

# Analog conductivity sensor Indumax CLS52

## Toroidal conductivity sensor for hygienic and sterile applications



### Benefits:

- Engineered for quick temperature response
- Hygienic design avoids contamination
- Suitable for cleaning-in-place (CIP) and sterilization-in-place (SIP)
- Low risk of soiling due to encapsulated sensor
- Insensitive to polarization

### Specs at a glance

- **Measurement range** 0.1 to 2000 mS/cm
- **Process temperature** Max. 125°C (short time up to 140°C) max. 257°F (short time up to 284°F)
- **Process pressure** Max. 16 bar at 90 °C (Max. 232 psi at 194 °F)

More information and current pricing:

[www.ca.endress.com/CLS52](http://www.ca.endress.com/CLS52)

**Field of application:** The Indumax CLS52 inductive conductivity sensor protects your products and processes in the food & beverage industry. It is equipped with a stainless steel temperature sensor that gives you an ultrafast temperature response to measure exactly in separation applications.

## Features and specifications

### Conductivity

#### Measuring principle

Inductive

#### Application

Food, pharmaceuticals

## Conductivity

### Characteristic

Hygienic inductive measuring cell for conductivity measurements, concentration control, CIP-control, cleaning and phase separation.

### Measurement range

0.1 to 2000 mS/cm

### Measuring principle

Inductive conductivity measurement.

### Design

Hygienic inductive conductivity cell with an outside temperature sensor for a faster temperature reading.

### Material

Sensor: PEEK

Heat contact nut: stainless steel 1.4435

Sealing: Chemraz

### Dimension

Coil: outside diameter: appr. 47 mm inside diameter: appr. 15 mm

### Process temperature

Max. 125°C (short time up to 140°C)

max. 257°F (short time up to 284°F)

### Process pressure

Max. 16 bar at 90 °C

(Max. 232 psi at 194 °F)

### Temperature sensor

Integrated Pt100 in a heat contact nut

### Ex certification

ATEX

### Connection

Process connections: dairy fitting, Clamp, thread 1,5", Varivent, APV, Perlick, SMS cable: fixed cable connection.

## Conductivity

### Ingres protection

IP67

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### Additional certifications

Calibration certification.

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More information [www.ca.endress.com/CLS52](http://www.ca.endress.com/CLS52)