

## 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  $\mu$ S/cm to 2000 mS/cm Cell constant k : 6.3 1/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)

**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

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### Ingres protection

IP67

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### Output / communication

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

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### Additional certifications

FDA, EHEDG, 3A

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

EC Regulation No. 1935/2004

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