

Analog conductivity sensor

Condumax CLS16B

Contacting conductivity sensor for hygienic applications in the food & beverage and life sciences industries



More information and current pricing:

www.endress.com/CLS16B

Benefits:

- Perfectly suited to life sciences and food & beverage: Complies with EHEDG, ASME, FDA and USP Class VI
- Hygienic: Autoclavable, sterilizable and suitable for cleaning-in-place (CIP) and sterilization-in-place (SIP)
- Accurate: Cell constant of the sensor is measured individually
- Robust: Electropolished stainless steel body for corrosion-free operation and easy cleaning
- Long-operating life: Replaceable, hygienic EPDM/PEEK sealing

Specs at a glance

- **Measuring range** $k=0,1$: $0,04\mu\text{S}/\text{cm}$ - $500\mu\text{S}/\text{cm}$
- **Process temperature** Max. 120°C ($150^{\circ}\text{C}/30\text{ min}$) max. 248°F ($302^{\circ}\text{F}/30\text{ min.}$)
- **Process pressure** max. 12 bar at 20°C max. 174 psi at 68°F

Field of application: Condumax CLS16B is an analog sensor for precise measurement in the low conductivity range of pure and ultrapure water. Its certified hygienic design complies with the relevant standards EHEDG, USP Class VI and ASME-BPE. Various hygienic process connections ensure the perfect fit for your process.

Features and specifications

Conductivity

Measuring principle

Conductive

Conductivity

Application

Pharmaceuticals, pure and ultrapure water

Characteristic

Hygienic 2-electrode conductivity sensor

Measuring range

k=0,1: 0,04µS/cm - 500µS/cm

Measuring principle

Conductive conductivity cell

Design

Hygienic 2-electrode conductivity sensor with coaxially arranged electrodes, electropolished stainless steel and FDA sealing material; sterilizable

Material

In contact with medium

Sensor depending on order execution:

Electropolished, stainless steel 1.4435 (AISI 316L)

PEEK

Sealing depending on order execution:

Form seal ISOLAST (FFKM)

Form seal EPDM

Dimension

Electrode diameter: 17 mm

(0.66 inch)

Electrode length: 54 mm

(2.10 inch)

Process temperature

Max. 120°C (150°C/30 min)

max. 248°F (302°F/30 min.)

Process pressure

max. 12 bar at 20°C

max.174 psi at 68°F

Conductivity

Temperature sensor

Integrated Pt100 or Pt1000

Ex certification

ATEX

Connection

Process connection: Varivent, Neumo, Clamp

Cable: TOP68 connector or fixed cable

Ingress protection

IP68

Additional certifications

- calibration certification - surface roughness $R_a < 0,8$ (0,4)- Material certification 3.1.B - EHEDG, pharma certificate of compliance

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