

# Digital conductivity sensor Memosens CLS21E

## Memosens 2.0 contacting conductivity sensor for surface and drinking water monitoring



More information and current pricing:

[www.de.endress.com/CLS21E](http://www.de.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  $\text{mS}/\text{cm}$
- **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

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## Conductivity

**Measuring principle**

Conductive

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**Application**

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

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**Characteristic**

Digital 2-electrode conductivity sensor

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**Measurement range**

k=1: 10  $\mu$ S/cm to 20 mS/cm

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**Measuring principle**

Conductive conductivity cell with graphite electrodes

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**Design**

2-electrode conductivity cell with parallel arranged electrodes

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**Material**

Sensor shaft: PES  
Electrodes: graphite

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**Dimension**

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

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**Process temperature**

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

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**Process pressure**

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

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## Conductivity

### Temperature sensor

Pt1000

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### Ex certification

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

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### Connection

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

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

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### Ingres protection

IP68

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