



# KOBO-LF

Inductive Conductivity Measuring Cell  
Model ACS-X01



measuring  
•  
monitoring  
•  
analysing

## EXPERT-LINE

- Inductive measuring system
- Measuring range 50  $\mu\text{S/cm}$  to 2000  $\text{mS/cm}$
- $t_{\text{max}}$ : 125 °C,  $p_{\text{max}}$ : 16 bar
- Highly resistant to chemical attack with PEEK coating
- Dirt-repelling surface with low coefficient of friction
- Integrated, sheathed temperature sensor Pt 100
- Large sensor opening approximately 15 mm in diameter, thus negligible fouling
- Five metre fixed cable
- Can be installed in T-pieces DN 80 with reduced outlet DN 50 and greater



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**Model:**  
ACS-X01



**Description**

The conductivity measuring cell model ACS-X0I is ideally suited for service in the chemical industry and in process engineering. The measuring range covering six decades and the high chemical resistance of the wetted material PEEK (Polyetheretherketone) allows the cell to be used in almost all applications. The high thermostability of -20 to +130°C allows universal service over a wide temperature range.

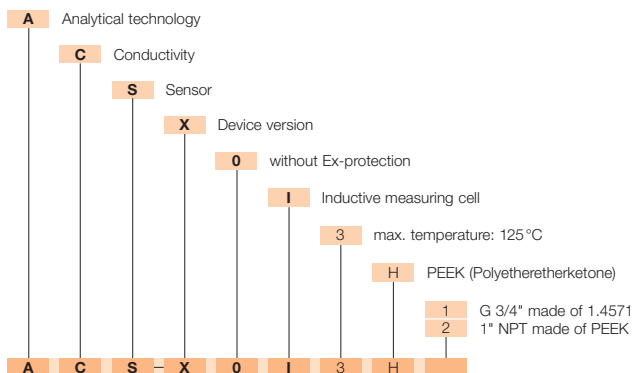
**Benefits of inductive measurement**

- No electrodes, no polarization and electrode decomposition
- Faultless measurement in media that tend to deposit and/or with a high degree of fouling
- Complete electrical isolation from measured medium and flow output

**Application examples for inductive conductivity measurement**

- Food, drinks and pharmaceuticals industry
- Product monitoring (phase separation of product/product mix/water)
- Controlling cleaning processes (for example phase separation of cleaning agent/rinsing water)
- Control of concentration of acids and lyes (for example in electroplating plants or in the process chemical industry)
- Service in CIP plants
- Water and sewage technology
- Batching of chemicals
- Leakage indication for isolated circuits (for example heating and cooling plants)

**Type codes ACS-X0I**



**Technical Datas**

- Measuring range: 50 µS/cm to 2000 mS/cm
- Cell constant: approximately 2 1/cm
- Storage temperature: -20 to +80 °C
- Protection: IP 65
- Measured-value deviation at 20 – 100 °C: ±(5 µS/cm + 0.5%) of meas. value
- Measured-value deviation > 100 °C: ±(10 µS/cm + 0.5%) of meas. value
- Service temperature: -20 to +125 °C
- Rated pressure: 16 bar over the entire temperature range
- Temperature sensor: Pt 100, class A acc. DIN IEC 751
- Measuring cell material: PEEK (Polyetheretherketone)
- Process connection: G 3/4 made of 1.4571  
1" NPT made of PEEK

**Dimension:**

