

Digital conductivity sensor Indumax CLS54D

Memosens toroidal conductivity sensor for hygienic and sterile applications



More information and current pricing:

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

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.

Features and specifications

Conductivity

Measuring principle

Inductive

Application

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

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

Measurement range

100 μ S/cm to 2000 mS/cm

Cell constant k: 6.3 1/cm

Measuring principle

Inductive conductivity measurement

Design

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

Material

In contact with medium: virgin PEEK

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)

Conductivity

Temperature sensor

Pt1000 (Class A according to IEC 60751)

Connection

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

Ingres protection

IP68 / NEMA type 6P

Additional certifications

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

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