

Analog conductivity sensor Indumax CLS50

Toroidal conductivity sensor for chemical applications



More information and current pricing:

www.es.endress.com/CLS50

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
- Robust design for outstanding long operating life
- Approved for hazardous area use

Specs at a glance

- **Measurement range** 2 μ S/cm - 2000 mS/cm
- **Process temperature** max. 180°C (PEEK) (356°F) max. 125°C (PFA) (254°F)
- **Process pressure** max. 20 bar (PEEK) (290 psi) max. 16 bar (PFA) (233 psi)

Field of application: Indumax CLS50 is an 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. The wide temperature range of -20 to +180 °C leaves nothing to be desired.

Features and specifications

Conductivity

Measuring principle

Inductive

Conductivity

Application

Waste water, process

Characteristic

Inductive conductivity cell made of highly resistant material for conductivity and concentration measurements in process applications.

Measurement range

2 μ S/cm - 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: appr. 47 mm inside diameter: appr. 15 mm

Process temperature

max. 180°C (PEEK)
(356°F) max. 125°C (PFA)
(254°F)

Process pressure

max. 20 bar (PEEK)
(290 psi) max. 16 bar (PFA)
(233 psi)

Temperature sensor

Integrated Pt100

Ex certification

ATEX

Conductivity

Connection

Process connection: NPT1", DN50, ANSI, JIScale: fixed cable connection.

Ingres protection

IP67

Additional certifications

Calibration certification of the cell constant.

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