Digital conductivity sensor
Condumax CLS16D

Memosens conductive conductivity sensor for hygienic applications in pure and ultrapure water

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 and autoclavable
- Quality certificate stating the individual cell constant
- Logging of sensor-specific data for easy traceability and predictive maintenance
- Convenient maintenance strategy with Memobase Plus for easy calibration and sensor management

Specs at a glance
- **Measurement range** \( k=0,1: 0,04 \) to 500 \( \mu \text{S/cm} \)
- **Process temperature** -5 to 120 °C (23 to 248 °F) For Sterilization: max. 150 °C at 5 bar (Max. 302 °F at 73 psi)
- **Process pressure** 13 bar at 20 °C (188 psi at 68 °F) 9 bar at 120 °C (130 psi at 248 °F)

Field of application: Condumax CLS16D 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. Condumax CLS16D is not the latest Memosens generation. To get information on the new Memosens CLS16E sensor with extended functionality, click [here](http://www.endress.com/CLS16E).
## Features and specifications

### Conductivity

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<tr>
<th><strong>Measuring principle</strong></th>
<th>Conductive</th>
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<th><strong>Application</strong></th>
<th>Pure and ultrapure water, pharmaceutical industry</th>
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<th><strong>Characteristic</strong></th>
<th>Hygienic 2-electrode conductivity sensor</th>
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<th><strong>Design</strong></th>
<th>Hygienic 2-electrode conductivity sensor with coaxially arranged electrodes, electropolished stainless steel and FDA sealing material; sterilizable</th>
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| **Material** | Isolation: PEEK  
Des. 2 Electrode: polished stainless steel 1.4435  
Sealing: Isolast (FFKM) FDA conform |
|---------------|--------------------------------------------------------------------------------|

| **Dimension** | Electrode diameter: 17 mm (0.66 inch)  
Electrode length: 54 mm (2.13 inch) |
|----------------|----------------------------------|

| **Process temperature** | -5 to 120 °C (23 to 248 °F)  
For Sterilization: max. 150 °C at 5 bar (Max. 302 °F at 73 psi) |
|-------------------------|---------------------------------------------------------------------|

| **Process pressure** | 13 bar at 20 °C (188 psi at 68 °F)  
9 bar at 120 °C (130 psi at 248 °F) |
|----------------------|-----------------------------------|

## Conductivity

### Temperature sensor
NTC 30K

### Connection
Process connection: Varivent, Neumo, Clamp
Cable: Memosens connector

### Ingress protection
IP68

### Additional certifications
- Material certification 3.1
- EHEDG certified, hygienic design, CoC ASME BPE
- Conformity to cGMP derived requirements
- ASME BPE
- FDA approved
- China Food