

Analog conductivity sensor Condumax CLS13

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



More information and current pricing:

www.es.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

Conductivity

Application

Process, power plant

Characteristic

2-electrode conductivity cell for high temperature applications.

Measurement range

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

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

Measuring principle

Coaxially arranged electrodes for high temperature applications

Design

2-electrode conductivity cell with coaxially arranged electrodes

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

Material

Electrode: 1.4571

Sealing: Kalrez, ceramic

Dimension

Electrode diameter: 25 mm (0.984 inch)

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

Weight: 3kg

Process temperature

max. 250 °C (482 °F)

Process pressure

max. 40 bar (580 psi)

Temperature sensor

Integrated Pt100

Ex certification

ATEX

Conductivity

Connection

Process connection: G1"

Ingres protection

IP67

Additional certifications

Calibration certificate with cellconstant

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