Digital conductivity sensor Condumax CLS15D

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

More information and current pricing:
www.ch.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 µS/cm k=0,1: 0.10 to 200 µS/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. With Memosens digital technology, CLS15D combines maximum process and data integrity with

simple operation. It resists corrosion and moisture, enables lab calibration, and facilitates predictive maintenance.

Features and specifications

Conductivity

Measuring principle
Conductive

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

Characteristic
Analog or digital 2-electrode conductivity sensors

Measurement range
k=0,01: 0.04 to 20 µS/cm
k=0,1: 0.10 to 200 µS/cm

Measuring principle
Conductive conductivity cell with polished stainless steel electrodes

Design
2-electrode conductivity cell with coaxially arranged electrodes, electropolished

Material
Electrode: stainless steel 1.4435
Electrode shaft: PES

Dimension
Electrode diameter: 16 mm (0.63 inch)
Electrode length: appr. 55 mm (2.17 inch)

Conductivity

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)

Temperature sensor

NTC 30K

Ex certification

ATEX, NEPSI, FM, CSA

Connection

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

Ingres protection

IP68

Additional certifications

Calibration certification of the cell constante, material certification 3.1

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