

# Analog conductivity sensor Condumax CLS13

Conductive conductivity sensor for high temperature applications in the power & energy industry



More information and current pricing:

[www.be.endress.com/CLS13](http://www.be.endress.com/CLS13)

## Benefits:

- Reliable and accurate measuring values at low conductivities
- Optimized for high pressures and temperatures up to 250°C (482°F)
- Easy cleaning thanks to stainless steel body and removable outer electrode
- Robust design for high durability
- Quality certificate stating the individual cell constant

## Specs at a glance

- **Measurement range**  $k=0,01$ : 0-20,0  $\mu\text{S}/\text{cm}$   $k=0,1$ : 0-200,0  $\mu\text{S}/\text{cm}$
- **Process temperature** max. 250 °C (482 °F)
- **Process pressure** max. 40 bar (580 psi)

**Field of application:** Condumax CLS13 is a robust conductivity sensor for steam/water cycles in power plants. It is optimized for low conductivities (even under very high temperatures and pressures) to protect your processes from deposits and corrosion. Low maintenance and simple to commission (large connection compartment), this is the ideal sensor for tough environments.

## Features and specifications

Conductivity

Measuring principle

Conductive

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## Conductivity

### Application

Process, power plant

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### Characteristic

2-electrode conductivity cell for high temperature applications.

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### Measurement range

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

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

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### Measuring principle

Coaxially arranged electrodes for high temperature applications

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### Design

2-electrode conductivity cell with coaxially arranged electrodes

Connection head and cooling body made of casting aluminium with fixed cable connection PG16

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### Material

Electrode: 1.4571

Sealing: Kalrez, ceramic

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### Dimension

Electrode diameter: 25 mm (0.984 inch)

Immersion depth: 50 to 115 mm (1.97 to 4.48 inch)

Weight: 3kg

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### Process temperature

max. 250 °C (482 °F)

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### Process pressure

max. 40 bar (580 psi)

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### Temperature sensor

Integrated Pt100

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### Ex certification

ATEX

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## Conductivity

### Connection

Process connection: G1"

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### Ingres protection

IP67

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### Additional certifications

Calibration certificate with cellconstant

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