

# Analog conductivity sensor Condumax CLS16

Conductive conductivity sensor for hygienic applications in pure and ultrapure water



More information and current pricing:

[www.at.endress.com/CLS16](http://www.at.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.  $120^{\circ}\text{C}$  ( $150^{\circ}\text{C}/30$  min) max.  $248^{\circ}\text{F}$  ( $302^{\circ}\text{F}/30$  min.)
- **Process pressure** max. 12 bar at  $20^{\circ}\text{C}$  max.174 psi at  $68^{\circ}\text{F}$

**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: 0,04 $\mu$ S/cm - 500 $\mu$ S/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

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### Ingres protection

IP68

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### 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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