Compact conductivity device Smartec CLD18

Toroidal conductivity measuring system for hygienic applications

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

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.

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

More information **www.au.endress.com/CLD18**

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