

Digital ORP sensor Memosens CPS62E

Memosens 2.0 ORP electrode for the chemical and life sciences industries



Lisätietoja ja ajankohtainen hinnasto:

www.fi.endress.com/CPS62E

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.
- Sensor resists strong acids and bases and high organic loads.
- Maintains high accuracy even after CIP/SIP or autoclaving.
- Free from animal-based materials and from acrylamide.
- Upside-down mounting option allows for flexible installation.
- Maximum process safety is ensured by non-contact, inductive signal transmission.
- Minimized process downtime and extended sensor lifetime result in reduced operating costs.

Tärkeimmät tekniset tiedot

- **Measurement range** –1 500 to 1 500 mV
- **Process temperature** 0 to 100 °C (32 to 212 °F) 0 to 140 °C (32 to 284 °F) (140 °C (284 °F) or sterilization only)
- **Process pressure** 0.8 to 7 bar (11.6 to 101.5 psi) absolute

Käyttöalue: Memosens CPS62E is the digital specialist for demanding processes and hygienic applications. Its contamination-resistant gel guarantees stable measurement even in flowing media, in low conductivities and at high temperatures. Thanks to Memosens 2.0 digital technology, CPS62E combines maximum process integrity with simple operation. It resists moisture and enables lab calibration. It offers extended storage of calibration and process data providing the perfect basis for predictive maintenance.

Ominaisuudet ja tiedot

ORP / Redox

Mittausperiaate

Sensor ORP / Redox

Application

Hygiene and sterile applications (sterilizable, autoclavable):

- Fermenter
- Biotechnology
- Pharma

Characteristic

Digital ORP electrode for hygienic production processes with ion trap for long-term stable reference

Measurement range

-1 500 to 1 500 mV

Measuring principle

Gel compact electrode with ceramic junction and ion trap
Measuring element platinum cap

Design

All shaft lengths with temperature sensor
Advanced gel technology

Material

Sensor shaft: Glass to suit process

Metal lead: Ag/AgCl

Open aperture: Ceramic junction,
zirconium dioxide

ORP measuring element: Platinum

O-ring: FKM

Process coupling: PPS fiber-glass reinforced

Nameplate: Ceramic metal oxide

Dimension

Diameter: 12 mm (0.46 inch)

Shaft lengths: 120, 225 and 360 mm
(4.68, 8.77 and 14.04 inch)

ORP / Redox

Process temperature

0 to 100 °C (32 to 212 °F)

0 to 140 °C (32 to 284 °F) (140 °C (284 °F) or sterilization only)

Process pressure0.8 to 7 bar (11.6 to 101.5 psi) absolute

Temperature sensorNTC 30k

Ex certificationWith ATEX, IECEx, CSA C/US, NEPSI, Japan Ex and INMETRO approvals
for use inhazardous areas Zone 0, Zone 1 and Zone 2

ConnectionInductive, digital connection head with Memosens 2.0 technology

Ingres protectionIP68

Additional certificationsAdditional certifications

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