

Digital conductivity sensor Indumax CLS50D

Memosens toroidal conductivity sensor for chemical applications



Benefits:

- High durability and chemical resistance even under harsh conditions
- Dirt-repellent materials and large sensor opening avoid soiling
- Wide temperature range and highly resistant materials make the sensor suitable for virtual any application
- Reliable values thanks to active connection monitoring
- Easy wiring over long distances without impact on the measurement accuracy
- Logging of sensor-specific data for easy traceability
- Approved for hazardous area use

Specs at a glance

- **Measurement range** 2 μ S/cm to 2000 mS/cm
- **Process temperature** PEEK: max. 125°C (max. 260 °F) PFA: max. 110°C (max. 230 °F)
- **Process pressure** PEEK: max. 21 bar (max. 304.5 psi) PFA: max. 17 bar (max. 246.5 psi)

Field of application: Indumax CLS50D is a digital inductive conductivity sensor for standard, hazardous and high-temperature applications. Benefit from high chemical resistance and long durability thanks to robust materials (PFA, PEEK). Moreover, it is insensitive to soiling and performs reliable and repeatable even in harsh and aggressive media. Thanks to Memosens, CLS50D combines maximum process and data integrity with simple operation. It resists corrosion and moisture and facilitates predictive maintenance.

Features and specifications

Conductivity

Measuring principle

Inductive

Application

Chemical industry, process

Characteristic

Analog or digital, inductive conductivity sensor for standard, Ex and high-temperature applications

Measurement range

2 μ S/cm to 2000 mS/cm

Measuring principle

Inductive conductivity measurement

Design

No direct contact with the media because of the sensor coating made of highly resistant material

Material

PEEK or PFA

Dimension

Electrode:

Outside diameter: 47.5 mm (1.87 inch)

Inside diameter: 15 mm (0.59 inch)

Inside diameter (PEEK version): 15.5 mm (0.61 inch)

Process temperature

PEEK: max. 125°C (max. 260 °F)

PFA: max. 110°C (max. 230 °F)

Process pressure

PEEK: max. 21 bar (max. 304.5 psi)

PFA: max. 17 bar (max. 246.5 psi)

Temperature sensor

Integrated Pt1000

Conductivity

Ex certification

ATEX, IECEx, NEPSI, FM, CSA, TIIS, EAC

Connection

Process connection: NPT 1", DN50, ANSI, JIS cable: fixed cable connection

Ingress protection

IP 68 / NEMA type 6

Additional certifications

Calibration certification of the cell constant



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