

## Digital conductivity sensor Condumax CLS15D

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



More information and current pricing:

[www.de.endress.com/CLS15D](http://www.de.endress.com/CLS15D)

### Benefits:

- Reliable and accurate measuring values at low conductivities
- Easy to clean thanks to polished measuring surfaces
- Sterilizable and autoclavable
- Quality certificate stating the individual cell constant
- Logging of sensor-specific data for easy traceability and predictive maintenance
- Maximum process safety via non-contact inductive signal transmission
- Convenient maintenance strategy with Memobase Plus for easy data and sensor management

### Specs at a glance

- **Measurement range**  $k=0,01$ : 0.04 to 20  $\mu\text{S}/\text{cm}$   $k=0,1$ : 0.10 to 200  $\mu\text{S}/\text{cm}$
- **Process temperature** Threaded with fixed cable: -20 to 100 °C (-4 to 212 °F) Threaded with plug-in head: -20 to 120 °C (-4 to 248 °F) Sterilization: max. 140 °C (284 °F) for 30 minutes
- **Process pressure** 13 bar at 20 °C (188 psi at 68 °F) 1 bar at 120 °C (14 psi at 248 °F)

**Field of application:** Condumax CLS15D is the digital solution for conductivity measurement in the low measuring ranges. It performs reliably and accurately in a wide range of applications - even in hazardous areas. Designed for low maintenance and a long operating life, the sensor offers best value for money. Condumax CLS15D is not the latest Memosens generation. To get information on the new Memosens CLS15E sensor with extended functionality, click [here](#).

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## Features and specifications

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### Conductivity

**Measuring principle**

Conductive

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**Application**

Measurement in pure and ultrapure water range, monitoring of ion exchangers, reverse osmosis, distillation, chip cleaning

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**Characteristic**

Analog or digital 2-electrode conductivity sensors

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**Measurement range**

k=0,01: 0.04 to 20  $\mu\text{S}/\text{cm}$

k=0,1: 0.10 to 200  $\mu\text{S}/\text{cm}$

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**Measuring principle**

Conductive conductivity cell with polished stainless steel electrodes

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**Design**

2-electrode conductivity cell with coaxially arranged electrodes, electropolished

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**Material**

Electrode: stainless steel 1.4435

Electrode shaft: PES

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**Dimension**

Electrode diameter: 16 mm (0.63 inch)

Electrode length: appr. 55 mm (2.17 inch)

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**Process temperature**

Threaded with fixed cable:

-20 to 100 °C (-4 to 212 °F)

Threaded with plug-in head:

-20 to 120 °C (-4 to 248 °F)

Sterilization: max. 140 °C (284 °F) for 30 minutes

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## Conductivity

### Process pressure

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1 bar at 120 °C (14 psi at 248 °F)

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### Temperature sensor

NTC 30K

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### Ex certification

ATEX, NEPSI, FM, CSA

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### Connection

Process: 1/2" and 3/4" NPT, Clamp 1 1/2"

Cable: Memosens connector

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### Ingres protection

IP68

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### Additional certifications

Calibration certification of the cell constante, material certification 3.1

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