Model 50 Inductive Conductivity Sensor

Features

- Low Maintenance
- No Electrodes Exposed to the Measured Solution
- High Chemical, Thermal and Mechanical Stability
- Compact Design
- Enclosure Rating IP67 (NEMA 6) Waterproof



Applications

- Percent Concentration of Acids, Bases and Salts
- Plating Tanks and Metal Treatment
- Cooling Tower Water
- Phase Separation
- Interface Monitoring
- Clean-in-Place (CIP)
- Sewer Monitoring in Pulp & Paper

Description

The Model 50 Inductive Conductivity Sensor is designed to measure the percent concentration of acids, bases and salts in solution. The sensor is ideally suited for processes that have the tendency to coat conventional conductivity cells. Inductive technology utilizes sealed coils that are magnetically coupled by the conductivity of the solution. There are no electrodes exposed to the measured solution thereby reducing the intervals for routine maintenance. Inductive Sensors are also referred to as Electrodless or Toroidal conductivity sensors.

Specifications

Measuring Range	5 to 2,000,000 µS/cm
Cell Constant	2.0 cm^{-1}
Measured Value Deviation –20 to 100°C (-4 to 212°F)	5 µS/cm + 0.5% of Measured Value
Measured Value Deviation >100°C (>212°F)	10 µS/cm + 0.5% of Measured Value
Temperature Sensor	Pt100, 3 Wire
Temperature Rating	-20 to 125°C (-4 to 257°F)
Pressure Rating	20 bar (362 psi)
Process Connections	1” MNPT
Material of Construction	PEEK
O-Rings	Viton or PTFE
Enclosure Rating (Waterproof)	IP67 (NEMA 6)
Maximum Cable Length	55 meters (180 ft.)

AYSIX technologies

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Ordering Information

Model	Description
M – 50 – A	2.0 Cell Constant (5.0 to 2,000,000 µS/cm)
Code	**Description**
2	1” MNPT Process Connection
Code	**Description**
B	PEEK Construction with Viton O-Rings
C	PEEK Construction with PTFE O-Rings
Code	**Description**
1	5.0 m (16.4 ft.) Fixed Cable
2	10.0 m (32.8 ft.) Fixed Cable
M - 50 – A - 2 - B - 1	**Order Number Example**

Dimensions

