

# Conductivity compact device Smartec CLD134

## Toroidal conductivity measuring system for hygienic and sterile applications



### Benefits:

- Unique hygienic design avoids recontamination
- With all hygienic certificates required in hygienic and sterile applications
- Certified biocompatibility according to USP class VI
- Compliant with EG 2023/2006 and 1935/2004
- Suitable for cleaning-in-place (CIP) and sterilization-in-place (SIP)
- Durable thanks to encapsulated, jointless design

### Specs at a glance

- **Measurement range** 100  $\mu\text{S}/\text{cm}$  to 2000  $\text{mS}/\text{cm}$  Cell constant k : 6.3  $1/\text{cm}$
- **Process temperature** Max. 125 °C (max. 257 °F) For sterilization: up to 150 °C for max. 60 min (up to 302 °F for max. 60 min)
- **Process pressure** 12 bar abs up to 90 °C (174 psi abs up to 194 °F)

More information and current pricing:

[www.apsc.endress.com/CLD134](http://www.apsc.endress.com/CLD134)

**Field of application:** Smartec CLD134 is a measuring system for inductive conductivity in the food & beverage and life sciences industries. The combination of a transmitter and a sensor is interference-free and especially easy-to-use. It meets the highest hygienic and sterile demands thanks to its food-grade virgin PEEK body, its jointless and creviceless design and its hygienic certificates. Smartec CLD134 is therefore the ideal package to ensure the highest safety and quality of your products and processes.

### Features and specifications

---

## Conductivity

**Measuring principle**

Inductive

---

**Application**

Food, beverage, dairies, breweries and pharmaceutical industries, biotechnology

---

**Characteristic**

Specifically intended for use in hygienic applications and especially suitable for following applications:

Phase separation, control of CIP, concentration control, product monitoring, leakage monitoring

---

**Measurement range**

100  $\mu\text{S}/\text{cm}$  to 2000  $\text{mS}/\text{cm}$

Cell constant k : 6.3  $1/\text{cm}$

---

**Measuring principle**

Inductive conductivity measurement

---

**Design**

Hygienic design with FDA certified virgin PEEK body including all hygienic certifications

---

**Material**

In contact with medium: Virgin PEEK

---

**Process temperature**

Max. 125 °C (max. 257 °F)

For sterilization: up to 150 °C for max. 60 min

(up to 302 °F for max. 60 min)

---

**Process pressure**

12 bar abs up to 90 °C

(174 psi abs up to 194 °F)

---

**Temperature sensor**

Pt 1000

---

## Conductivity

### Connection

Dairy pipe, aseptic-fitting, Clamp ISO 2852, SMS-2", Varivent N DN 40-125, Neumo Biocontrol D50

---

### Ingres protection

IP67

---

### Output / communication

Conductivity, concentration and temperature. 0/4 to 20 mA, HART, Profibus

---

### Additional certifications

FDA, EHEDG, 3A

Biological reactivity USP class VI part <87> and <88>

EC Regulation No. 1935/2004

---

More information [www.apsc.endress.com/CLD134](http://www.apsc.endress.com/CLD134)