# Compact conductivity device Smartec CLD18

# Toroidal conductivity measuring system for hygienic applications

### **Benefits:**

- Unique hygienic design avoids contamination
- 3-A approval
- Compliant with EG 2023/2006 and 1935/2004
- Suitable for cleaning-in-place (CIP)
- Smart and easy integration into your plant infrastructure thanks to optional IO-Link protocol
- Compact design permits installation in small tubes without restricting the flow

# Specs at a glance

- Measurement range 200 µS/cm to 1000 mS/cm Cell constant k: 11.0 1/cm
- Process temperature -10 °C to 110 °C (14 °F to 230 °F)
  Sterilization: max. 130 °C at 6 bar abs up to 60 min (Max. 266 °F at 87 psi up to 60 min)
- Process pressure 13 bar abs up to 50 °C (188.5 psi up to 122 °F)
  7.75 bar abs at 110 °C (112 psi at 230 °F) 6.0 bar abs at 130 °C
  for max. 60 minutes (87 psi at 266 °F for max. 60 minutes)

**Field of application:** Smartec CLD18 is the cost-effective solution for all applications in beverage plants where small tubes are used and where the toroidal measurement is used as a switch function. The combination of a transmitter and a sensor is interference-free, easy-to-use and features a hygienic design that protects your products and processes from contamination. Smartec CLD18 ensures the Overall Equipment Effectiveness (OEE) of your plant thanks to fast and reliable CIP and optional IO-Link protocol.





More information and current pricing: www.endress.com/CLD18

# Features and specifications

Conductivity	Measuring principle
	Inductive
	Application
	Food and beverage industries
	Characteristic
	Specifically intended for use in beverage industry applications and
	especially suitable for:
	Phase separation, control of CIP, concentration control, product
	monitoring, leakage monitoring
	Measurement range
	200 µS/cm to 1000 mS/cm
	Cell constant k: 11.0 1/cm
	Measuring principle
	Inductive conductivity measurement
	Design
	Hygienic design with FDA certified virgin PEEK
	Material
	Sensor: PEEK
	Process connection 1.4435 (316L)
	Seal: EPDM
	Process temperature
	-10 °C to 110 °C (14 °F to 230 °F)
	Sterilization: max. 130 °C at 6 bar abs up to 60 min
	(Max. 266 °F at 87 psi up to 60 min)
	Process pressure
	13 bar abs up to 50 °C (188.5 psi up to 122 °F)
	7.75 bar abs at 110 °C (112 psi at 230 °F)
	6.0 bar abs at 130 °C for max. 60 minutes

(87 psi at 266 °F for max. 60 minutes)

## Conductivity

#### Temperature sensor

Pt 1000 (class B)

#### Connection

Dairy pipe, aseptic-fitting DN40 and DN50, Clamp 2" ISO 2852, SMS-2", Varivent N DN 40-125 Thread G1 1/2 SS, G1 1/2 PVC , Union nut 2 1/4 Inch PVC

#### Ingres protection

IP69

#### Output / communication 0/4...20mA IO-Link (option)

#### Additional certifications

3A, FDA, EHEDG EC Regulation No. 1935/2004

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