

Inductive Conductivity Measuring Cell



measuring
•
monitoring
•
analysing

EXPERT-LINE



- Inductive measuring system
- Measuring range 5 $\mu\text{S/cm}$ to 2000 mS/cm
- t_{max} : 125 °C; p_{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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KOBOLD Messring GmbH
Nordring 22-24
D-65719 Hofheim/Ts.
☎ +49(0)6192 299-0
Fax +49(0)6192 23398
E-Mail: info.de@kobold.com
Internet: www.kobold.com

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

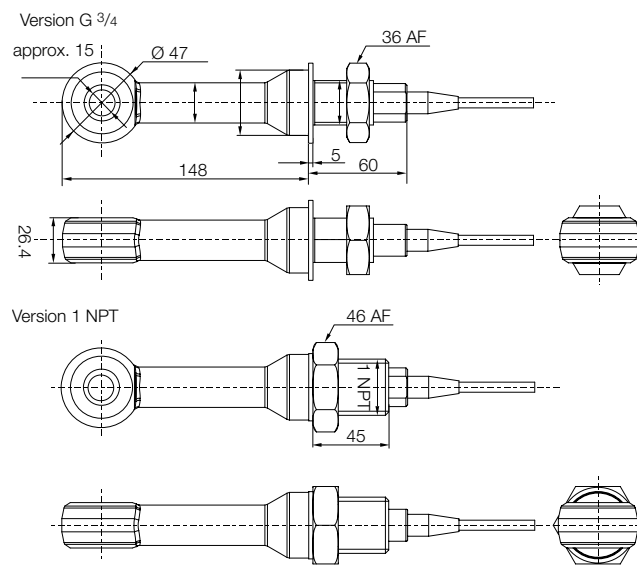
Application examples for inductive conductivity measurement

- 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)

Technical Data

Measuring range:	5 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 measured value
Service temperature:	-20 to +125 °C
Rated pressure:	20 bar over the entire temperature range
Temperature sensor:	Pt 100, class A acc. to DIN IEC 751
Measuring cell material:	PEEK (Polyetheretherketone)
Process connection:	G ¾ made of 1.4571 1 NPT made of PEEK
Cable:	5 m (TPE-cable, t _{max} 125 °C)

Dimensions



Order Details Measuring Cell (Example: ACS-X 0 I 3 H 1)

Model*	Ex-protection	Measuring cell	Temperature	Material	Thread connection
ACS-X	0 = without	I = inductive	3 = max 125°C	H = PEEK	1 = G ¾ made of 1.4571 2 = 1 NPT made of PEEK

* 5 metre cable inclusive