

Digital conductivity sensor Memosens CLS21E

Memosens 2.0 contacting conductivity sensor for surface and drinking water monitoring



More information and current pricing:

www.ch.endress.com/CLS21E

Benefits:

- Reliable and accurate measured values at medium conductivities ensure precise monitoring of water quality.
- Robust design for long durability and low maintenance: The sensor is corrosion-free and features high mechanical and chemical stability.
- Quality certificate stating the individual cell constant allows accurate measurement.
- Non-contact inductive signal transmission ensure maximum process and data integrity.
- Memosens 2.0 technology enables the sensor to store more process and calibration data. It lays the basis for IIoT services and predictive maintenance.

Specs at a glance

- **Measurement range** $k=1$: 10 $\mu\text{S}/\text{cm}$ to 20 mS/cm
- **Process temperature** -20 to 135 $^{\circ}\text{C}$ at 3.5 bar abs (-4 to 275 $^{\circ}\text{F}$ at 50 psi)
- **Process pressure** 17 bar abs at 20 $^{\circ}\text{C}$ (246 psi at 68 $^{\circ}\text{F}$)

Field of application: Memosens CLS21E is a robust conductivity sensor for all water applications with medium conductivities. It provides you with precise and reliable measured values for optimum quality monitoring. The sensor is corrosion-free and features high mechanical stability ensuring a long operating life. Thanks to Memosens 2.0 digital technology, CLS21E combines maximum process and data integrity with simple operation. It facilitates predictive maintenance and provides the perfect basis for IIoT services.

Features and specifications

Conductivity

Measuring principle

Conductive

Application

Surface water + water
Waste water
Process industry
Media separation
Industrial water

Characteristic

Digital 2-electrode conductivity sensor

Measurement range

k=1: 10 μ S/cm to 20 mS/cm

Measuring principle

Conductive conductivity cell with graphite electrodes

Design

2-electrode conductivity cell with parallel arranged electrodes

Material

Sensor shaft: PES
Electrodes: graphite

Dimension

Diameter: 24 mm (0.94 inch)
Length: 61 mm (2.40 inch)

Process temperature

-20 to 135 °C at 3.5 bar abs
(-4 to 275 °F at 50 psi)

Process pressure

17 bar abs at 20 °C
(246 psi at 68 °F)

Conductivity

Temperature sensor

Pt1000

Ex certification

ATEX, CSA, NEPSI, EAC Ex, IECEX, INMETRO

Connection

Process connection: DN25, DN40, G1, NPT 1"

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

Ingres protection

IP68

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