

Digital ORP sensor Memosens CPS62E

Memosens 2.0 ORP electrode for the chemical and life sciences industries



Benefits:

- 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.

More information and current pricing:

www.fi.endress.com/CPS62E

Specs at a glance

- **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

Field of application: 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.

Features and specifications

ORP / Redox

Measuring principle

Sensor ORP / Redox

Application

Hygiene and sterile applications (sterilizable, autoclavable):

- Fermenter
 - Biotechnology
 - Pharma
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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 certification

With ATEX, IECEx, CSA C/US, NEPSI, Japan Ex and INMETRO approvals for use in

hazardous areas Zone 0, Zone 1 and Zone 2

ConnectionInductive, digital connection head with Memosens 2.0 technology

Ingres protectionIP68

Additional certificationsAdditional certifications

More information www.fi.endress.com/CPS62E