

Digital conductivity sensor Memosens CLS16E

Memosens 2.0 contacting conductivity sensor for hygienic applications in life sciences and food



More information and current pricing:

www.de.endress.com/CLS16E

Benefits:

- Certified with quality certificate and EN 10204 3.1 and complying with EHEDG, USP Class VI, ASME and FDA, Memosens CLS16E is perfectly suited for hygienic applications in the life sciences and food industries.
- The sensor is sterilizable and autoclavable, resists cleaning in place (CIP) and sterilization in place (SIP).
- Stainless steel ensures robust, corrosion-free operation and the replaceable seal enables a long operating life.
- Highest precision and measuring accuracy even at high temperatures and under pressure provide you with reliable data for optimum process and product quality.
- Non-contact, inductive signal transmission ensures high process integrity.
- IIoT ready: 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.

Specs at a glance

- **Measurement range** $k=0,1$: 0,04 to 500 $\mu\text{S}/\text{cm}$
- **Process temperature** -5 to 120 °C (23 to 248 °F) For Sterilization: max. 150 °C at 5 bar (Max. 302 °F at 73 psi)
- **Process pressure** 13 bar at 20 °C (188 psi at 68 °F) 9 bar at 120 °C (130 psi at 248 °F)

Field of application: Memosens CLS16E is a high-end conductivity sensor with certified hygienic design conforming to FDA and USP Class VI. It measures with highest precision delivering reliable data for optimum

process and product quality. The sensor is robust and offers a long operating life thanks to its replaceable seal. With Memosens 2.0 technology, CLS16E is able to store more calibration and process data, facilitating predictive maintenance and providing the perfect basis for IIoT services.

Features and specifications

Conductivity

Measuring principle

Conductive

Application

Pure and ultrapure water
Pharmaceutical industry
Final rinse
WFI

Characteristic

Hygienic 2-electrode conductivity sensor

Measurement range

k=0,1: 0,04 to 500 $\mu\text{S}/\text{cm}$

Measuring principle

Conductive conductivity cell with electropolished stainless steel electrodes

Design

Hygienic 2-electrode conductivity sensor with coaxially arranged electrodes, electropolished

Material

Isolation: PEEK
Electrode: polished stainless steel 1.4435
Sealing: Isolast (FFKM) FDA approved

Dimension

Electrode diameter: 17 mm (0.66 inch)
Electrode length: 54 mm (2.13 inch)

Conductivity

Process temperature

-5 to 120 °C (23 to 248 °F)

For Sterilization: max. 150 °C at 5 bar

(Max. 302 °F at 73 psi)

Process pressure

13 bar at 20 °C (188 psi at 68 °F)

9 bar at 120 °C (130 psi at 248 °F)

Temperature sensor

Pt1000

Ex certification

ATEX, NEPSI, CSA, IECEx, INMETRO, EAC Ex

Connection

Process connection: Varivent, Neumo, BioControl, Clamp

Sensor connection: Inductive, digital connection head with Memosens 2.0 technology

Ingress protection

IP68

Additional certifications

Material certification 3.1

EHEDG certified, hygienic design

ASME BPE-2002

Conformity to cGMP derived

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