

Analog conductivity sensor Condumax CLS16

Conductive conductivity sensor for hygienic applications in pure and ultrapure water



More information and current pricing:

www.ch.endress.com/CLS16

Benefits:

- Highest precision and measuring accuracy
- Hygienic design certified by EHEDG
- Certified biocompatibility according to USP class VI and FDA compliance of all wetted materials
- Sterilizable
- Quality certificate stating the individual cell constant

Specs at a glance

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

Field of application: Condumax CLS16 is a high-end conductivity sensor with certified hygienic design. It measures with highest precision providing you with reliable data for optimum process and product quality. Numerous certificates and various hygienic process connections ensure the perfect fit for your process.

Features and specifications

Conductivity

Measuring principle

Conductive

Application

Pharmaceuticals, pure and ultrapure water

Conductivity

Characteristic

Hygienic 2-electrode conductivity sensor

Measurement 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

Isolation: PEEK

Electrode: polished stainless steel 1.4435

Sealing: Isolast (FFKM) FDA conform

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

Temperature sensor

Integrated Pt100 or Pt1000

Ex certification

ATEX

Conductivity

Connection

Process connection: Varivent, Neumo, Clamp

Cable: TOP68 connector or fixed cable

Ingres protection

IP68

Additional certifications

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

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