce operating costs.

#### Tärkeimmät tekniset tiedot

- **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)

**Käyttöalue:** Memosens CPF82E is the digital, robust solution for ORP measurement in harsh environments. Its large, dirt-repellent PTFE junction guarantees low maintenance while its integrated assembly offers easy and compact installation. Thanks to Memosens 2.0 digital technology, CPF82E combines maximum process integrity with simple operation. It resists moisture, enables lab calibration and offers extended storage of calibration and process data providing the perfect basis for predictive maintenance.

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## Ominaisuudet ja tiedot

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### ORP / Redox

**Mittausperiaate**

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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ORP / Redox

**Temperature sensor**

NTC

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**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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