

Digital conductivity sensor Condumax CLS16D

Memosens conductive conductivity sensor for hygienic applications in pure and ultrapure water



More information and current pricing:

www.es.endress.com/CLS16D

Benefits:

- Highest precision and measuring accuracy
- Hygienic design certified by EHEDG
- Certified biocompatibility according to USP class VI and FDA compliance of all wetted materials
- Sterilizable and autoclavable
- Quality certificate stating the individual cell constant
- Logging of sensor-specific data for easy traceability and predictive maintenance
- Convenient maintenance strategy with Memobase Plus for easy calibration and sensor management

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: Condumax CLS16D is a high-end conductivity sensor with certified hygienic design. It measures with highest precision providing you with reliable data for optimum process and product quality. Numerous certificates and various hygienic process connections ensure the perfect fit for your process. Condumax CLS16D is not the latest Memosens generation. To get information on the new Memosens CLS16E sensor with extended functionality, click [here](#).

Features and specifications

Conductivity

Measuring principle

Conductive

Application

Pure and ultrapure water, pharmaceutical industry

Characteristic

Hygienic 2-electrode conductivity sensor

Measurement range

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

Measuring principle

Conductivity cell

Design

Hygienic 2-electrode conductivity sensor with coaxially arranged electrodes, electropolished stainless steel and FDA sealing material; sterilizable

Material

Isolation: PEEK

Electrode: polished stainless steel 1.4435

Sealing: Isolast (FFKM) FDA conform

Dimension

Electrode diameter: 17 mm (0.66 inch)

Electrode length: 54 mm (2.13 inch)

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)

Conductivity

Temperature sensor

NTC 30K

Connection

Process connection: Varivent, Neumo, Clamp

Cable: Memosens connector

Ingres protection

IP68

Additional certifications

Material certification 3.1

EHEDG certified, hygienic design, CoC ASME BPE

Conformity to cGMP derived requirements

ASME BPE

FDA approved

Regulation (EC) No.

1935/2004

China Food

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