

# Digital conductivity sensor Indumax CLS54D

## Memosens toroidal conductivity sensor for hygienic and sterile applications



More information and current pricing:

[www.de.endress.com/CLS54D](http://www.de.endress.com/CLS54D)

### Benefits:

- Unique hygienic design avoids contamination
- With all hygienic certificates required in hygienic and sterile applications, compliant with EG 2023/2006 and 1935/2004
- Food grade virgin PEEK body without joints nor crevices
- Certified biocompatibility according to USP class VI
- Suitable for cleaning-in-place (CIP) and sterilization-in-place (SIP)
- Convenient maintenance strategy with Memobase Plus for easy data and sensor management
- Reliable values thanks to active connection monitoring and EMC protection

### Specs at a glance

- **Measurement range** 100  $\mu\text{S}/\text{cm}$  to 2000  $\text{mS}/\text{cm}$  Cell constant k: 6.3 1/cm
- **Process temperature** -10 °C to 125 °C (14 °F to 257 °F)  
Sterilization: 150 °C at 6 bar abs for max. 60 min (302 °F at 87 psi abs for max. 60 min)
- **Process pressure** 13 bar abs up to 90 °C (188.5 psi abs up to 194 °F) 9 bar at 125 °C (130.5 psi abs at 257 °F)

**Field of application:** The Indumax CLS54D inductive conductivity sensor protects all of your products and processes that must meet the strictest hygienic and sterile demands. Its outstanding performance combined with a unique hygienic design ensures highest safety and quality of your products. Thanks to Memosens digital technology, Indumax CLS54D combines maximum process and data integrity with simple operation. It resists corrosion and moisture, enables lab calibration, and facilitates predictive maintenance.

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## Features and specifications

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### Conductivity

**Measuring principle**

Inductive

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**Application**

Food, beverage and pharmaceutical industries, biotechnology, dairies, breweries

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**Characteristic**

Specifically intended for use in hygienic applications and especially suitable for following applications:

Phase separation, control of CIP, concentration control, product monitoring, leakage monitoring

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**Measurement range**

100  $\mu$ S/cm to 2000 mS/cm

Cell constant k: 6.3 1/cm

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**Measuring principle**

Inductive conductivity measurement

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**Design**

Hygienic design with food-grade virgin PEEK body in jointless and creviceless design including all hygienic certifications

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**Material**

In contact with medium: virgin PEEK

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**Process temperature**

-10 °C to 125 °C (14 °F to 257 °F)

Sterilization: 150 °C at 6 bar abs for max. 60 min

(302 °F at 87 psi abs for max. 60 min)

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**Process pressure**

13 bar abs up to 90 °C (188.5 psi abs up to 194 °F)

9 bar at 125 °C (130.5 psi abs at 257 °F)

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## Conductivity

### Temperature sensor

Pt1000 (Class A according to IEC 60751)

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### Connection

Dairy pipe, Aseptic-fitting, Clamp ISO 2852, SMS-2", Varivent N DN 40-125, Neumo Biocontrol D50

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### Ingres protection

IP68 / NEMA type 6P

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### Additional certifications

FDA, EHEDG, 3-A  
Biological reactivity USP class VI part <87> and <88>

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